

**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 : P4550
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	21
10) Sample Data	25
10.1) VPB190-HYD-20241023	26
10.2) VPB190-HYD-20241023RE	37
10.2.1) BP-VPB-190-GW-318-320	48
10.2.2) BP-VPB-190-GW-358-360	64
10.2.3) BP-VPB-190-GW-398-400	76
11) Calibration Data Summary	87
11.1) Initial Calibration Data	3
11.1.1) BN102424	88
11.2) Continued Calibration Data	275
11.2.1) BN034721.D	275
11.2.2) BN034732.D	301
11.2.3) BN034734.D	327
11.2.4) BN034738.D	353
12) QC Sample Data	379
12.1) Tune Raw Data	380
12.2) Method Blank Data	392
12.3) LCS Data	402
12.4) LCSD Data	426
13) Manual Integration	450
14) Analytical Runlogs	452

Table Of Contents for P4550

15) Extraction Logs	460
15.1) PB164409.pdf	460
15.2) PB164409IC.pdf	462
16) Standard Prep Logs	463
17) Shipping Document	530
17.1) Chain Of Custody	531
17.2) Lab Certificate	532
17.3) Internal COC	533
18) Not Reviewed Data	535

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

Cover Page

Order ID : P4550

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4550-01
P4550-02
P4550-03
P4550-04
P4550-05
P4550-06
P4550-07
P4550-08
P4550-09
P4550-10
P4550-11
P4550-12

Client Sample Number

BP-VPB-190-TB-20241022
VPB190-HYD-20241023
BP-VPB-190-EB-20241023
BP-VPB-190-GW-298-300
BP-VPB-190-GW-318-320
BP-VPB-190-GW-338-340
BP-VPB-190-GW-338-340MS
BP-VPB-190-GW-338-340MSD
BP-VPB-190-GW-358-360
BP-VPB-190-GW-378-380
BP-VPB-190-GW-398-400
BP-VPB-190-GW-418-420

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: 11/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4550

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

12 Water samples were received on 10/24/2024.

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-GG. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for VPB190-HYD-20241023 [2-Methylnaphthalene-d10 - 5%,], VPB190-HYD-20241023RE [2-Methylnaphthalene-d10 - 5%,], Failure sample for surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy, and BP-VPB-190-GW-318-320 [Terphenyl-d14 - 142%] and BP-VPB-190-GW-398-400 [Terphenyl-d14 - 134%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration 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).” For all dep

The Sample BP-VPB-190-GW-398-400, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P4550

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration 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. The Surrogate recoveries met the acceptable criteria except for VPB190-HYD- 20241023 [2-Methylnaphthalene-d10 - 5%,], VPB190-HYD-20241023RE [2- Methylnaphthalene-d10 - 5%,], Failure sample for surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy, and BP-VPB-190-GW-318-320 [Terphenyl-d14 - 142%] and BP-VPB-190-GW-398-400 [Terphenyl-d14 - 134%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓

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

(CONTINUED)

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

ADDITIONAL COMMENTS:

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

The Sample BP-VPB-190-GW-398-400, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4550

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: 11/05/2024

LAB CHRONICLE

OrderID:	P4550	OrderDate:	10/24/2024 5:50:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K63,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4550-02	VPB190-HYD-202410 23	Water			10/23/24			10/24/24
			SVOC-SIMGroup1	8270-Modified		10/25/24	10/25/24	
P4550-02RE	VPB190-HYD-202410 23RE	Water			10/23/24			10/24/24
			SVOC-SIMGroup1	8270-Modified		10/25/24	10/26/24	
P4550-05	BP-VPB-190-GW-318- 320	Water			10/22/24			10/24/24
			SVOC-SIMGroup1	8270-Modified		10/25/24	10/25/24	
P4550-09	BP-VPB-190-GW-358- 360	Water			10/23/24			10/24/24
			SVOC-SIMGroup1	8270-Modified		10/25/24	10/25/24	
P4550-11	BP-VPB-190-GW-398- 400	Water			10/23/24			10/24/24
			SVOC-SIMGroup1	8270-Modified		10/25/24	10/26/24	

Hit Summary Sheet SW-846

SDG No.: P4550
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-190-GW-318-320								
P4550-05	BP-VPB-190-GW-318-32 WATER	1,4-Dioxane	0.370		0.09	0.26	0.26	ug/L
		Total Svoc :			0.37			
		Total Concentration:			0.37			
Client ID : BP-VPB-190-GW-358-360								
P4550-09	BP-VPB-190-GW-358-36 WATER	1,4-Dioxane	0.620		0.1	0.28	0.28	ug/L
		Total Svoc :			0.62			
		Total Concentration:			0.62			



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P4550

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4550-02	VPB190-HYD-20241023	2-Methylnaphthalene-d10	0.4	0.020	5	*	30	150
		Fluoranthene-d10	0.4	0.18	45		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.26	65		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
P4550-02RE	VPB190-HYD-20241023RE	2-Methylnaphthalene-d10	0.4	0.019	5	*	30	150
		Fluoranthene-d10	0.4	0.18	45		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.26	66		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
P4550-05	BP-VPB-190-GW-318-320	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.41	101		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
P4550-09	BP-VPB-190-GW-358-360	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
P4550-11	BP-VPB-190-GW-398-400	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
PB164409BL	PB164409BL	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
PB164409BS	PB164409BS	2-Methylnaphthalene-d10	0.4	0.47	118		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB164409BSD	PB164409BSD	2-Methylnaphthalene-d10	0.4	0.48	119		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.39	96		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.47	118		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4550

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034727.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164409BS	1,4-Dioxane	0.4	0.28	ug/L	70				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4550Client: Tetra Tech NUS, Inc.Analytical Method: 8270-Modified DataFile: BN034728.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164409BSD	1,4-Dioxane	0.4	0.29	ug/L	73	4			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164409BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4550

SAS No.: P4550 SDG NO.: P4550

Lab File ID: BN034735.D

Lab Sample ID: PB164409BL

Instrument ID: BNA_N

Date Extracted: 10/25/2024

Matrix: (soil/water) Water

Date Analyzed: 10/26/2024

Level: (low/med) LOW

Time Analyzed: 10:52

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BP-VPB-190-GW-398-400	P4550-11	BN034736.D	10/26/2024
PB164409BSD	PB164409BSD	BN034728.D	10/25/2024
VPB190-HYD-20241023	P4550-02	BN034729.D	10/25/2024
BP-VPB-190-GW-318-320	P4550-05	BN034730.D	10/25/2024
PB164409BS	PB164409BS	BN034727.D	10/25/2024
BP-VPB-190-GW-358-360	P4550-09	BN034731.D	10/25/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4550 SDG NO.: P4550Lab File ID: BN034683.DDFTPP Injection Date: 10/24/2024Instrument ID: BNA_NDFTPP Injection Time: 07:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	66.1
68	Less than 2.0% of mass 69	0.9 (1.7) 1
69	Mass 69 relative abundance	54.4
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	60.3
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	20.6
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	7.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.1 (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
SSTDICC0.1	SSTDICC0.1	BN034684.D	10/24/2024	09:11
SSTDICC0.2	SSTDICC0.2	BN034685.D	10/24/2024	09:47
SSTDICCC0.4	SSTDICCC0.4	BN034686.D	10/24/2024	10:23
SSTDICC0.8	SSTDICC0.8	BN034687.D	10/24/2024	10:59
SSTDICC1.6	SSTDICC1.6	BN034688.D	10/24/2024	11:35
SSTDICC3.2	SSTDICC3.2	BN034689.D	10/24/2024	12:11
SSTDICC5.0	SSTDICC5.0	BN034690.D	10/24/2024	12:48



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4550SDG NO.: P4550Lab File ID: BN034720.DDFTPP Injection Date: 10/25/2024Instrument ID: BNA_NDFTPP Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	66.6
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	56.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	61.5
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	6.8
275	10.0 - 60.0% of mass 198	21
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	7.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.5 (19.4) 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	BN034721.D	10/25/2024	09:46
PB164409BS	PB164409BS	BN034727.D	10/25/2024	17:40
PB164409BSD	PB164409BSD	BN034728.D	10/25/2024	18:16
VPB190-HYD-20241023	P4550-02	BN034729.D	10/25/2024	18:53
BP-VPB-190-GW-318-320	P4550-05	BN034730.D	10/25/2024	19:29
BP-VPB-190-GW-358-360	P4550-09	BN034731.D	10/25/2024	20:05
SSTDCCC0.4EC	SSTDCCC0.4	BN034732.D	10/25/2024	20:41



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4550SDG NO.: P4550Lab File ID: BN034733.DDFTPP Injection Date: 10/26/2024Instrument ID: BNA_NDFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	73.1
68	Less than 2.0% of mass 69	1 (1.6) 1
69	Mass 69 relative abundance	59.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	65.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	20.4
365	Greater than 1% of mass 198	2.4
441	Present, but less than mass 443	7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	8.5 (18.8) 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	BN034734.D	10/26/2024	10:16
PB164409BL	PB164409BL	BN034735.D	10/26/2024	10:52
BP-VPB-190-GW-398-400	P4550-11	BN034736.D	10/26/2024	11:28
VPB190-HYD-20241023RE	P4550-02RE	BN034737.D	10/26/2024	12:05
SSTDCCC0.4EC	SSTDCCC0.4	BN034738.D	10/26/2024	12:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4550 SAS No.: P4550 SDG NO.: P4550

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/25/2024

Lab File ID: BN034721.D Time Analyzed: 09:46

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	6565	7.705	19566	10.48	9604	14.33
UPPER LIMIT	13130	8.205	39132	10.979	19208	14.825
LOWER LIMIT	3282.5	7.205	9783	9.979	4802	13.825
EPA SAMPLE NO.						
01 VPB190-HYD-20241023	8808	7.65	25081	10.43	12081	14.28
02 BP-VPB-190-GW-318-320	8100	7.66	23066	10.42	11169	14.28
03 PB164409BS	8770	7.65	24617	10.43	11438	14.28
04 BP-VPB-190-GW-358-360	8001	7.65	22771	10.43	10442	14.28
05 PB164409BSD	8434	7.65	23419	10.43	10653	14.28

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.: P4550 SAS No.: P4550 SDG NO.: P4550

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/25/2024

Lab File ID: BN034721.D Time Analyzed: 09:46

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	17577	17.064	13068	21.248	14018	23.459
UPPER LIMIT	35154	17.564	26136	21.748	28036	23.959
LOWER LIMIT	8788.5	16.564	6534	20.748	7009	22.959
EPA SAMPLE NO.						
01 VPB190-HYD-20241023	23223	17.02	12463	21.21	11231	23.41
02 BP-VPB-190-GW-318-320	21194	17.03	11462	21.21	10529	23.41
03 PB164409BS	20789	17.03	11212	21.21	10991	23.42
04 BP-VPB-190-GW-358-360	19183	17.02	12779	21.21	12768	23.41
05 PB164409BSD	19220	17.03	10276	21.21	10044	23.42

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4550 SAS No.: P4550 SDG NO.: P4550

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/26/2024

Lab File ID: BN034734.D Time Analyzed: 10:16

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	8464	7.647	25235	10.42	12818	14.27
UPPER LIMIT	16928	8.147	50470	10.915	25636	14.772
LOWER LIMIT	4232	7.147	12617.5	9.915	6409	13.772
EPA SAMPLE NO.						
01 BP-VPB-190-GW-398-400	8583	7.65	24972	10.42	11895	14.28
02 PB164409BL	8695	7.65	24402	10.42	10618	14.27
03 VPB190-HYD-20241023RE	9064	7.65	26031	10.42	12214	14.27

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.: P4550 SAS No.: P4550 SDG NO.: P4550

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/26/2024

Lab File ID: BN034734.D Time Analyzed: 10:16

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	25182	17.014	13756	21.212	12370	23.406
UPPER LIMIT	50364	17.514	27512	21.712	24740	23.906
LOWER LIMIT	12591	16.514	6878	20.712	6185	22.906
EPA SAMPLE NO.						
01 BP-VPB-190-GW-398-400	22735	17.02	11602	21.21	9891	23.41
02 PB164409BL	19019	17.03	9693	21.21	9063	23.41
03 VPB190-HYD-20241023RE	23563	17.01	11935	21.21	8887	23.41

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/23/24	
Project:	CTO WE13		Date Received:	10/24/24	
Client Sample ID:	VPB190-HYD-20241023		SDG No.:	P4550	
Lab Sample ID:	P4550-02		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
BN034729.D	1	10/25/24 10:45	10/25/24 18:53	PB164409

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	0.020	*	30 - 150		5%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.18		30 - 150		45%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		65%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8810	7.654				
1146-65-2	Naphthalene-d8	25100	10.426				
15067-26-2	Acenaphthene-d10	12100	14.275				
1517-22-2	Phenanthrene-d10	23200	17.019				
1719-03-5	Chrysene-d12	12500	21.214				
1520-96-3	Perylene-d12	11200	23.414				

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\BN102524\
Data File : BN034729.D
Acq On : 25 Oct 2024 18:53
Operator : RC/JU
Sample : P4550-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

Quant Time: Oct 25 22:43:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

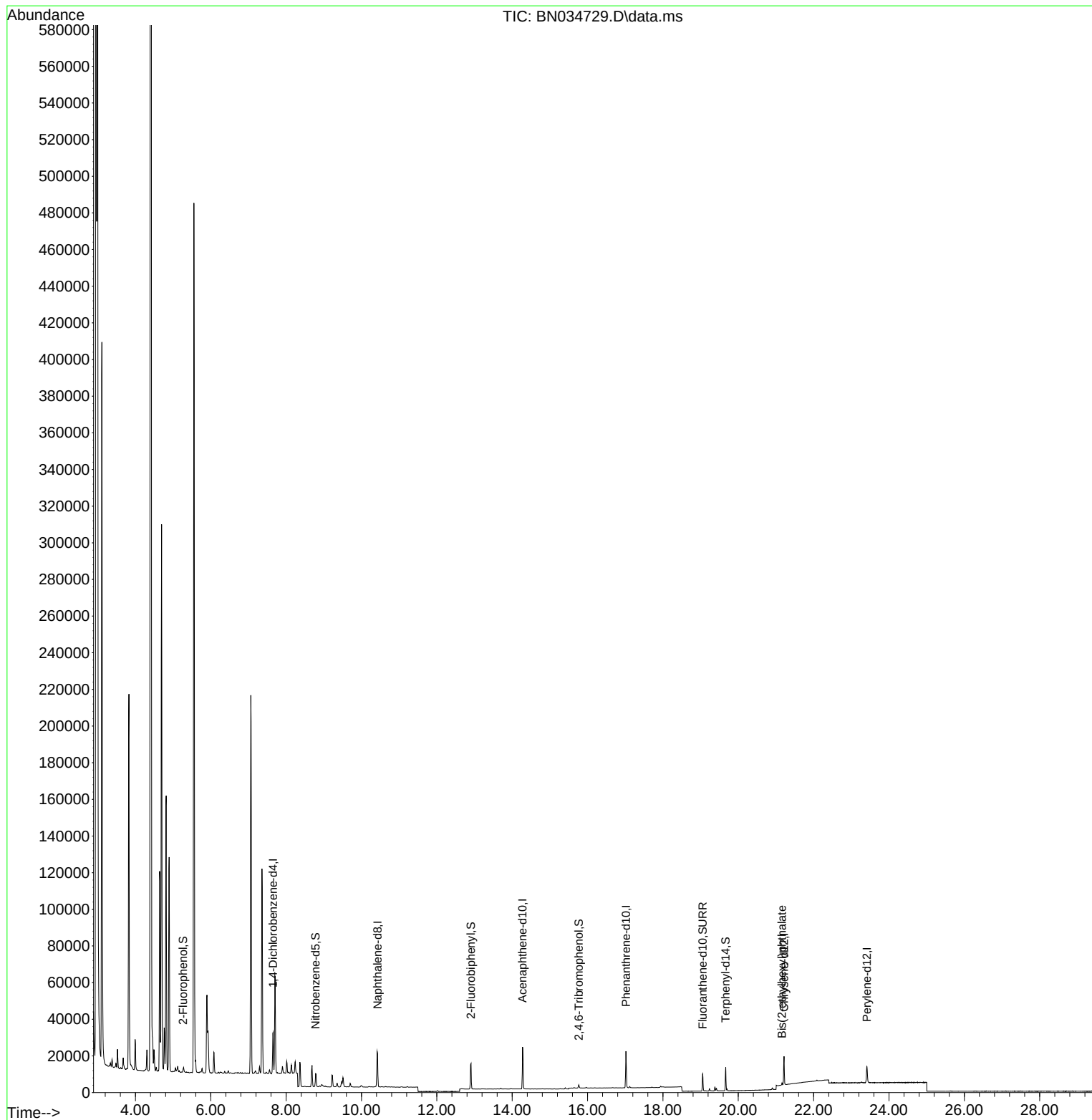
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8808	0.400	ng	-0.06
7) Naphthalene-d8	10.426	136	25081	0.400	ng	#-0.05
13) Acenaphthene-d10	14.275	164	12081	0.400	ng	-0.05
19) Phenanthrene-d10	17.019	188	23223	0.400	ng	#-0.05
29) Chrysene-d12	21.214	240	12463	0.400	ng	-0.04
35) Perylene-d12	23.414	264	11231	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	607	0.023	ng	-0.06
5) Phenol-d6	6.809	99	9	0.000	ng	-0.07
8) Nitrobenzene-d5	8.781	82	5660	0.269	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	679	0.020	ng	-0.06
14) 2,4,6-Tribromophenol	15.766	330	853	0.228	ng	-0.05
15) 2-Fluorobiphenyl	12.907	172	12439	0.259	ng	-0.04
27) Fluoranthene-d10	19.057	212	9426	0.180	ng	-0.04
31) Terphenyl-d14	19.665	244	10091	0.396	ng	-0.04
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.160	149	1169	0.043	ng	# 98

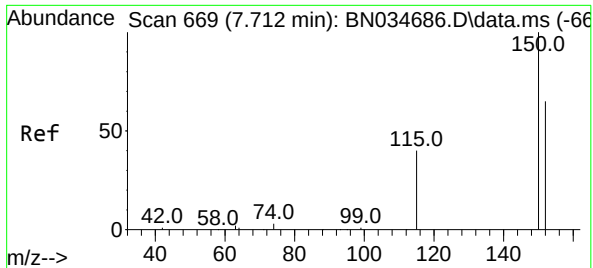
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034729.D
Acq On : 25 Oct 2024 18:53
Operator : RC/JU
Sample : P4550-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

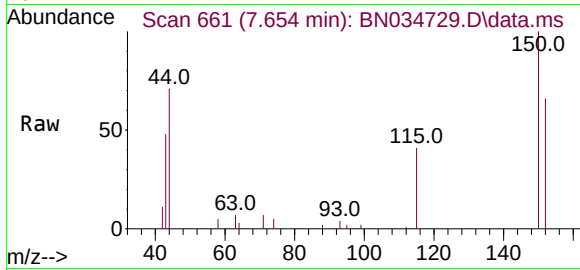
Quant Time: Oct 25 22:43:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration



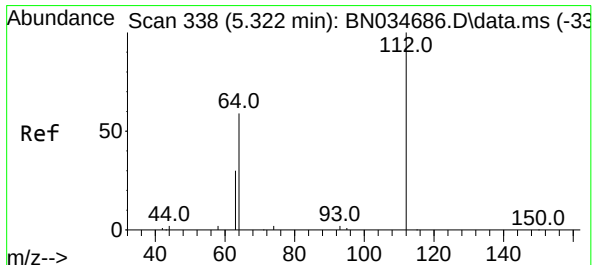
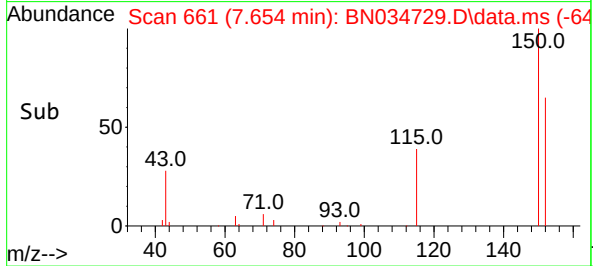
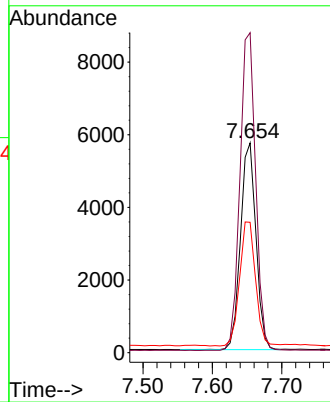


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 669
Delta R.T. -0.058 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

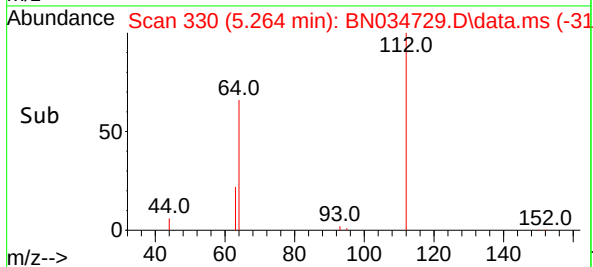
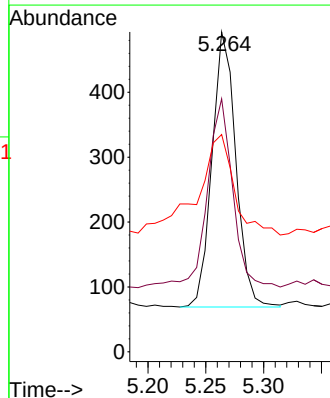
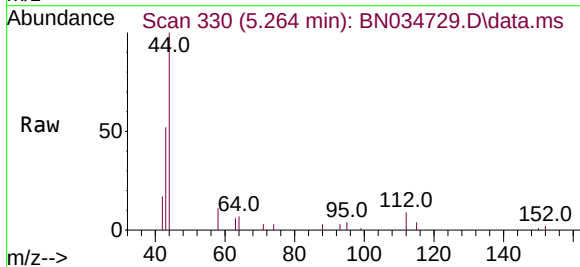


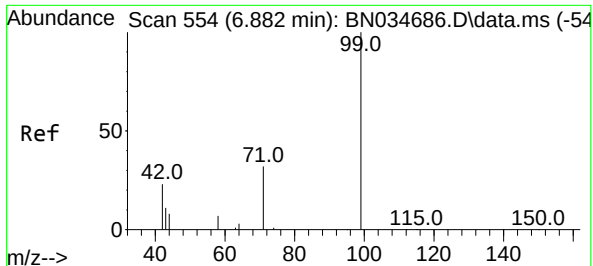
Tgt Ion:152 Resp: 8808
Ion Ratio Lower Upper
152 100
150 152.5 122.7 184.1
115 62.1 51.0 76.6



#4
2-Fluorophenol
Concen: 0.023 ng
RT: 5.264 min Scan# 330
Delta R.T. -0.058 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion:112 Resp: 607
Ion Ratio Lower Upper
112 100
64 74.1 53.0 79.6
63 58.2 27.6 41.4#

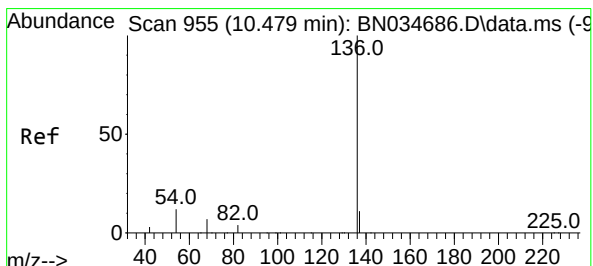
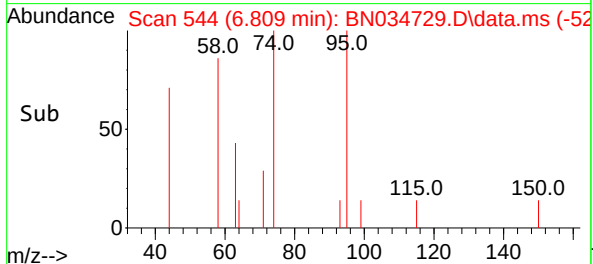
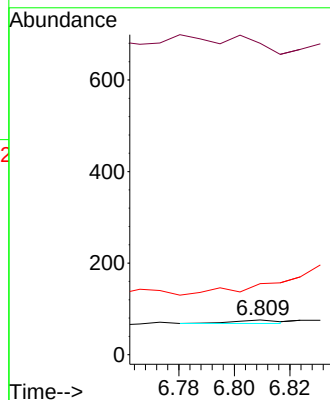
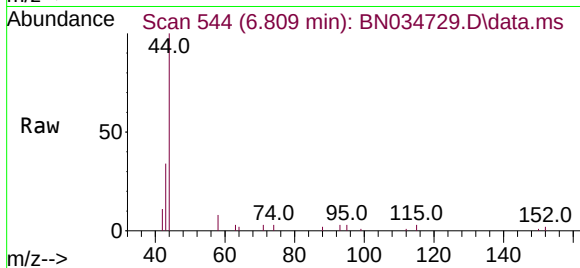




#5
Phenol-d6
Concen: 0.000 ng
RT: 6.809 min Scan# 54
Delta R.T. -0.072 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

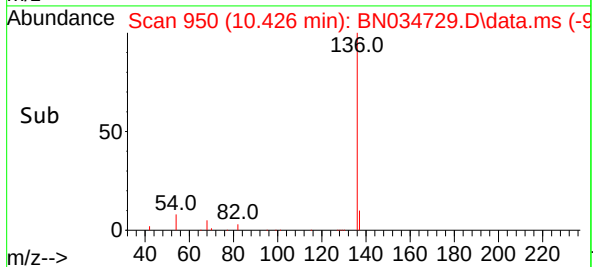
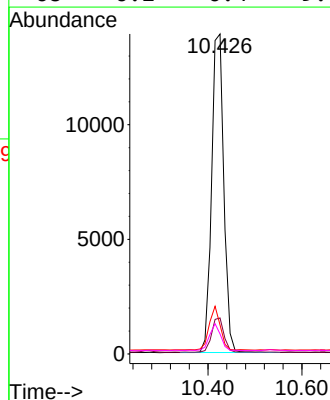
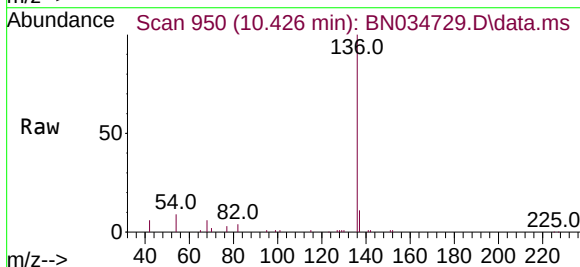
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

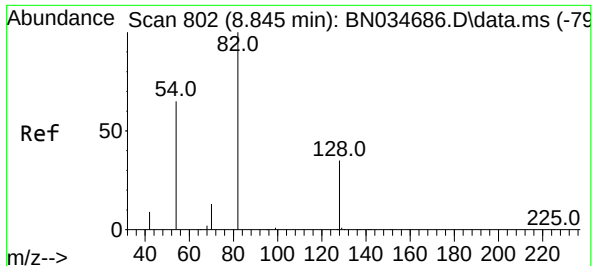
Tgt Ion: 99 Resp: 9
Ion Ratio Lower Upper
99 100
42 0.0 21.8 32.8#
71 0.0 26.6 40.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 950
Delta R.T. -0.053 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion: 136 Resp: 25081
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 9.0 9.8 14.8#
68 6.2 6.4 9.6#

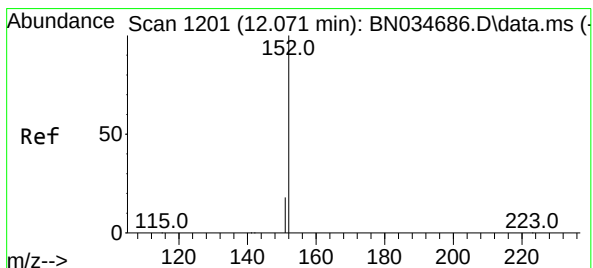
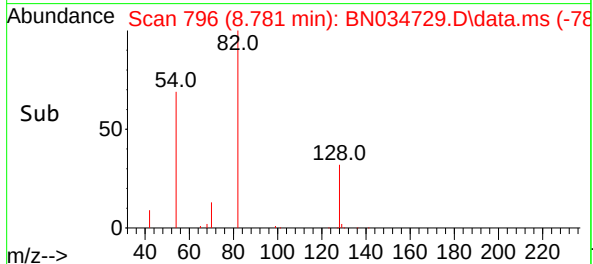
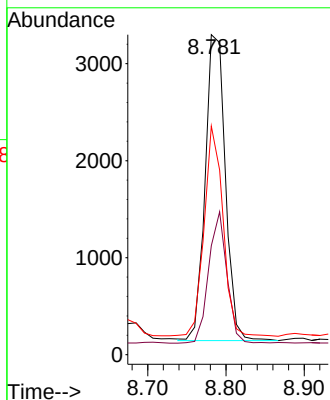
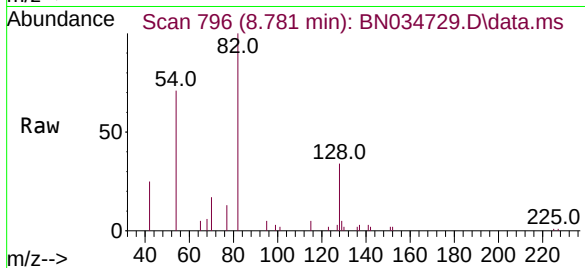




#8
Nitrobenzene-d5
Concen: 0.269 ng
RT: 8.781 min Scan# 71
Delta R.T. -0.064 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

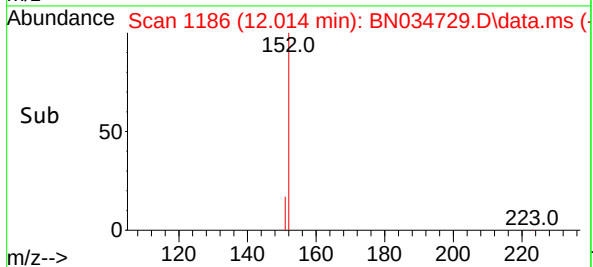
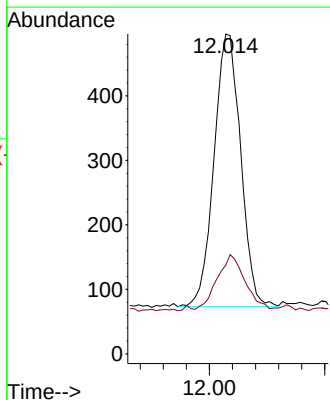
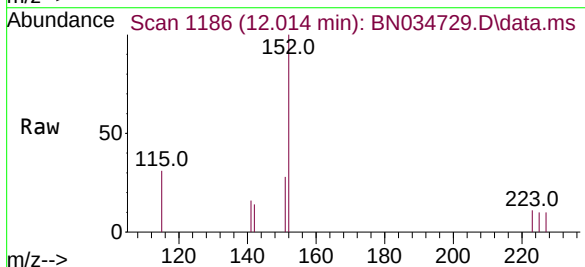
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

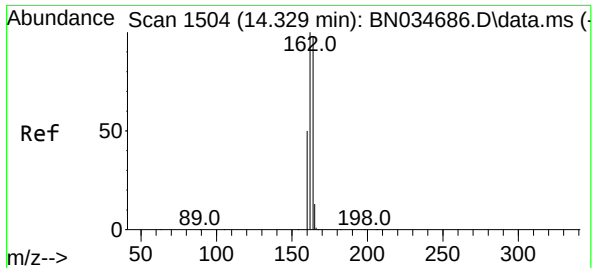
Tgt Ion:	82	Resp:	5660
Ion Ratio	Lower	Upper	
82	100		
128	34.0	29.7	44.5
54	71.5	53.0	79.6



#11
2-Methylnaphthalene-d10
Concen: 0.020 ng
RT: 12.014 min Scan# 1186
Delta R.T. -0.057 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion:	152	Resp:	679
Ion Ratio	Lower	Upper	
152	100		
151	21.8	16.7	25.1

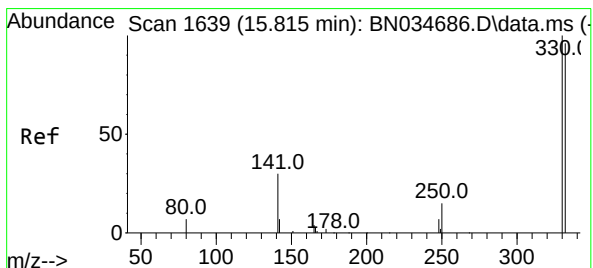
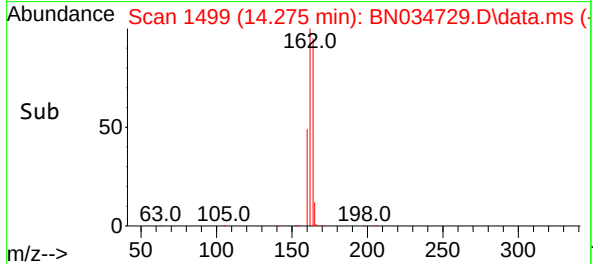
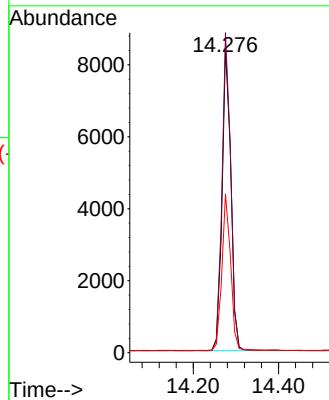
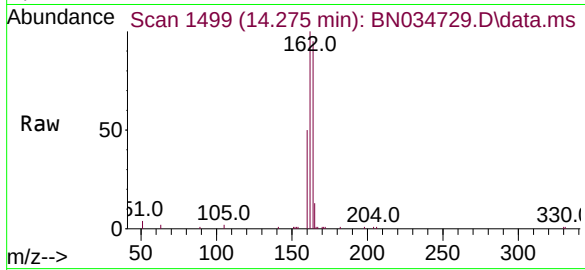




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.275 min Scan# 14
Delta R.T. -0.054 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

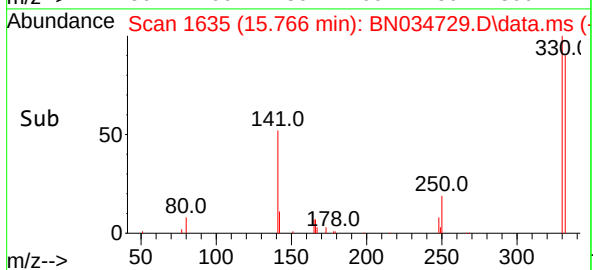
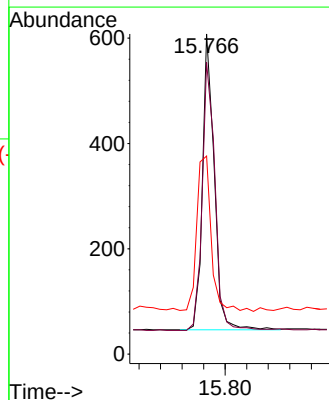
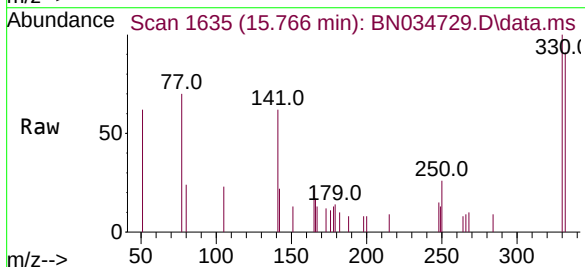
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

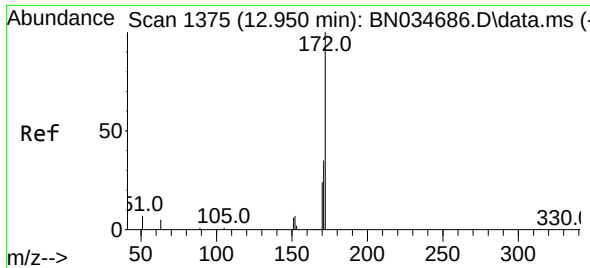
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.1	81.4	122.0
160	52.1	40.6	61.0



#14
2,4,6-Tribromophenol
Concen: 0.228 ng
RT: 15.766 min Scan# 1635
Delta R.T. -0.050 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.5	76.6	115.0
141	64.5	54.6	81.8

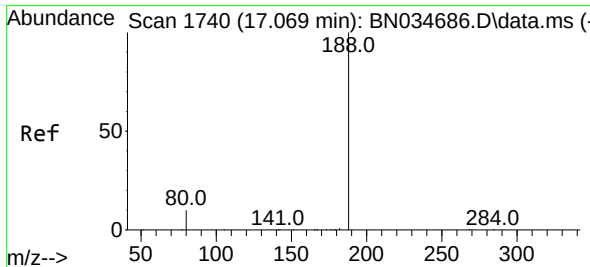
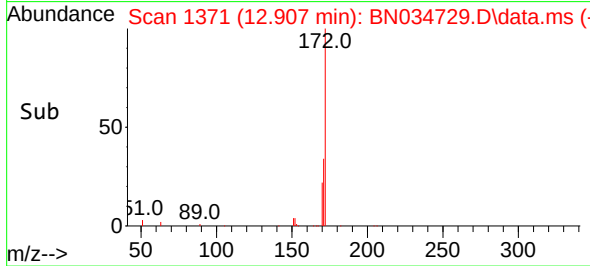
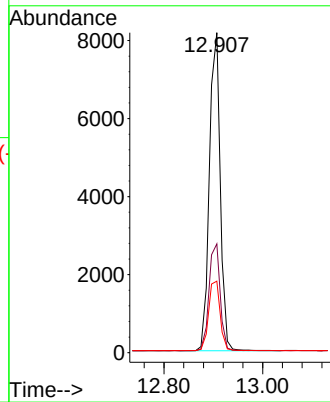
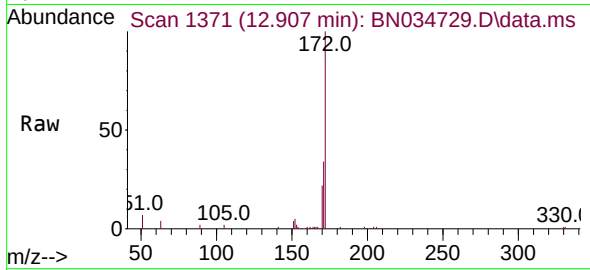




#15
2-Fluorobiphenyl
Concen: 0.259 ng
RT: 12.907 min Scan# 11
Delta R.T. -0.043 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

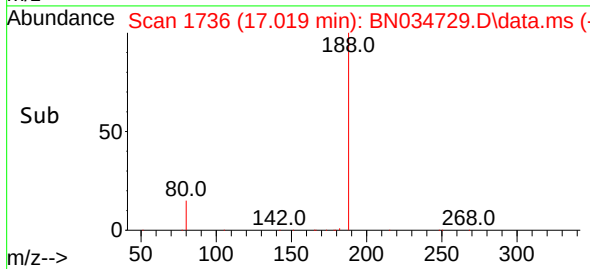
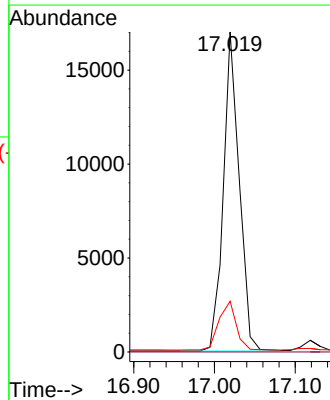
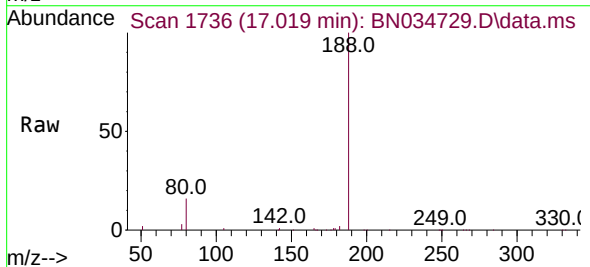
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

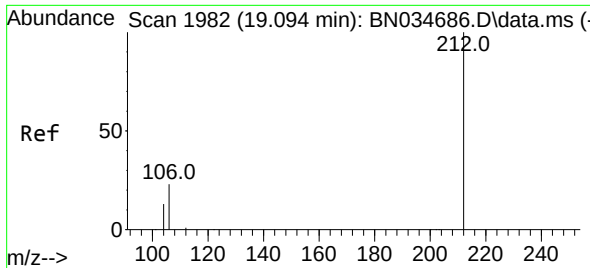
Tgt Ion:	172	Resp:	12439
Ion Ratio	Lower	Upper	
172	100		
171	34.0	28.3	42.5
170	22.3	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.019 min Scan# 1736
Delta R.T. -0.050 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion:	188	Resp:	23223
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.8	8.9	13.3#

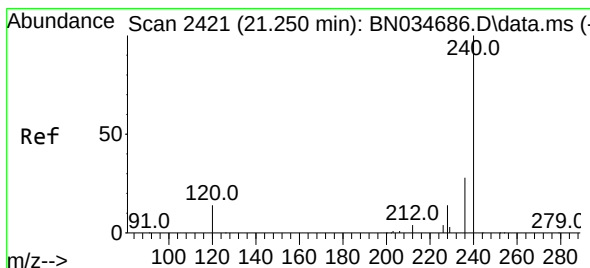
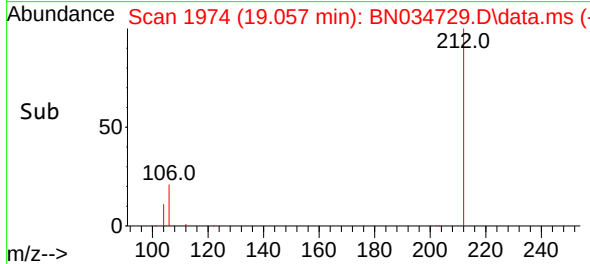
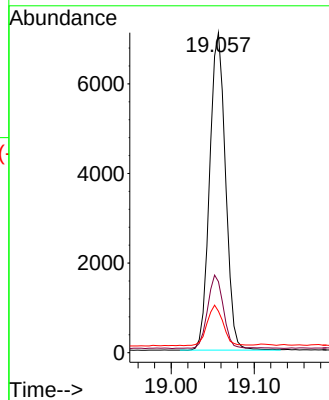
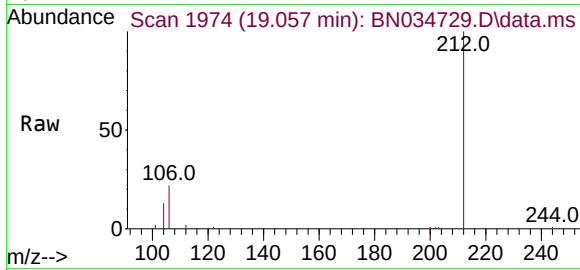




#27
Fluoranthene-d10
Concen: 0.180 ng
RT: 19.057 min Scan# 1914
Delta R.T. -0.037 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

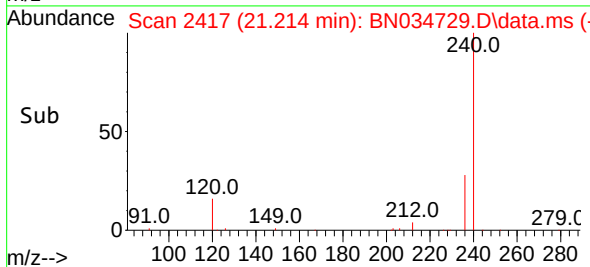
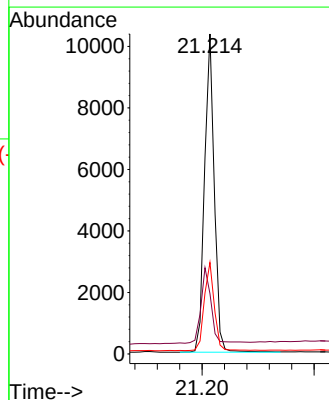
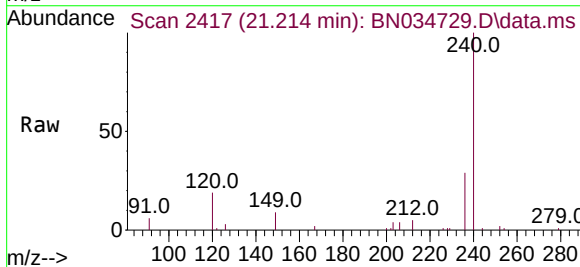
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

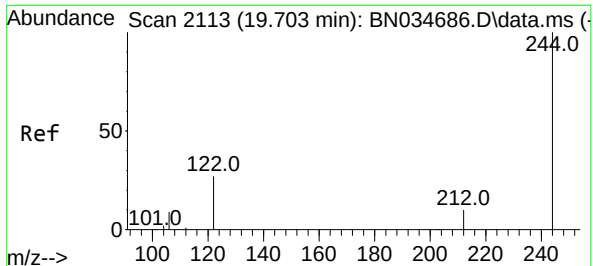
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.0	17.8	26.8
104	12.8	10.2	15.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.214 min Scan# 2417
Delta R.T. -0.036 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.9	14.2	21.2
236	28.6	23.1	34.7

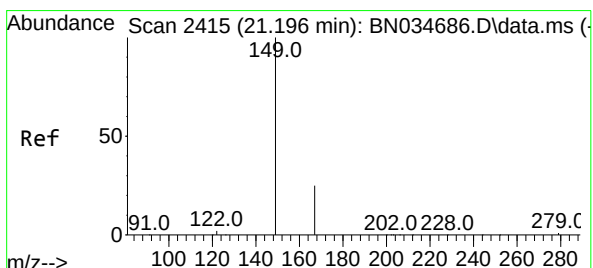
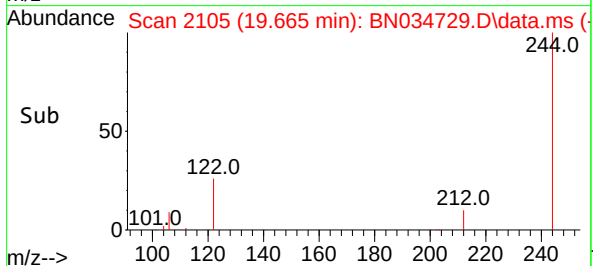
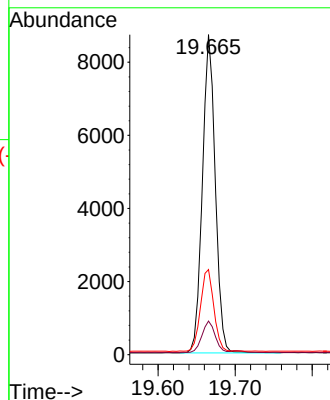
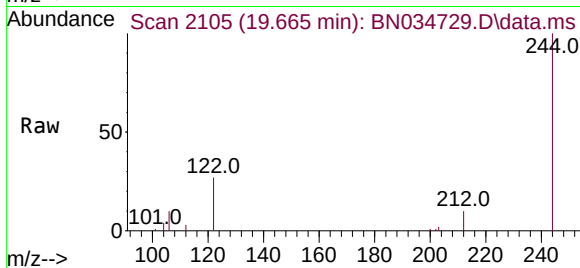




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.665 min Scan# 2105
Delta R.T. -0.037 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

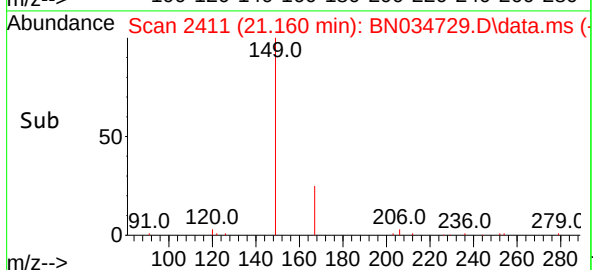
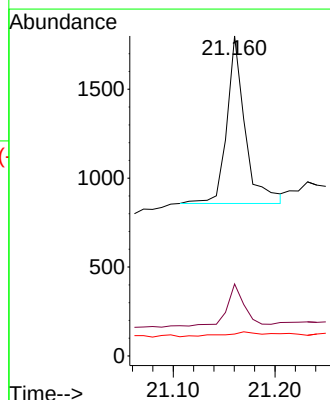
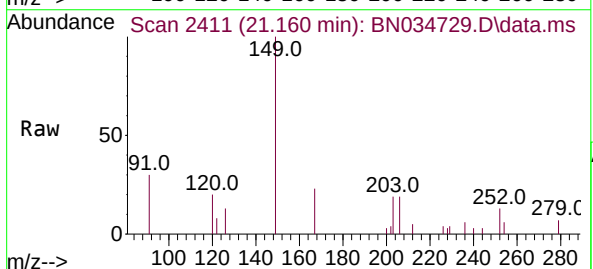
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023

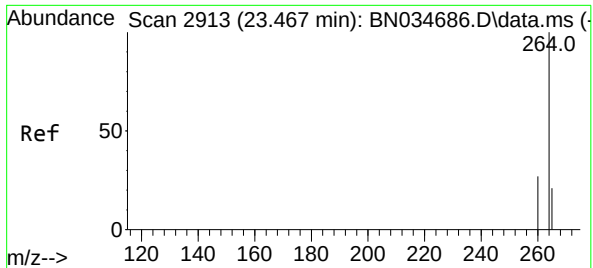
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.6	13.0
122	26.6	22.3	33.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.043 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.036 min
Lab File: BN034729.D
Acq: 25 Oct 2024 18:53

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.0	19.7	29.5
279	5.5	1.8	2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.414 min Scan# 21

Delta R.T. -0.053 min

Lab File: BN034729.D

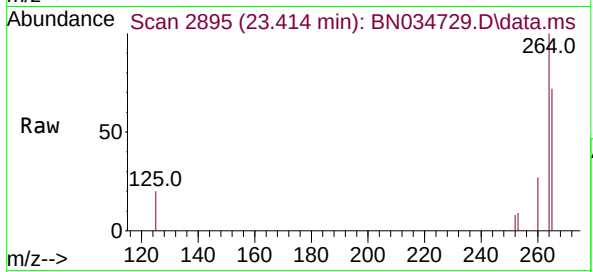
Acq: 25 Oct 2024 18:53

Instrument :

BNA_N

ClientSampleId :

VPB190-HYD-20241023



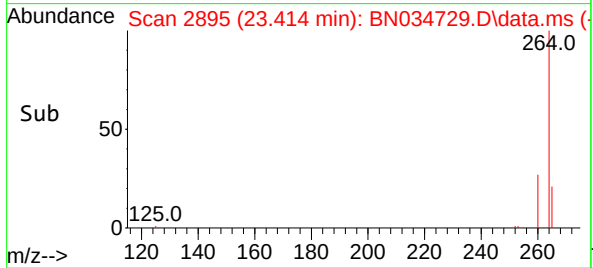
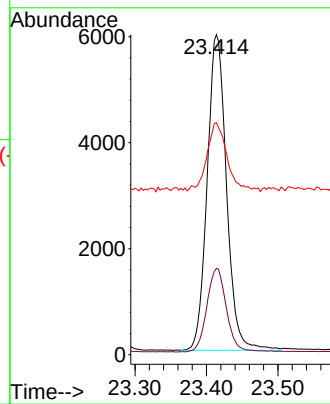
Tgt Ion:264 Resp: 11231

Ion	Ratio	Lower	Upper

264	100		

260	27.0	21.9	32.9

265	72.5	60.6	91.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/23/24	
Project:	CTO WE13		Date Received:	10/24/24	
Client Sample ID:	VPB190-HYD-20241023RE		SDG No.:	P4550	
Lab Sample ID:	P4550-02RE		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
BN034737.D	1	10/25/24 10:45	10/26/24 12:05	PB164409

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	0.019	*	30 - 150		5%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.18		30 - 150		45%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9060	7.647				
1146-65-2	Naphthalene-d8	26000	10.415				
15067-26-2	Acenaphthene-d10	12200	14.272				
1517-22-2	Phenanthrene-d10	23600	17.014				
1719-03-5	Chrysene-d12	11900	21.212				
1520-96-3	Perylene-d12	8890	23.409				

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\BN102524\
Data File : BN034737.D
Acq On : 26 Oct 2024 12:05
Operator : RC/JU
Sample : P4550-02RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

Quant Time: Oct 28 00:53:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration

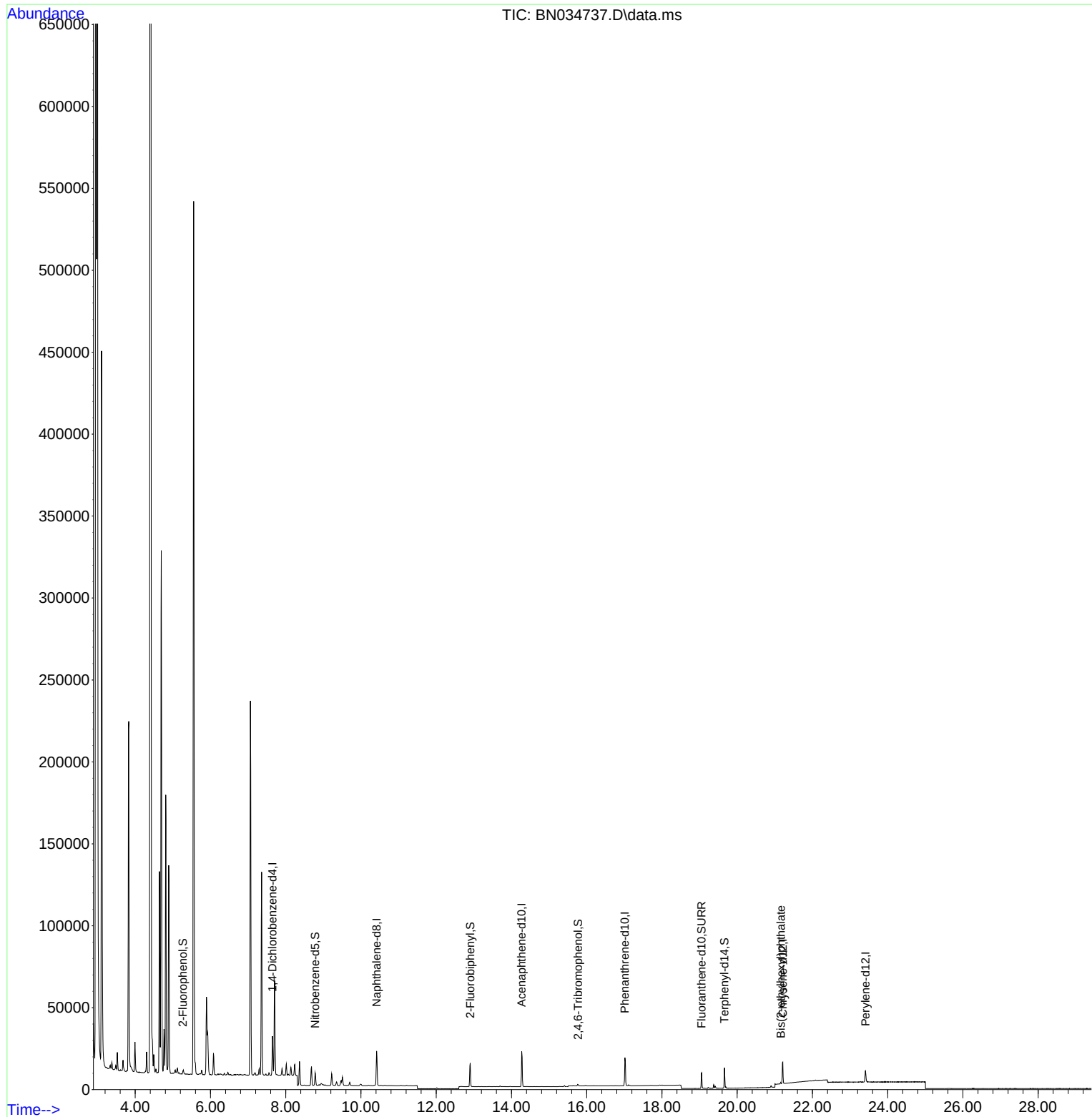
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	9064	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	26031	0.400	ng	0.00
13) Acenaphthene-d10	14.272	164	12214	0.400	ng	0.00
19) Phenanthrene-d10	17.014	188	23563	0.400	ng	# 0.00
29) Chrysene-d12	21.212	240	11935	0.400	ng	0.00
35) Perylene-d12	23.409	264	8887	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	542	0.020	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.782	82	5691	0.261	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	697	0.019	ng	0.00
14) 2,4,6-Tribromophenol	15.773	330	509	0.135	ng	0.00
15) 2-Fluorobiphenyl	12.904	172	12793	0.264	ng	0.00
27) Fluoranthene-d10	19.055	212	9594	0.181	ng	0.00
31) Terphenyl-d14	19.663	244	9753	0.400	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.158	149	930	0.036	ng	# 97

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

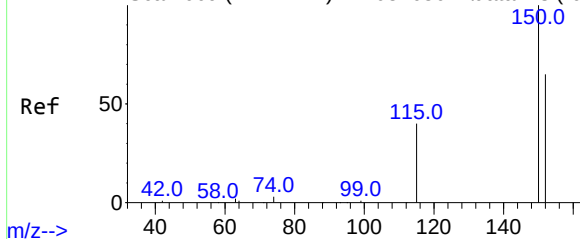
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034737.D
Acq On : 26 Oct 2024 12:05
Operator : RC/JU
Sample : P4550-02RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

Quant Time: Oct 28 00:53:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration



Abundance Scan 669 (7.712 min): BN034686.D\data.ms (-66



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.647 min Scan# 6

Delta R.T. 0.000 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

Instrument :

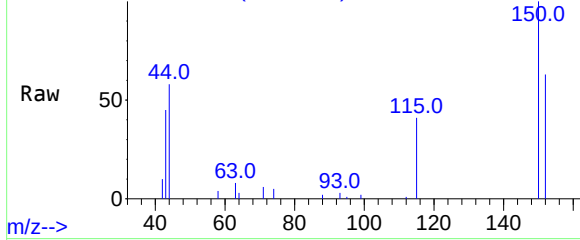
BNA_N

ClientSampleId :

VPB190-HYD-20241023RE

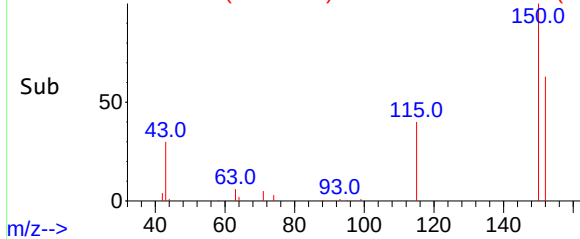
m/z-->

Abundance Scan 660 (7.647 min): BN034737.D\data.ms (-63



m/z-->

Abundance Scan 660 (7.647 min): BN034737.D\data.ms (-63



m/z-->

Tgt Ion:152 Resp: 9064

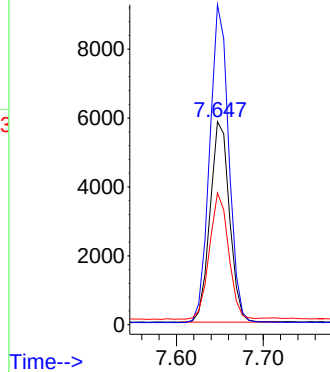
Ion Ratio Lower Upper

152 100

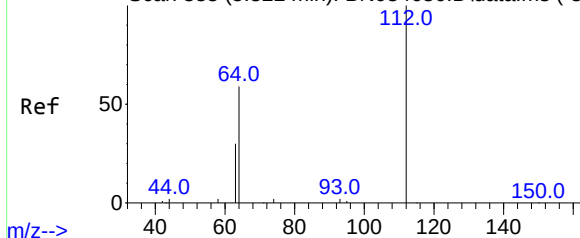
150 157.6 122.7 184.1

115 64.9 51.0 76.6

Abundance

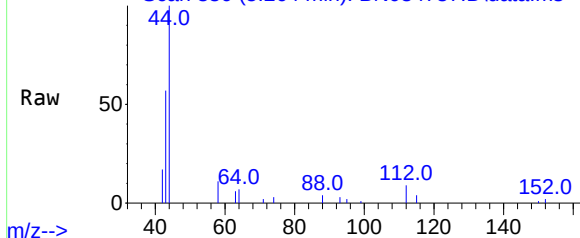


Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33



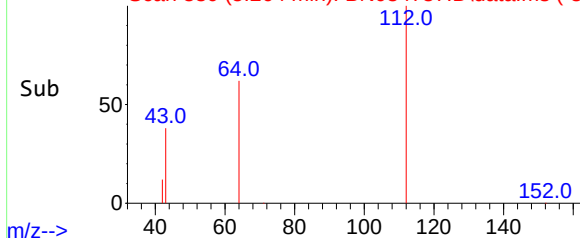
m/z-->

Abundance Scan 330 (5.264 min): BN034737.D\data.ms (-30



m/z-->

Abundance Scan 330 (5.264 min): BN034737.D\data.ms (-30



m/z-->

#4

2-Fluorophenol

Concen: 0.020 ng

RT: 5.264 min Scan# 330

Delta R.T. 0.000 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

Tgt Ion:112 Resp: 542

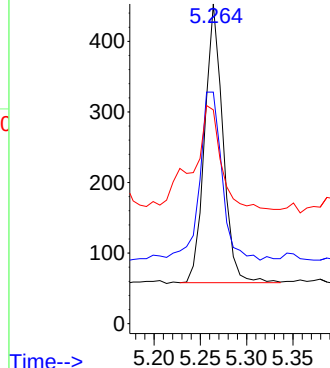
Ion Ratio Lower Upper

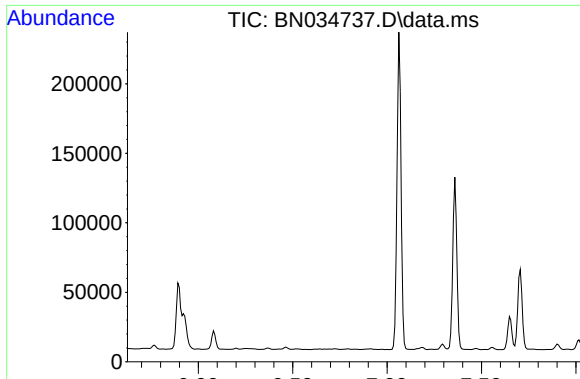
112 100

64 75.1 53.0 79.6

63 60.0 27.6 41.4#

Abundance





#5

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.82 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

Instrument :

BNA_N

ClientSampleId :

VPB190-HYD-20241023RE

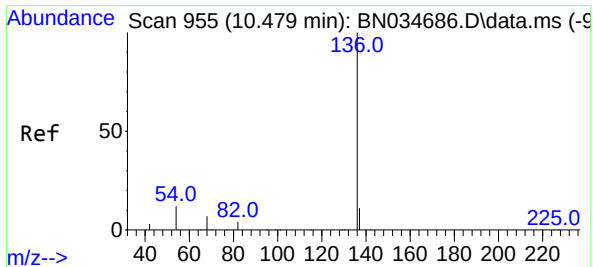
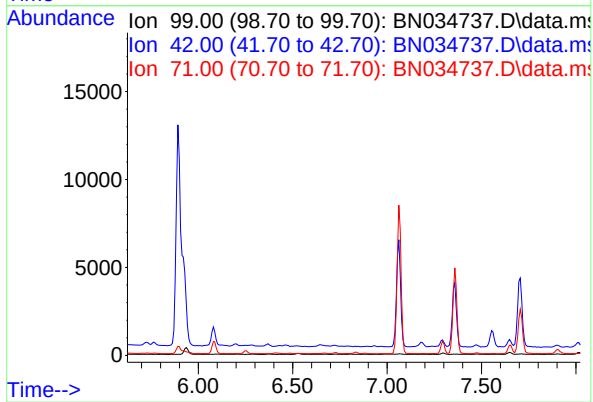
Tgt Ion: 99

Sig Exp Ratio

99 100

42 27.3

71 33.3



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.415 min Scan# 949

Delta R.T. 0.000 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

Tgt Ion: 136 Resp: 26031

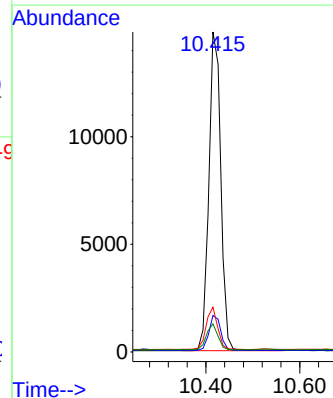
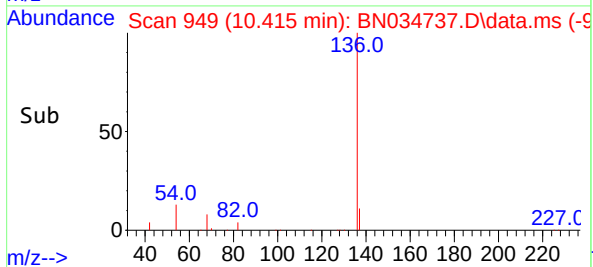
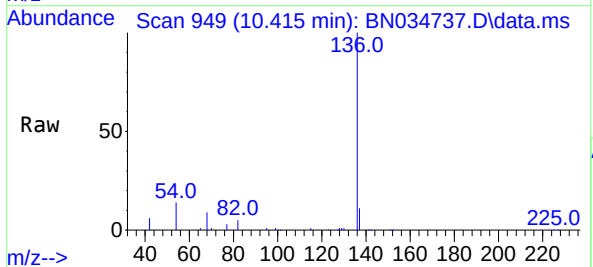
Ion Ratio Lower Upper

136 100

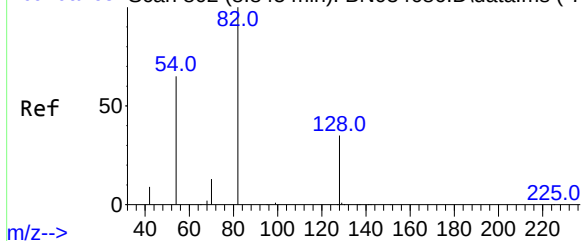
137 11.4 9.1 13.7

54 14.0 9.8 14.8

68 8.8 6.4 9.6



Abundance Scan 802 (8.845 min): BN034686.D\data.ms (-79



#8

Nitrobenzene-d5

Concen: 0.261 ng

RT: 8.782 min Scan# 71

Delta R.T. 0.000 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

Instrument :

BNA_N

ClientSampleId :

VPB190-HYD-20241023RE

Tgt Ion: 82 Resp: 5691

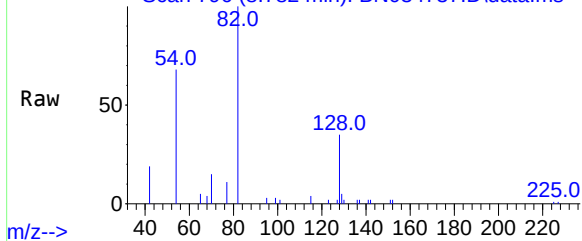
Ion Ratio Lower Upper

82 100

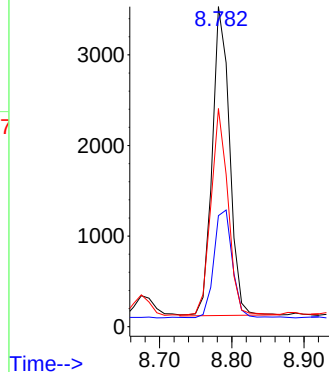
128 34.7 29.7 44.5

54 68.1 53.0 79.6

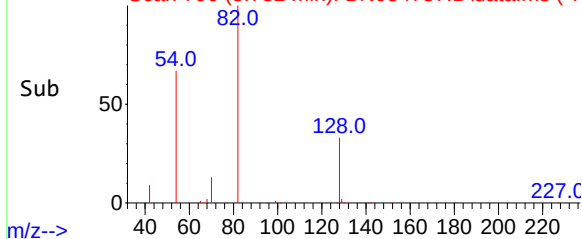
Abundance Scan 796 (8.782 min): BN034737.D\data.ms



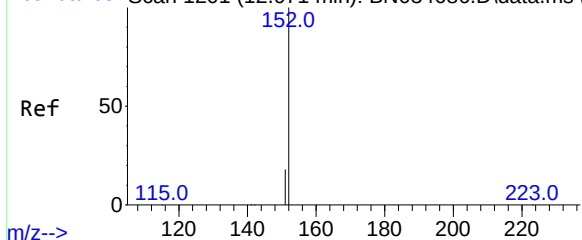
Abundance



Abundance Scan 796 (8.782 min): BN034737.D\data.ms (-77



Abundance Scan 1201 (12.071 min): BN034686.D\data.ms (-



#11

2-Methylnaphthalene-d10

Concen: 0.019 ng

RT: 12.014 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BN034737.D

Acq: 26 Oct 2024 12:05

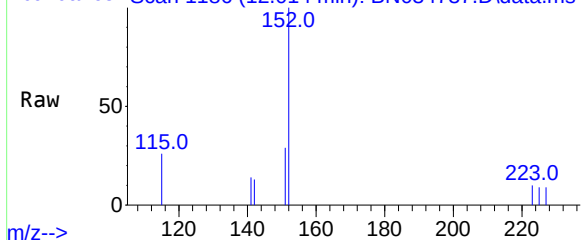
Tgt Ion: 152 Resp: 697

Ion Ratio Lower Upper

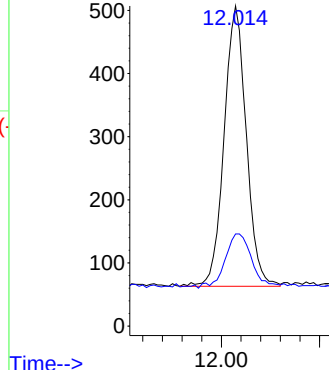
152 100

151 21.4 16.7 25.1

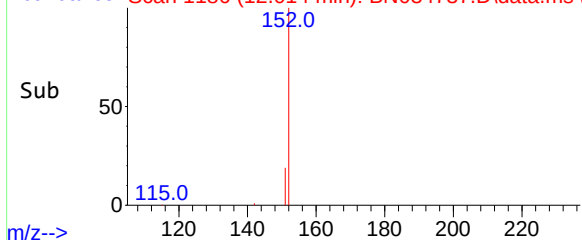
Abundance Scan 1186 (12.014 min): BN034737.D\data.ms

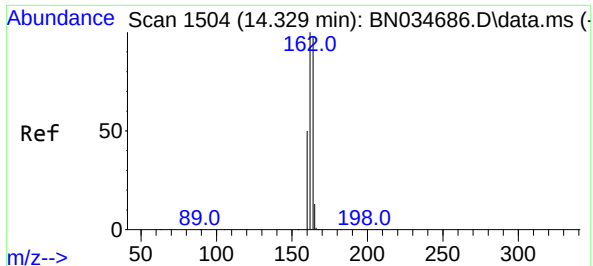


Abundance



Abundance Scan 1186 (12.014 min): BN034737.D\data.ms (-

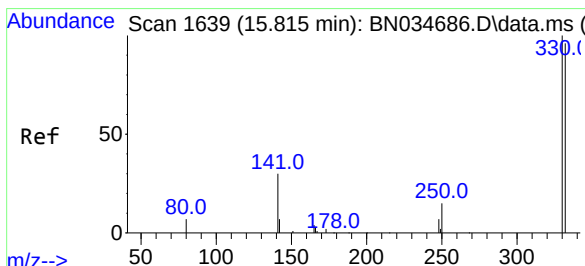
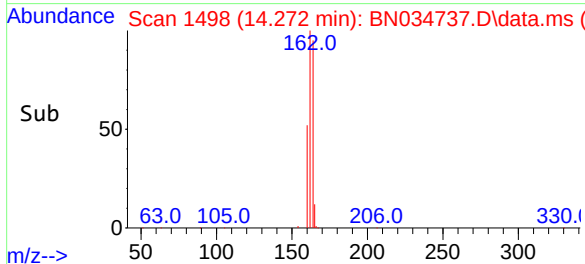
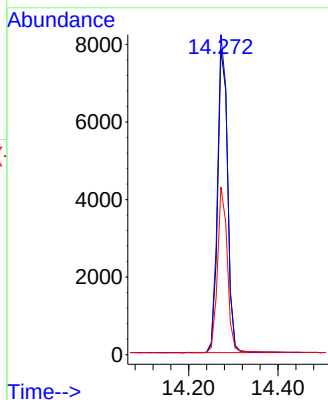
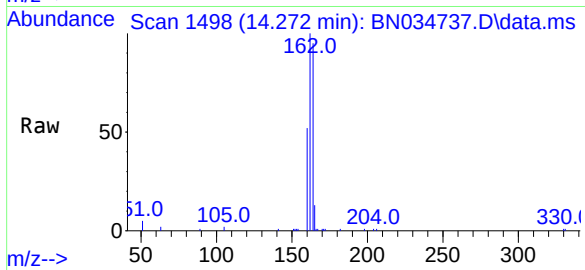




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.272 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

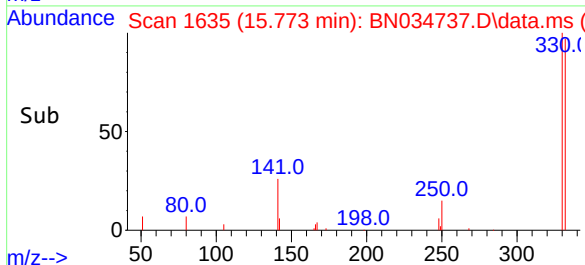
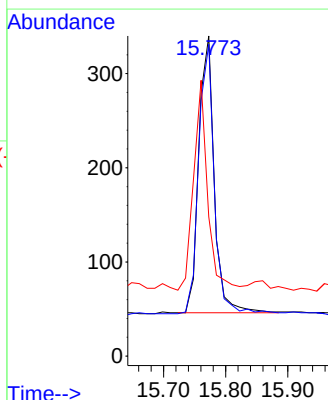
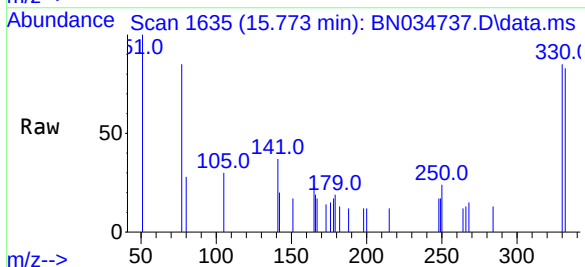
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

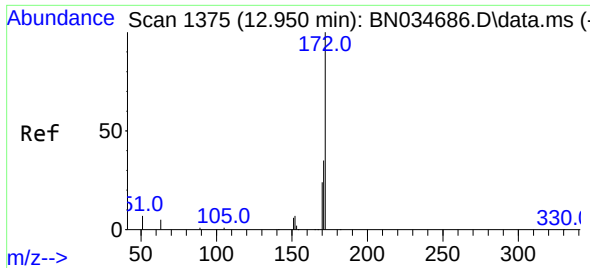
Tgt Ion:164 Resp: 12214
Ion Ratio Lower Upper
164 100
162 105.0 81.4 122.0
160 55.0 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.135 ng
RT: 15.773 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

Tgt Ion:330 Resp: 509
Ion Ratio Lower Upper
330 100
332 98.8 76.6 115.0
141 68.6 54.6 81.8

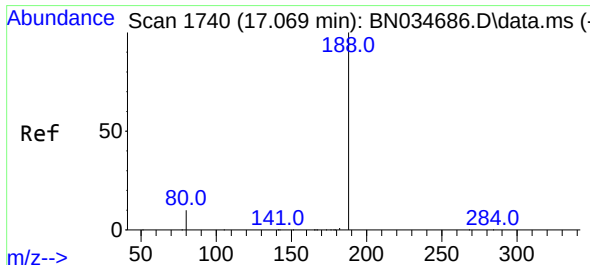
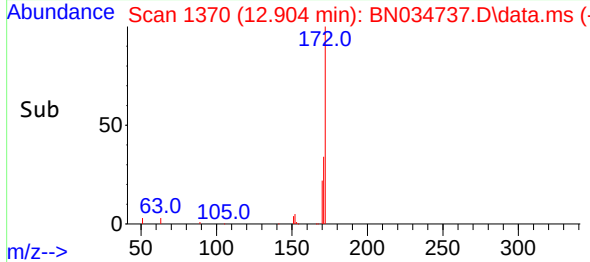
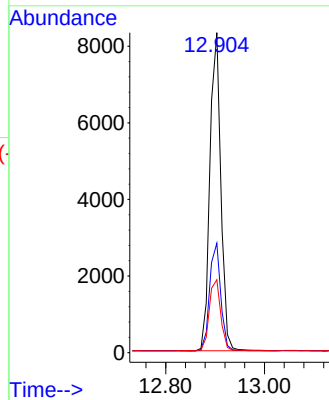
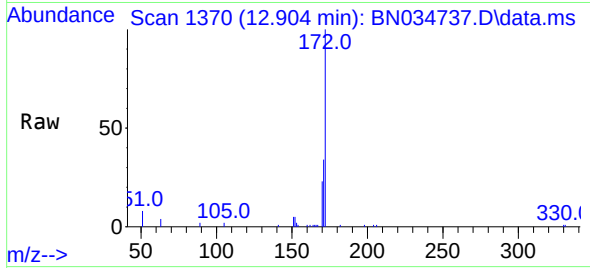




#15
2-Fluorobiphenyl
Concen: 0.264 ng
RT: 12.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

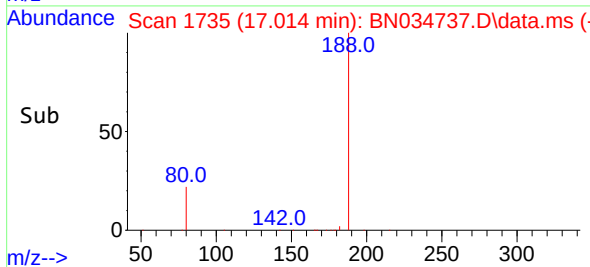
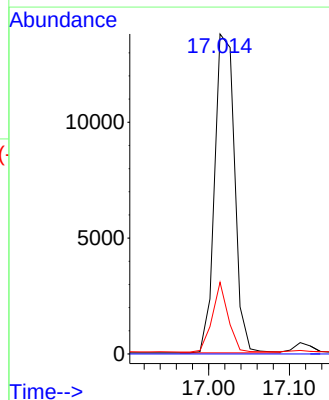
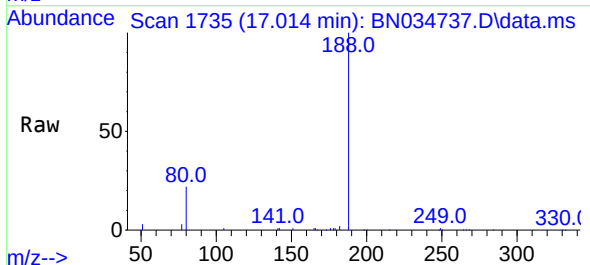
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

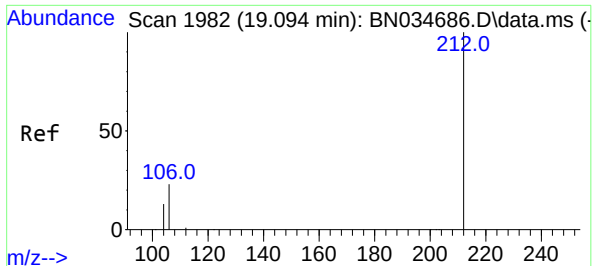
Tgt Ion:	172	Resp:	12793
Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.3	42.5
170	22.8	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.014 min Scan# 1735
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

Tgt Ion:	188	Resp:	23563
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	22.4	8.9	13.3

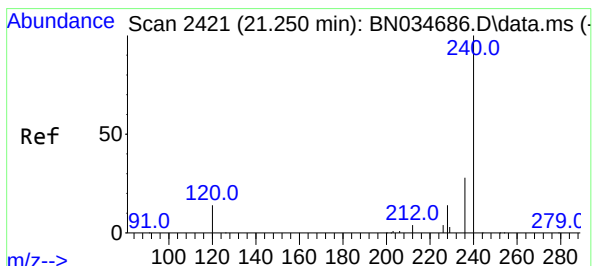
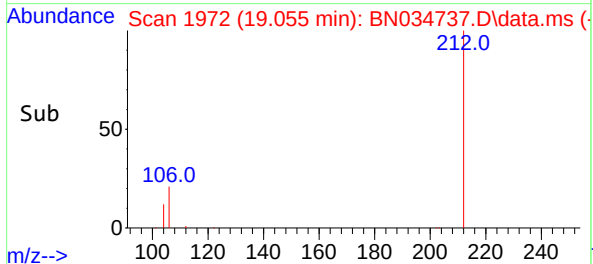
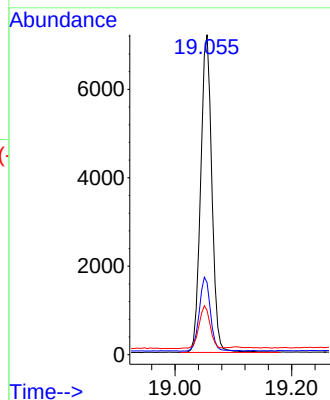
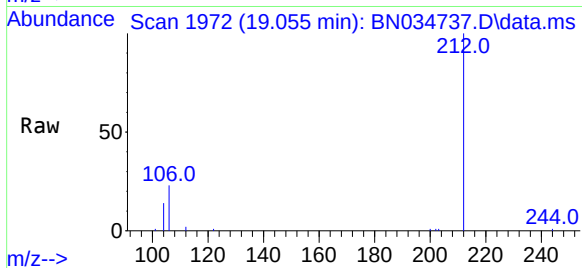




#27
Fluoranthene-d10
Concen: 0.181 ng
RT: 19.055 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

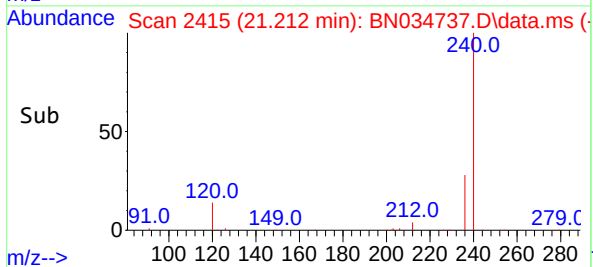
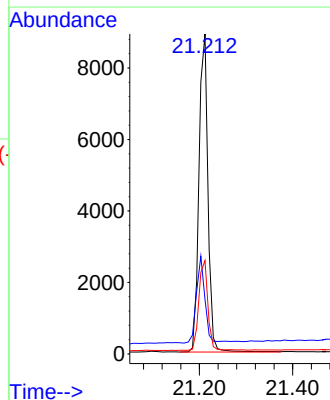
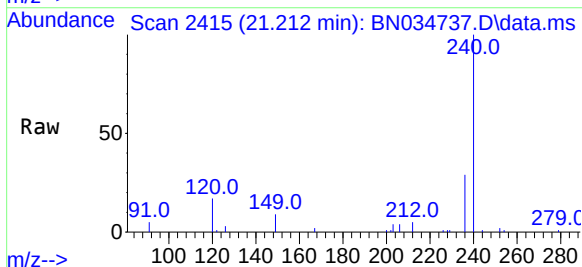
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

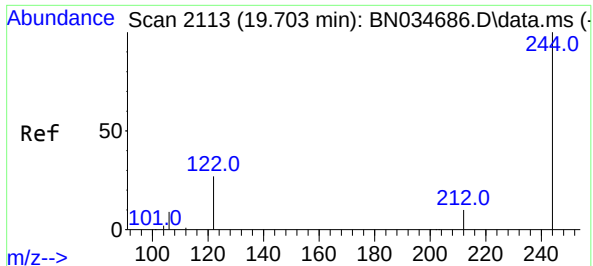
Tgt Ion:	212	Resp:	9594
Ion	Ratio	Lower	Upper
212	100		
106	23.2	17.8	26.8
104	13.4	10.2	15.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

Tgt Ion:	240	Resp:	11935
Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.2	21.2
236	29.2	23.1	34.7

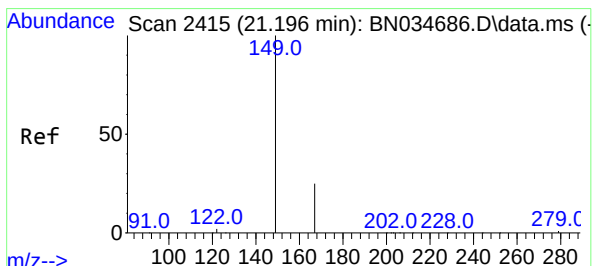
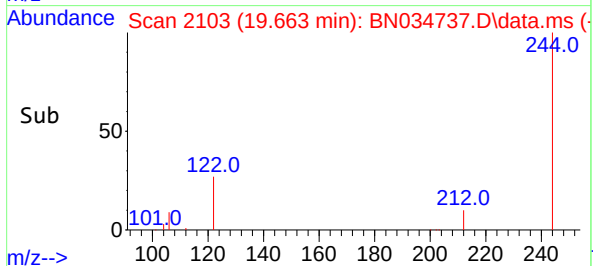
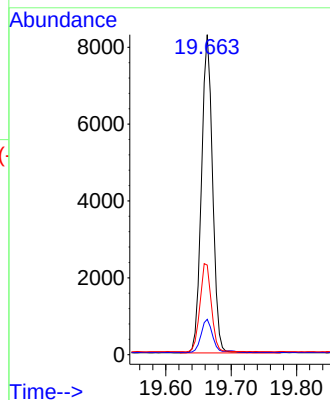
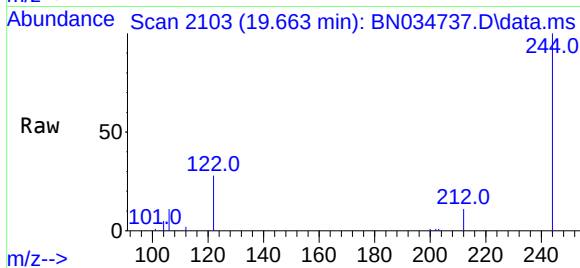




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.663 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

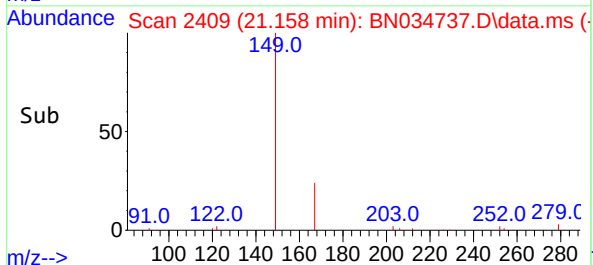
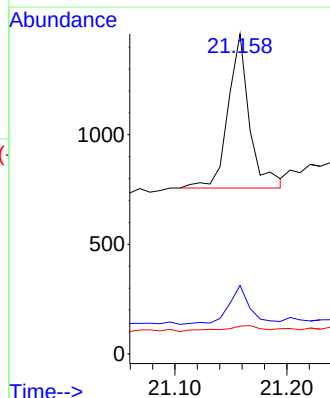
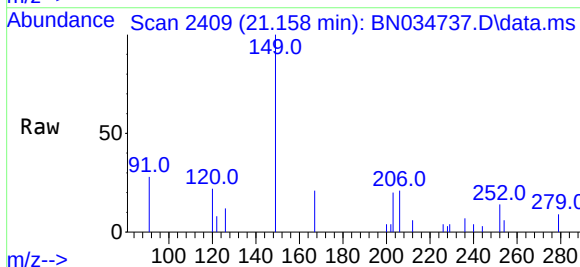
Instrument :
BNA_N
ClientSampleId :
VPB190-HYD-20241023RE

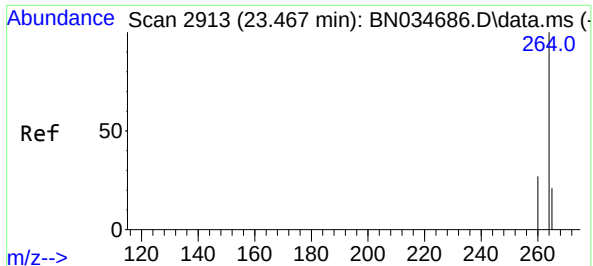
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.6	13.0
122	28.0	22.3	33.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.036 ng
RT: 21.158 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034737.D
Acq: 26 Oct 2024 12:05

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.7	19.7	29.5
279	7.0	1.8	2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.409 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034737.D

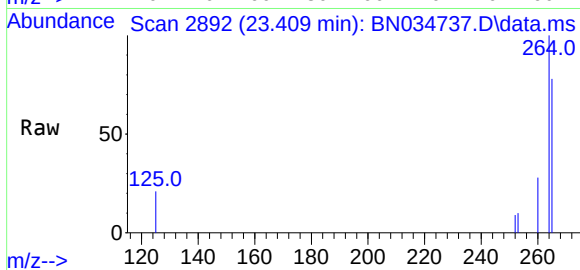
Acq: 26 Oct 2024 12:05

Instrument :

BNA_N

ClientSampleId :

VPB190-HYD-20241023RE



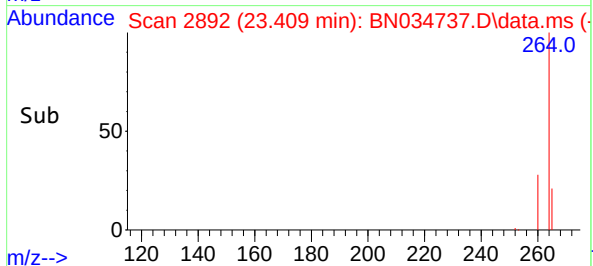
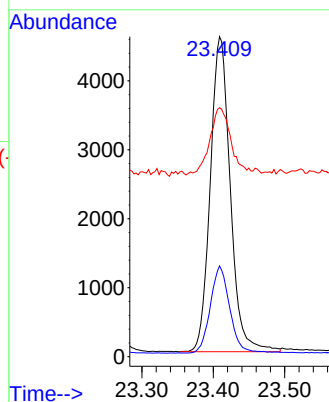
Tgt Ion:264 Resp: 8887

Ion Ratio Lower Upper

264 100

260 28.3 21.9 32.9

265 77.8 60.6 91.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/22/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	BP-VPB-190-GW-318-320	SDG No.:	P4550
Lab Sample ID:	P4550-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	760 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
BN034730.D	1	10/25/24 10:45	10/25/24 19:29	PB164409

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.090	0.26	0.26	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8100	7.655				
1146-65-2	Naphthalene-d8	23100	10.415				
15067-26-2	Acenaphthene-d10	11200	14.283				
1517-22-2	Phenanthrene-d10	21200	17.026				
1719-03-5	Chrysene-d12	11500	21.212				
1520-96-3	Perylene-d12	10500	23.412				

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\BN102524\
Data File : BN034730.D
Acq On : 25 Oct 2024 19:29
Operator : RC/JU
Sample : P4550-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

Quant Time: Oct 25 22:43:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.655	152	8100	0.400	ng	-0.06
7) Naphthalene-d8	10.415	136	23066	0.400	ng	#-0.06
13) Acenaphthene-d10	14.283	164	11169	0.400	ng	-0.05
19) Phenanthrene-d10	17.026	188	21194	0.400	ng	-0.04
29) Chrysene-d12	21.212	240	11462	0.400	ng	-0.04
35) Perylene-d12	23.412	264	10529	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	4991	0.207	ng	-0.06
5) Phenol-d6	6.824	99	4532	0.143	ng	-0.06
8) Nitrobenzene-d5	8.782	82	7908	0.409	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	12154	0.383	ng	-0.06
14) 2,4,6-Tribromophenol	15.773	330	1464	0.424	ng	-0.04
15) 2-Fluorobiphenyl	12.904	172	17993	0.405	ng	-0.05
27) Fluoranthene-d10	19.055	212	19929	0.418	ng	-0.04
31) Terphenyl-d14	19.663	244	13334	0.569	ng	-0.04
Target Compounds						
2) 1,4-Dioxane	3.242	88	3012	0.279	ng	# 64
28) Fluoranthene	19.083	202	1688	0.025	ng	92
30) Pyrene	19.450	202	1782	0.030	ng	97
32) Benzo(a)anthracene	21.194	228	1376	0.031	ng	# 92
33) Chrysene	21.248	228	1421	0.031	ng	92
34) Bis(2-ethylhexyl)phtha...	21.158	149	1735	0.070	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.613	276	1327	0.033	ng	96
37) Benzo(b)fluoranthene	22.757	252	1438	0.034	ng	# 1
38) Benzo(k)fluoranthene	22.801	252	1298	0.031	ng	# 1
39) Benzo(a)pyrene	23.312	252	999	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.637	278	983	0.031	ng	# 29
41) Benzo(g,h,i)perylene	26.286	276	1098	0.031	ng	# 61

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

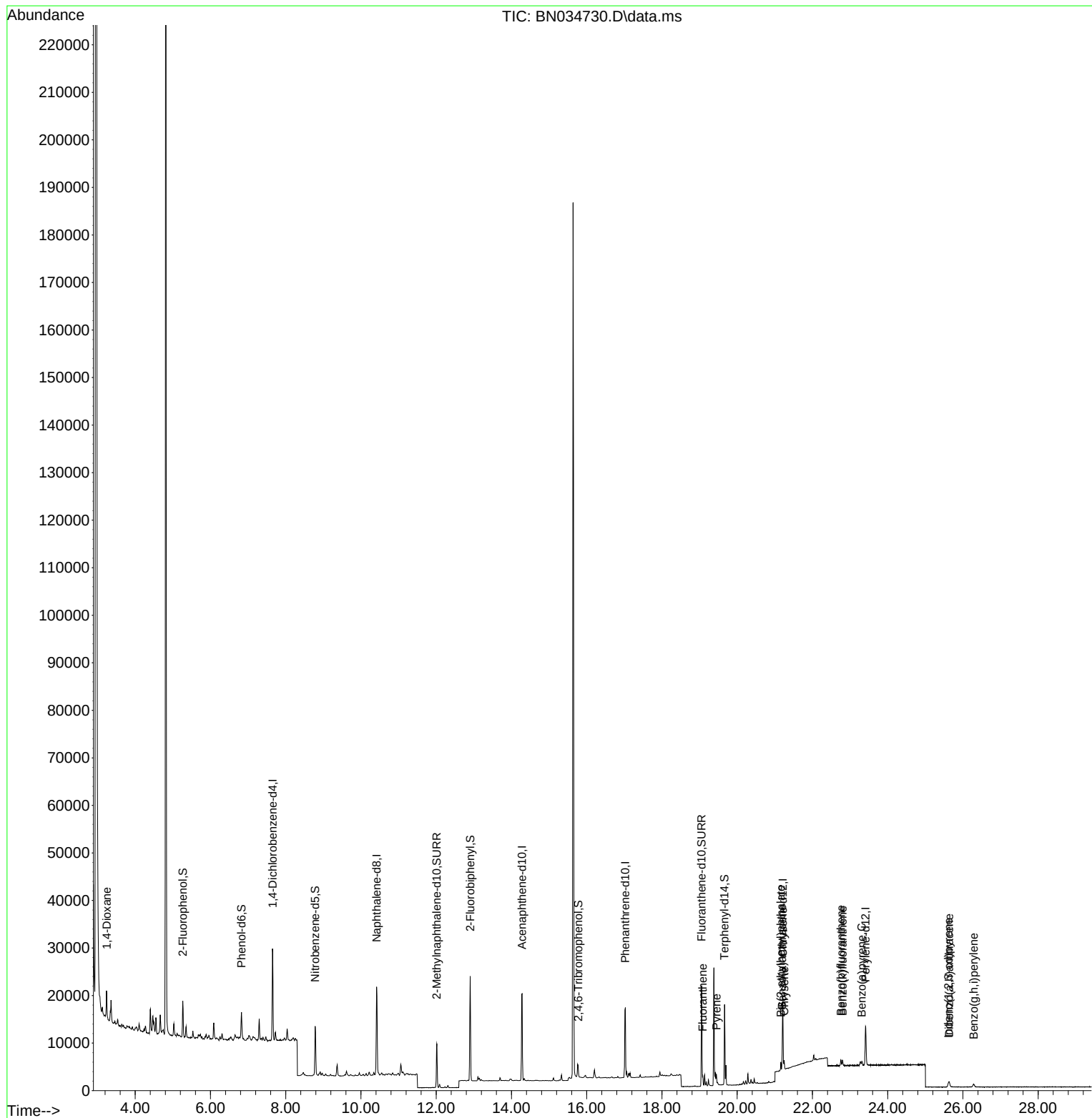
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034730.D
Acq On : 25 Oct 2024 19:29
Operator : RC/JU
Sample : P4550-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

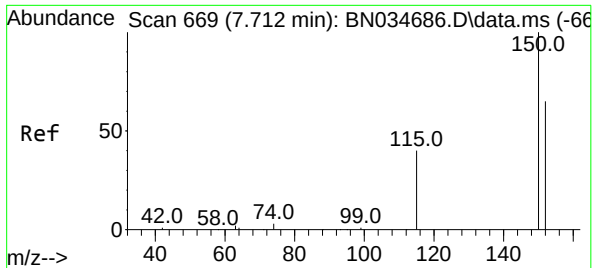
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

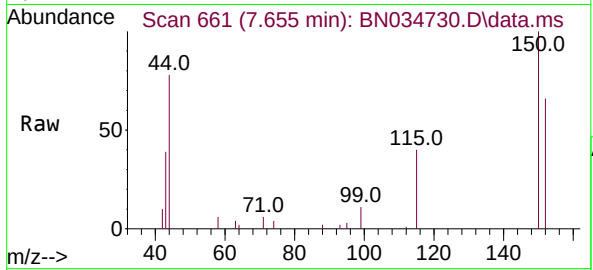
Quant Time: Oct 25 22:43:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.655 min Scan# 60
Delta R.T. -0.057 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

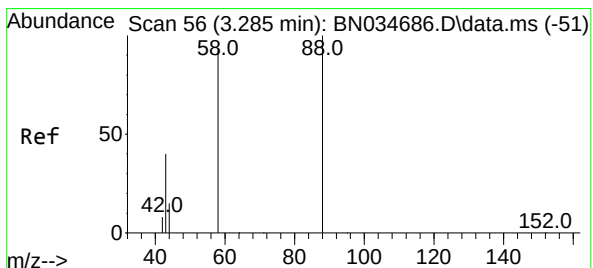
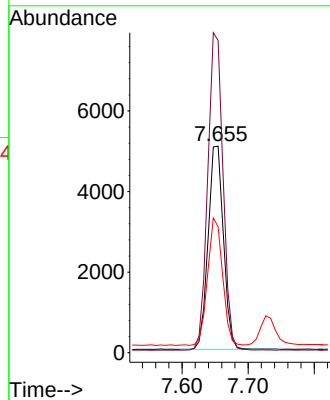
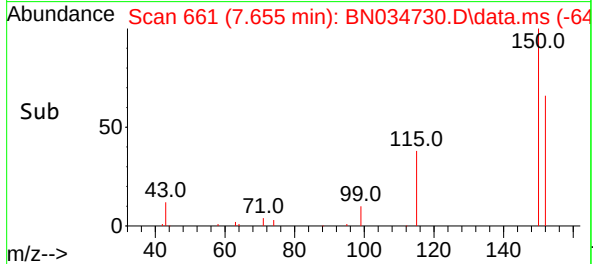
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion: 152 Resp: 8100
Ion Ratio Lower Upper
152 100
150 151.1 122.7 184.1
115 61.0 51.0 76.6

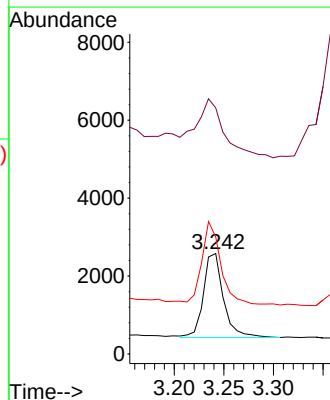
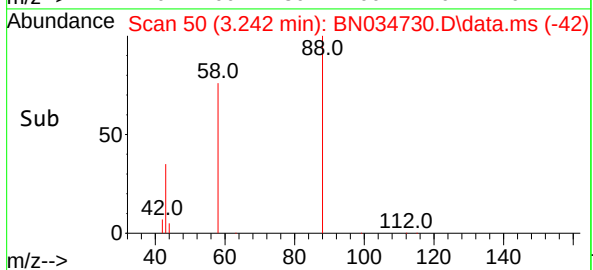
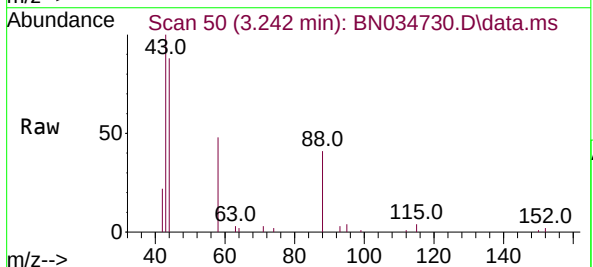
Manual Integrations
APPROVED

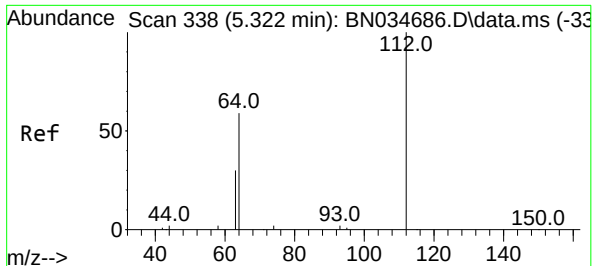
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#2
1,4-Dioxane
Concen: 0.279 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion: 88 Resp: 3012
Ion Ratio Lower Upper
88 100
43 101.8 32.1 48.1#
58 100.3 73.7 110.5





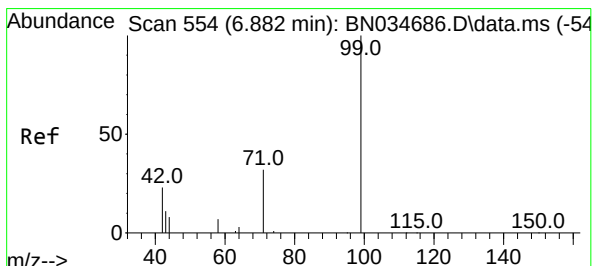
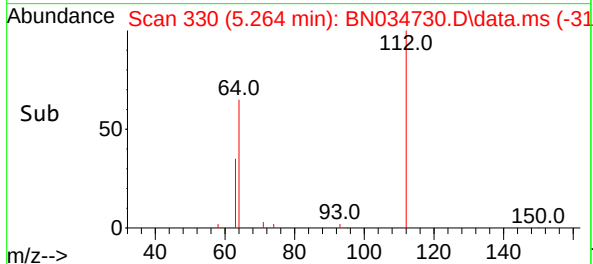
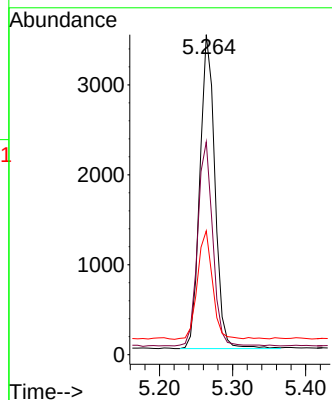
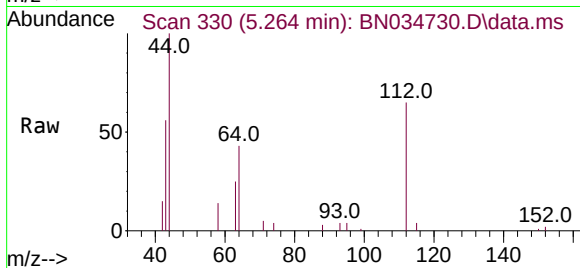
#4
2-Fluorophenol
Concen: 0.207 ng
RT: 5.264 min Scan# 311
Delta R.T. -0.058 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

Tgt Ion: 112 Resp: 499
Ion Ratio Lower Upper
112 100
64 65.1 53.0 79.6
63 34.4 27.6 41.4

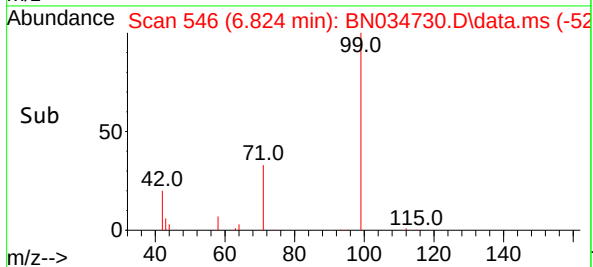
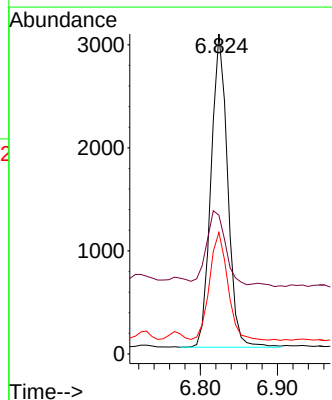
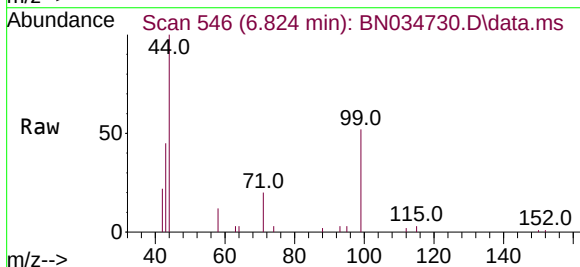
Manual Integrations
APPROVED

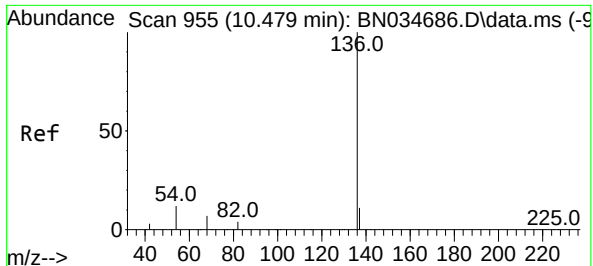
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#5
Phenol-d6
Concen: 0.143 ng
RT: 6.824 min Scan# 546
Delta R.T. -0.058 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

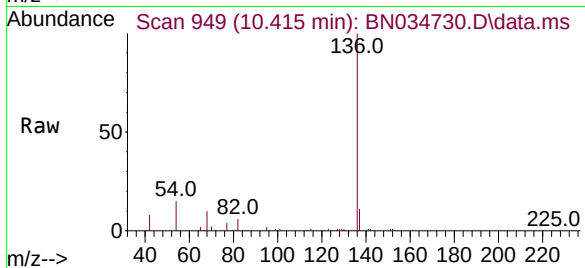
Tgt Ion: 99 Resp: 4532
Ion Ratio Lower Upper
99 100
42 25.9 21.8 32.8
71 37.5 26.6 40.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.064 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

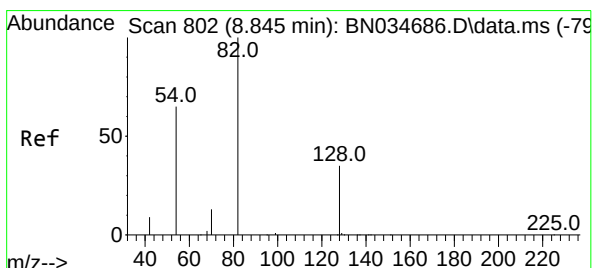
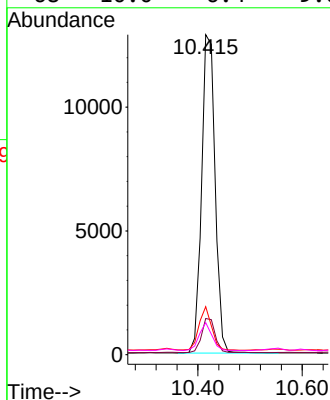
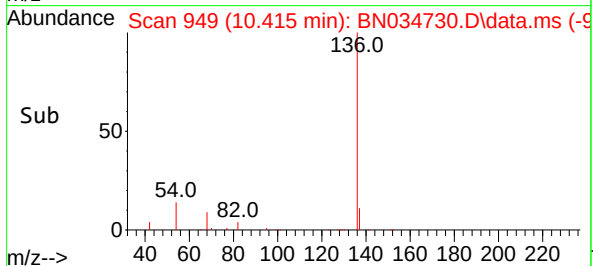
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	15.0	9.8	14.8
68	10.0	6.4	9.6

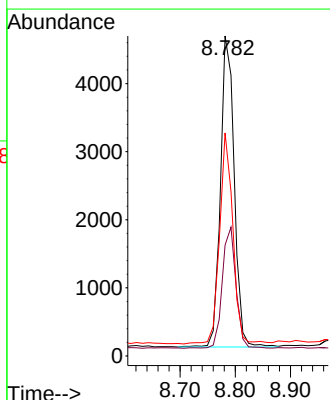
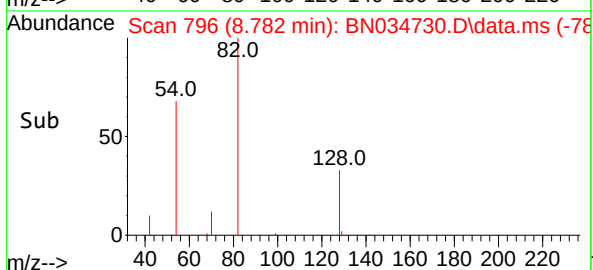
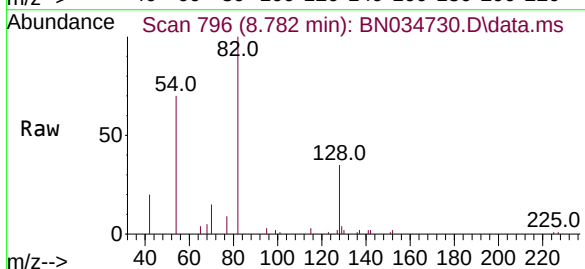
Manual Integrations
APPROVED

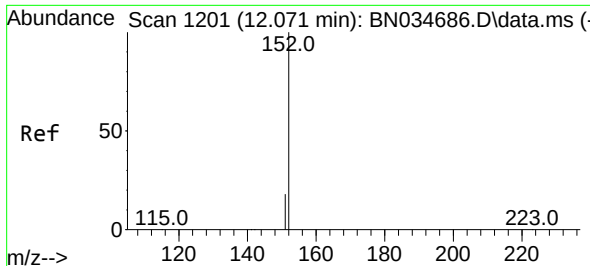
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#8
Nitrobenzene-d5
Concen: 0.409 ng
RT: 8.782 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

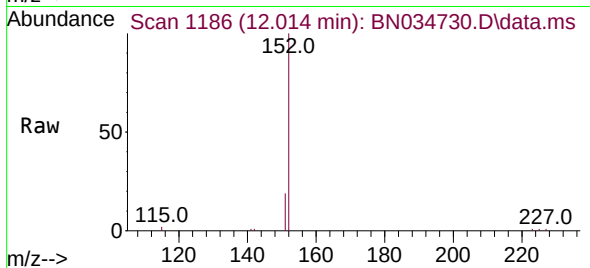
Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.7	44.5
54	69.7	53.0	79.6





#11
2-Methylnaphthalene-d10
Concen: 0.383 ng
RT: 12.014 min Scan# 111
Delta R.T. -0.057 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

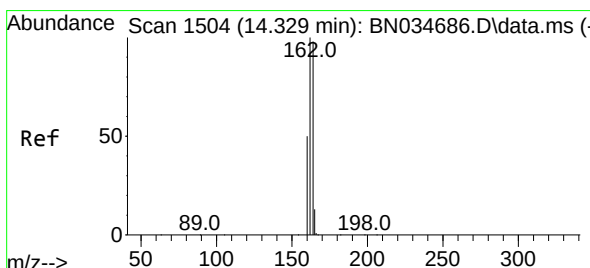
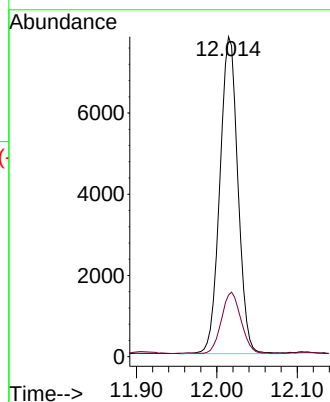
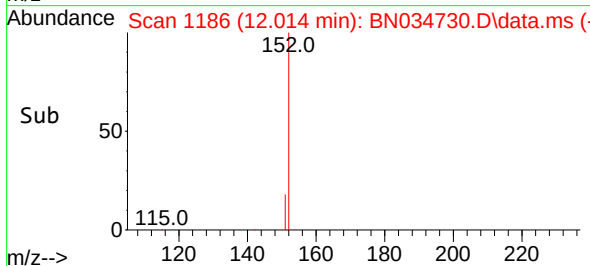
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



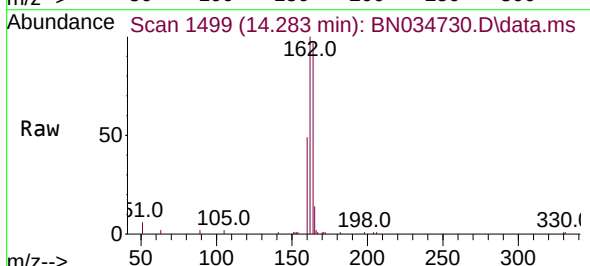
Tgt Ion:152 Resp: 12154
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1

Manual Integrations
APPROVED

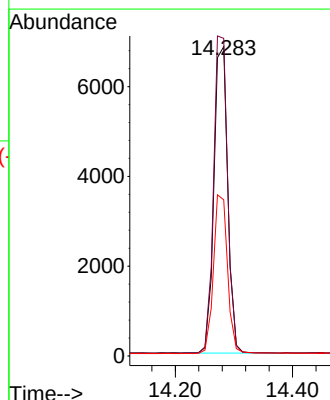
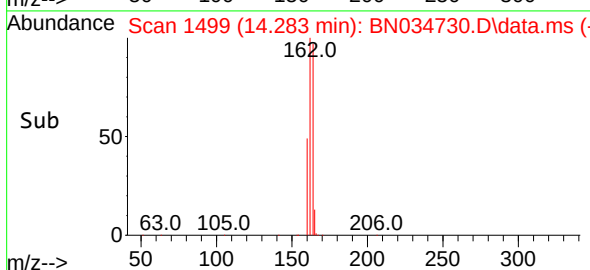
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

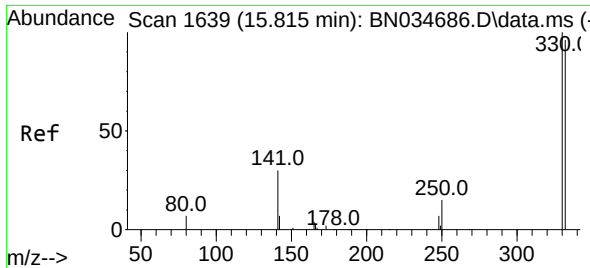


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 1499
Delta R.T. -0.046 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29



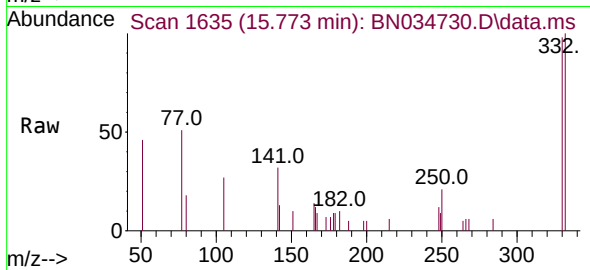
Tgt Ion:164 Resp: 11169
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 50.5 40.6 61.0





#14
2,4,6-Tribromophenol
Concen: 0.424 ng
RT: 15.773 min Scan# 1635
Delta R.T. -0.043 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

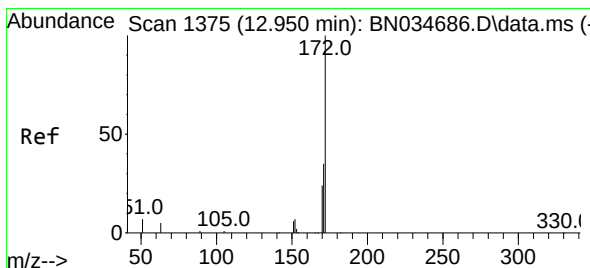
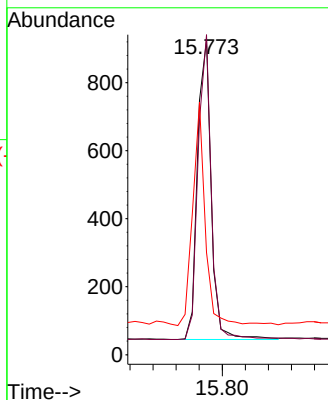
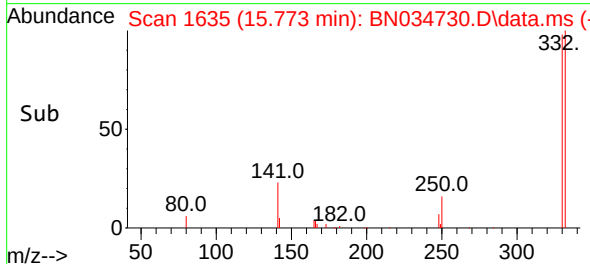
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion: 330 Resp: 1464
Ion Ratio Lower Upper
330 100
332 97.4 76.6 115.0
141 67.3 54.6 81.8

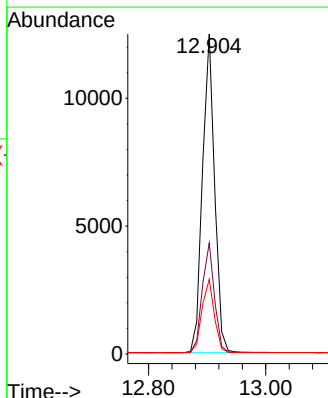
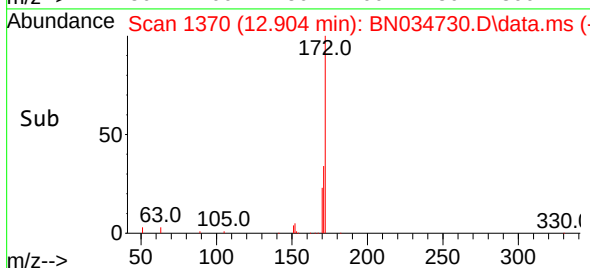
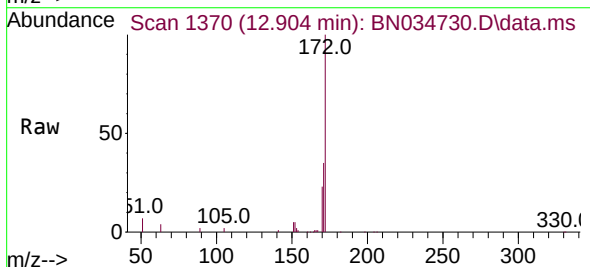
Manual Integrations
APPROVED

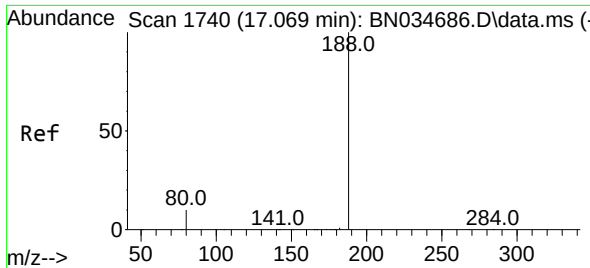
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.904 min Scan# 1370
Delta R.T. -0.046 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

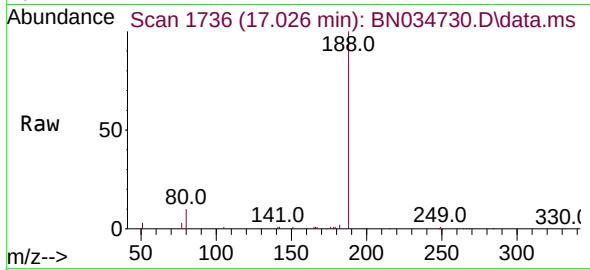
Tgt Ion: 172 Resp: 17993
Ion Ratio Lower Upper
172 100
171 34.7 28.3 42.5
170 23.3 19.8 29.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 11
Delta R.T. -0.043 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

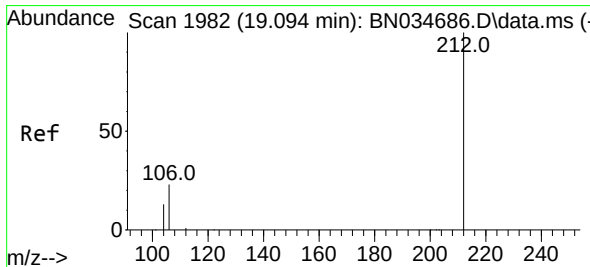
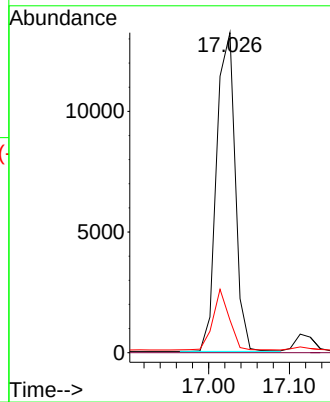
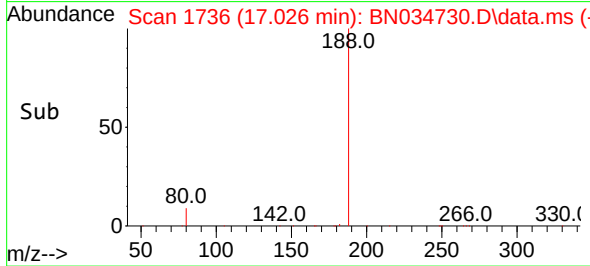
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion:188 Resp: 21194
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.2 8.9 13.3

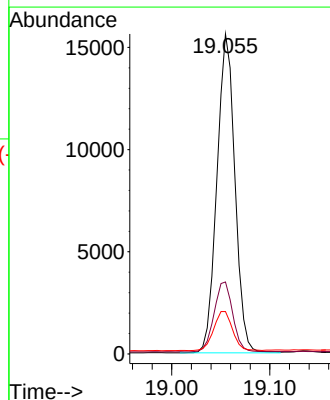
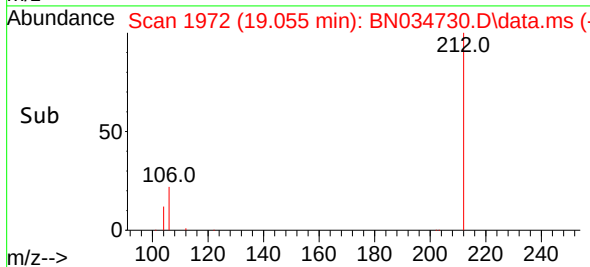
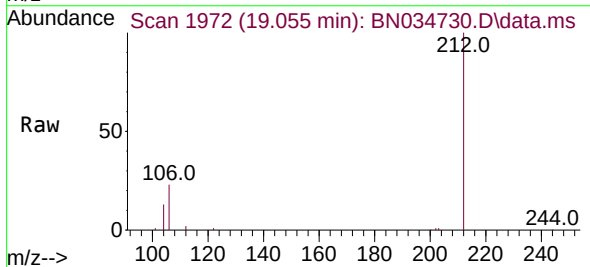
Manual Integrations
APPROVED

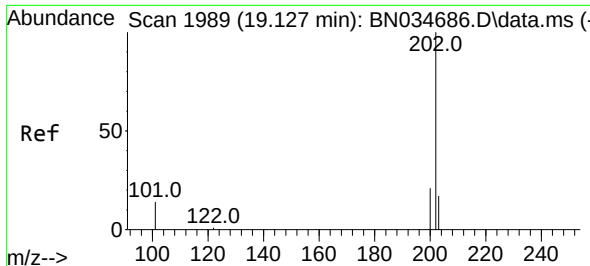
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.055 min Scan# 1972
Delta R.T. -0.039 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:212 Resp: 19929
Ion Ratio Lower Upper
212 100
106 22.7 17.8 26.8
104 12.9 10.2 15.4





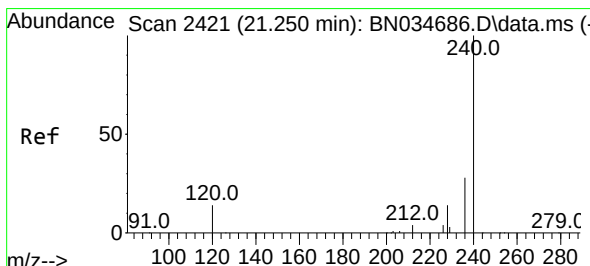
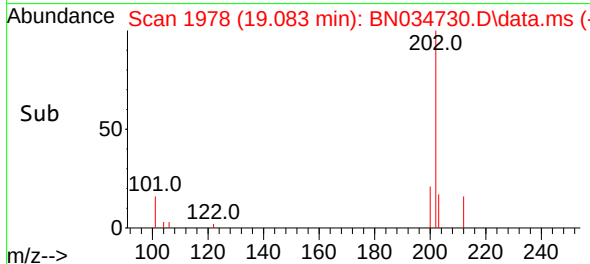
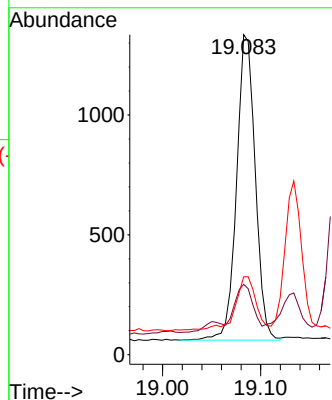
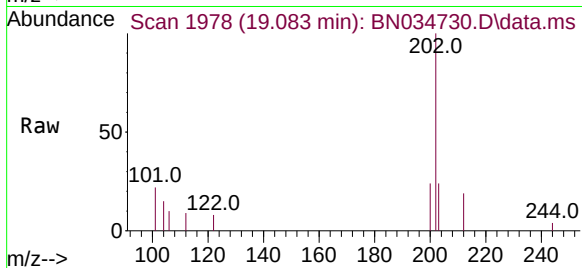
#28
Fluoranthene
Concen: 0.025 ng
RT: 19.083 min Scan# 1989
Delta R.T. -0.044 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

Tgt Ion:202 Resp: 1688
Ion Ratio Lower Upper
202 100
101 12.9 12.8 19.2
203 20.2 13.5 20.3

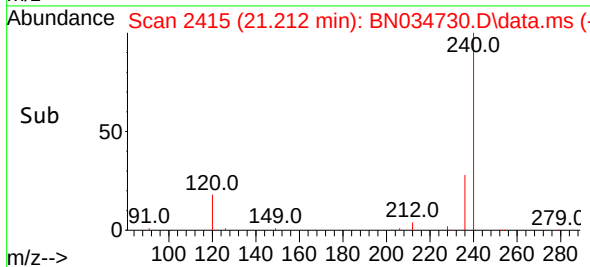
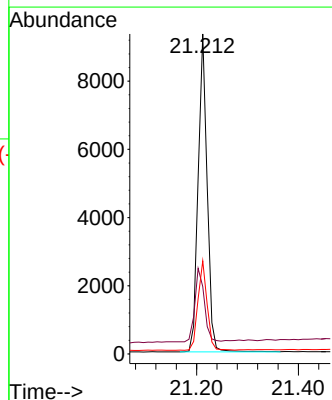
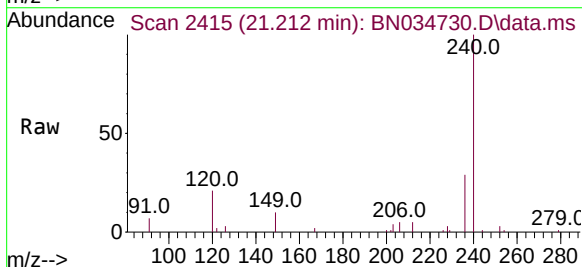
Manual Integrations
APPROVED

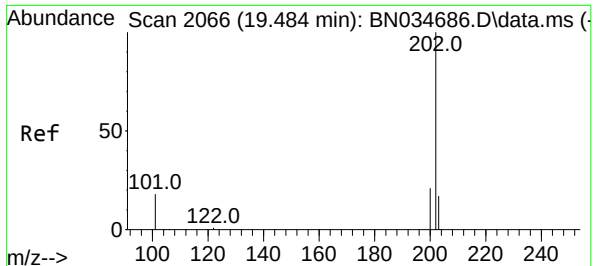
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. -0.038 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:240 Resp: 11462
Ion Ratio Lower Upper
240 100
120 21.1 14.2 21.2
236 29.1 23.1 34.7





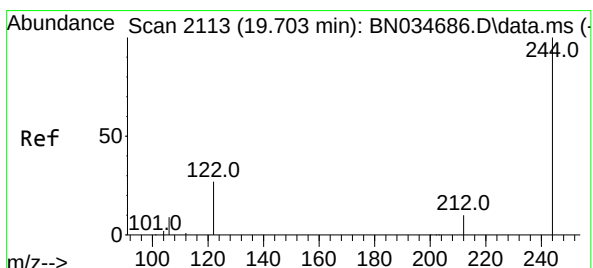
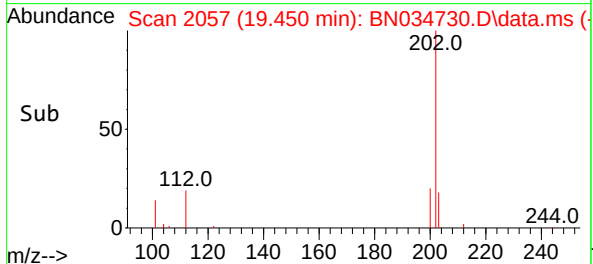
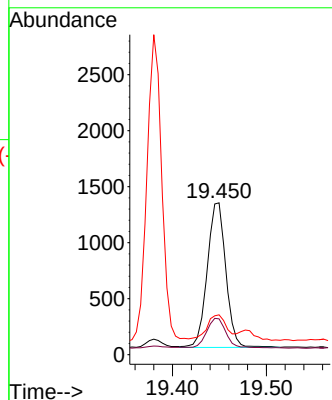
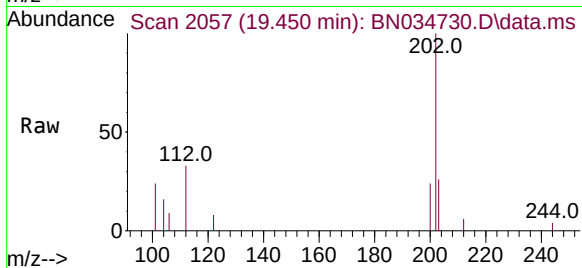
#30
Pyrene
Concen: 0.030 ng
RT: 19.450 min Scan# 2066
Delta R.T. -0.035 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

Tgt Ion:202 Resp: 178
Ion Ratio Lower Upper
202 100
200 21.8 16.6 25.0
203 19.2 14.2 21.4

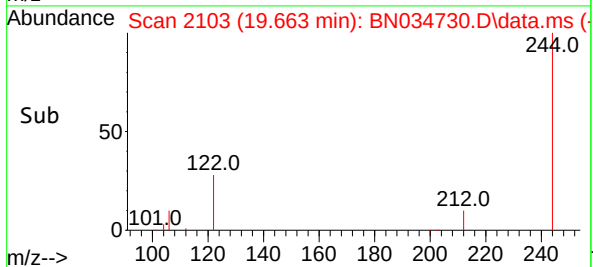
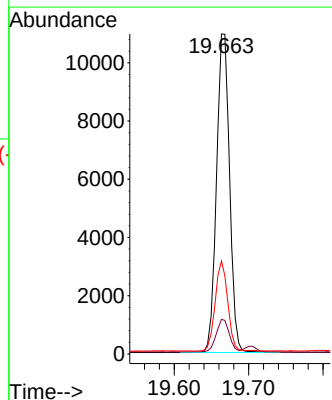
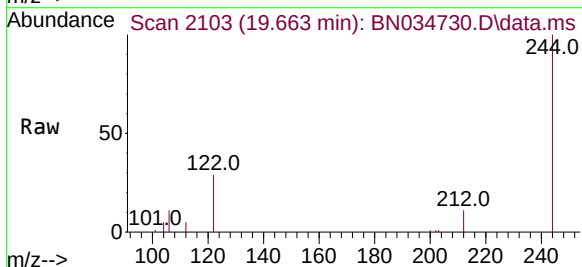
Manual Integrations
APPROVED

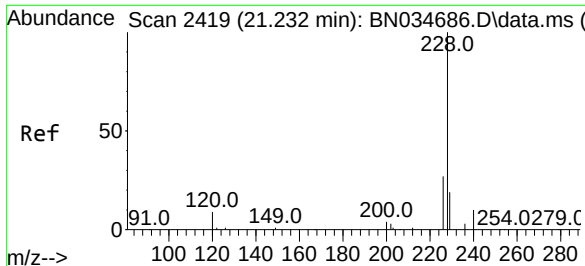
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#31
Terphenyl-d14
Concen: 0.569 ng
RT: 19.663 min Scan# 2103
Delta R.T. -0.039 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:244 Resp: 13334
Ion Ratio Lower Upper
244 100
212 10.8 8.6 13.0
122 29.1 22.3 33.5





#32

Benzo(a)anthracene

Concen: 0.031 ng

RT: 21.194 min Scan# 2419

Delta R.T. -0.038 min

Lab File: BN034730.D

Acq: 25 Oct 2024 19:29

Instrument :

BNA_N

ClientSampleId :

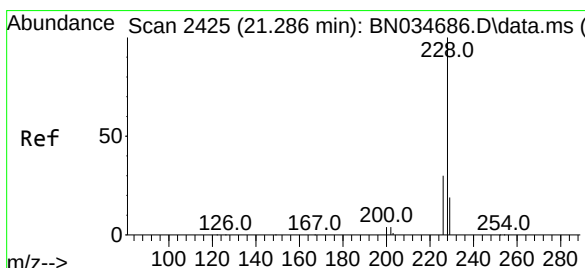
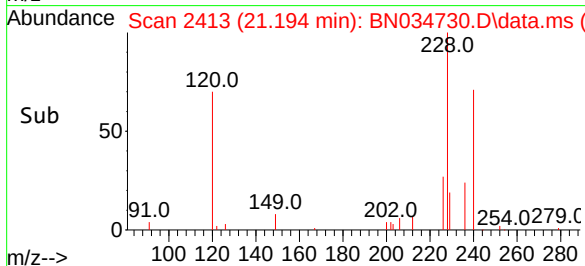
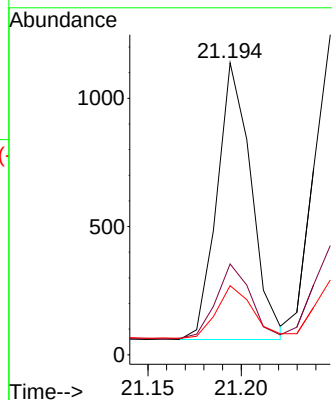
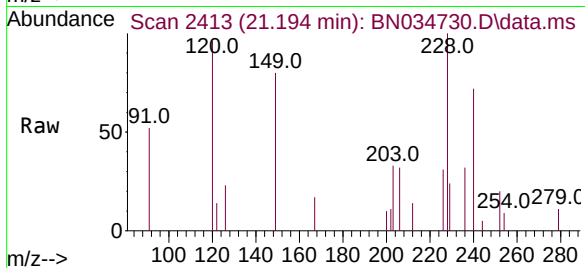
BP-VPB-190-GW-318-320

Tgt Ion:228	Resp:	1370
Ion Ratio	Lower	Upper
228	100	
226	31.1	22.0 33.0
229	23.6	15.6 23.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



#33

Chrysene

Concen: 0.031 ng

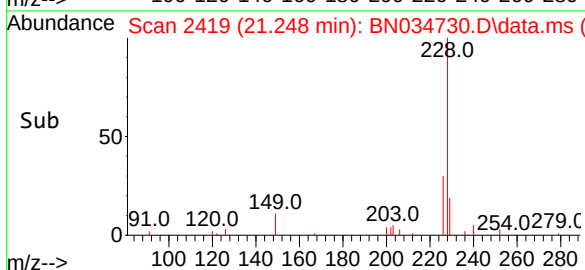
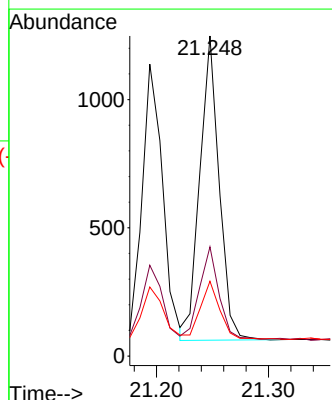
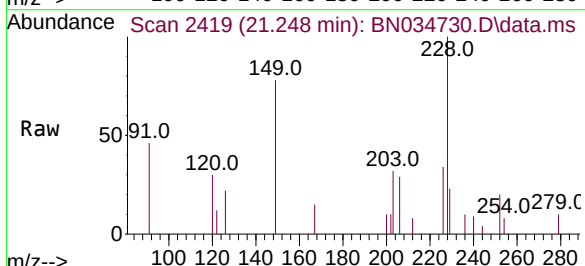
RT: 21.248 min Scan# 2419

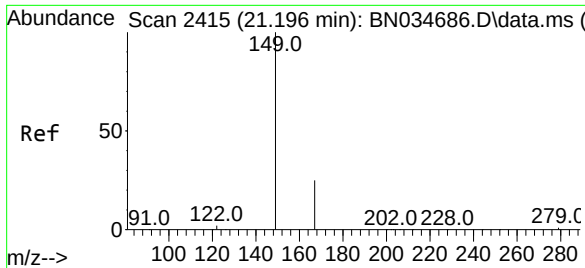
Delta R.T. -0.038 min

Lab File: BN034730.D

Acq: 25 Oct 2024 19:29

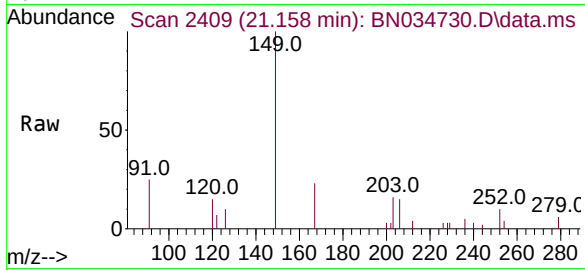
Tgt Ion:228	Resp:	1421
Ion Ratio	Lower	Upper
228	100	
226	34.1	24.1 36.1
229	23.4	15.8 23.8





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.038 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

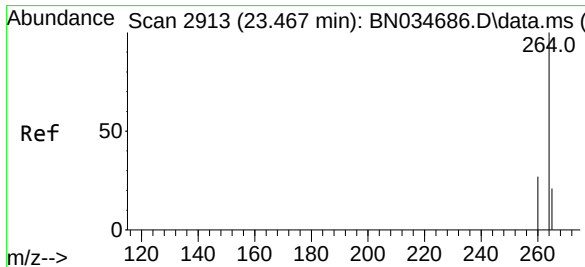
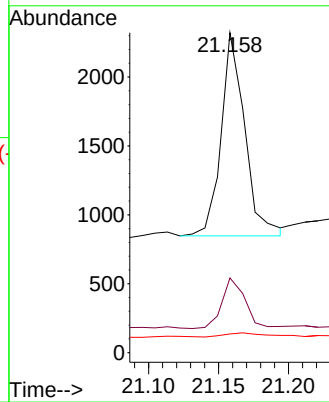
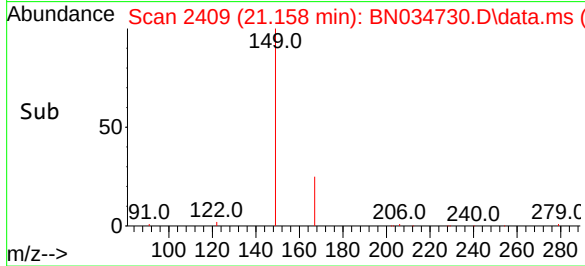
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion:149 Resp: 1735
Ion Ratio Lower Upper
149 100
167 24.6 19.7 29.5
279 3.6 1.8 2.6

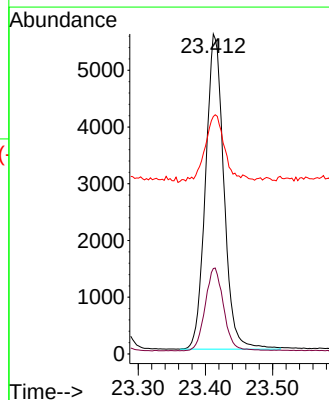
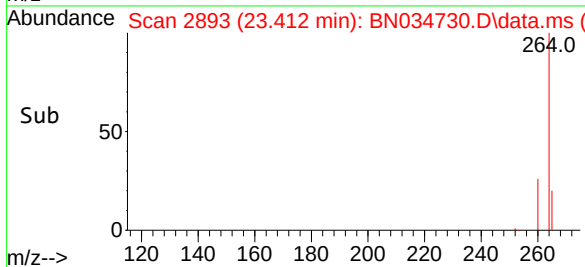
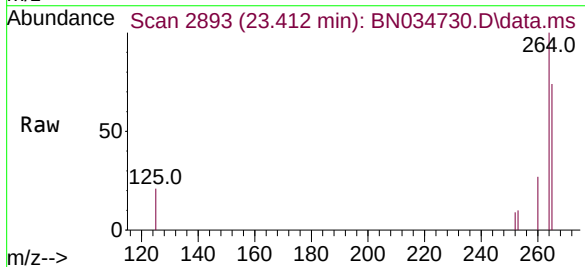
Manual Integrations
APPROVED

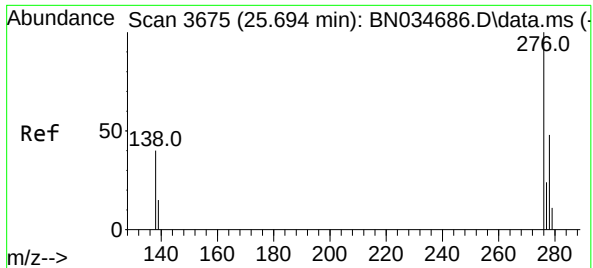
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 2893
Delta R.T. -0.055 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

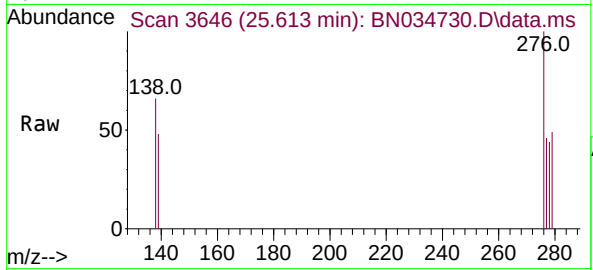
Tgt Ion:264 Resp: 10529
Ion Ratio Lower Upper
264 100
260 26.7 21.9 32.9
265 74.2 60.6 91.0





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.033 ng
RT: 25.613 min Scan# 30
Delta R.T. -0.081 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

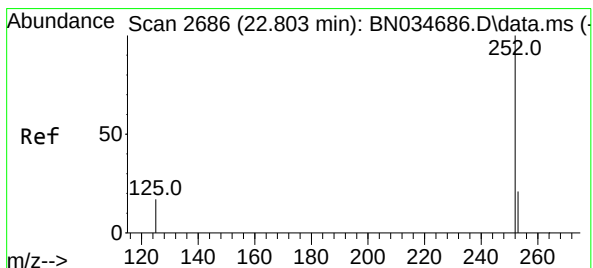
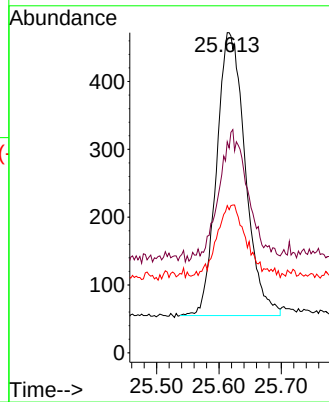
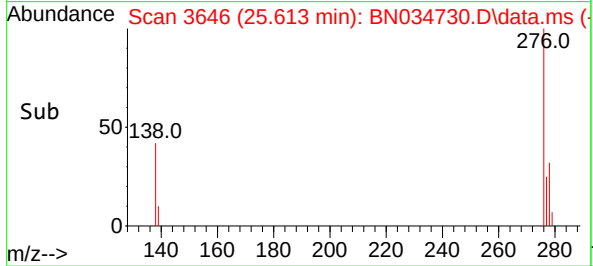
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion:276 Resp: 132
Ion Ratio Lower Upper
276 100
138 40.0 35.1 52.7
277 24.5 19.7 29.5

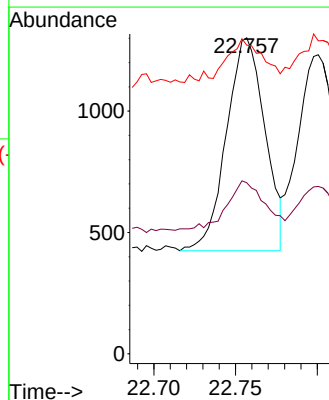
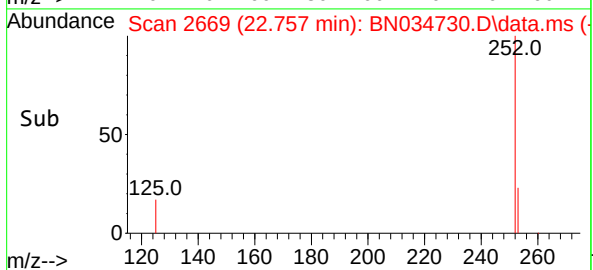
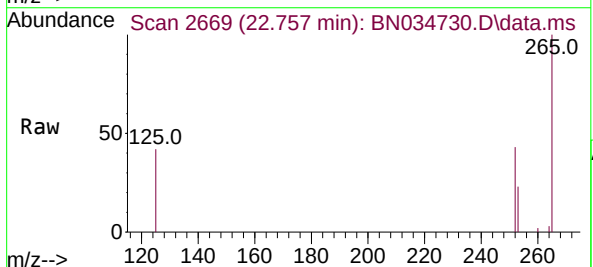
Manual Integrations
APPROVED

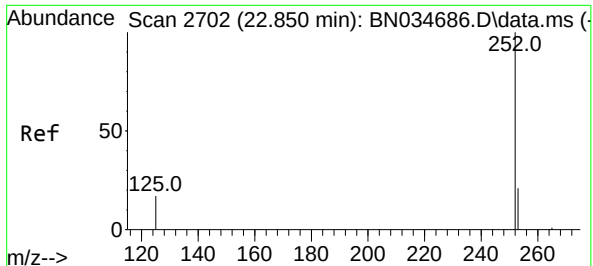
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#37
Benzo(b)fluoranthene
Concen: 0.034 ng
RT: 22.757 min Scan# 2669
Delta R.T. -0.046 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:252 Resp: 1438
Ion Ratio Lower Upper
252 100
253 54.1 20.0 30.0#
125 97.7 20.9 31.3#





#38

Benzo(k)fluoranthene

Concen: 0.031 ng

RT: 22.801 min Scan# 2684

Delta R.T. -0.049 min

Lab File: BN034730.D

Acq: 25 Oct 2024 19:29

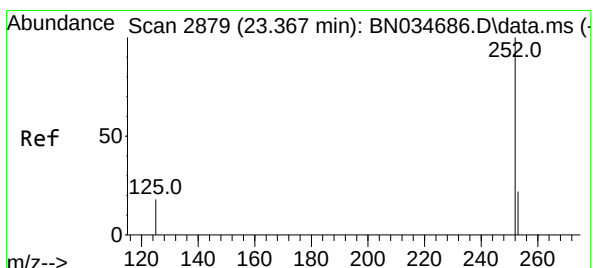
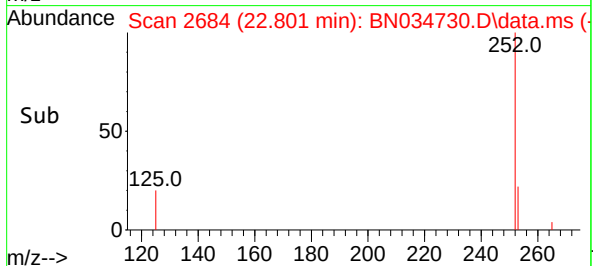
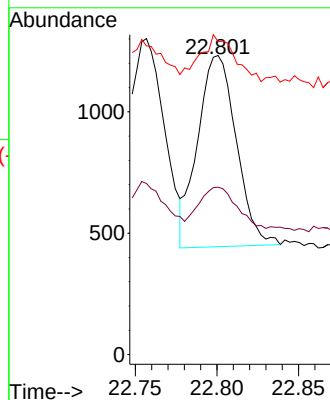
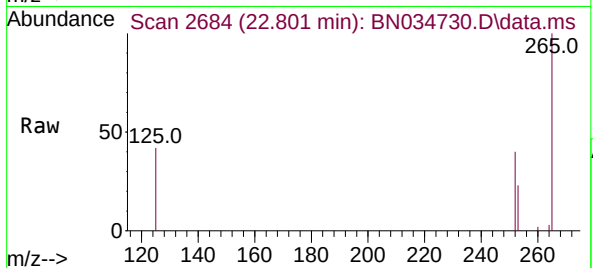
Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-318-320

Tgt Ion:	252	Resp:	1298
Ion Ratio	Lower	Upper	
252	100		
253	56.0	20.6	31.0#
125	104.7	21.6	32.4#

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

#39

Benzo(a)pyrene

Concen: 0.030 ng

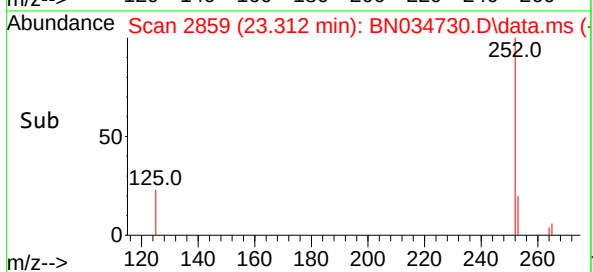
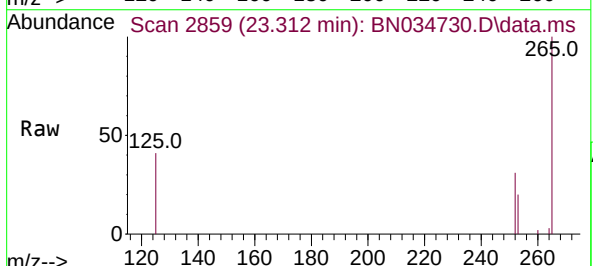
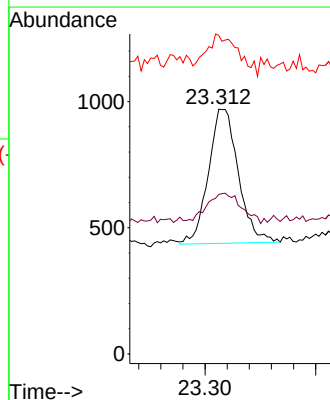
RT: 23.312 min Scan# 2859

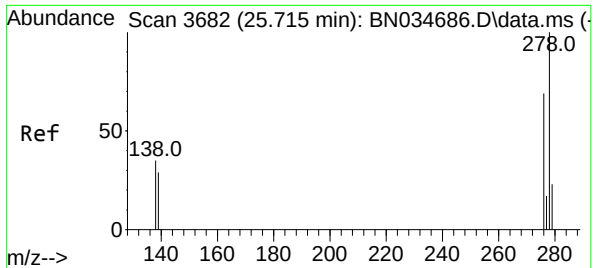
Delta R.T. -0.055 min

Lab File: BN034730.D

Acq: 25 Oct 2024 19:29

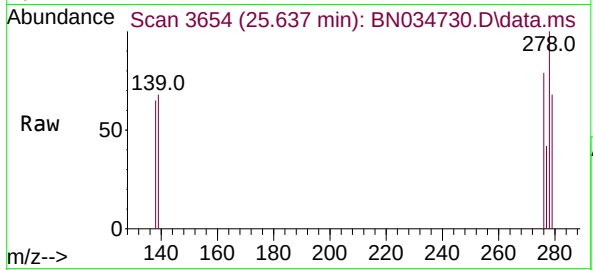
Tgt Ion:	252	Resp:	999
Ion Ratio	Lower	Upper	
252	100		
253	65.2	22.2	33.4#
125	130.1	26.0	39.0#





#40
Dibenzo(a,h)anthracene
Concen: 0.031 ng
RT: 25.637 min Scan# 30
Delta R.T. -0.078 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

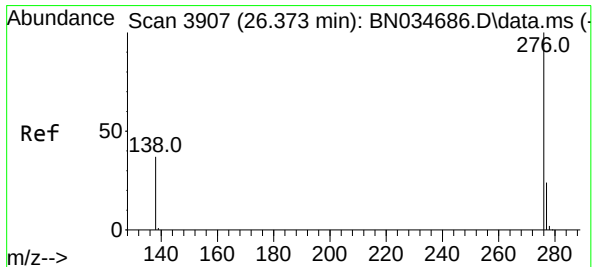
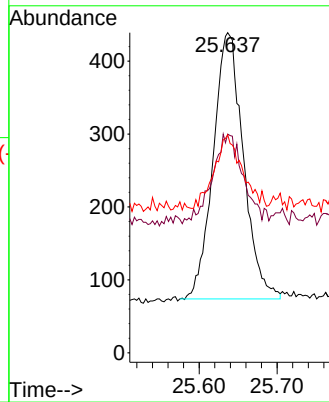
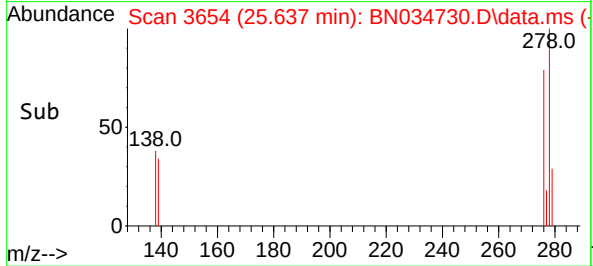
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion:278 Resp: 98
Ion Ratio Lower Upper
278 100
139 68.3 25.4 38.2
279 68.1 22.4 33.6

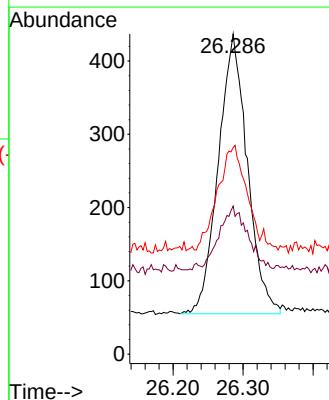
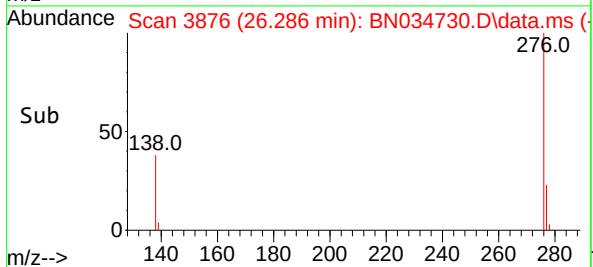
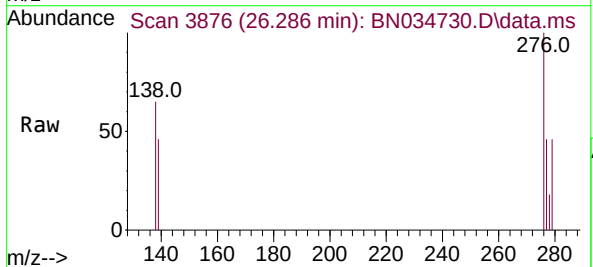
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#41
Benzo(g,h,i)perylene
Concen: 0.031 ng
RT: 26.286 min Scan# 3876
Delta R.T. -0.087 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:276 Resp: 1098
Ion Ratio Lower Upper
276 100
277 46.2 21.3 31.9#
138 64.5 31.9 47.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/23/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	BP-VPB-190-GW-358-360	SDG No.:	P4550
Lab Sample ID:	P4550-09	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	710 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
BN034731.D	1	10/25/24 10:45	10/25/24 20:05	PB164409

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.62		0.10	0.28	0.28	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	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	8000	7.647				
1146-65-2	Naphthalene-d8	22800	10.426				
15067-26-2	Acenaphthene-d10	10400	14.276				
1517-22-2	Phenanthrene-d10	19200	17.019				
1719-03-5	Chrysene-d12	12800	21.214				
1520-96-3	Perylene-d12	12800	23.411				

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\BN102524\
Data File : BN034731.D
Acq On : 25 Oct 2024 20:05
Operator : RC/JU
Sample : P4550-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

Quant Time: Oct 25 22:43:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

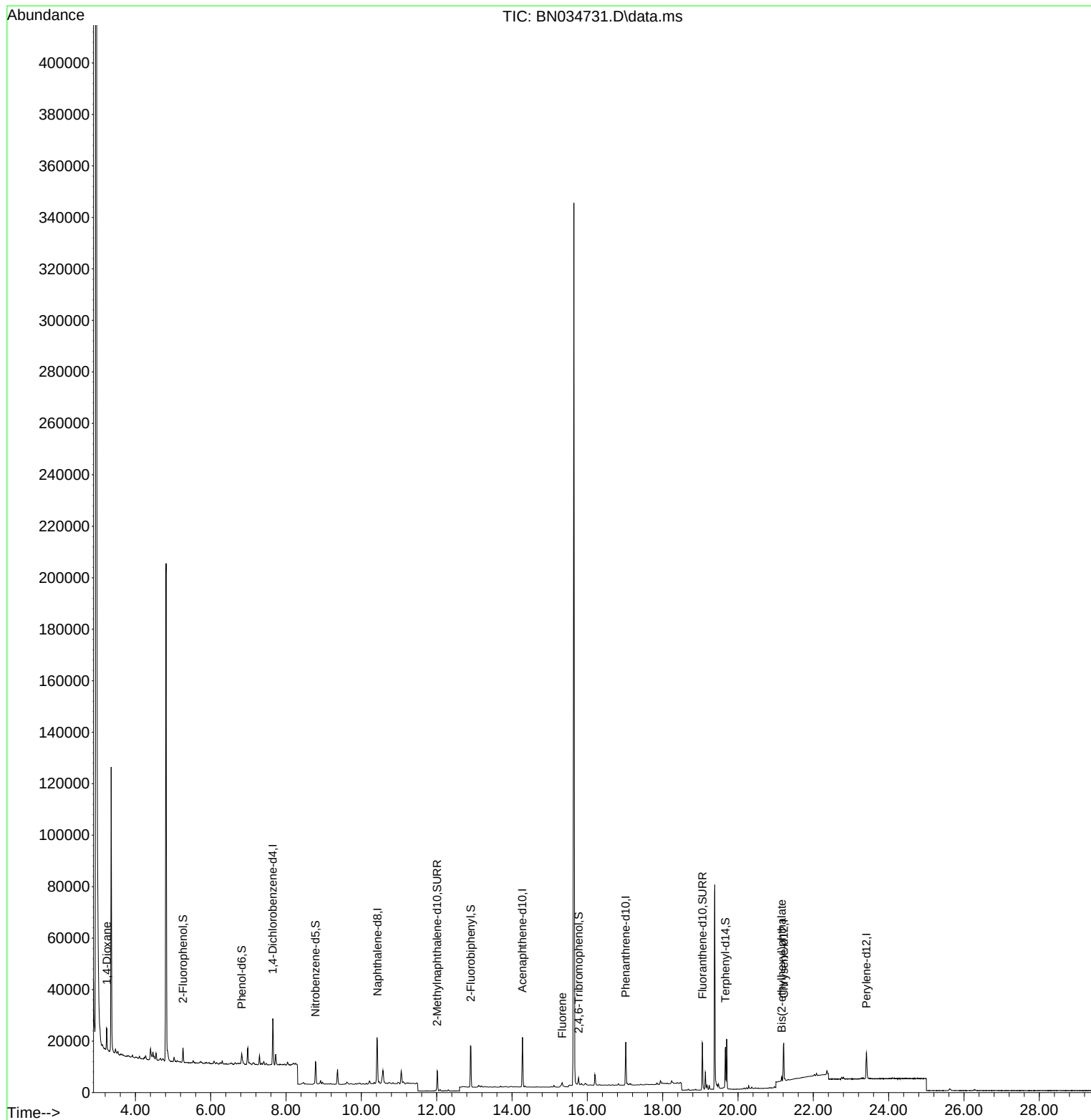
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	8001	0.400	ng	-0.06
7) Naphthalene-d8	10.426	136	22771	0.400	ng	#-0.05
13) Acenaphthene-d10	14.276	164	10442	0.400	ng	-0.05
19) Phenanthrene-d10	17.019	188	19183	0.400	ng	#-0.05
29) Chrysene-d12	21.214	240	12779	0.400	ng	-0.04
35) Perylene-d12	23.411	264	12768	0.400	ng	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	3732	0.157	ng	-0.06
5) Phenol-d6	6.824	99	3230	0.103	ng	-0.06
8) Nitrobenzene-d5	8.781	82	6858	0.359	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	10357	0.331	ng	-0.06
14) 2,4,6-Tribromophenol	15.766	330	1233	0.382	ng	-0.05
15) 2-Fluorobiphenyl	12.907	172	14752	0.356	ng	-0.04
27) Fluoranthene-d10	19.057	212	17904	0.414	ng	-0.04
31) Terphenyl-d14	19.666	244	12187	0.467	ng	-0.04
Target Compounds						
2) 1,4-Dioxane	3.242	88	4691	0.440	ng	# 86
18) Fluorene	15.334	166	3198	0.075	ng	# 23
34) Bis(2-ethylhexyl)phtha...	21.160	149	1440	0.052	ng	96

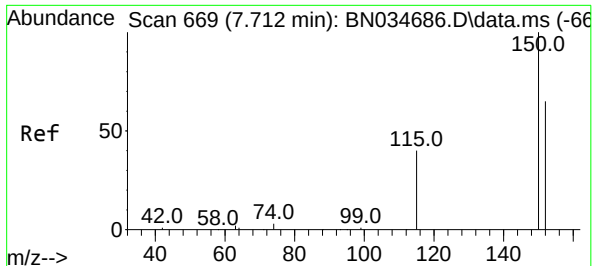
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034731.D
Acq On : 25 Oct 2024 20:05
Operator : RC/JU
Sample : P4550-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

Quant Time: Oct 25 22:43:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

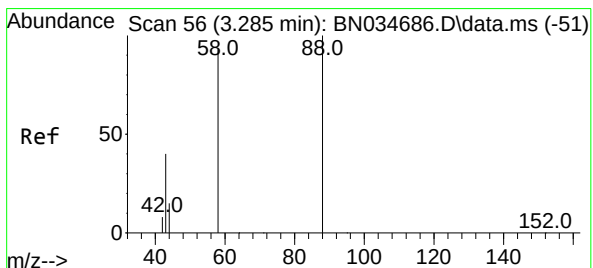
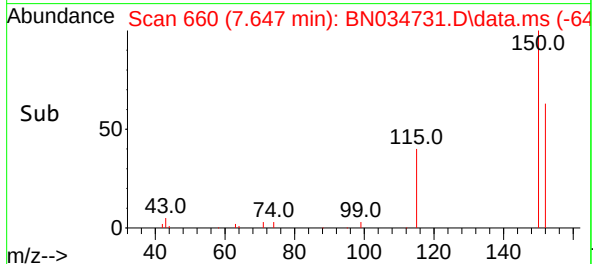
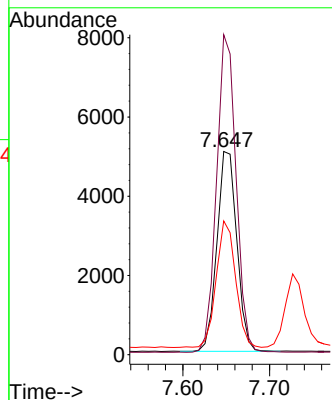
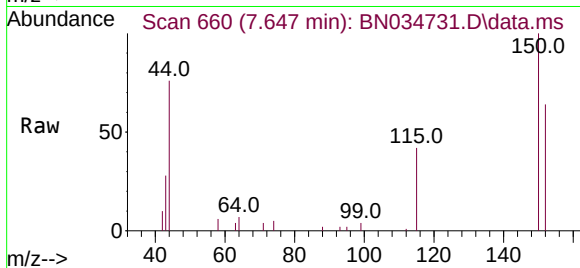




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.647 min Scan# 60
Delta R.T. -0.065 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

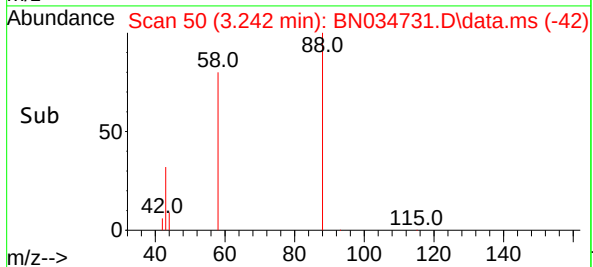
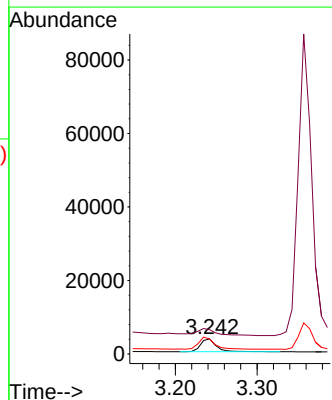
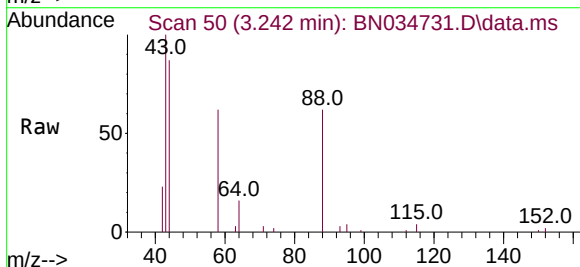
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

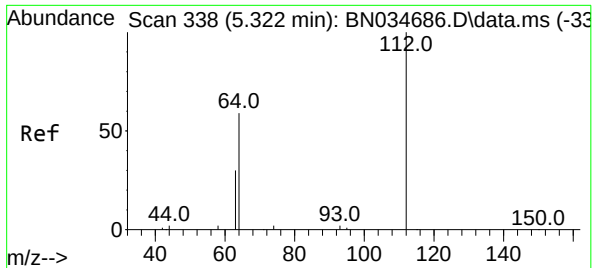
Tgt Ion:152 Resp: 8001
Ion Ratio Lower Upper
152 100
150 157.4 122.7 184.1
115 65.8 51.0 76.6



#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

Tgt Ion: 88 Resp: 4691
Ion Ratio Lower Upper
88 100
43 68.7 32.1 48.1#
58 92.6 73.7 110.5

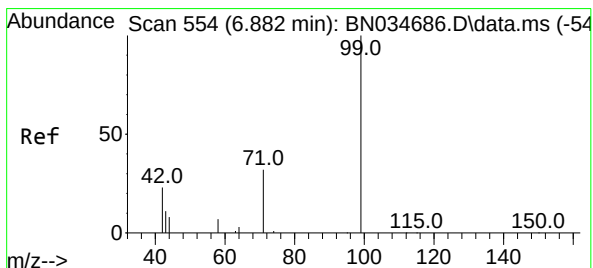
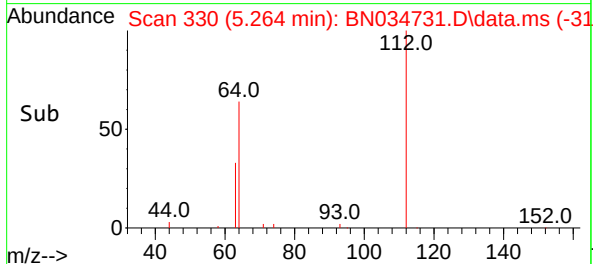
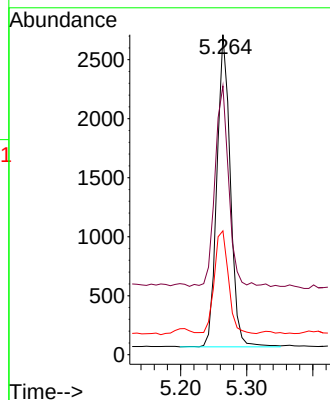
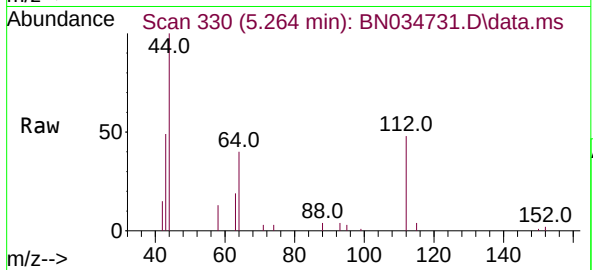




#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.264 min Scan# 31
Delta R.T. -0.058 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

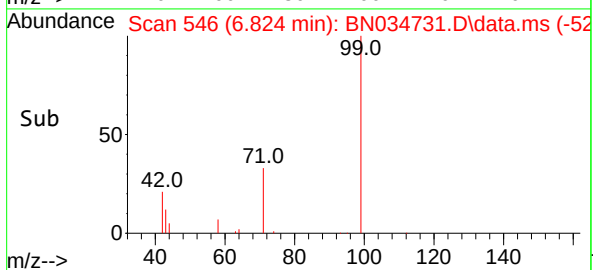
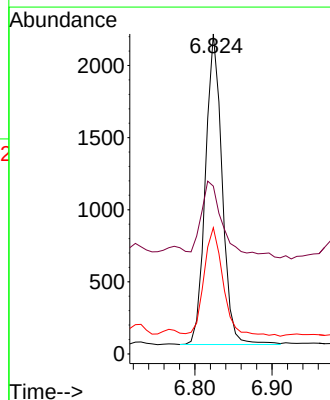
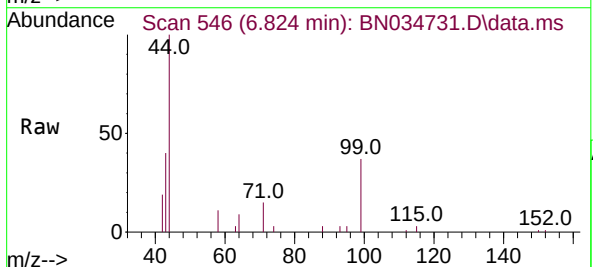
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

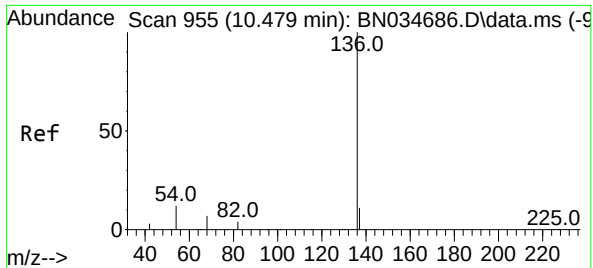
Tgt Ion:112 Resp: 3732
Ion Ratio Lower Upper
112 100
64 65.5 53.0 79.6
63 35.6 27.6 41.4



#5
Phenol-d6
Concen: 0.103 ng
RT: 6.824 min Scan# 546
Delta R.T. -0.058 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

Tgt Ion: 99 Resp: 3230
Ion Ratio Lower Upper
99 100
42 32.1 21.8 32.8
71 40.4 26.6 40.0#

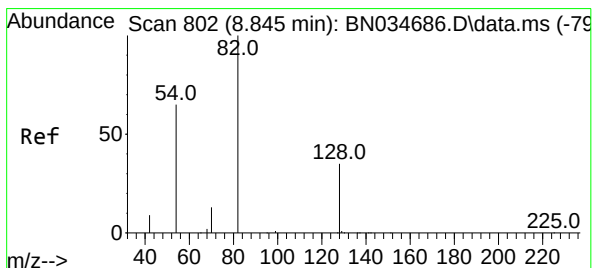
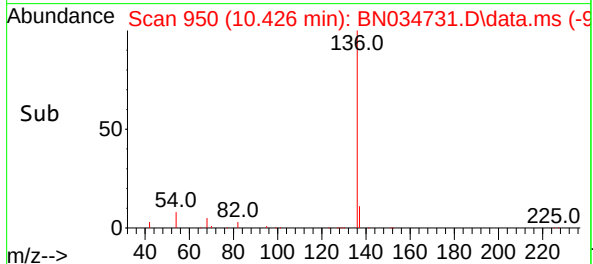
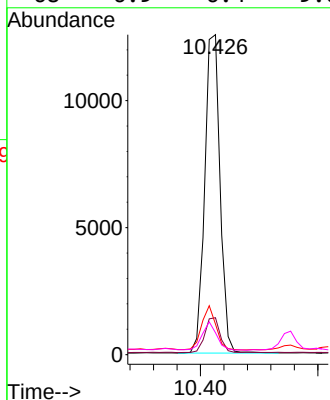
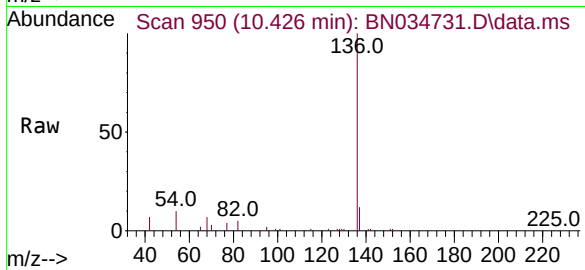




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.053 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

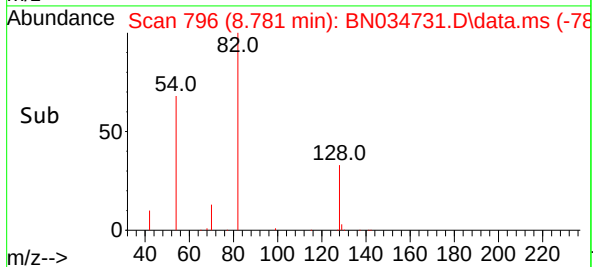
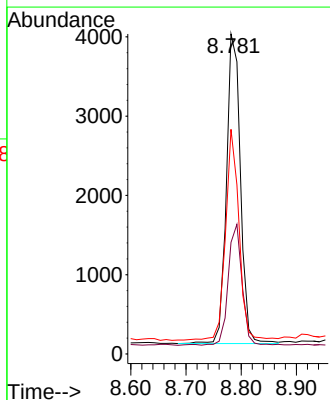
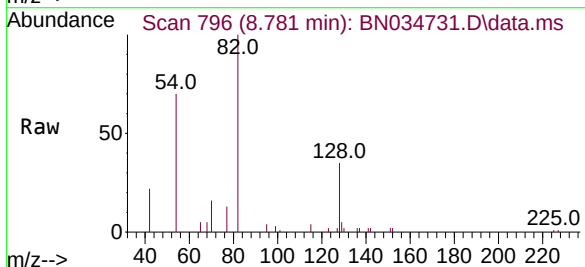
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

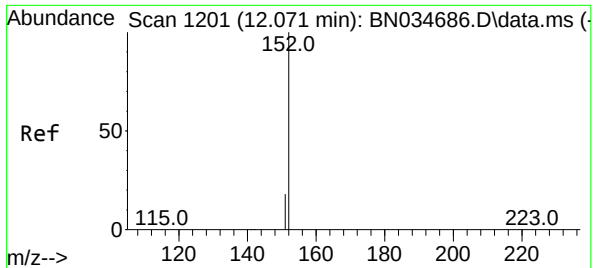
Tgt Ion:	136	Resp:	22771
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.6	9.8	14.8#
68	6.9	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

Tgt Ion:	82	Resp:	6858
Ion	Ratio	Lower	Upper
82	100		
128	34.9	29.7	44.5
54	70.2	53.0	79.6

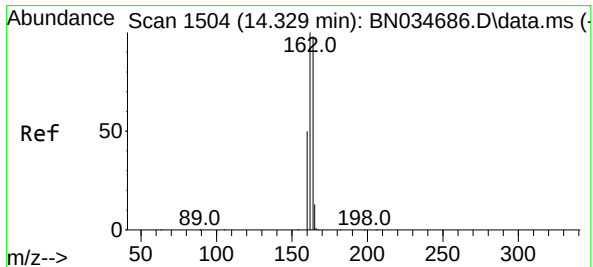
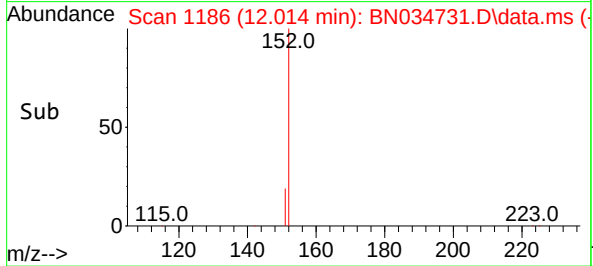
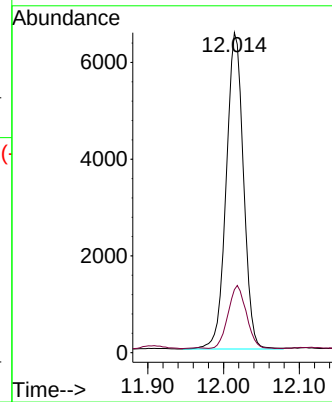
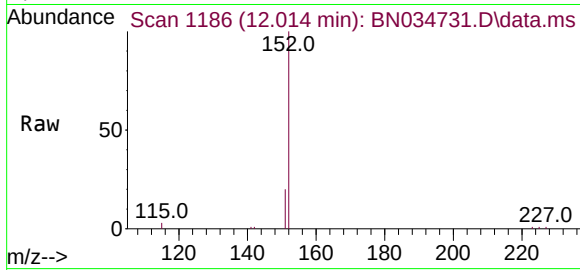




#11
2-Methylnaphthalene-d10
Concen: 0.331 ng
RT: 12.014 min Scan# 11
Delta R.T. -0.057 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

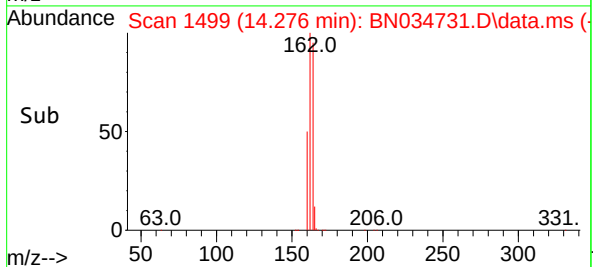
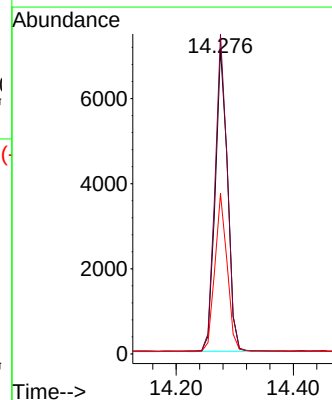
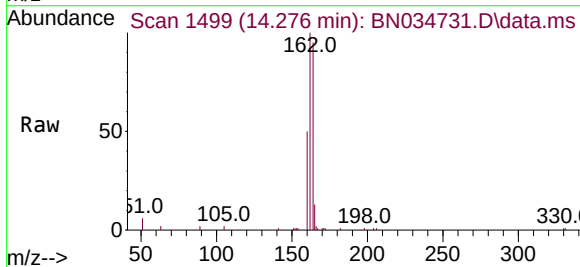
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

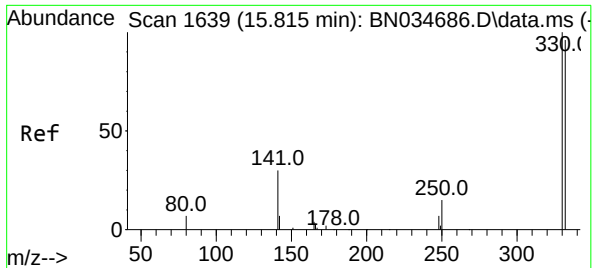
Tgt Ion:152 Resp: 10357
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.276 min Scan# 1499
Delta R.T. -0.053 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

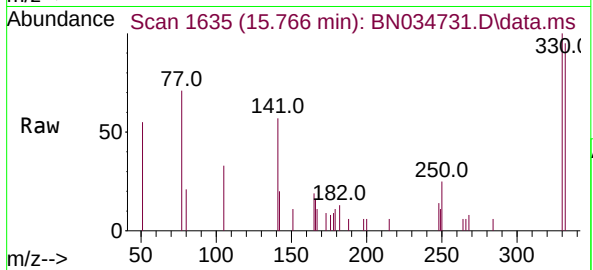
Tgt Ion:164 Resp: 10442
Ion Ratio Lower Upper
164 100
162 104.7 81.4 122.0
160 52.5 40.6 61.0



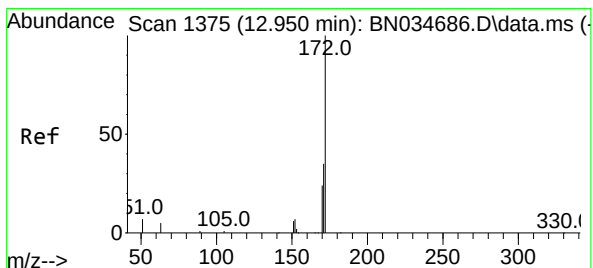
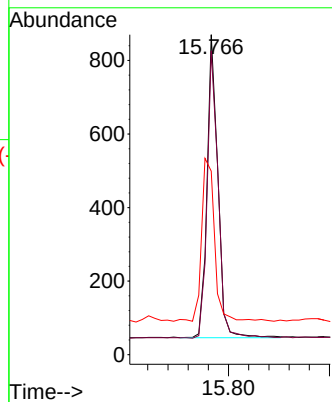
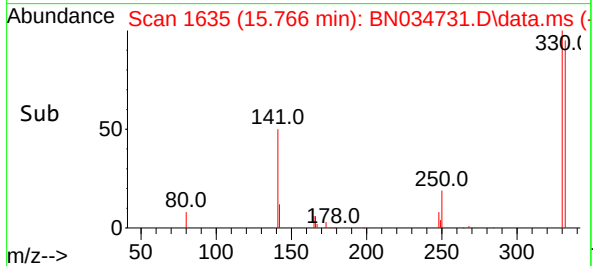


#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.766 min Scan# 1635
Delta R.T. -0.050 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

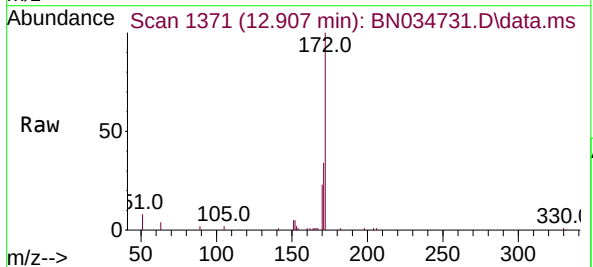
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360



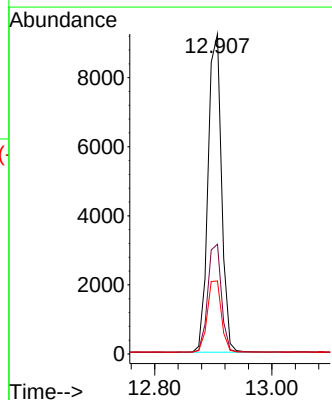
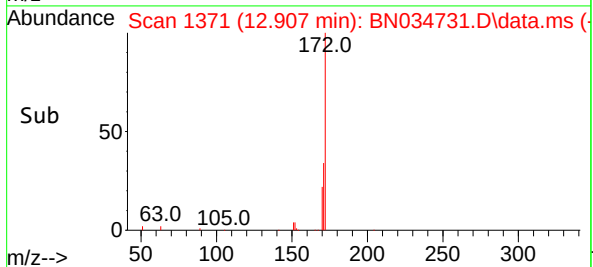
Tgt Ion:330 Resp: 1233
Ion Ratio Lower Upper
330 100
332 95.3 76.6 115.0
141 63.2 54.6 81.8

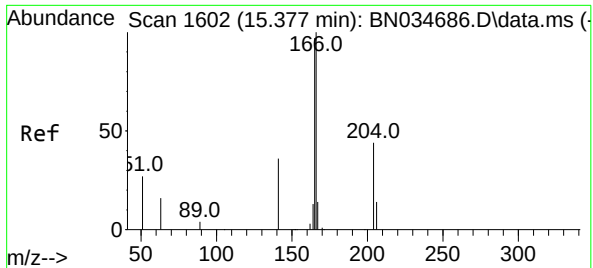


#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.907 min Scan# 1371
Delta R.T. -0.043 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05



Tgt Ion:172 Resp: 14752
Ion Ratio Lower Upper
172 100
171 34.3 28.3 42.5
170 22.8 19.8 29.6

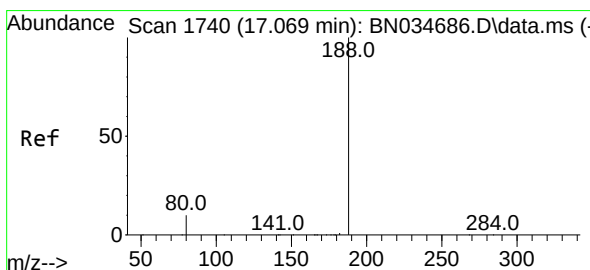
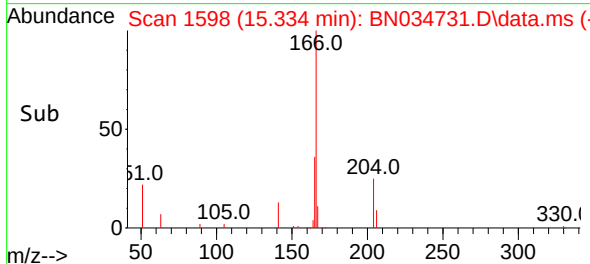
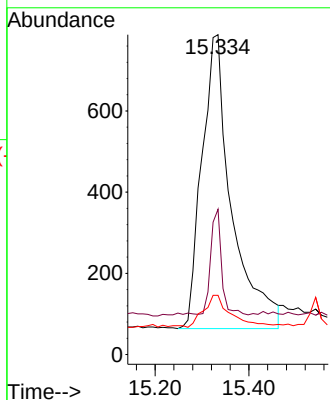
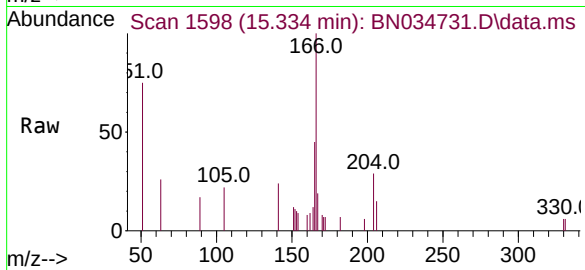




#18
Fluorene
Concen: 0.075 ng
RT: 15.334 min Scan# 11
Delta R.T. -0.043 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

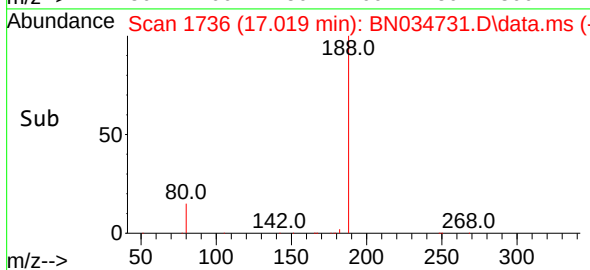
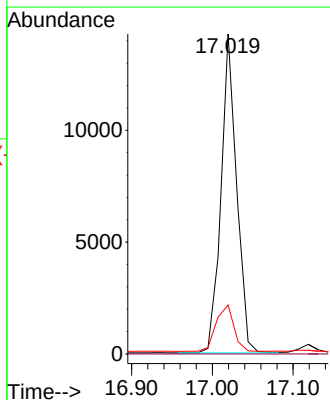
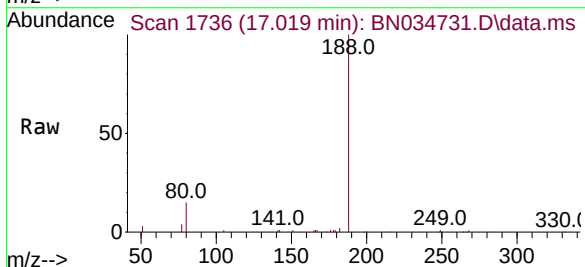
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

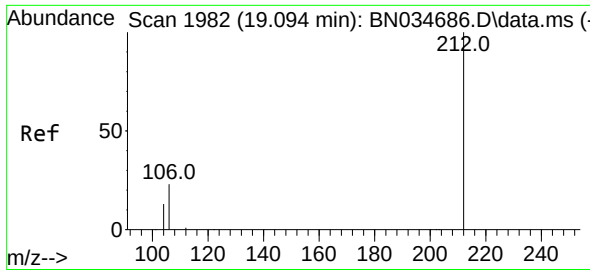
Tgt Ion:166 Resp: 3198
Ion Ratio Lower Upper
166 100
165 13.1 78.8 118.2#
167 10.1 10.6 16.0#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.019 min Scan# 1736
Delta R.T. -0.050 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

Tgt Ion:188 Resp: 19183
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.3 8.9 13.3#





#27

Fluoranthene-d10

Concen: 0.414 ng

RT: 19.057 min Scan# 19

Delta R.T. -0.037 min

Lab File: BN034731.D

Acq: 25 Oct 2024 20:05

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-358-360

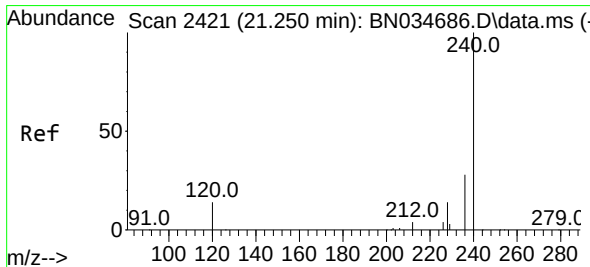
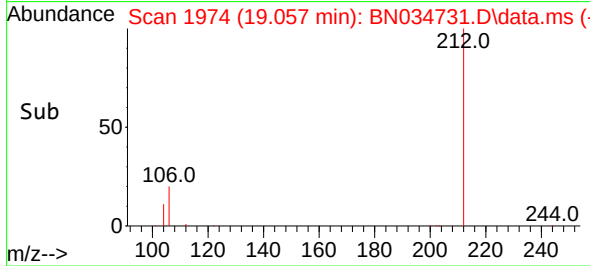
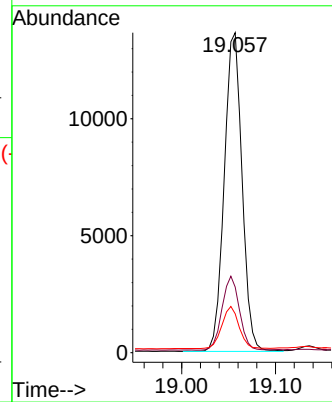
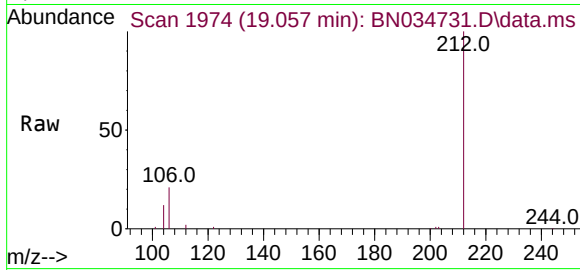
Tgt Ion:212 Resp: 17904

Ion Ratio Lower Upper

212 100

106 22.7 17.8 26.8

104 13.1 10.2 15.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.214 min Scan# 2417

Delta R.T. -0.036 min

Lab File: BN034731.D

Acq: 25 Oct 2024 20:05

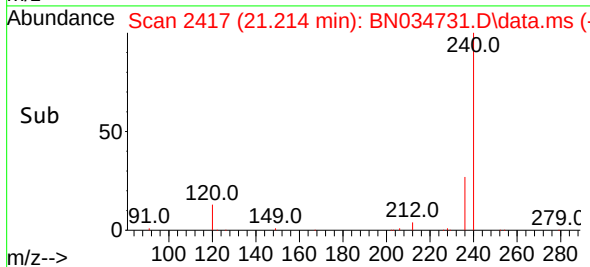
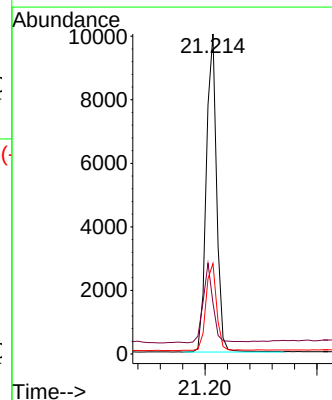
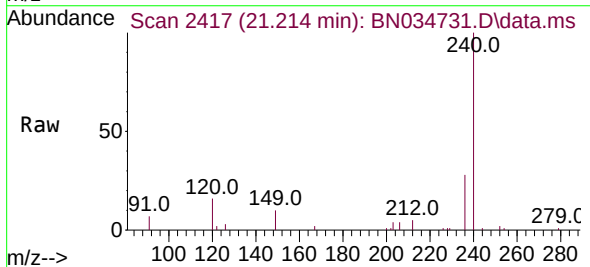
Tgt Ion:240 Resp: 12779

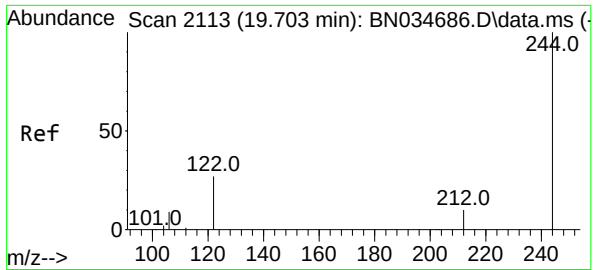
Ion Ratio Lower Upper

240 100

120 15.9 14.2 21.2

236 28.2 23.1 34.7

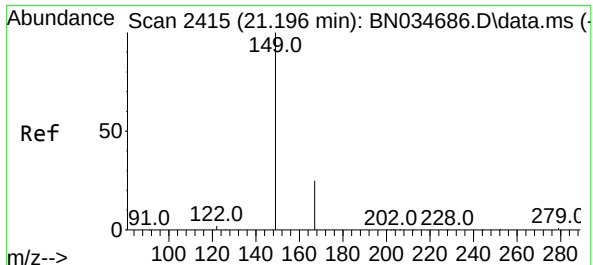
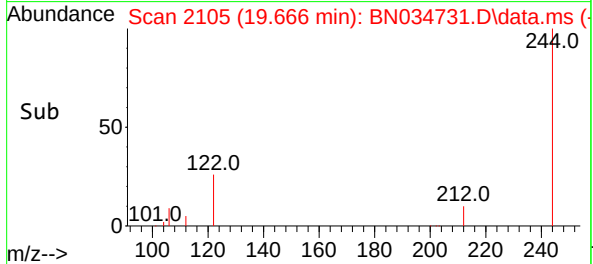
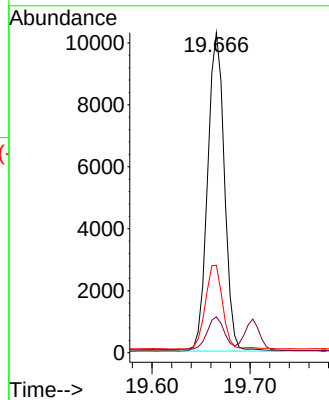
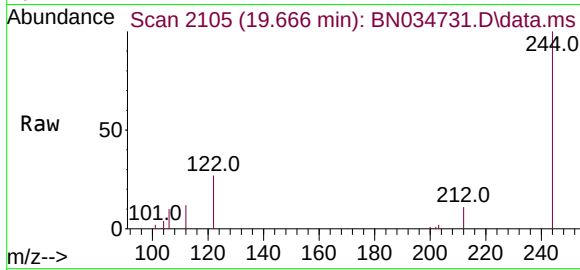




#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.666 min Scan# 2113
Delta R.T. -0.037 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

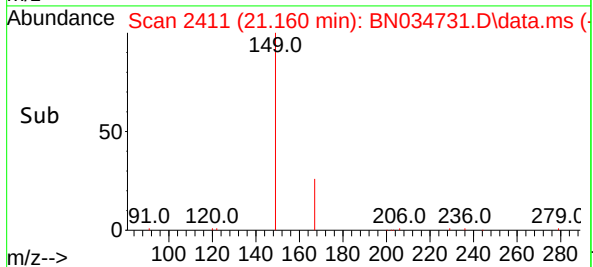
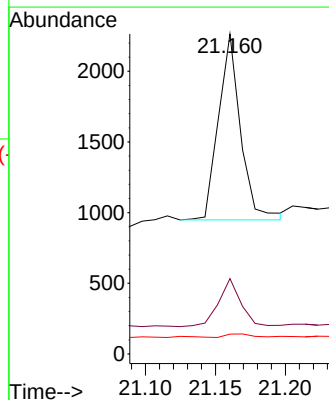
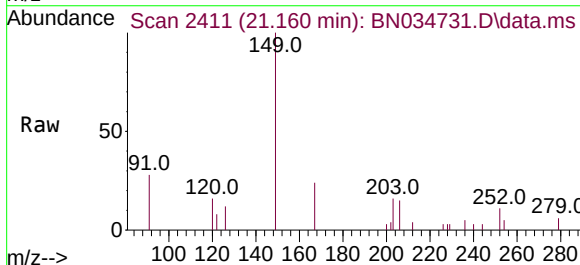
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-358-360

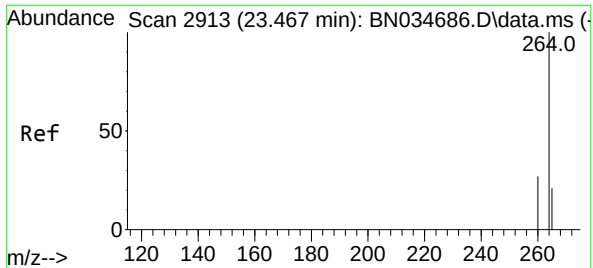
Tgt Ion:244 Resp: 12187
Ion Ratio Lower Upper
244 100
212 11.2 8.6 13.0
122 27.3 22.3 33.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.052 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.036 min
Lab File: BN034731.D
Acq: 25 Oct 2024 20:05

Tgt Ion:149 Resp: 1440
Ion Ratio Lower Upper
149 100
167 26.5 19.7 29.5
279 2.3 1.8 2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.411 min Scan# 21

Delta R.T. -0.055 min

Lab File: BN034731.D

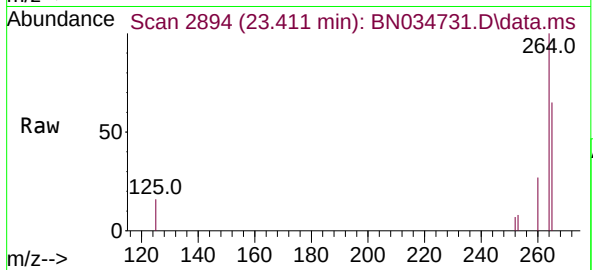
Acq: 25 Oct 2024 20:05

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-358-360



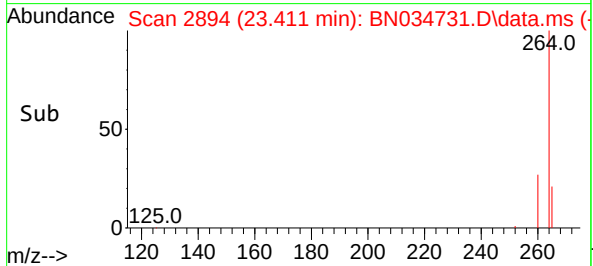
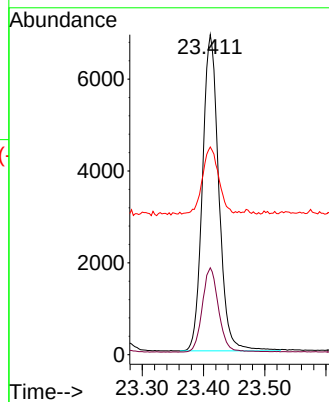
Tgt Ion:264 Resp: 12768

Ion	Ratio	Lower	Upper

264	100		

260	27.2	21.9	32.9

265	64.9	60.6	91.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/23/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	BP-VPB-190-GW-398-400	SDG No.:	P4550
Lab Sample ID:	P4550-11	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	750 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
BN034736.D	1	10/25/24 10:45	10/26/24 11:28	PB164409

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27	U	0.090	0.27	0.27	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8580	7.647				
1146-65-2	Naphthalene-d8	25000	10.415				
15067-26-2	Acenaphthene-d10	11900	14.276				
1517-22-2	Phenanthrene-d10	22700	17.019				
1719-03-5	Chrysene-d12	11600	21.205				
1520-96-3	Perylene-d12	9890	23.408				

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\BN102524\
Data File : BN034736.D
Acq On : 26 Oct 2024 11:28
Operator : RC/JU
Sample : P4550-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

Quant Time: Oct 28 00:53:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration

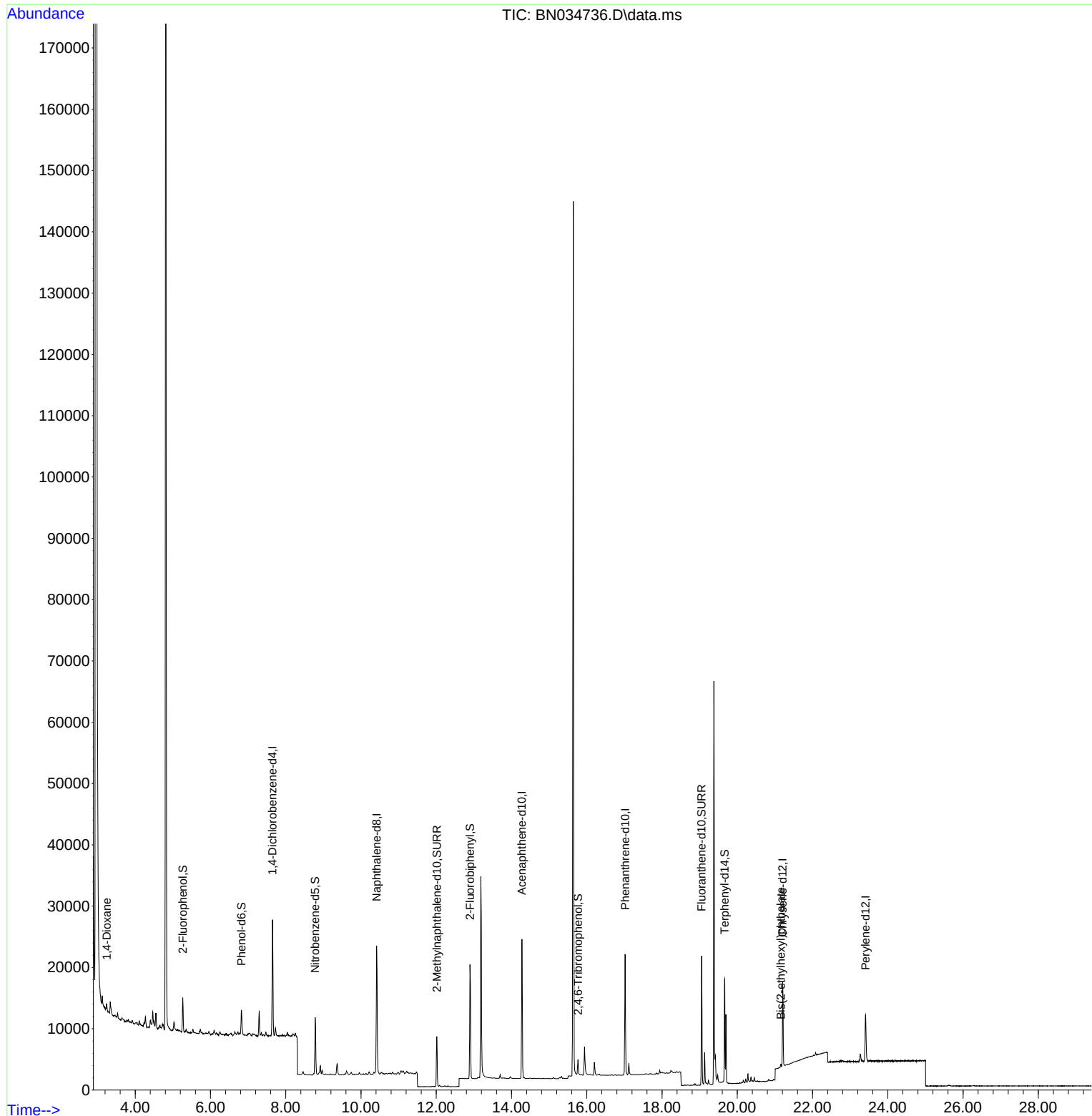
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	8583	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	24972	0.400	ng	0.00
13) Acenaphthene-d10	14.276	164	11895	0.400	ng	0.00
19) Phenanthrene-d10	17.019	188	22735	0.400	ng	# 0.00
29) Chrysene-d12	21.205	240	11602	0.400	ng	# 0.00
35) Perylene-d12	23.408	264	9891	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	3805	0.149	ng	0.00
5) Phenol-d6	6.824	99	3277	0.097	ng	0.00
8) Nitrobenzene-d5	8.781	82	7024	0.335	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	10757	0.313	ng	0.00
14) 2,4,6-Tribromophenol	15.766	330	1195	0.325	ng	0.00
15) 2-Fluorobiphenyl	12.897	172	15839	0.335	ng	0.00
27) Fluoranthene-d10	19.052	212	19376	0.378	ng	0.00
31) Terphenyl-d14	19.666	244	12733	0.537	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.242	88	601	0.053	ng	# 3
34) Bis(2-ethylhexyl)phtha...	21.160	149	774	0.031	ng	# 82

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

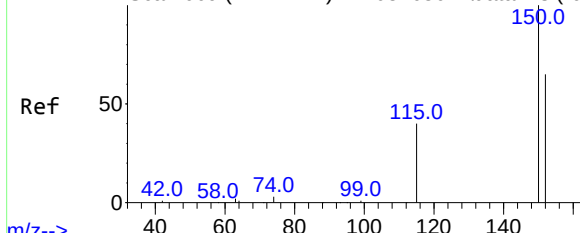
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034736.D
Acq On : 26 Oct 2024 11:28
Operator : RC/JU
Sample : P4550-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

Quant Time: Oct 28 00:53:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration

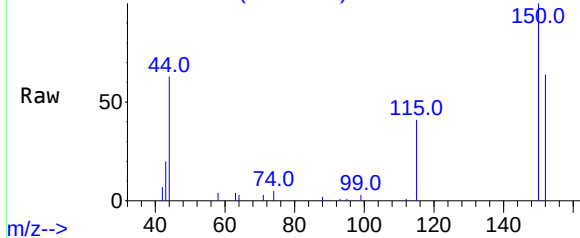


Abundance Scan 669 (7.712 min): BN034686.D\data.ms (-66)



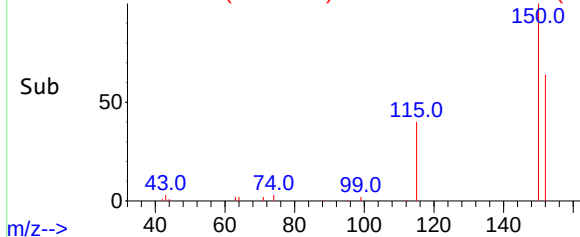
m/z-->

Abundance Scan 660 (7.647 min): BN034736.D\data.ms (-63)



m/z-->

Abundance Scan 660 (7.647 min): BN034736.D\data.ms (-63)



m/z-->

#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.647 min Scan# 6

Delta R.T. 0.000 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-398-400

Tgt Ion:152 Resp: 8583

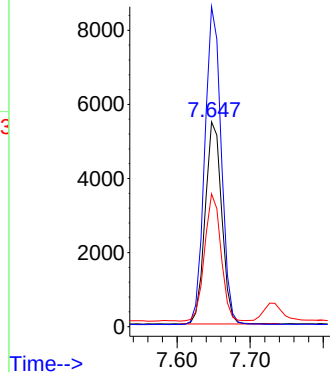
Ion Ratio Lower Upper

152 100

150 156.2 122.7 184.1

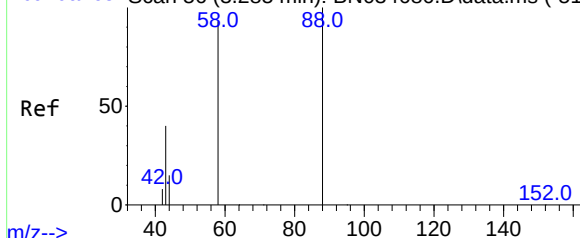
115 64.8 51.0 76.6

Abundance



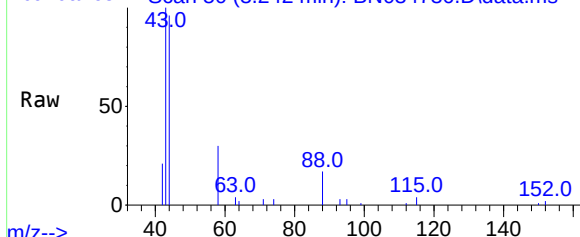
Time-->

Abundance Scan 56 (3.285 min): BN034686.D\data.ms (-51)



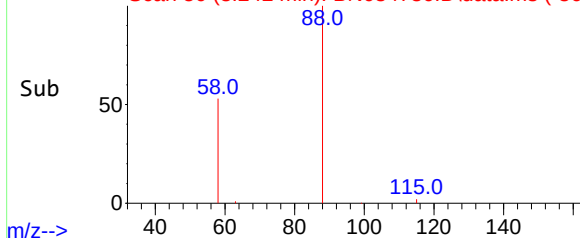
m/z-->

Abundance Scan 50 (3.242 min): BN034736.D\data.ms (-36)



m/z-->

Abundance Scan 50 (3.242 min): BN034736.D\data.ms (-36)



m/z-->

#2

1,4-Dioxane

Concen: 0.053 ng

RT: 3.242 min Scan# 50

Delta R.T. 0.000 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

Tgt Ion: 88 Resp: 601

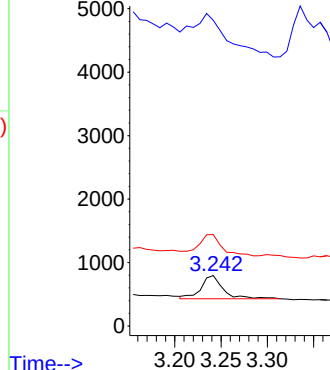
Ion Ratio Lower Upper

88 100

43 237.4 32.1 48.1#

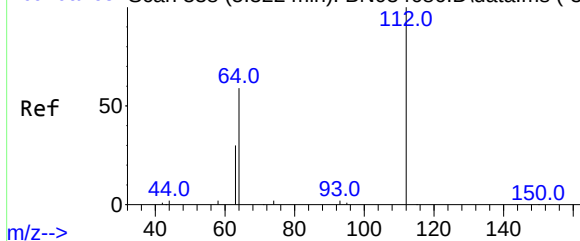
58 92.0 73.7 110.5

Abundance



Time-->

Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33



#4

2-Fluorophenol

Concen: 0.149 ng

RT: 5.264 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-398-400

Tgt Ion:112 Resp: 3805

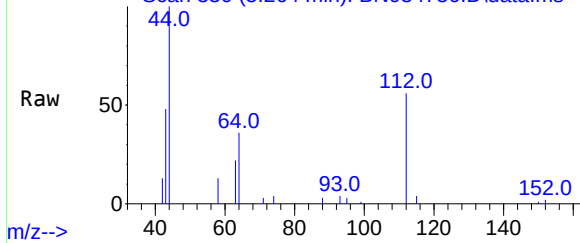
Ion Ratio Lower Upper

112 100

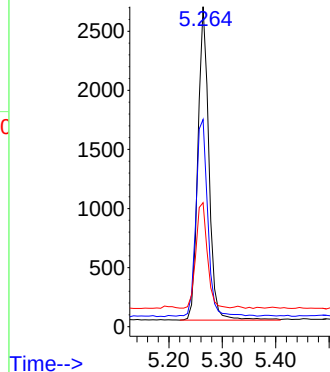
64 66.4 53.0 79.6

63 34.8 27.6 41.4

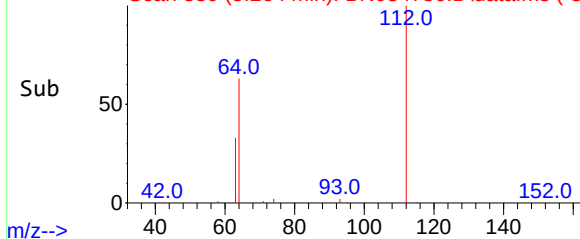
Abundance Scan 330 (5.264 min): BN034736.D\data.ms



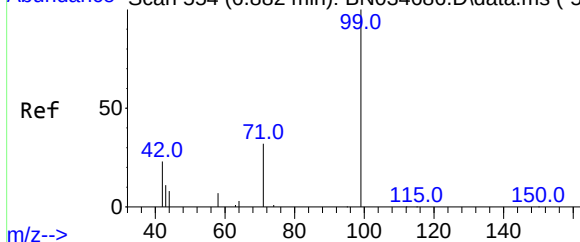
Abundance



Abundance Scan 330 (5.264 min): BN034736.D\data.ms (-30



Abundance Scan 554 (6.882 min): BN034686.D\data.ms (-54



#5

Phenol-d6

Concen: 0.097 ng

RT: 6.824 min Scan# 546

Delta R.T. 0.000 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

Tgt Ion: 99 Resp: 3277

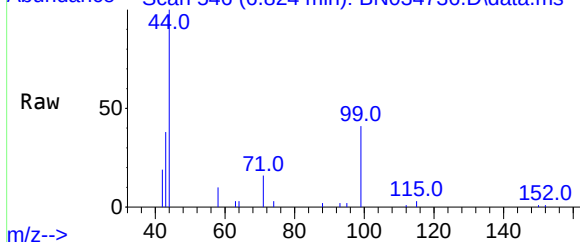
Ion Ratio Lower Upper

99 100

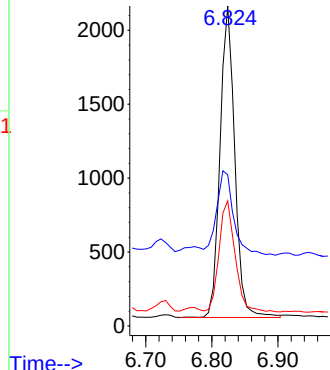
42 31.1 21.8 32.8

71 38.7 26.6 40.0

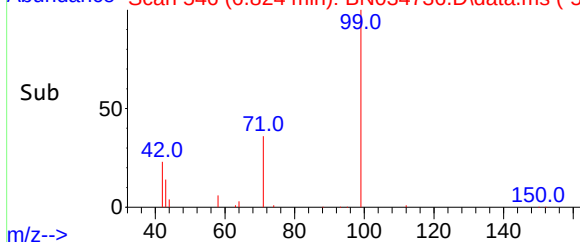
Abundance Scan 546 (6.824 min): BN034736.D\data.ms

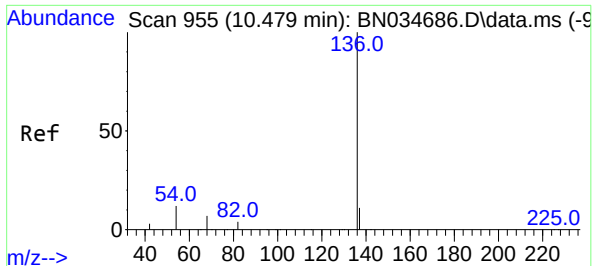


Abundance



Abundance Scan 546 (6.824 min): BN034736.D\data.ms (-51

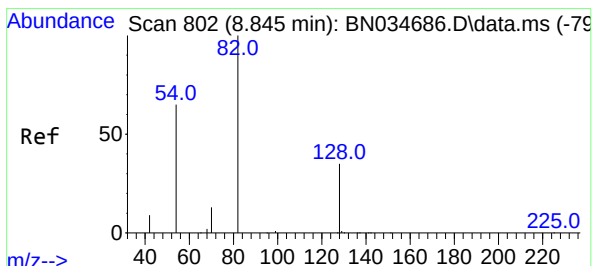
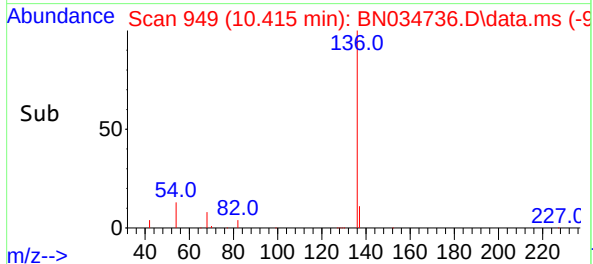
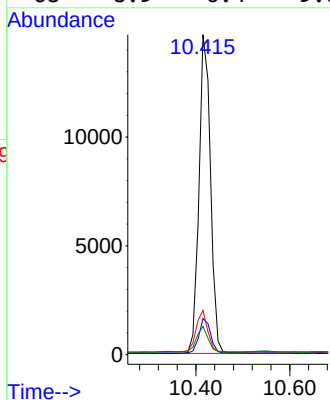
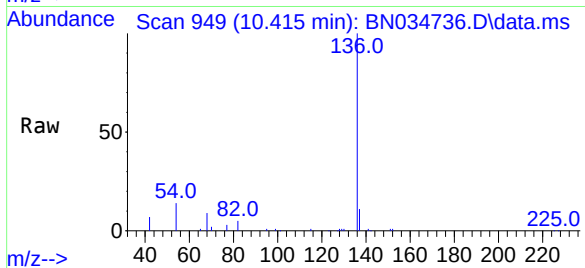




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

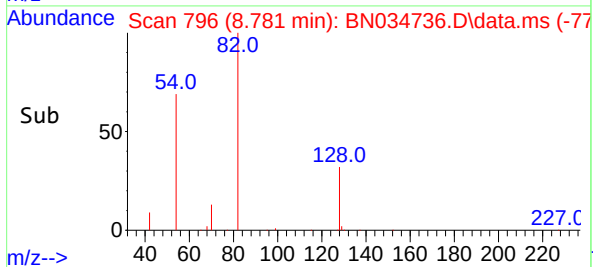
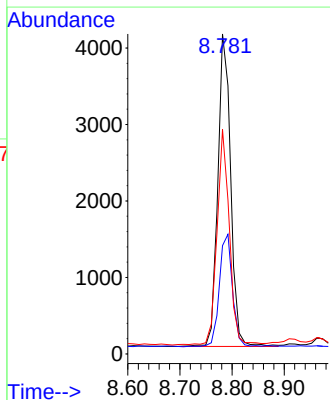
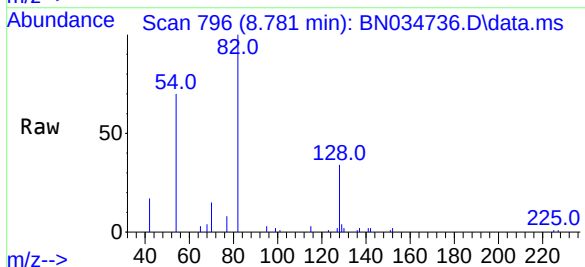
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

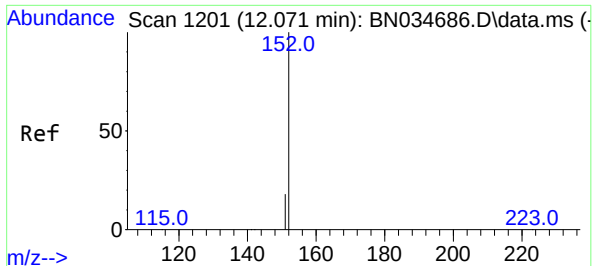
Tgt Ion:	136	Resp:	24972
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	13.9	9.8	14.8
68	8.9	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.335 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

Tgt Ion:	82	Resp:	7024
Ion	Ratio	Lower	Upper
82	100		
128	33.8	29.7	44.5
54	70.1	53.0	79.6

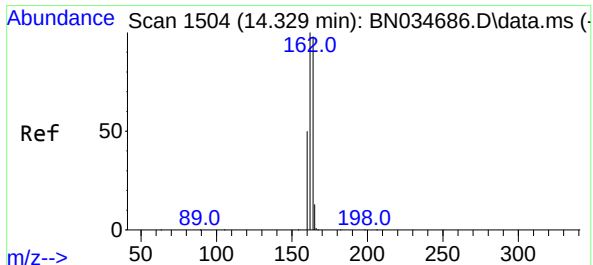
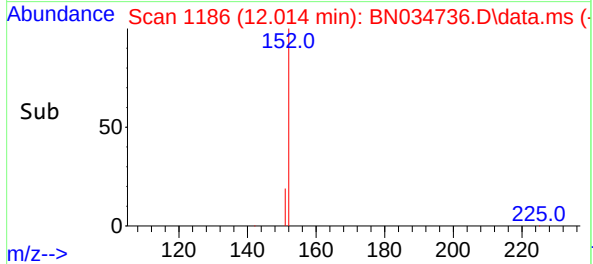
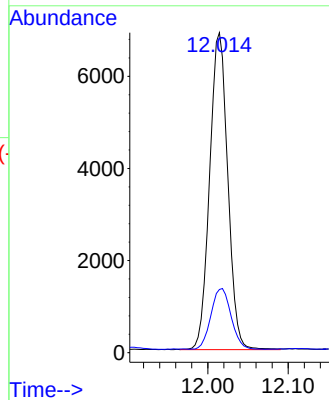
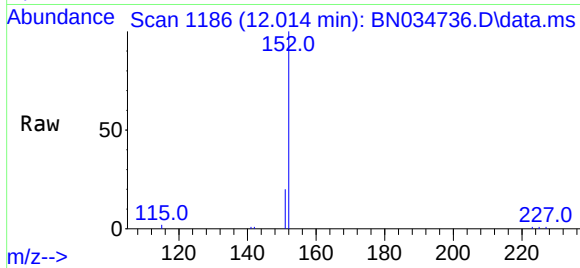




#11
2-Methylnaphthalene-d10
Concen: 0.313 ng
RT: 12.014 min Scan# 1186
Delta R.T. 0.000 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

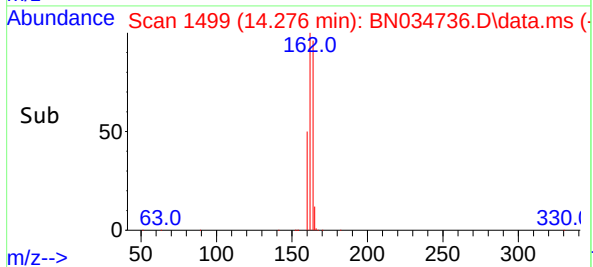
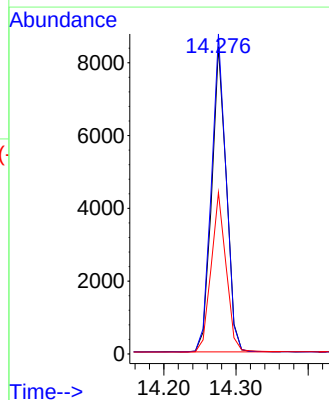
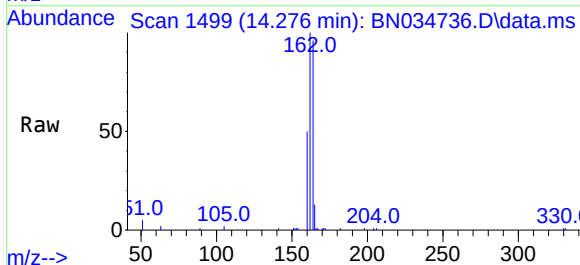
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

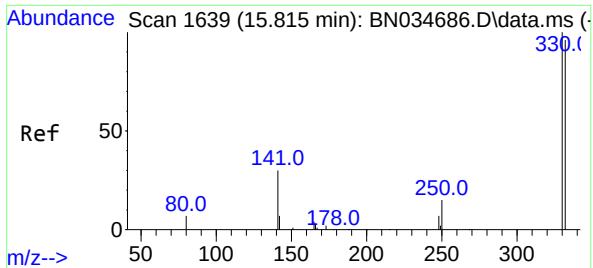
Tgt Ion:152 Resp: 10757
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.276 min Scan# 1499
Delta R.T. 0.004 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

Tgt Ion:164 Resp: 11895
Ion Ratio Lower Upper
164 100
162 104.2 81.4 122.0
160 52.6 40.6 61.0

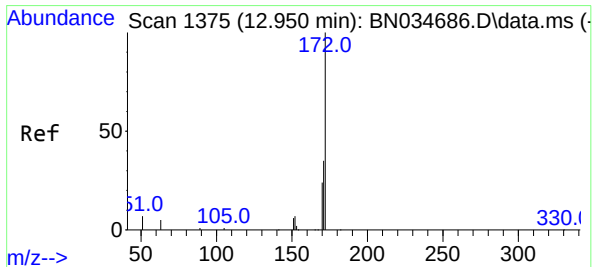
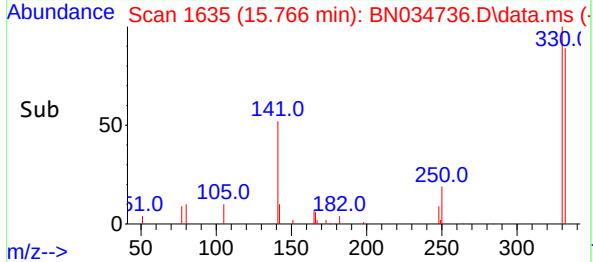
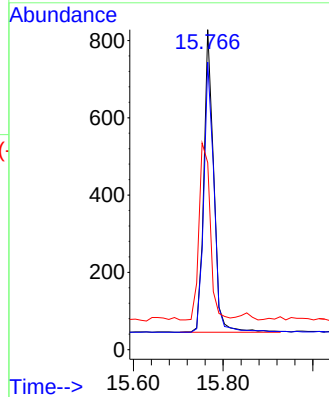
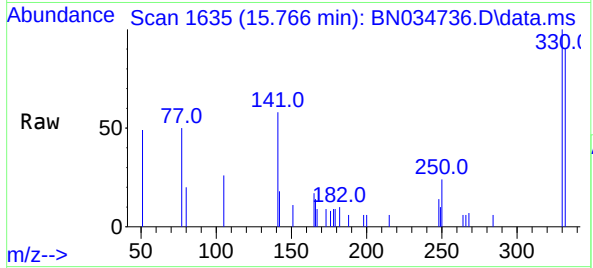




#14
2,4,6-Tribromophenol
Concen: 0.325 ng
RT: 15.766 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

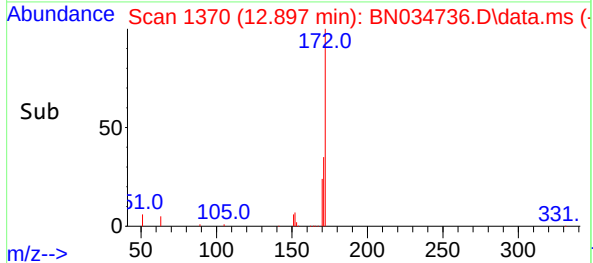
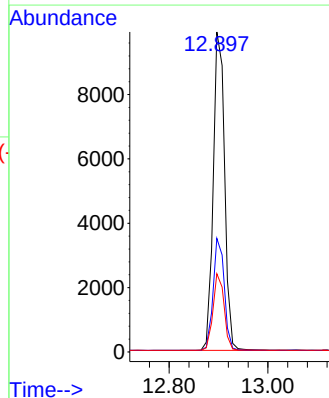
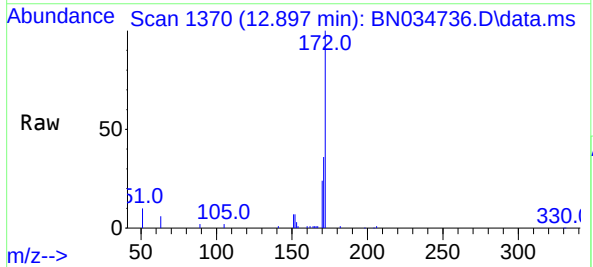
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

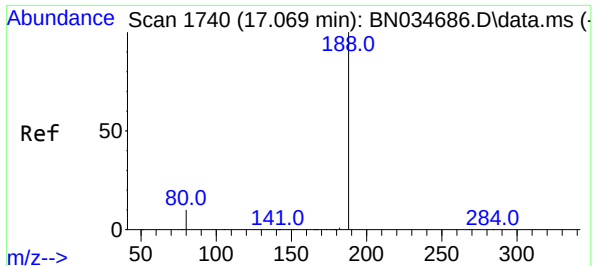
Tgt Ion:	330	Resp:	1195
Ion	Ratio	Lower	Upper
330	100		
332	92.1	76.6	115.0
141	66.9	54.6	81.8



#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.897 min Scan# 1370
Delta R.T. -0.007 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

Tgt Ion:	172	Resp:	15839
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	24.4	19.8	29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.019 min Scan# 11

Delta R.T. 0.006 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-398-400

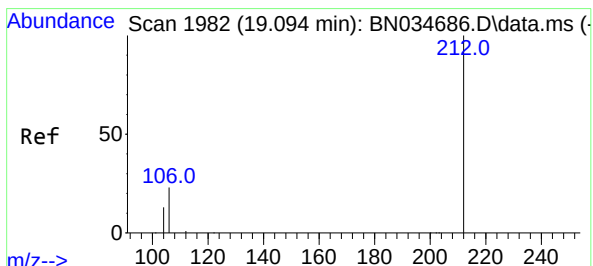
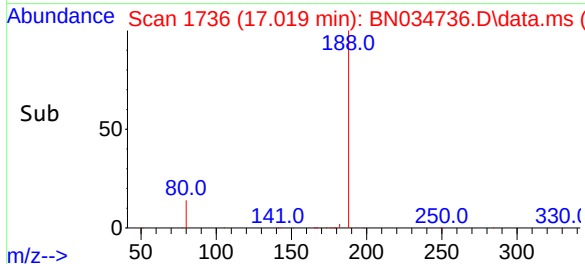
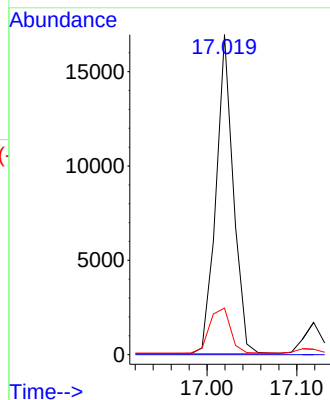
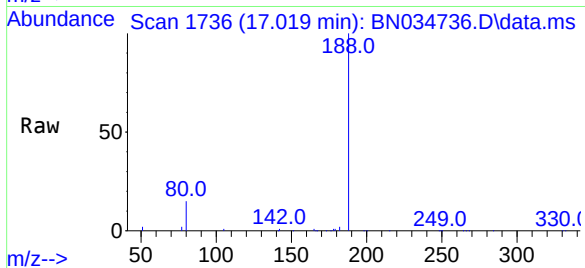
Tgt Ion:188 Resp: 22735

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.6 8.9 13.3#



#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.052 min Scan# 1973

Delta R.T. -0.002 min

Lab File: BN034736.D

Acq: 26 Oct 2024 11:28

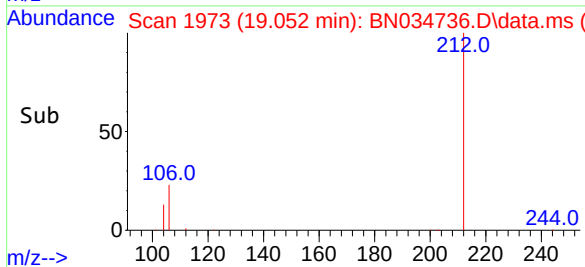
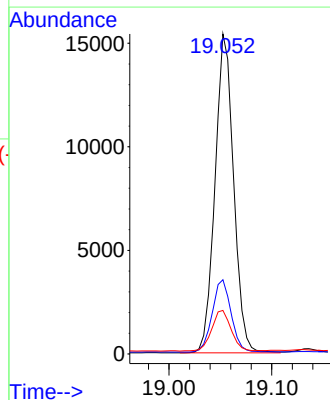
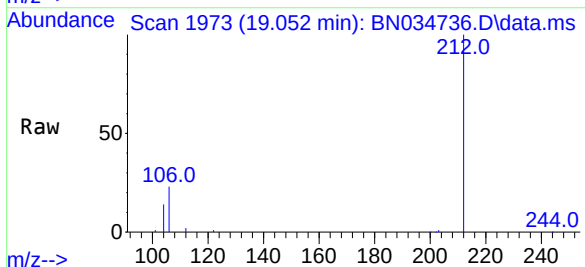
Tgt Ion:212 Resp: 19376

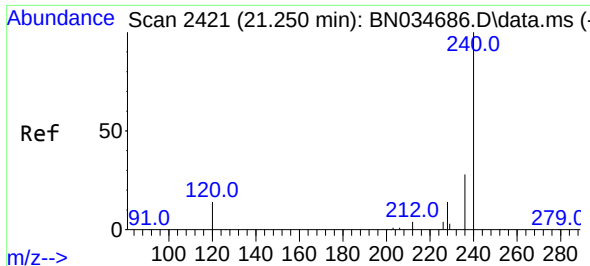
Ion Ratio Lower Upper

212 100

106 22.9 17.8 26.8

104 13.2 10.2 15.4

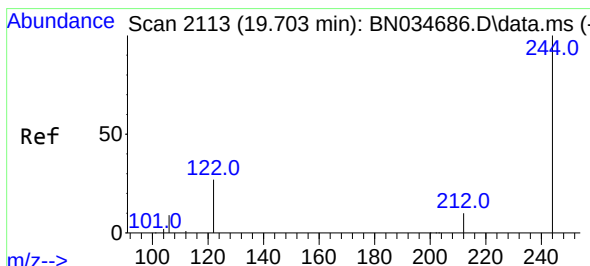
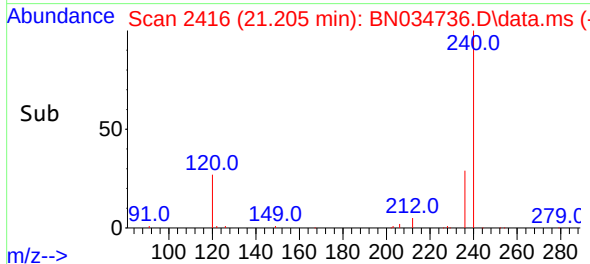
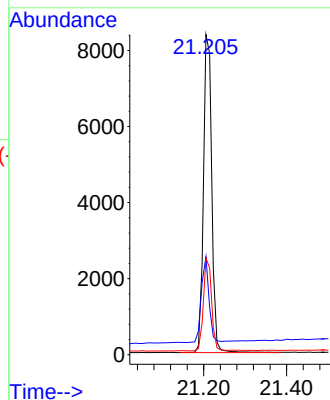
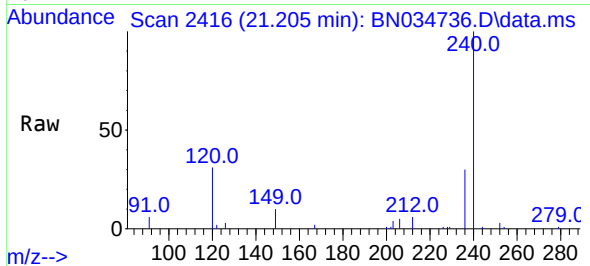




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.205 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

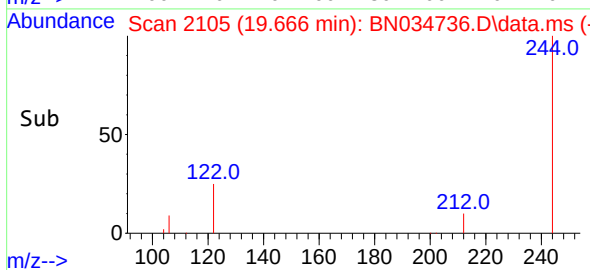
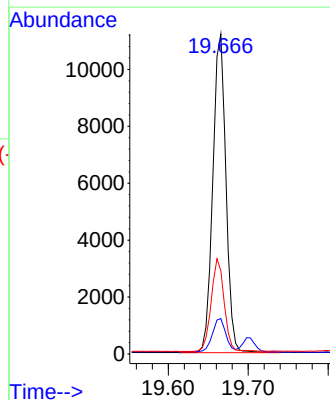
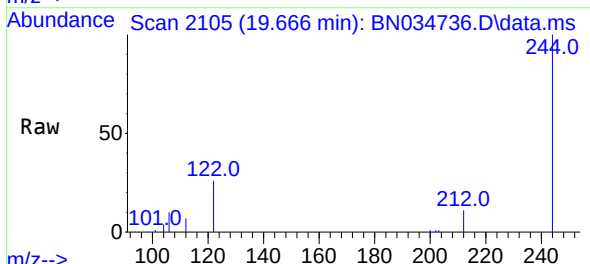
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

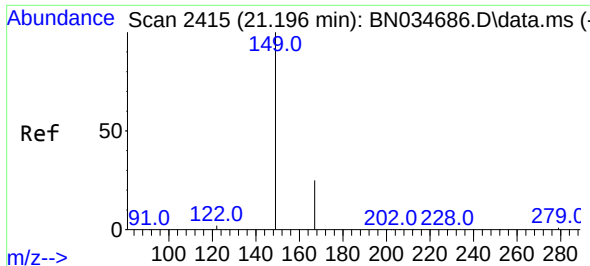
Tgt Ion	Ratio	Lower	Upper
240	100		
120	30.6	14.2	21.2#
236	30.2	23.1	34.7



#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.666 min Scan# 2105
Delta R.T. 0.003 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	8.6	13.0
122	26.1	22.3	33.5

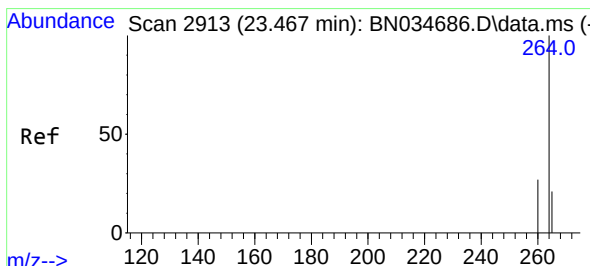
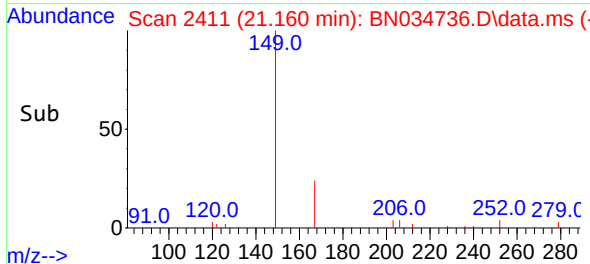
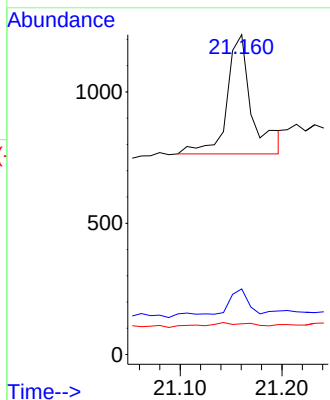
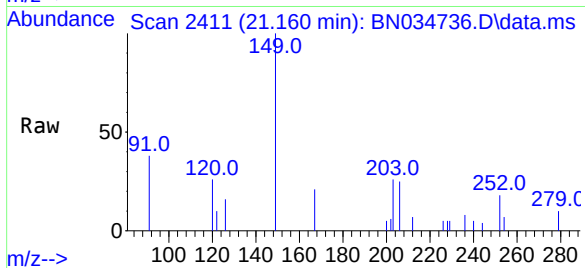




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.031 ng
RT: 21.160 min Scan# 2415
Delta R.T. 0.003 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

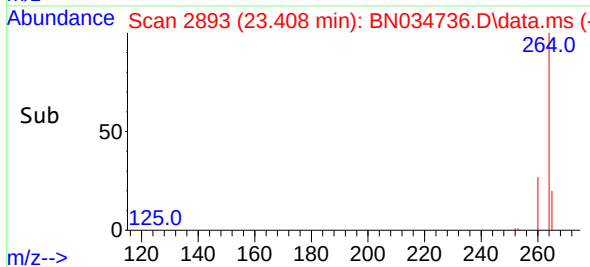
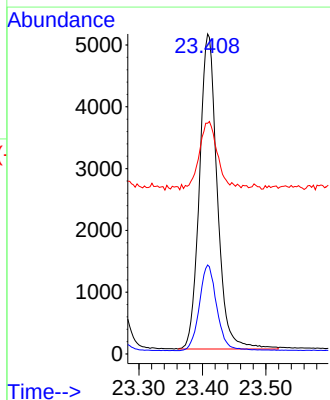
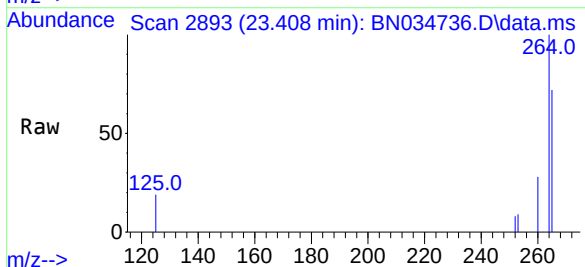
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-398-400

Tgt Ion:149 Resp: 774
Ion Ratio Lower Upper
149 100
167 15.0 19.7 29.5#
279 3.5 1.8 2.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.408 min Scan# 2893
Delta R.T. 0.002 min
Lab File: BN034736.D
Acq: 26 Oct 2024 11:28

Tgt Ion:264 Resp: 9891
Ion Ratio Lower Upper
264 100
260 27.8 21.9 32.9
265 72.1 60.6 91.0





CALIBRATION SUMMARY

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN102424.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Oct 24 13:17:02 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN034684.D 0.2 =BN034685.D 0.4 =BN034686.D 0.8 =BN034687.D 1.6 =BN034688.D 3.2 =BN034689.D 5.0 =BN034690.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	0.621	0.564	0.485	0.545	0.530	0.503	0.479	0.532	9.40
3)	n-Nitrosodimet...	0.775	0.766	0.704	0.842	0.827	0.761	0.749	0.775	6.06
4) S	2-Fluorophenol	1.188	1.202	1.070	1.268	1.253	1.168	1.177	1.189	5.46
5) S	Phenol-d6	1.556	1.554	1.386	1.658	1.657	1.569	1.597	1.568	5.85
6)	bis(2-Chloroet...	1.306	1.281	1.140	1.380	1.346	1.243	1.220	1.274	6.37
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.345	0.323	0.294	0.354	0.349	0.337	0.348	0.336	6.27
9)	Naphthalene	1.126	1.100	0.987	1.182	1.157	1.094	1.101	1.107	5.61
10)	Hexachlorobuta...	0.175	0.169	0.149	0.178	0.170	0.160	0.159	0.166	6.23
11) SURR	2-Methylnaphth...	0.542	0.534	0.481	0.583	0.586	0.557	0.566	0.550	6.53
12)	2-Methylnaphth...	0.675	0.670	0.600	0.729	0.730	0.697	0.705	0.687	6.50
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.110	0.118	0.096	0.127	0.133	0.136	0.146	0.124	13.66
15) S	2-Fluorobiphenyl	1.661	1.577	1.379	1.703	1.666	1.540	1.601	1.590	6.84
16)	Acenaphthylene	1.900	1.860	1.581	2.040	2.038	1.964	2.064	1.921	8.76
17)	Acenaphthene	1.318	1.286	1.122	1.435	1.407	1.329	1.370	1.324	7.79
18)	Fluorene	1.598	1.609	1.388	1.764	1.750	1.663	1.663	1.634	7.68
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.048	0.043	0.055	0.059	0.063	0.067	0.056		16.66
21)	4-Bromophenyl-...	0.217	0.211	0.190	0.224	0.221	0.212	0.219	0.213	5.22
22)	Hexachlorobenzene	0.238	0.234	0.211	0.243	0.238	0.226	0.229	0.231	4.55
23)	Atrazine	0.151	0.158	0.140	0.183	0.181	0.181	0.179	0.168	10.55
24)	Pentachlorophenol	0.065	0.064	0.083	0.087	0.092	0.100	0.082		17.73
25)	Phenanthrene	1.214	1.208	1.065	1.273	1.244	1.191	1.215	1.202	5.49
26)	Anthracene	1.006	1.043	0.931	1.124	1.127	1.102	1.131	1.067	7.17
27) SURR	Fluoranthene-d10	0.870	0.885	0.784	0.994	0.951	0.913	0.910	0.901	7.35
28)	Fluoranthene	1.188	1.222	1.092	1.380	1.333	1.290	1.269	1.253	7.66
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.066	2.035	1.880	2.152	2.164	2.039	2.048	2.055	4.57
31) S	Terphenyl-d14	0.813	0.797	0.740	0.867	0.865	0.820	0.820	0.817	5.27
32)	Benzo(a)anthra...	1.502	1.445	1.373	1.640	1.613	1.553	1.570	1.528	6.19
33)	Chrysene	1.642	1.568	1.442	1.709	1.643	1.533	1.531	1.581	5.68
34)	Bis(2-ethylhex...	0.901	0.779	0.722	0.843	0.878	0.915	1.030	0.867	11.48
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN102424.M

36)	Indeno(1,2,3-c...	1.562	1.447	1.418	1.596	1.620	1.517	1.624	1.541	5.39
37)	Benzo(b)fluora...	1.543	1.516	1.481	1.714	1.699	1.614	1.615	1.597	5.57
38)	Benzo(k)fluora...	1.511	1.491	1.386	1.723	1.712	1.596	1.613	1.576	7.75
39) C	Benzo(a)pyrene	1.203	1.188	1.157	1.369	1.383	1.323	1.350	1.282	7.45
40)	Dibenzo(a,h)an...	1.236	1.139	1.113	1.246	1.283	1.201	1.288	1.215	5.58
41)	Benzo(g,h,i)pe...	1.397	1.287	1.262	1.377	1.387	1.290	1.378	1.340	4.28

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034684.D
 Acq On : 24 Oct 2024 09:11
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Oct 24 12:42:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

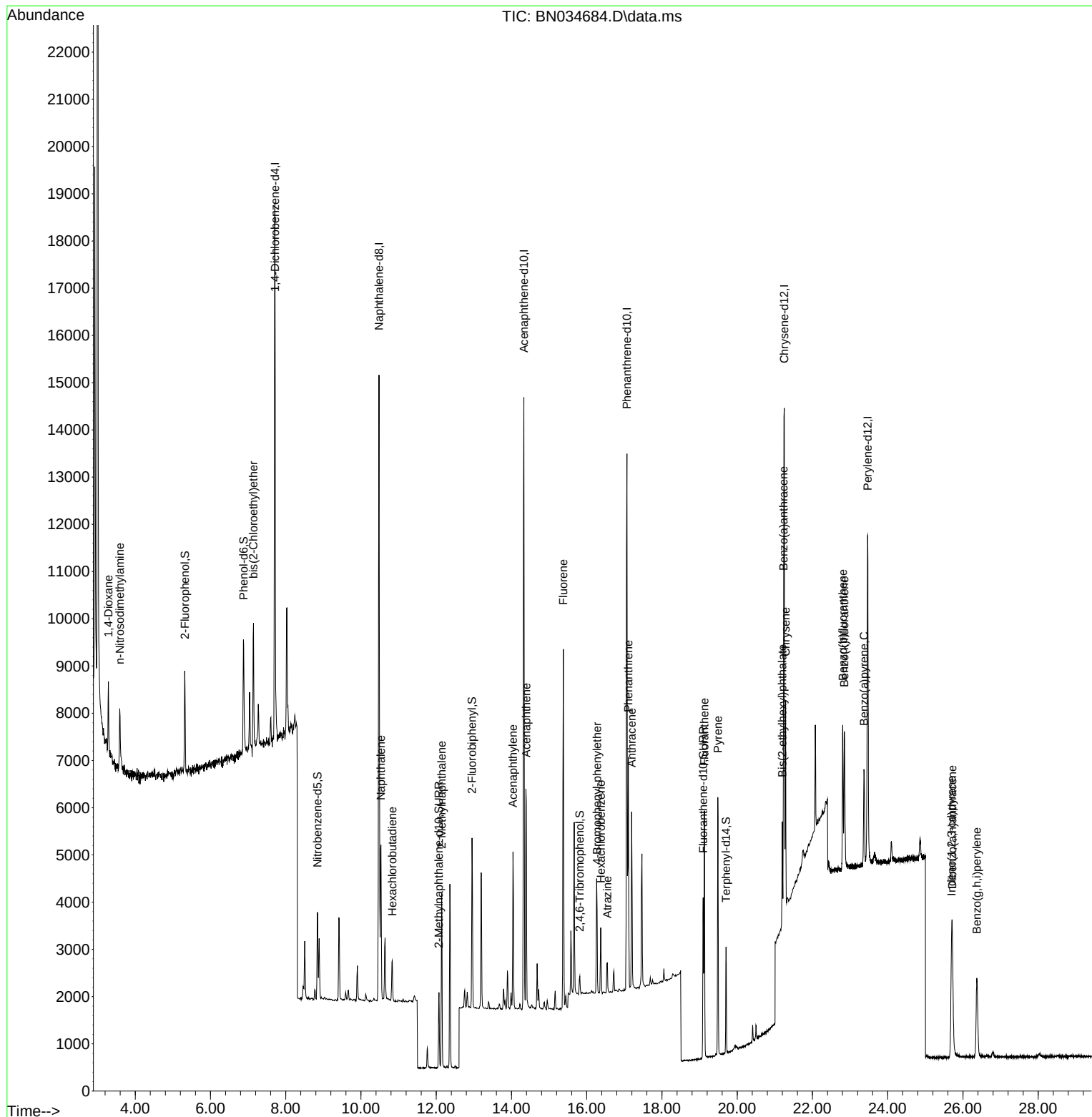
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5558	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16023	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	7436	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	15281	0.400	ng	0.00
29) Chrysene-d12	21.250	240	9023	0.400	ng	0.00
35) Perylene-d12	23.467	264	9104	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	1651	0.097	ng	0.00
5) Phenol-d6	6.882	99	2162	0.099	ng	0.00
8) Nitrobenzene-d5	8.846	82	1381	0.104	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	2173	0.096	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	205	0.065	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	3087	0.105	ng	0.00
27) Fluoranthene-d10	19.094	212	3322	0.089	ng	0.00
31) Terphenyl-d14	19.703	244	1833	0.105	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	863	0.128	ng	89
3) n-Nitrosodimethylamine	3.588	42	1077	0.132	ng	# 95
6) bis(2-Chloroethyl)ether	7.142	93	1815	0.109	ng	99
9) Naphthalene	10.533	128	4509	0.102	ng	96
10) Hexachlorobutadiene	10.831	225	703	0.099	ng	# 99
12) 2-Methylnaphthalene	12.147	142	2704	0.097	ng	98
16) Acenaphthylene	14.041	152	3532	0.099	ng	100
17) Acenaphthene	14.393	154	2450	0.101	ng	97
18) Fluorene	15.377	166	2971	0.098	ng	100
21) 4-Bromophenyl-phenylether	16.275	248	830	0.099	ng	96
22) Hexachlorobenzene	16.374	284	909	0.098	ng	97
23) Atrazine	16.548	200	577	0.079	ng	# 87
25) Phenanthrene	17.106	178	4637	0.102	ng	100
26) Anthracene	17.193	178	3843	0.095	ng	100
28) Fluoranthene	19.127	202	4537	0.089	ng	99
30) Pyrene	19.485	202	4660	0.116	ng	99
32) Benzo(a)anthracene	21.232	228	3389	0.099	ng	97
33) Chrysene	21.286	228	3705	0.109	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	2033	0.087	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.695	276	3556	0.101	ng	96
37) Benzo(b)fluoranthene	22.806	252	3512	0.107	ng	# 65
38) Benzo(k)fluoranthene	22.847	252	3438	0.107	ng	# 62
39) Benzo(a)pyrene	23.370	252	2737	0.098	ng	# 55
40) Dibenzo(a,h)anthracene	25.718	278	2812	0.102	ng	# 78
41) Benzo(g,h,i)perylene	26.370	276	3179	0.105	ng	# 89

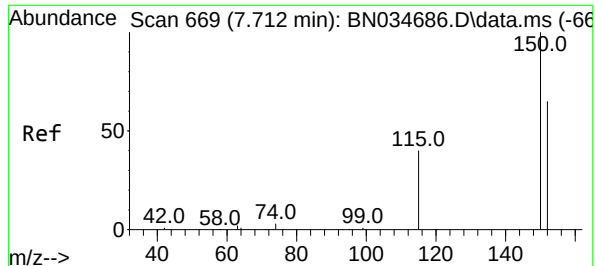
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034684.D
Acq On : 24 Oct 2024 09:11
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Oct 24 12:42:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

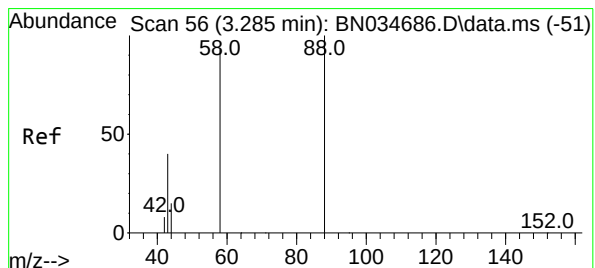
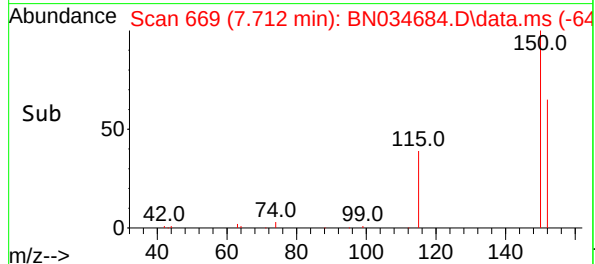
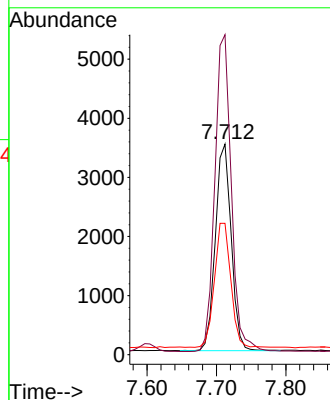
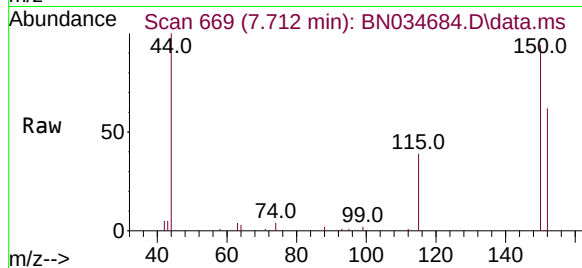




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

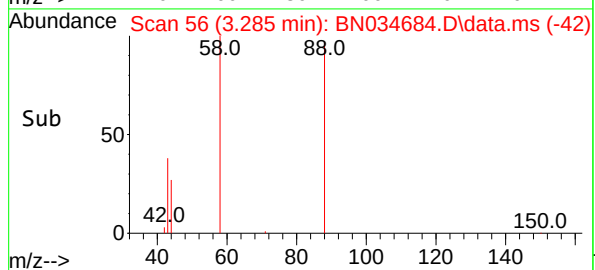
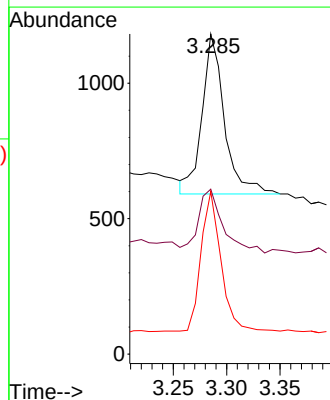
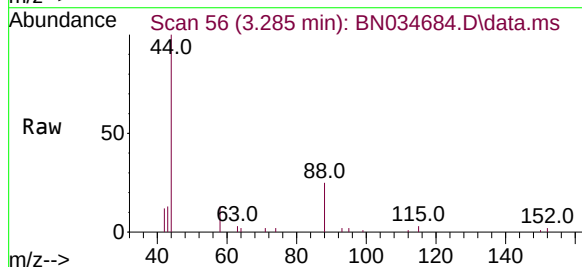
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

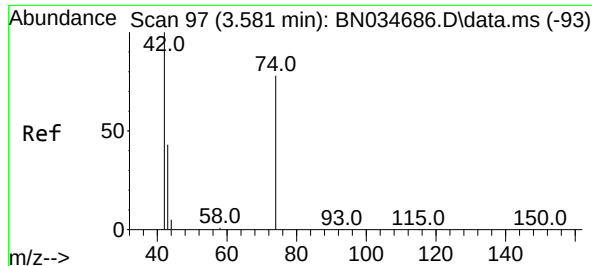
Tgt Ion:152 Resp: 5558
Ion Ratio Lower Upper
152 100
150 152.0 122.7 184.1
115 62.4 51.0 76.6



#2
1,4-Dioxane
Concen: 0.128 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion: 88 Resp: 863
Ion Ratio Lower Upper
88 100
43 40.9 32.1 48.1
58 77.6 73.7 110.5

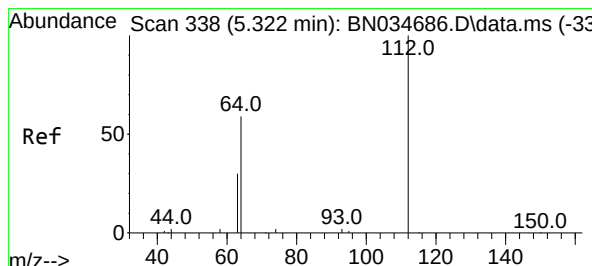
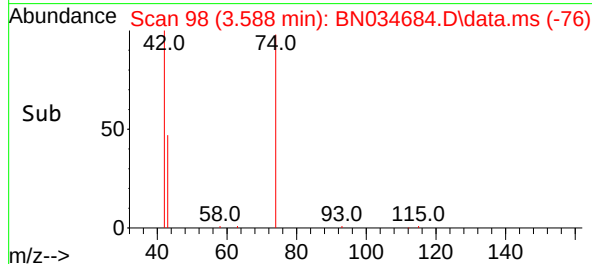
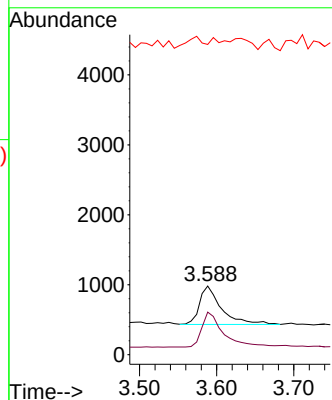
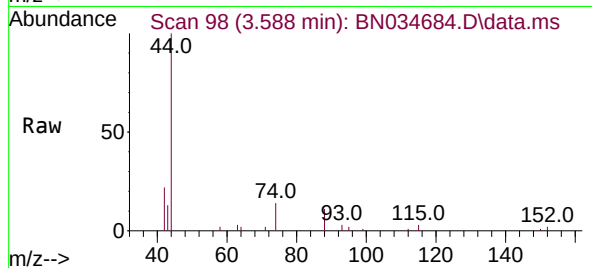




#3
n-Nitrosodimethylamine
Concen: 0.132 ng
RT: 3.588 min Scan# 91
Delta R.T. 0.007 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

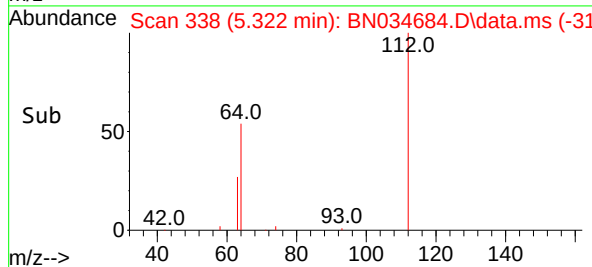
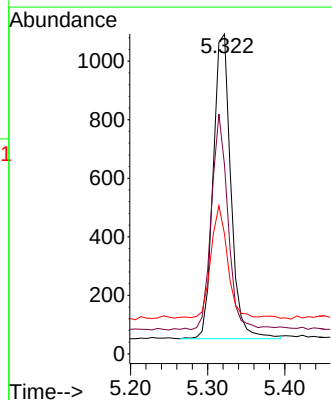
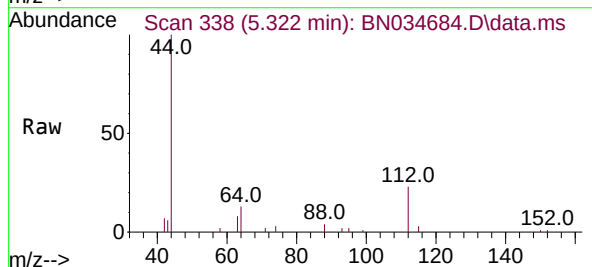
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

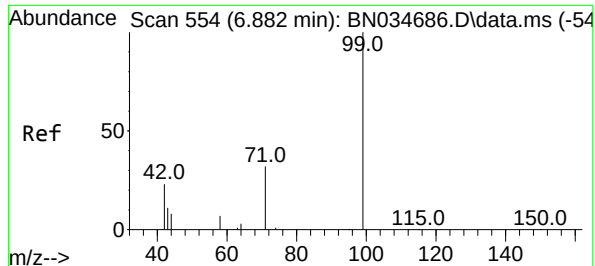
Tgt Ion: 42 Resp: 1077
Ion Ratio Lower Upper
42 100
74 93.9 77.2 115.8
44 8.6 13.4 20.2#



#4
2-Fluorophenol
Concen: 0.097 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion: 112 Resp: 1651
Ion Ratio Lower Upper
112 100
64 67.8 53.0 79.6
63 35.0 27.6 41.4

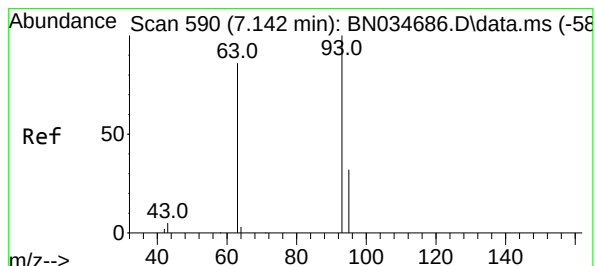
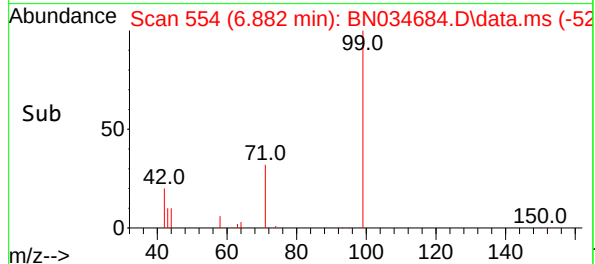
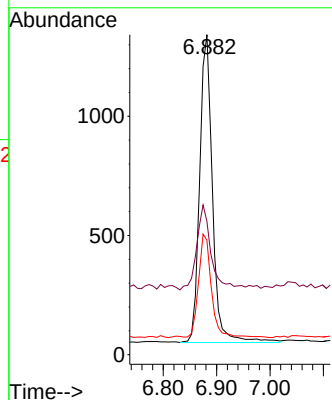
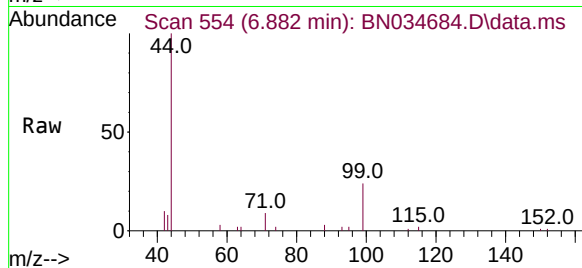




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

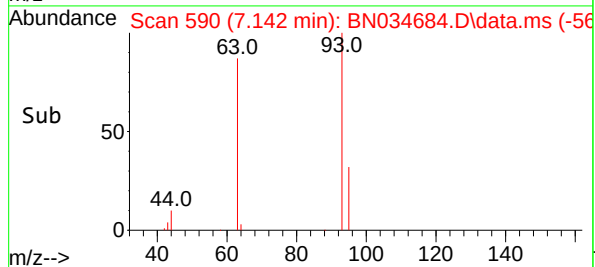
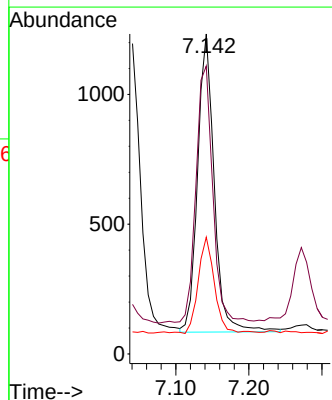
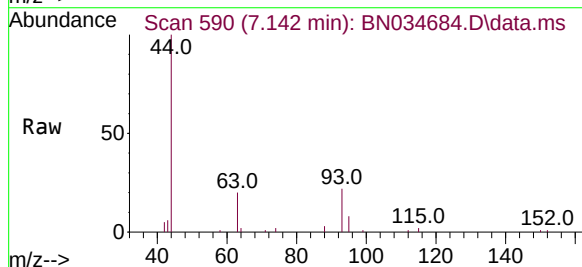
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

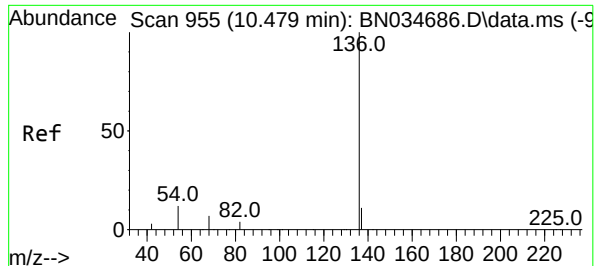
Tgt Ion: 99 Resp: 2162
Ion Ratio Lower Upper
99 100
42 31.1 21.8 32.8
71 33.9 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.109 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion: 93 Resp: 1815
Ion Ratio Lower Upper
93 100
63 87.8 71.5 107.3
95 31.8 25.8 38.6

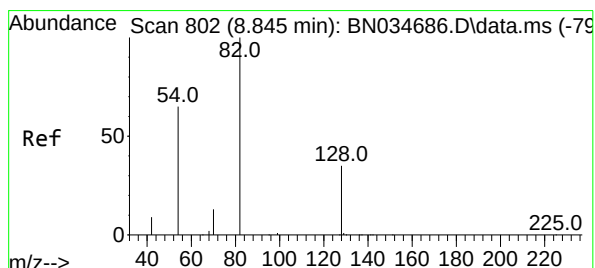
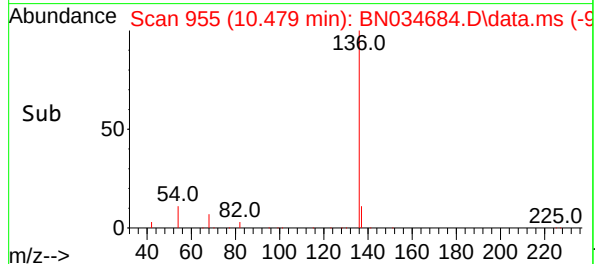
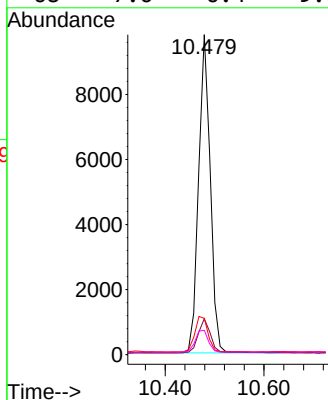
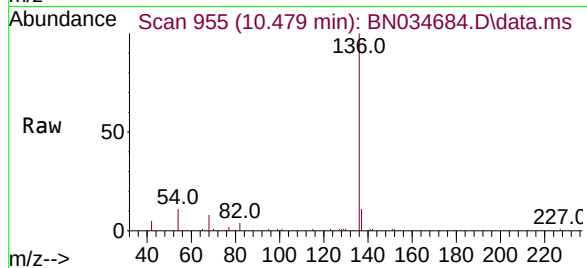




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

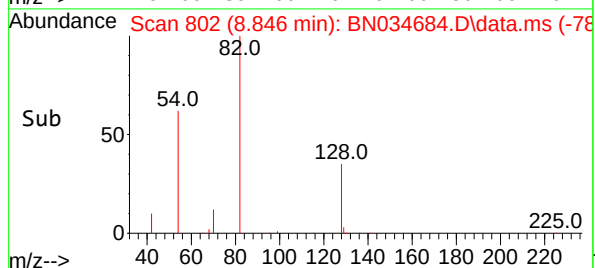
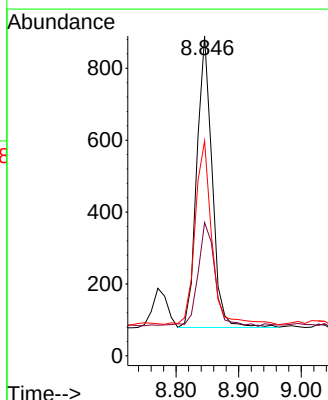
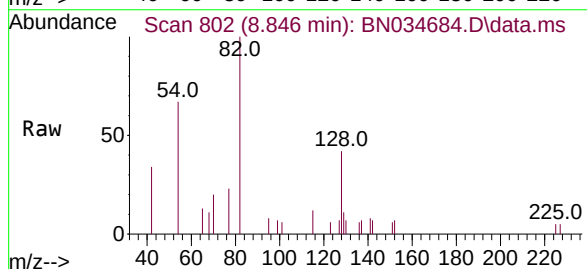
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

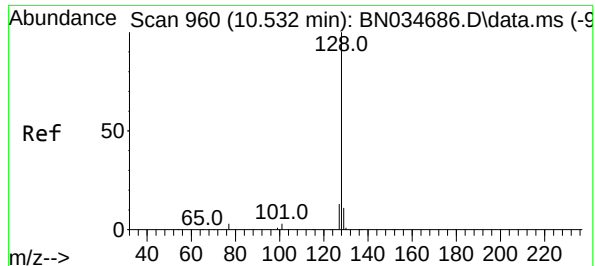
Tgt Ion:	136	Resp:	16023
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	11.3	9.8	14.8
68	7.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.104 ng
RT: 8.846 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:	82	Resp:	1381
Ion	Ratio	Lower	Upper
82	100		
128	41.7	29.7	44.5
54	67.2	53.0	79.6

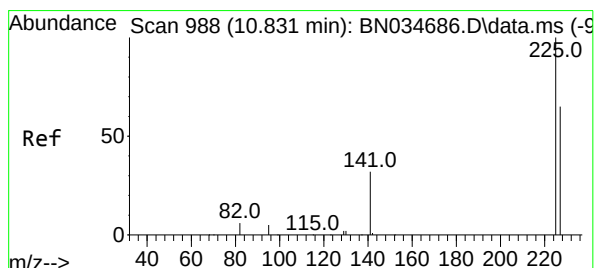
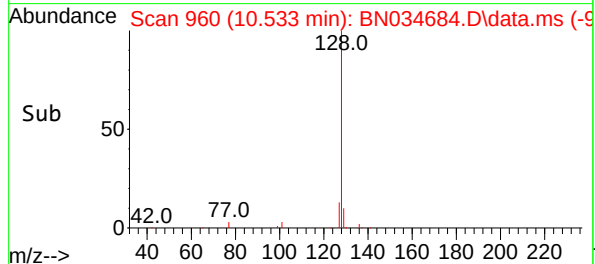
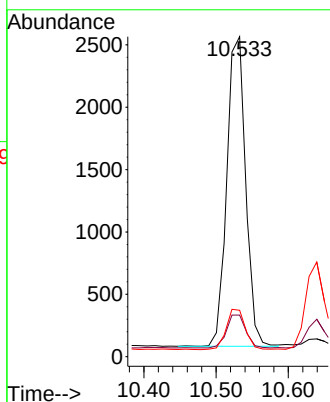
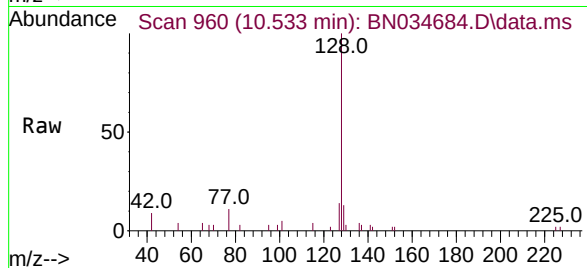




#9
Naphthalene
Concen: 0.102 ng
RT: 10.533 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

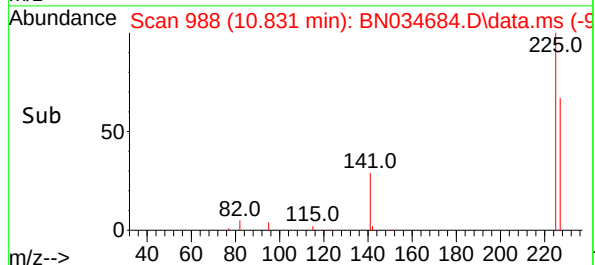
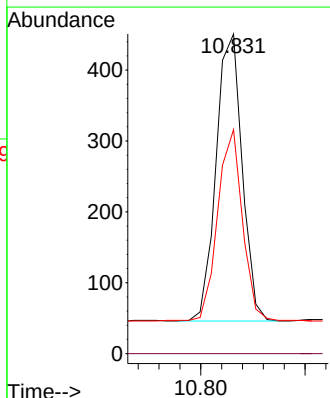
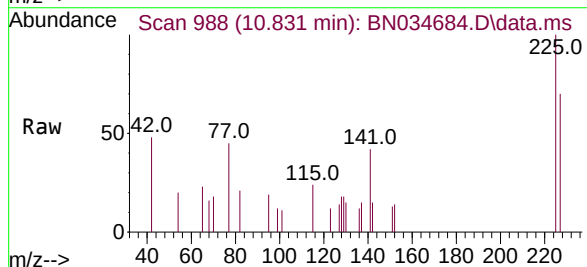
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

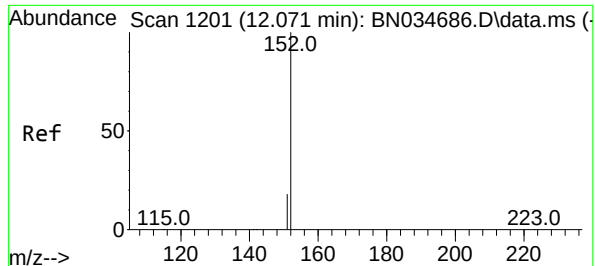
Tgt Ion:128 Resp: 4509
Ion Ratio Lower Upper
128 100
129 13.0 9.0 13.6
127 14.5 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.099 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:225 Resp: 703
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.4 77.0

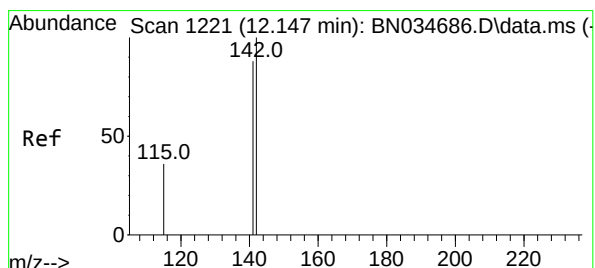
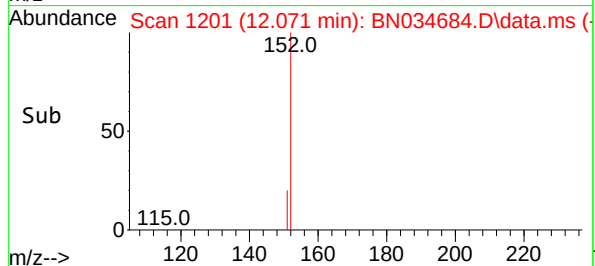
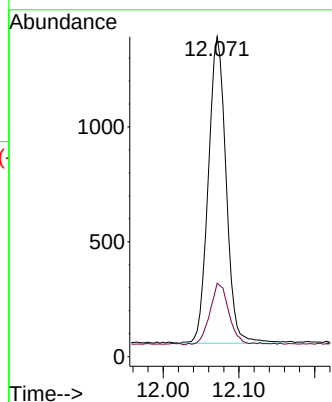
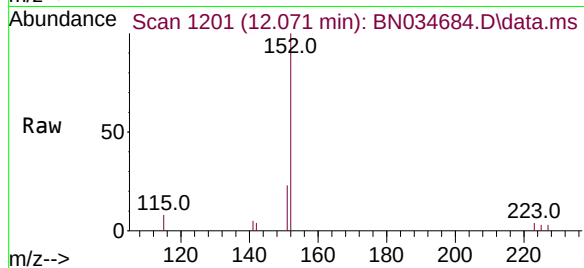




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

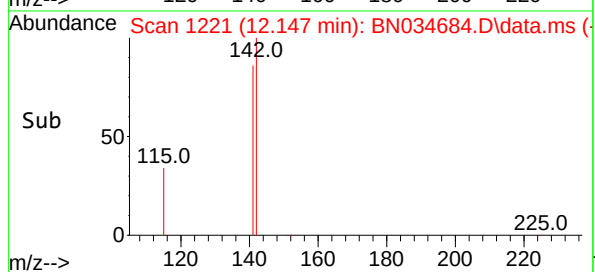
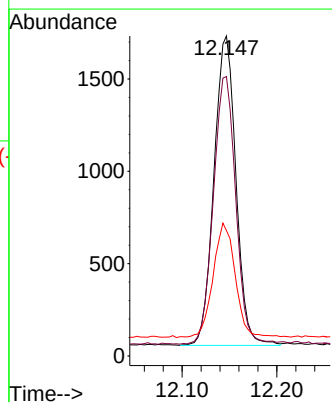
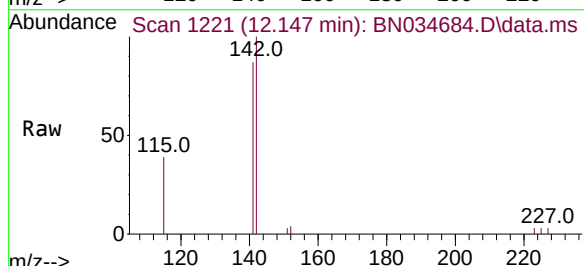
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

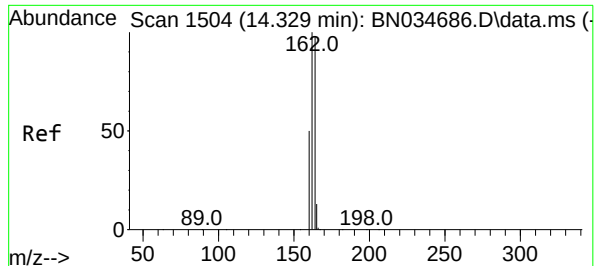
Tgt Ion:152 Resp: 2173
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.097 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:142 Resp: 2704
Ion Ratio Lower Upper
142 100
141 87.3 70.4 105.6
115 39.2 29.8 44.6

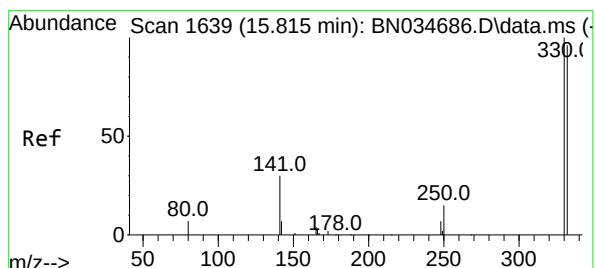
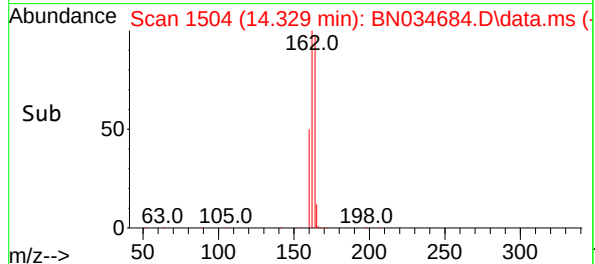
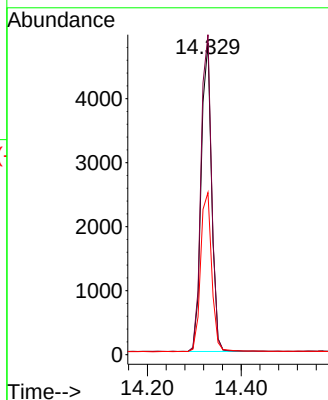
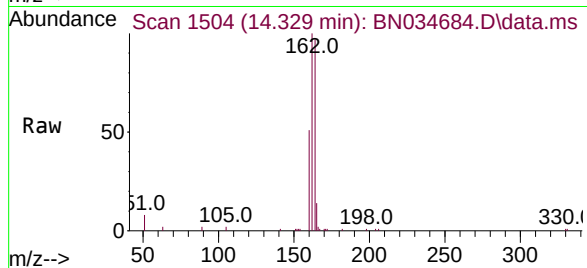




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

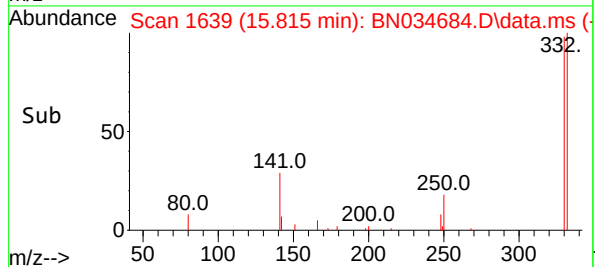
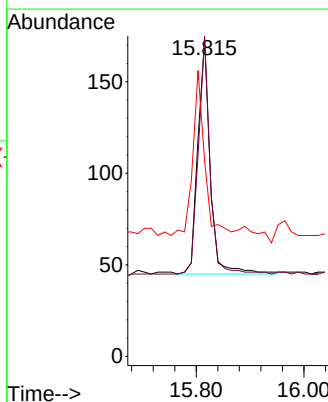
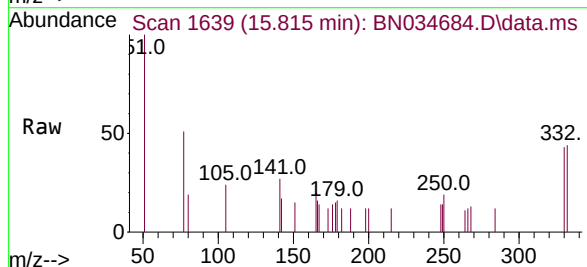
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

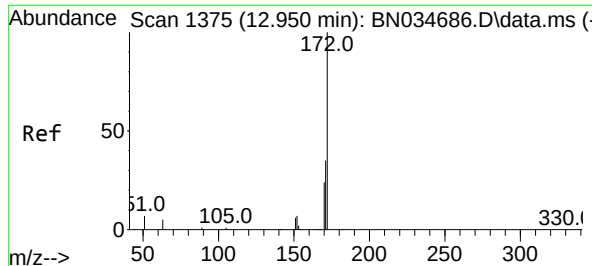
Tgt Ion:164 Resp: 7436
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 52.0 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.065 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:330 Resp: 205
Ion Ratio Lower Upper
330 100
332 95.1 76.6 115.0
141 66.3 54.6 81.8

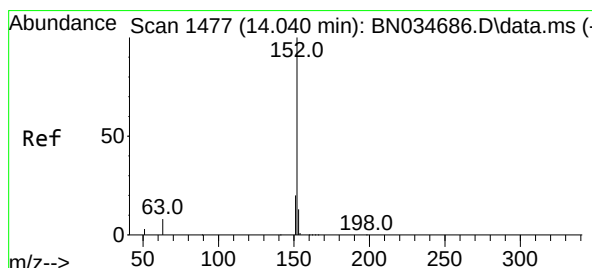
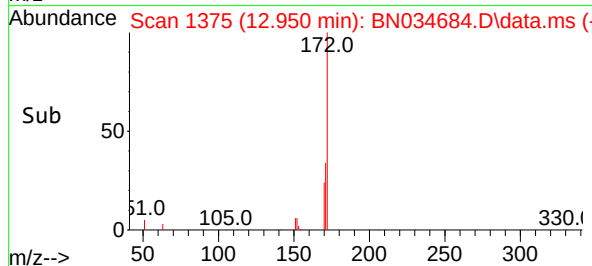
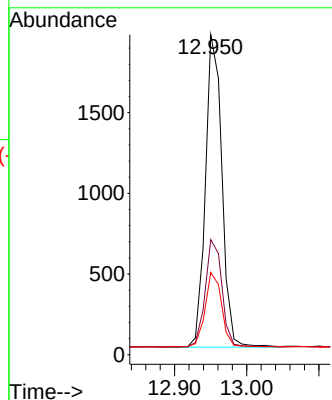
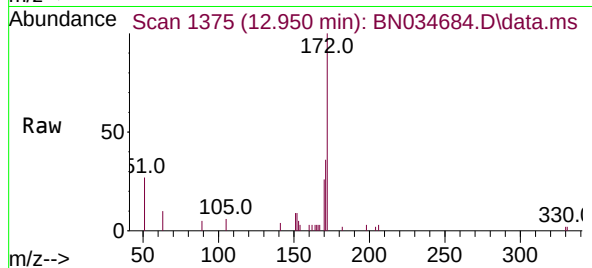




#15
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

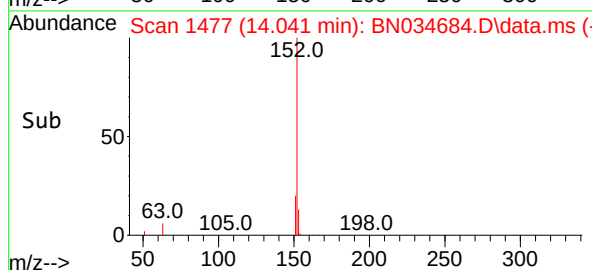
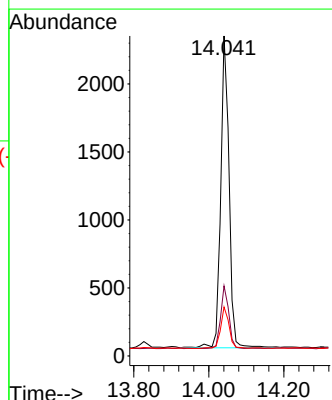
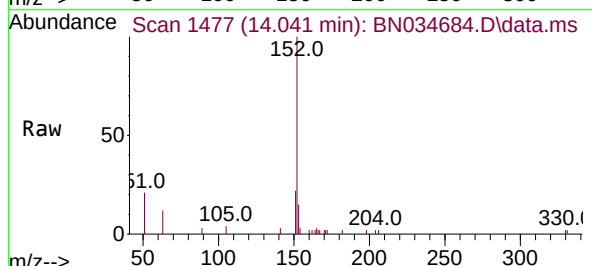
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

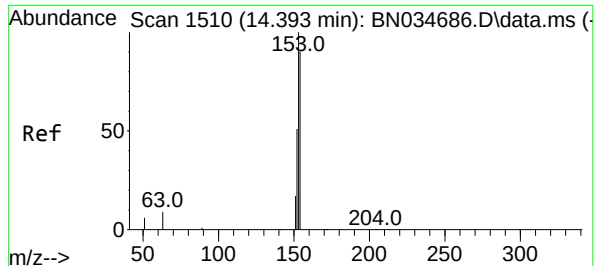
Tgt Ion:	172	Resp:	3087
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.3	42.5
170	25.7	19.8	29.6



#16
Acenaphthylene
Concen: 0.099 ng
RT: 14.041 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:	152	Resp:	3532
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.6	23.4
153	13.5	10.6	15.8

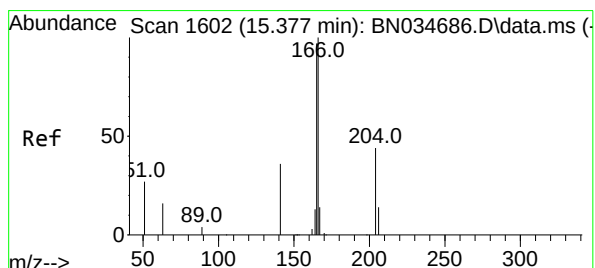
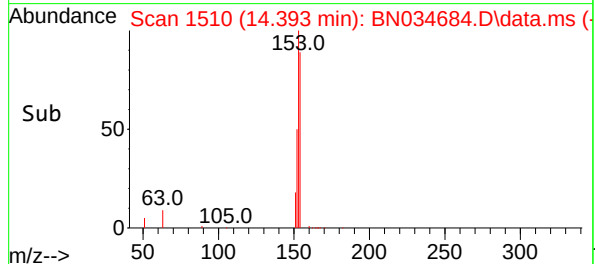
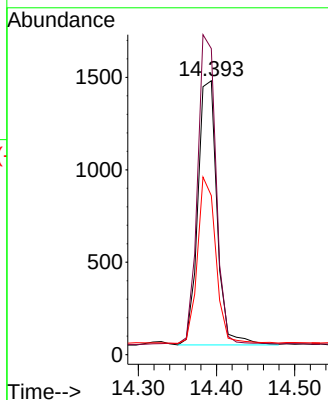
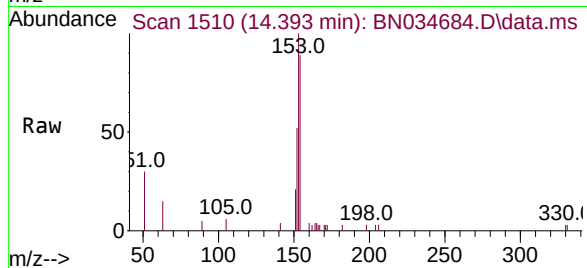




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

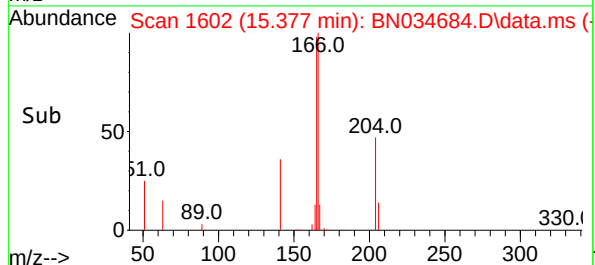
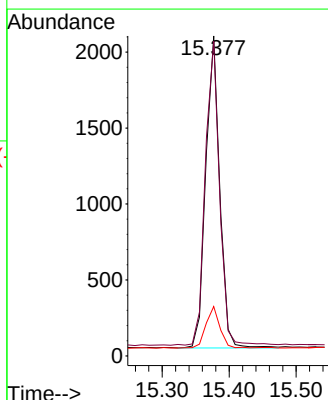
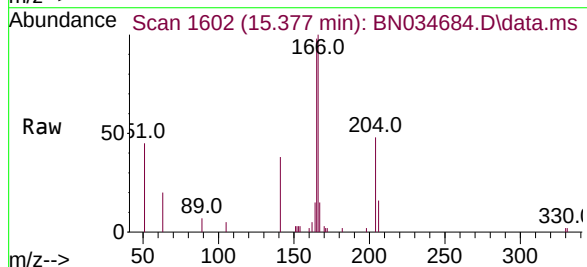
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

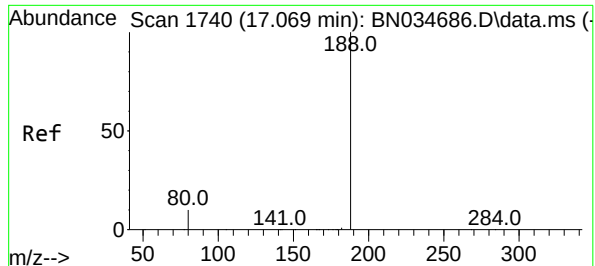
Tgt Ion:154 Resp: 2450
Ion Ratio Lower Upper
154 100
153 113.7 88.2 132.2
152 59.7 46.9 70.3



#18
Fluorene
Concen: 0.098 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:166 Resp: 2971
Ion Ratio Lower Upper
166 100
165 98.5 78.8 118.2
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

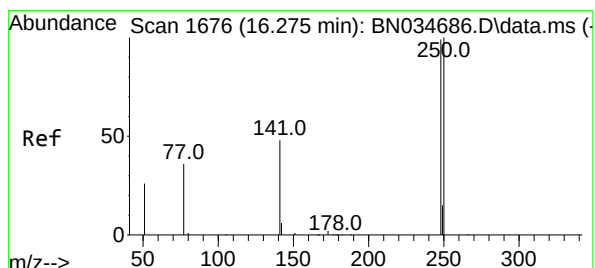
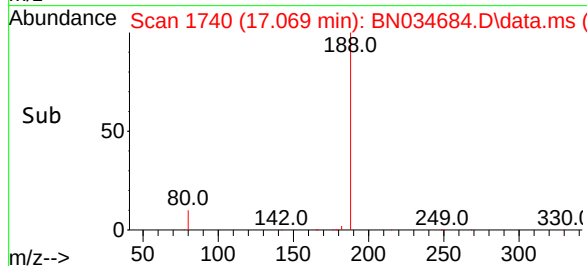
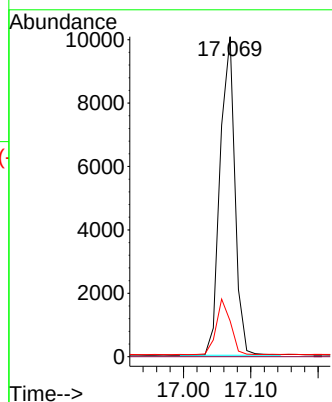
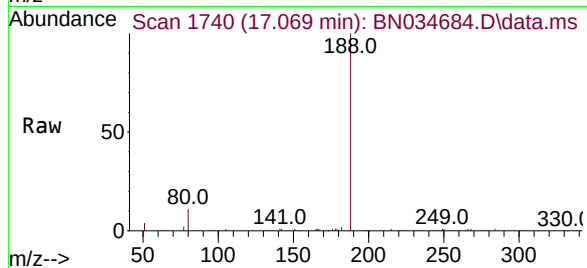
Tgt Ion:188 Resp: 15281

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#21

4-Bromophenyl-phenylether

Concen: 0.099 ng

RT: 16.275 min Scan# 1676

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

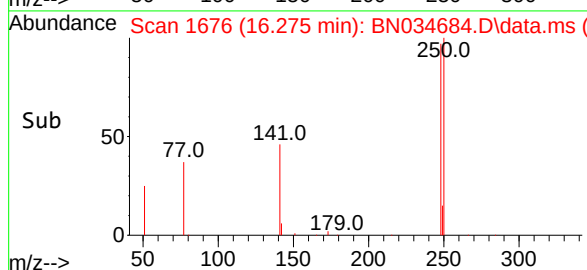
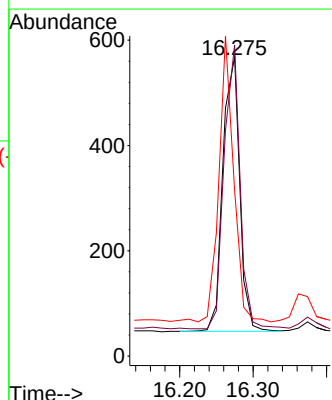
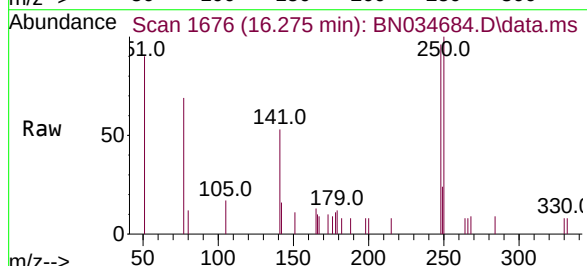
Tgt Ion:248 Resp: 830

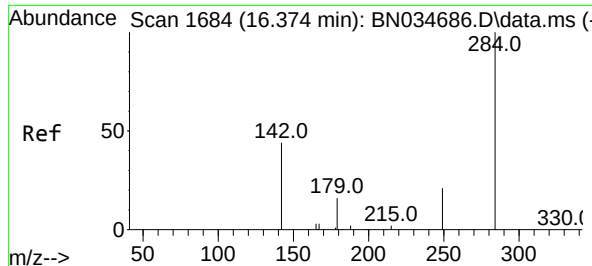
Ion Ratio Lower Upper

248 100

250 104.0 80.9 121.3

141 55.5 40.5 60.7





#22

Hexachlorobenzene

Concen: 0.098 ng

RT: 16.374 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

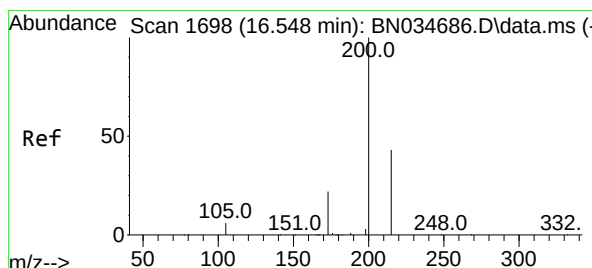
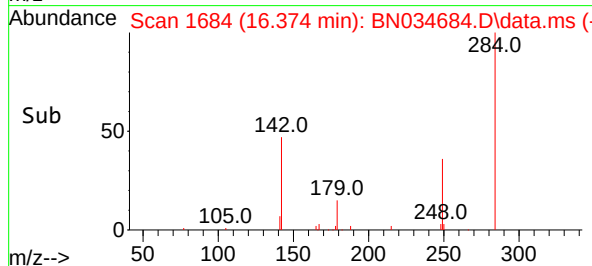
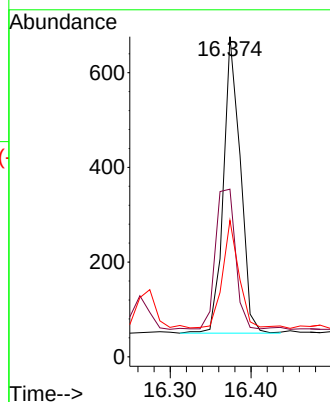
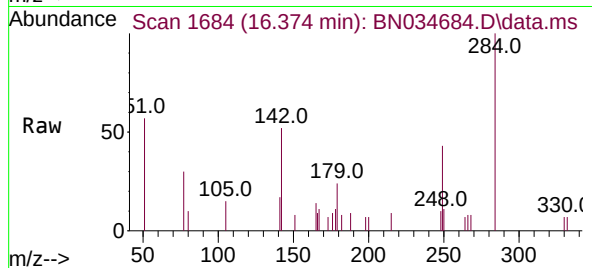
Tgt Ion:284 Resp: 909

Ion Ratio Lower Upper

284 100

142 55.8 43.6 65.4

249 36.0 26.6 40.0



#23

Atrazine

Concen: 0.079 ng

RT: 16.548 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

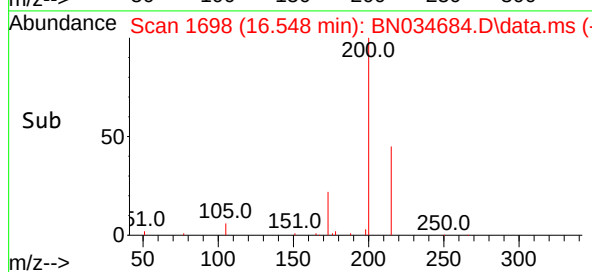
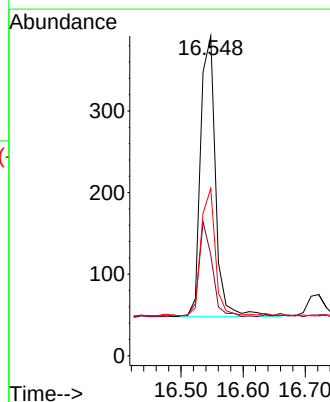
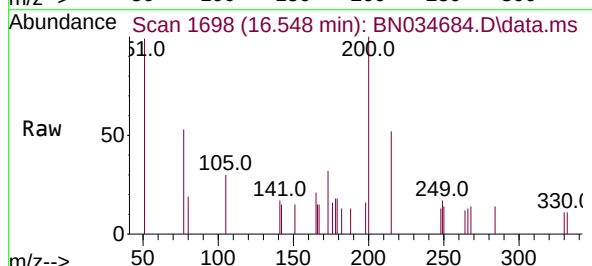
Tgt Ion:200 Resp: 577

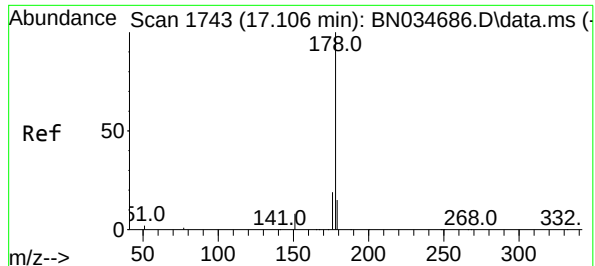
Ion Ratio Lower Upper

200 100

173 31.6 19.7 29.5#

215 52.3 35.7 53.5

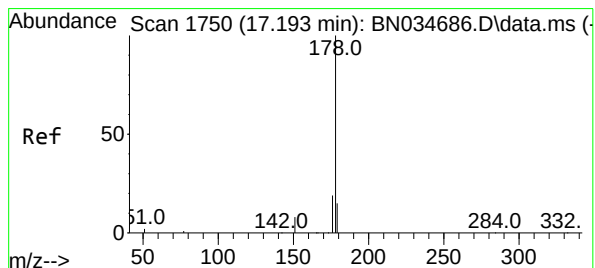
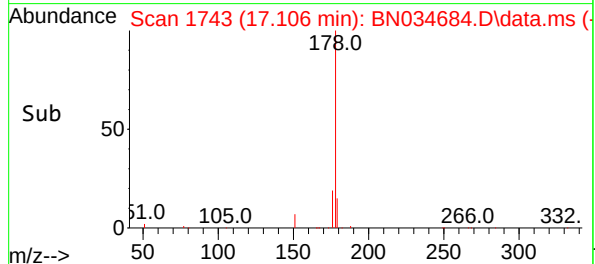
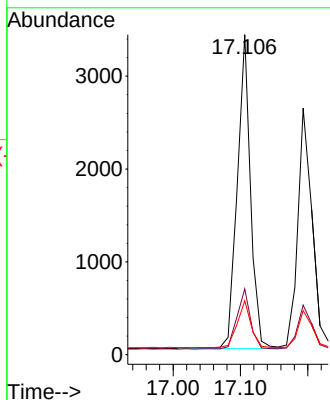
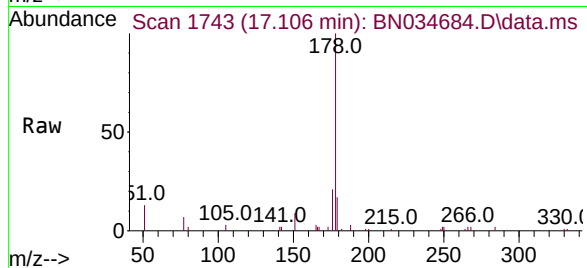




#25
Phenanthrene
Concen: 0.102 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

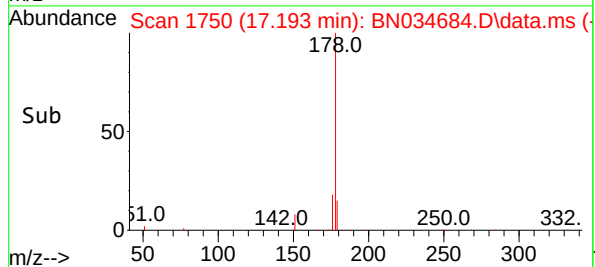
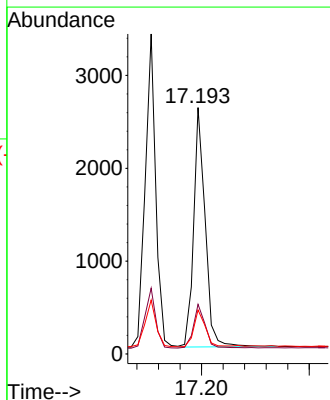
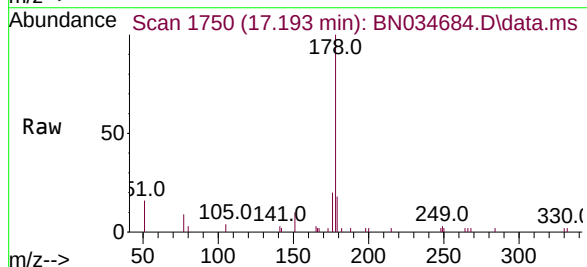
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

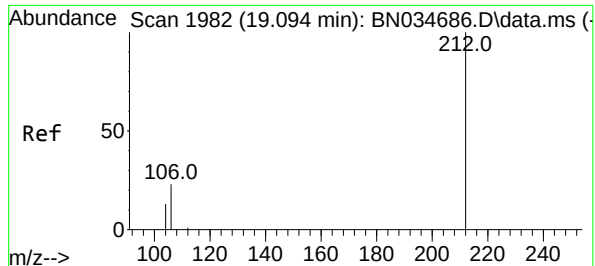
Tgt Ion:178 Resp: 4637
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.095 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:178 Resp: 3843
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

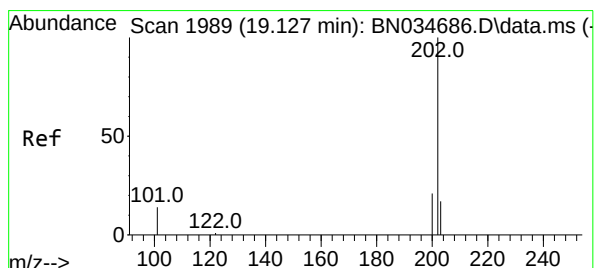
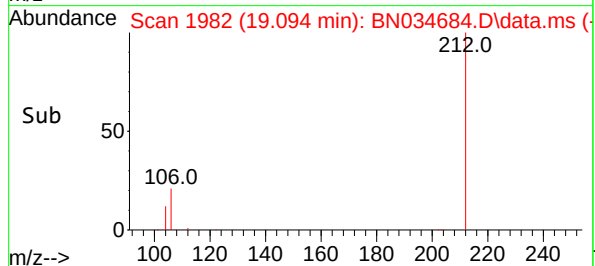
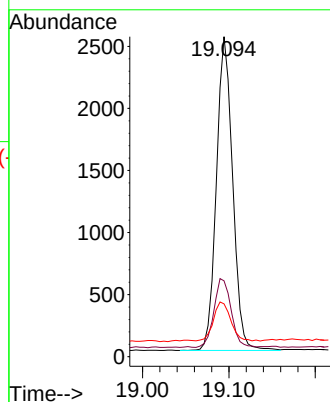
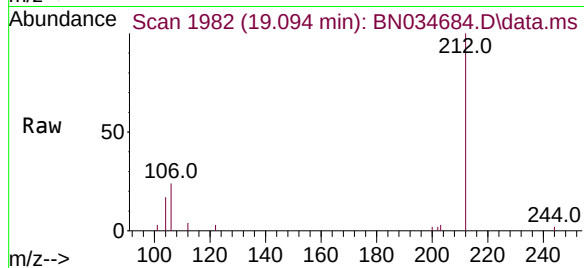
Tgt Ion:212 Resp: 3322

Ion Ratio Lower Upper

212 100

106 23.1 17.8 26.8

104 13.2 10.2 15.4



#28

Fluoranthene

Concen: 0.089 ng

RT: 19.127 min Scan# 1989

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

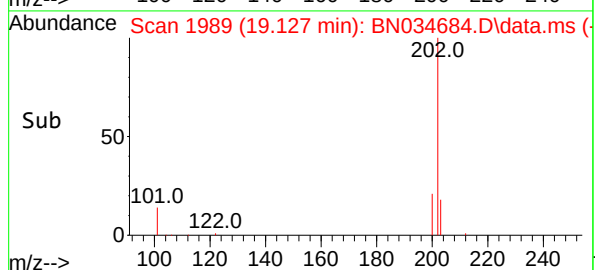
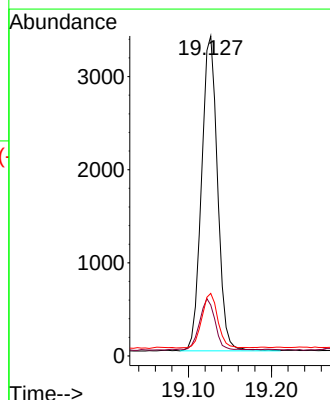
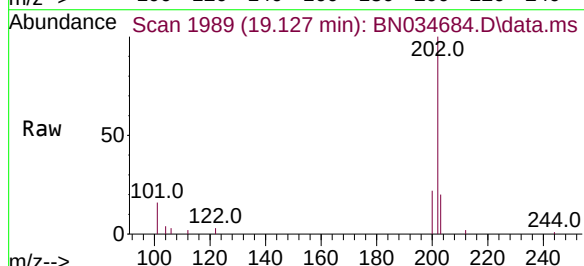
Tgt Ion:202 Resp: 4537

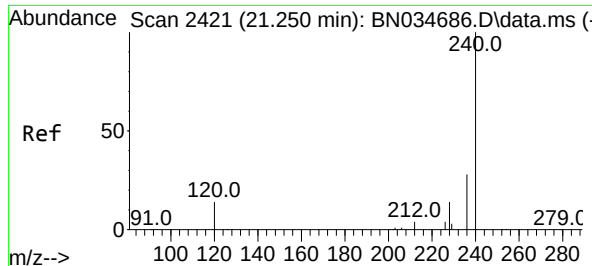
Ion Ratio Lower Upper

202 100

101 15.5 12.8 19.2

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

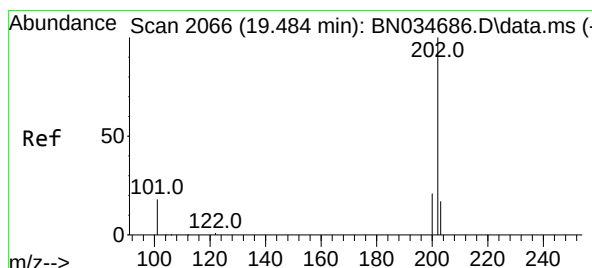
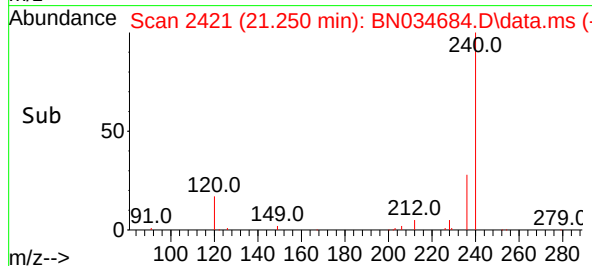
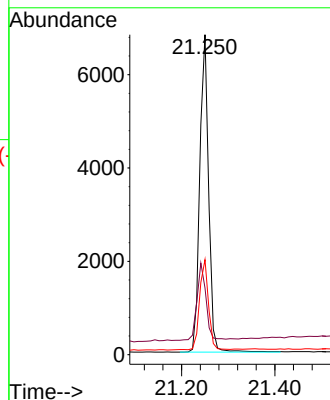
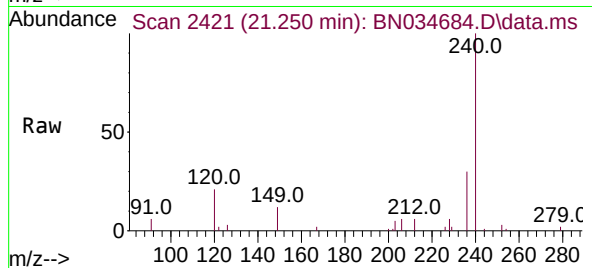
Tgt Ion:240 Resp: 9023

Ion Ratio Lower Upper

240 100

120 20.9 14.2 21.2

236 29.7 23.1 34.7



#30

Pyrene

Concen: 0.116 ng

RT: 19.485 min Scan# 2066

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

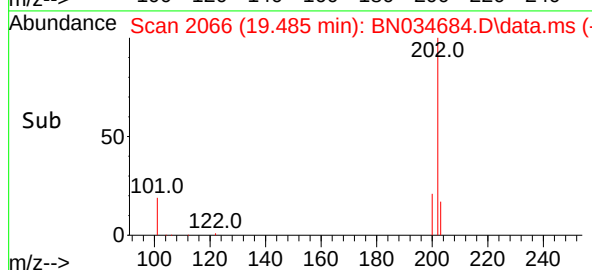
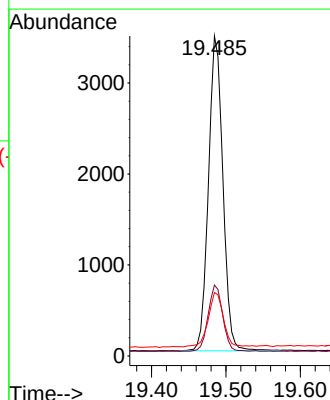
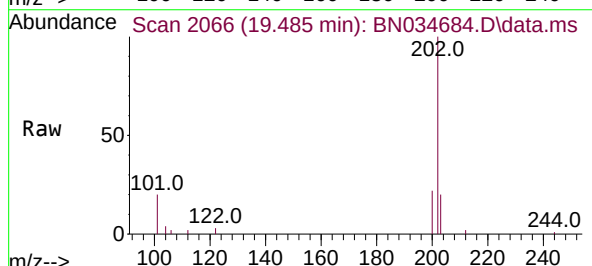
Tgt Ion:202 Resp: 4660

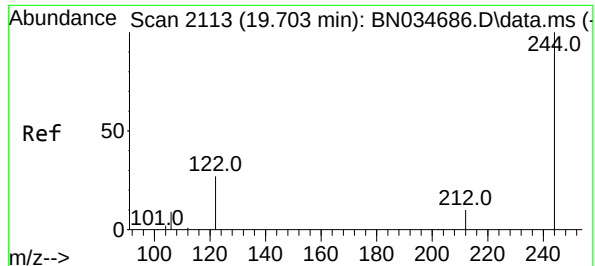
Ion Ratio Lower Upper

202 100

200 21.1 16.6 25.0

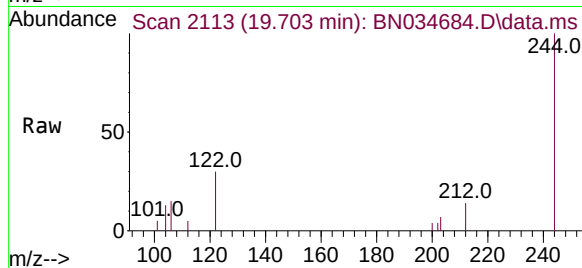
203 18.3 14.2 21.4



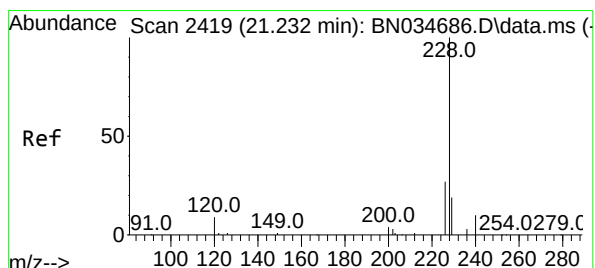
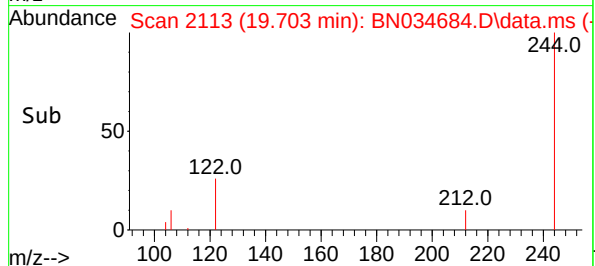
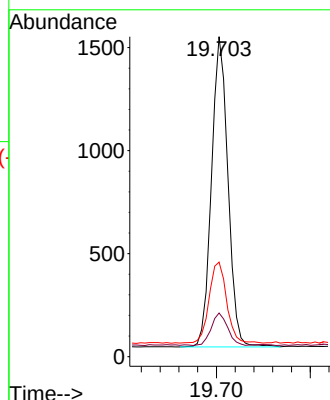


#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

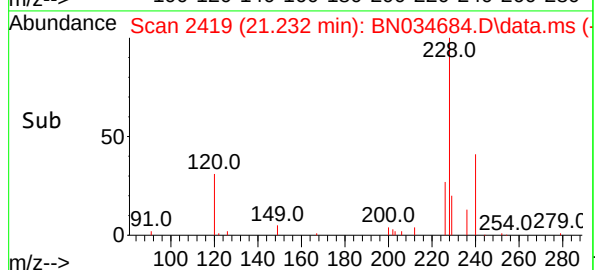
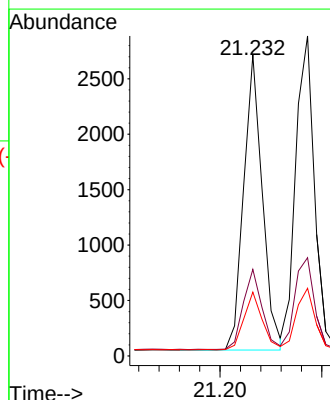
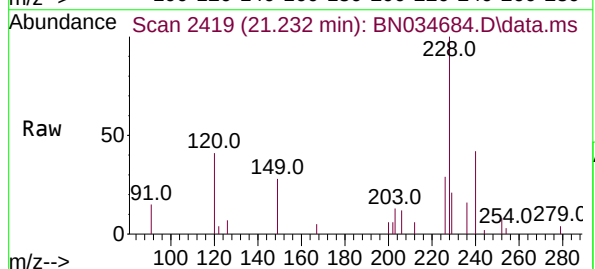


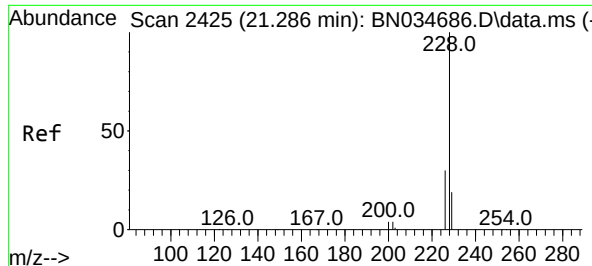
Tgt Ion:244 Resp: 1833
Ion Ratio Lower Upper
244 100
212 13.7 8.6 13.0#
122 29.6 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.099 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

Tgt Ion:228 Resp: 3389
Ion Ratio Lower Upper
228 100
226 28.7 22.0 33.0
229 21.2 15.6 23.4





#33

Chrysene

Concen: 0.109 ng

RT: 21.286 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

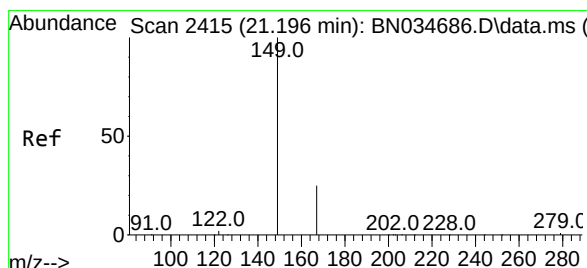
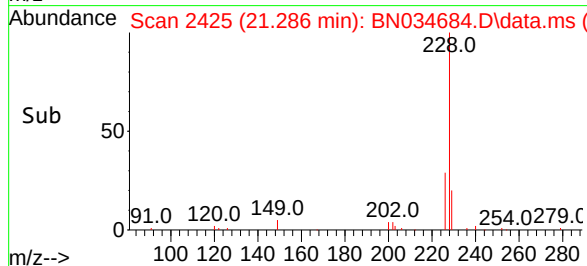
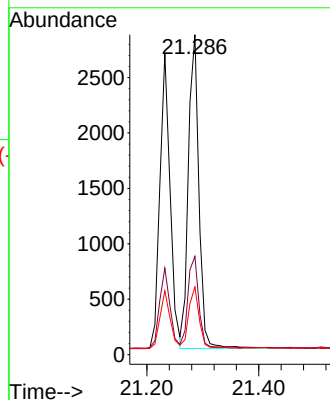
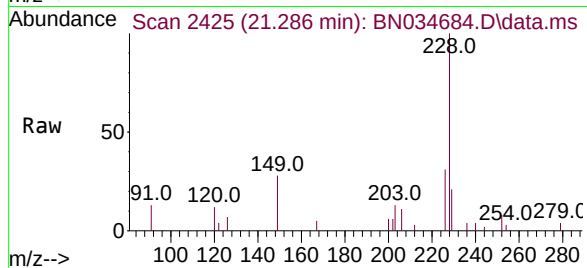
Tgt Ion:228 Resp: 3705

Ion Ratio Lower Upper

228 100

226 30.7 24.1 36.1

229 21.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.087 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

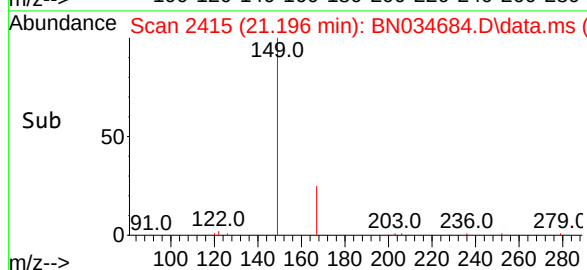
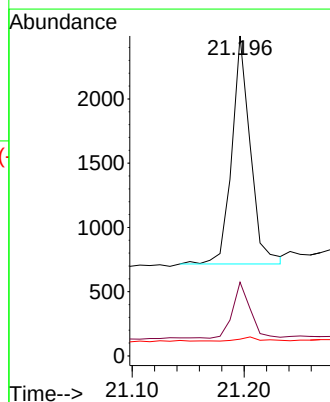
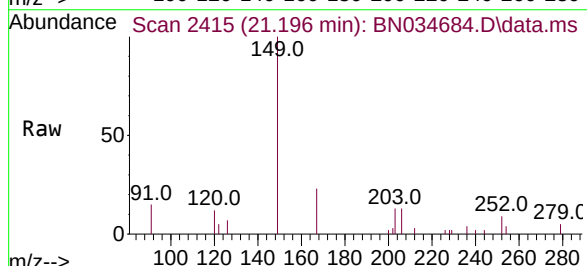
Tgt Ion:149 Resp: 2033

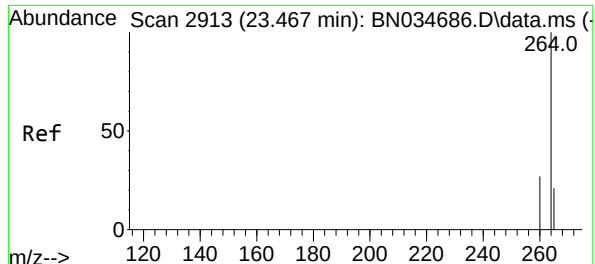
Ion Ratio Lower Upper

149 100

167 23.0 19.7 29.5

279 1.7 1.8 2.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

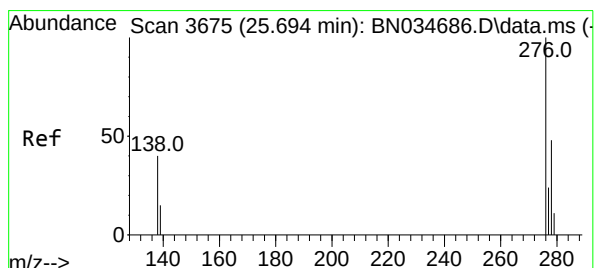
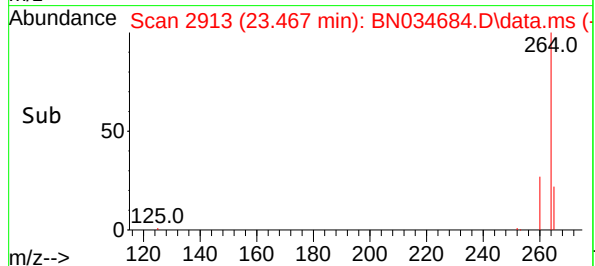
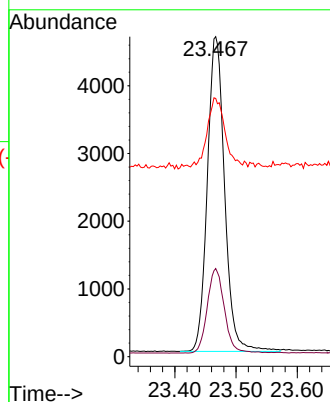
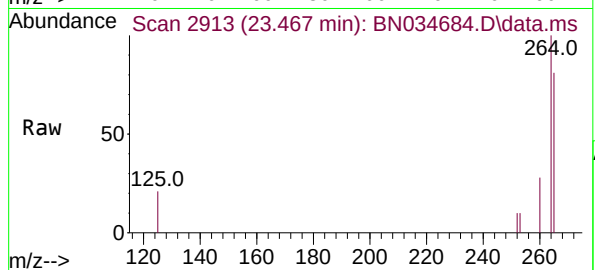
Tgt Ion:264 Resp: 9104

Ion Ratio Lower Upper

264 100

260 27.6 21.9 32.9

265 80.7 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.101 ng

RT: 25.695 min Scan# 3675

Delta R.T. 0.000 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

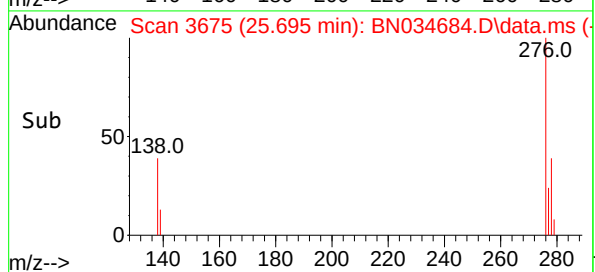
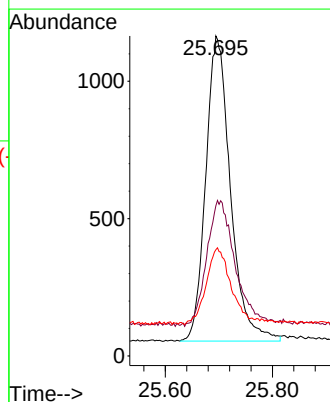
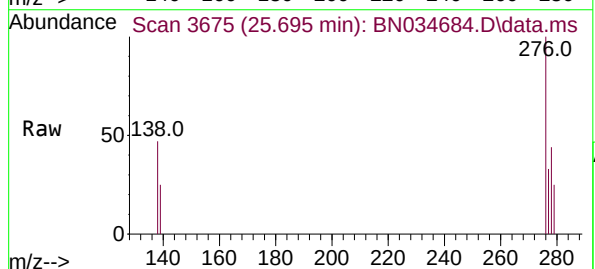
Tgt Ion:276 Resp: 3556

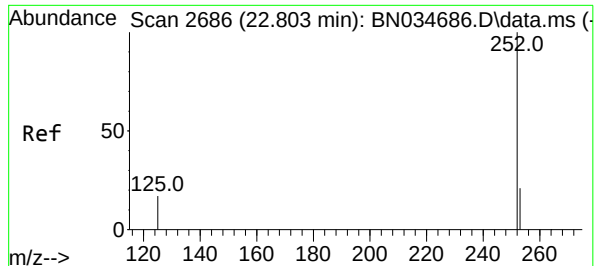
Ion Ratio Lower Upper

276 100

138 47.7 35.1 52.7

277 25.1 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.107 ng

RT: 22.806 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

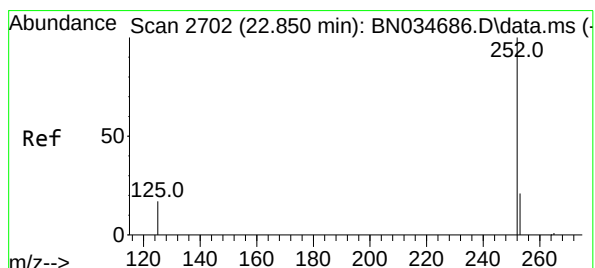
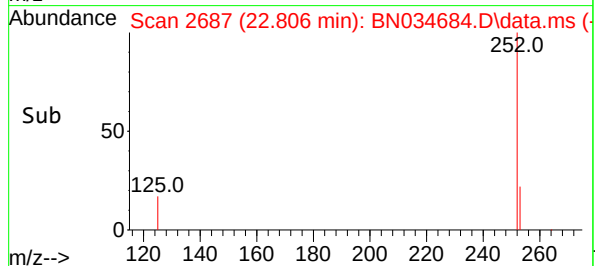
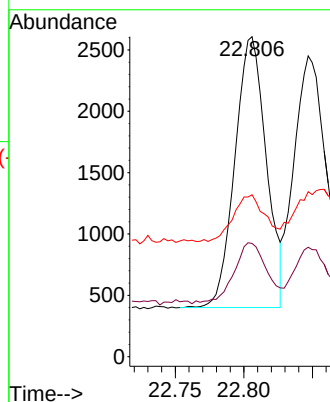
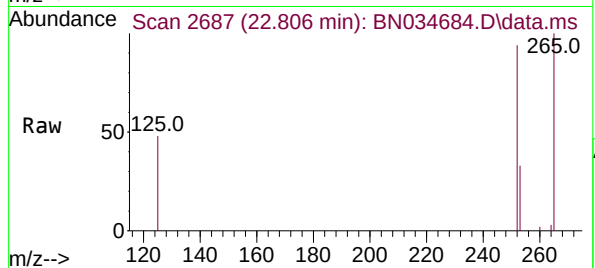
Tgt Ion:252 Resp: 3512

Ion Ratio Lower Upper

252 100

253 35.4 20.0 30.0#

125 50.6 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 0.107 ng

RT: 22.847 min Scan# 2701

Delta R.T. -0.003 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

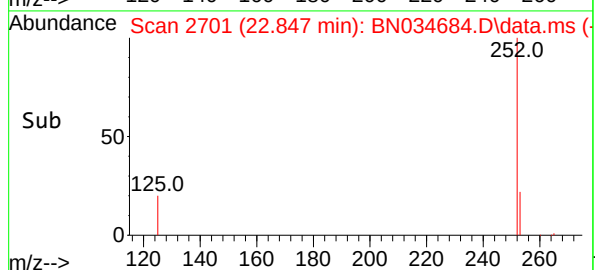
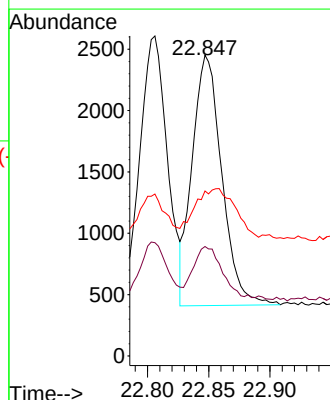
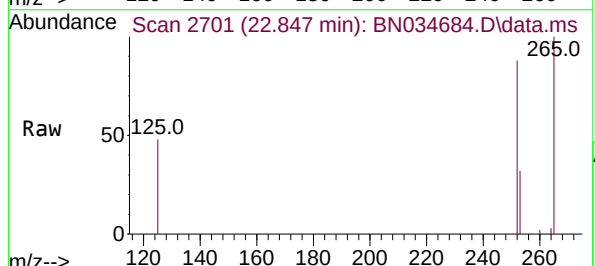
Tgt Ion:252 Resp: 3438

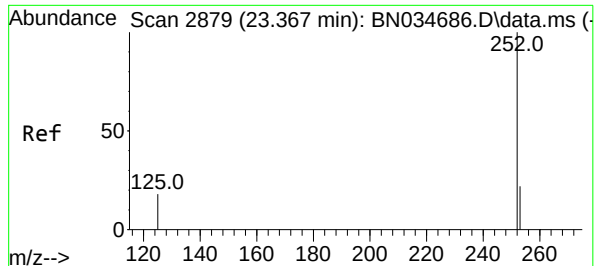
Ion Ratio Lower Upper

252 100

253 36.4 20.6 31.0#

125 54.9 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 0.098 ng

RT: 23.370 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

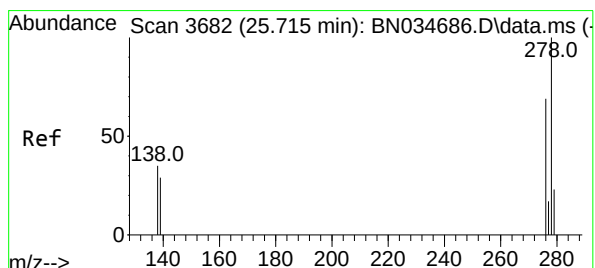
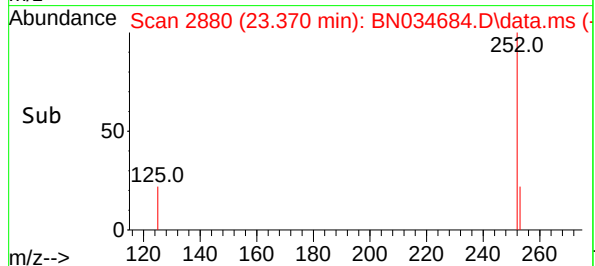
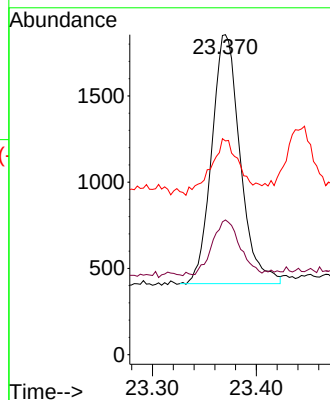
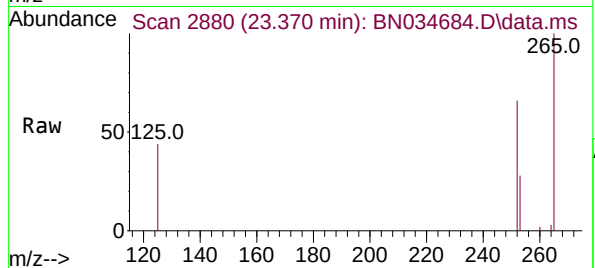
Tgt Ion:252 Resp: 2737

Ion Ratio Lower Upper

252 100

253 42.1 22.2 33.4#

125 66.8 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.102 ng

RT: 25.718 min Scan# 3683

Delta R.T. 0.003 min

Lab File: BN034684.D

Acq: 24 Oct 2024 09:11

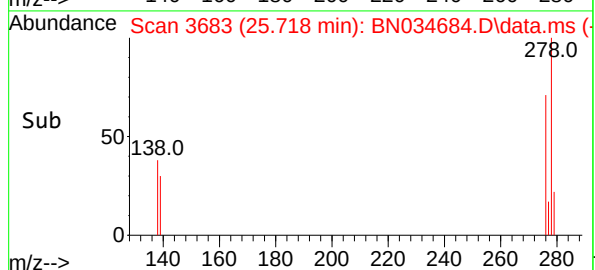
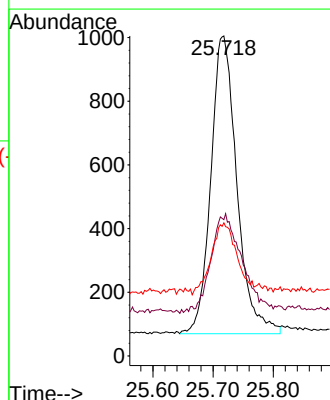
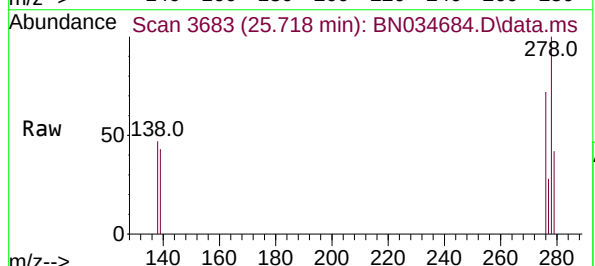
Tgt Ion:278 Resp: 2812

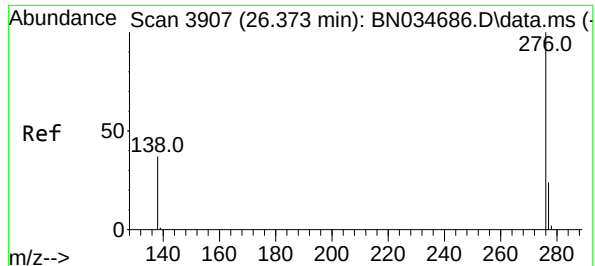
Ion Ratio Lower Upper

278 100

139 42.6 25.4 38.2#

279 41.6 22.4 33.6#





#41

Benzo(g,h,i)perylene

Concen: 0.105 ng

RT: 26.370 min Scan# 3906

Delta R.T. -0.003 min

Lab File: BN034684.D

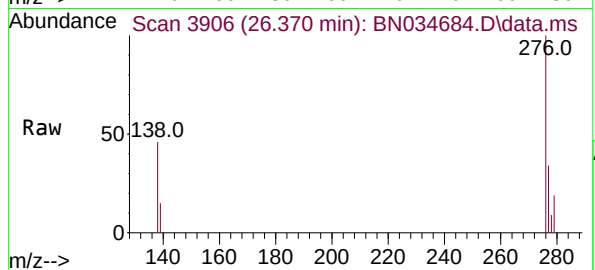
Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



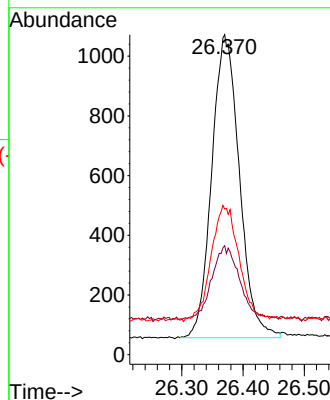
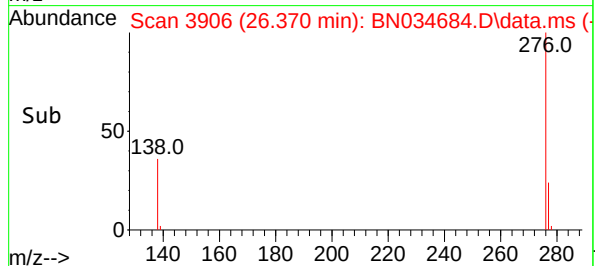
Tgt Ion:276 Resp: 3179

Ion Ratio Lower Upper

276 100

277 34.0 21.3 31.9#

138 45.5 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034685.D
 Acq On : 24 Oct 2024 09:47
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 24 12:42:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

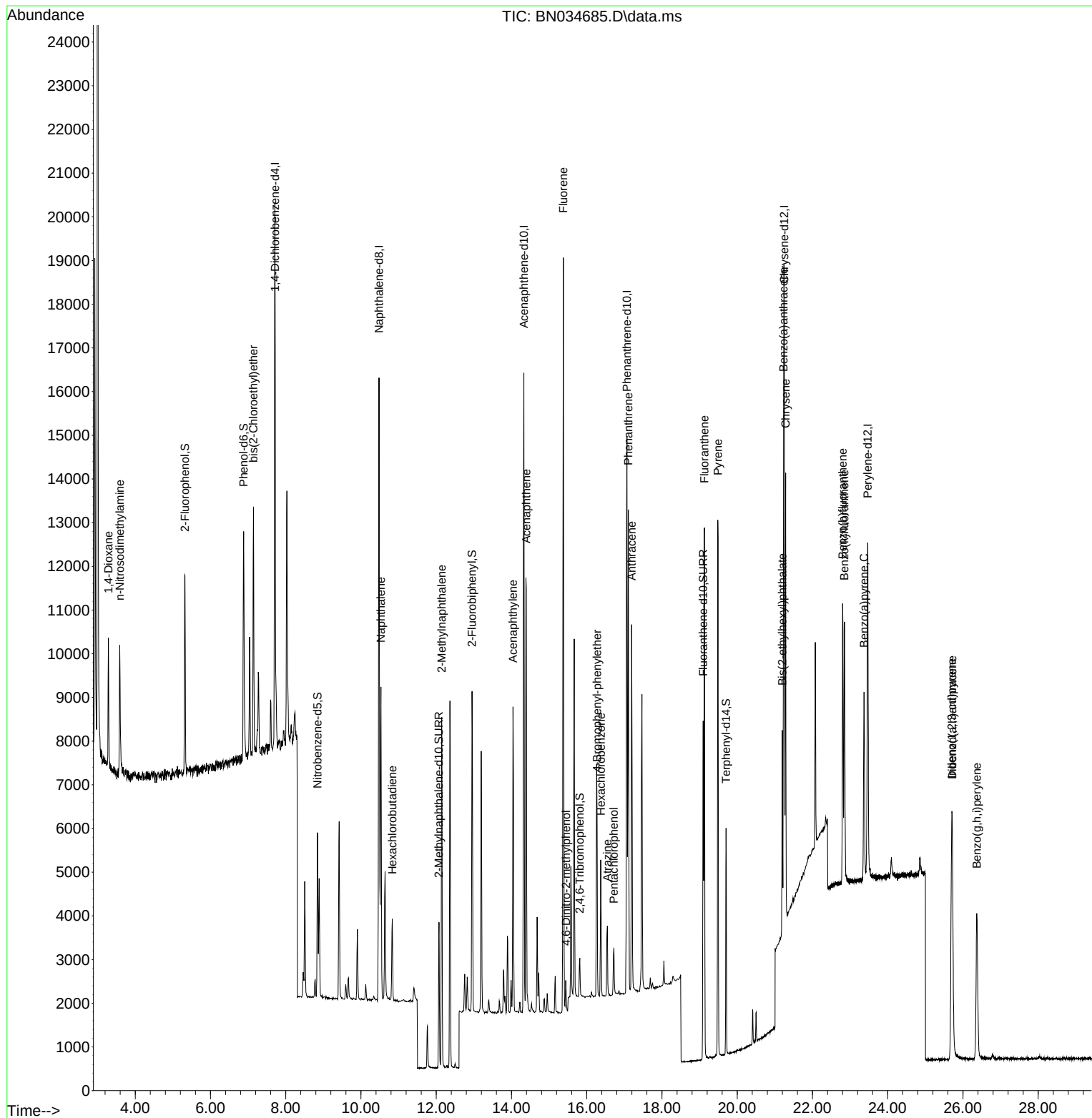
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	17008	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	8253	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	17136	0.400	ng	0.00
29) Chrysene-d12	21.250	240	10548	0.400	ng	0.00
35) Perylene-d12	23.467	264	9753	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	3519	0.196	ng	0.00
5) Phenol-d6	6.882	99	4551	0.199	ng	0.00
8) Nitrobenzene-d5	8.845	82	2747	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	4541	0.190	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	486	0.139	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	6506	0.200	ng	0.00
27) Fluoranthene-d10	19.094	212	7583	0.181	ng	0.00
31) Terphenyl-d14	19.703	244	4203	0.206	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	1652	0.232	ng	93
3) n-Nitrosodimethylamine	3.588	42	2242	0.260	ng	# 97
6) bis(2-Chloroethyl)ether	7.142	93	3752	0.214	ng	100
9) Naphthalene	10.532	128	9353	0.199	ng	98
10) Hexachlorobutadiene	10.831	225	1441	0.192	ng	# 97
12) 2-Methylnaphthalene	12.147	142	5699	0.192	ng	99
16) Acenaphthylene	14.040	152	7676	0.194	ng	99
17) Acenaphthene	14.393	154	5306	0.196	ng	98
18) Fluorene	15.377	166	6638	0.197	ng	99
20) 4,6-Dinitro-2-methylph...	15.452	198	410	0.175	ng	# 58
21) 4-Bromophenyl-phenylether	16.275	248	1806	0.193	ng	99
22) Hexachlorobenzene	16.374	284	2002	0.192	ng	99
23) Atrazine	16.548	200	1350	0.165	ng	94
24) Pentachlorophenol	16.721	266	558	0.137	ng	98
25) Phenanthrene	17.106	178	10352	0.203	ng	100
26) Anthracene	17.193	178	8939	0.196	ng	99
28) Fluoranthene	19.127	202	10471	0.183	ng	100
30) Pyrene	19.484	202	10731	0.228	ng	100
32) Benzo(a)anthracene	21.232	228	7621	0.190	ng	99
33) Chrysene	21.286	228	8267	0.208	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4110	0.150	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.700	276	7054	0.188	ng	98
37) Benzo(b)fluoranthene	22.803	252	7395	0.210	ng	# 88
38) Benzo(k)fluoranthene	22.847	252	7269	0.211	ng	# 89
39) Benzo(a)pyrene	23.370	252	5791	0.193	ng	# 84
40) Dibenzo(a,h)anthracene	25.715	278	5556	0.188	ng	91
41) Benzo(g,h,i)perylene	26.367	276	6274	0.193	ng	97

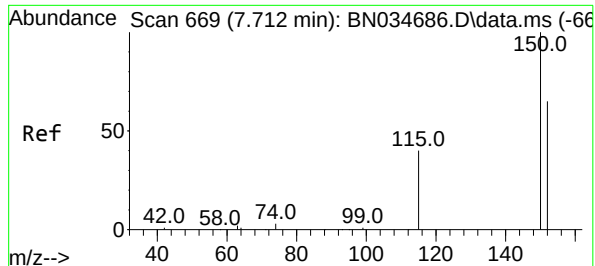
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034685.D
Acq On : 24 Oct 2024 09:47
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 24 12:42:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

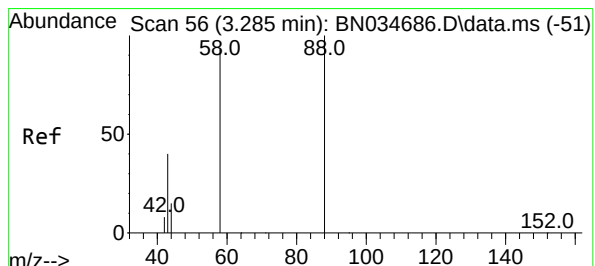
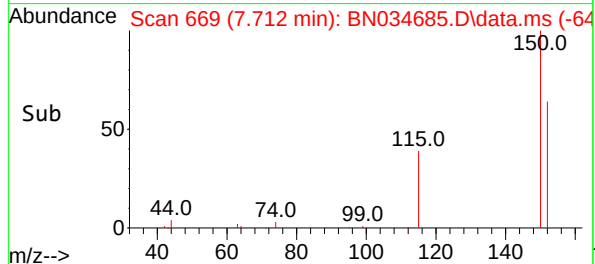
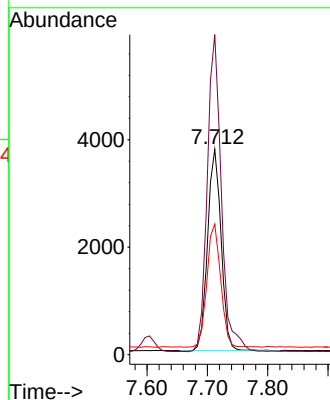
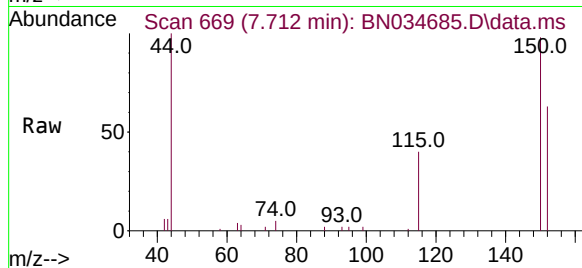




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

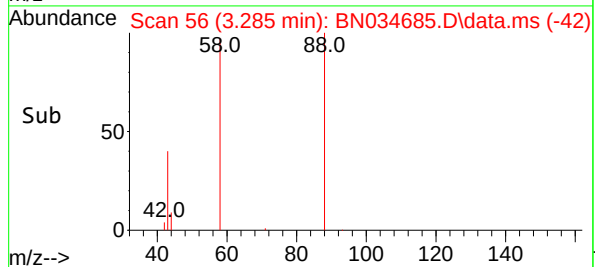
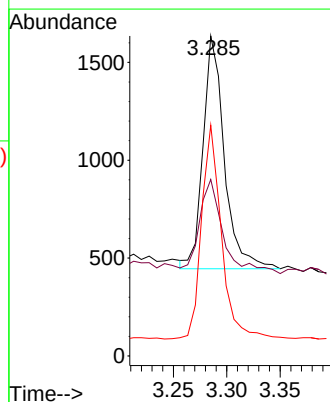
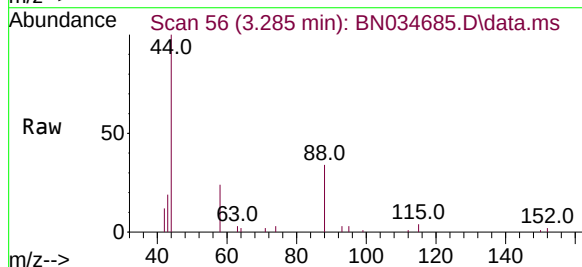
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

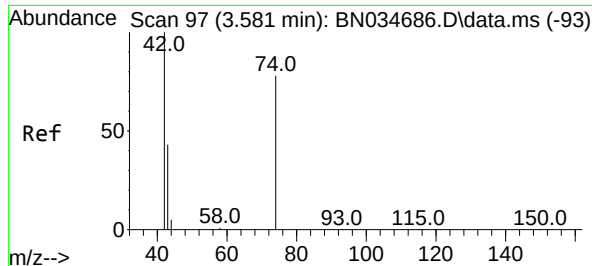
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 155.7 122.7 184.1
115 63.5 51.0 76.6



#2
1,4-Dioxane
Concen: 0.232 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion: 88 Resp: 1652
Ion Ratio Lower Upper
88 100
43 45.2 32.1 48.1
58 85.9 73.7 110.5

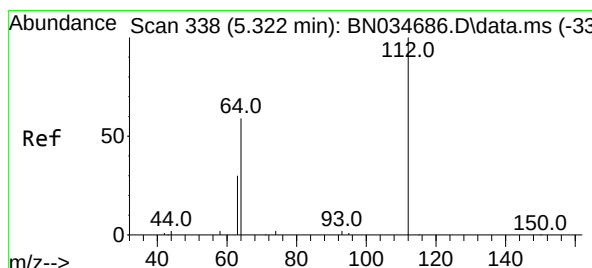
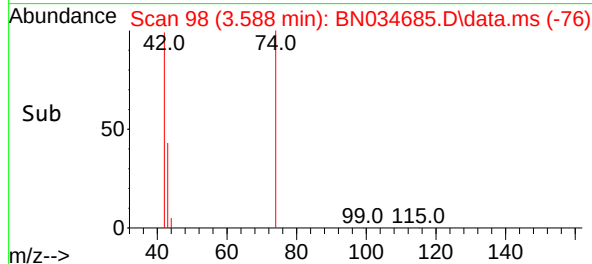
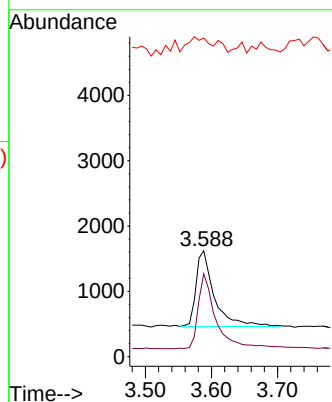
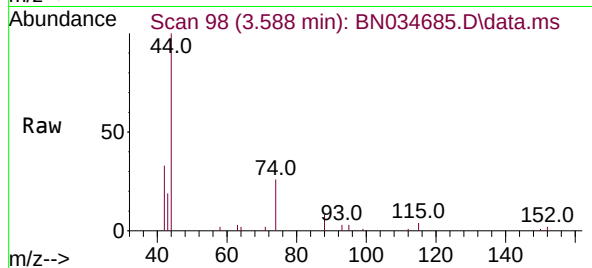




#3
n-Nitrosodimethylamine
Concen: 0.260 ng
RT: 3.588 min Scan# 97
Delta R.T. 0.007 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

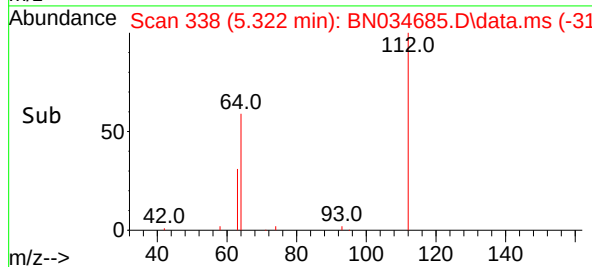
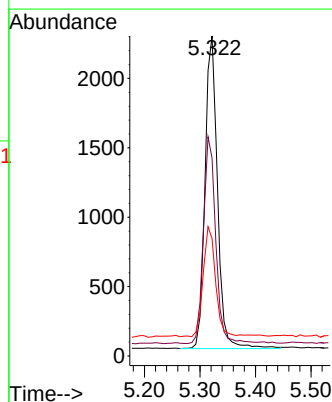
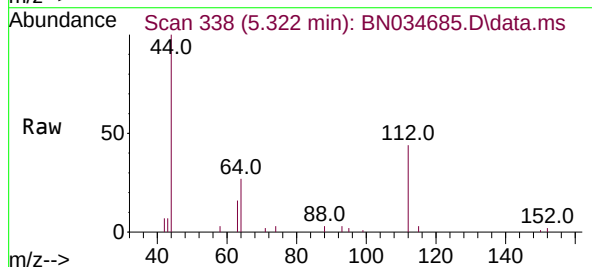
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

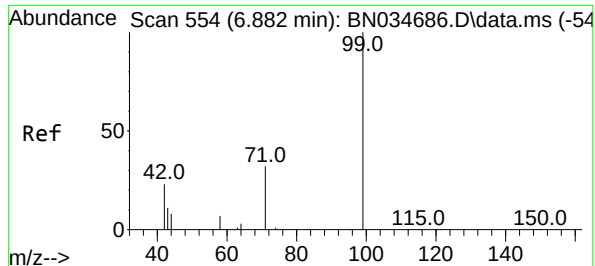
Tgt Ion: 42 Resp: 2242
Ion Ratio Lower Upper
42 100
74 95.2 77.2 115.8
44 21.1 13.4 20.2#



#4
2-Fluorophenol
Concen: 0.196 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion: 112 Resp: 3519
Ion Ratio Lower Upper
112 100
64 65.2 53.0 79.6
63 34.5 27.6 41.4

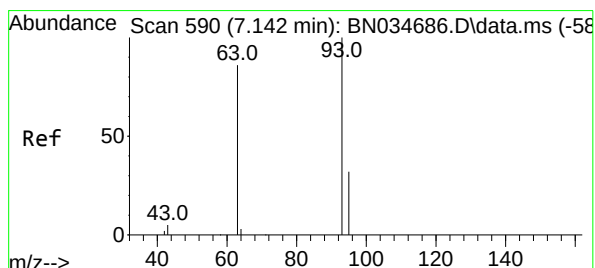
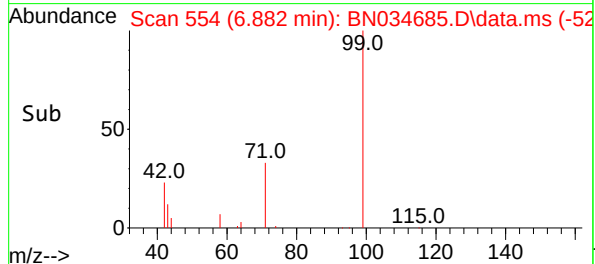
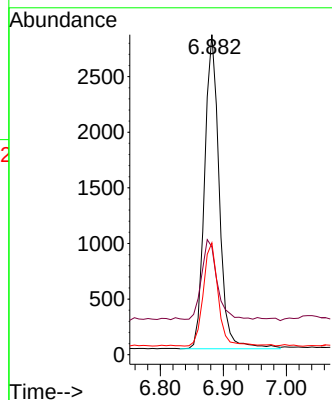
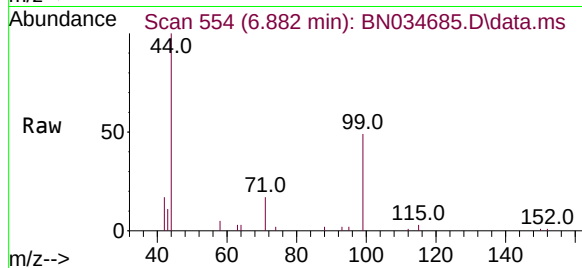




#5
Phenol-d6
Concen: 0.199 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

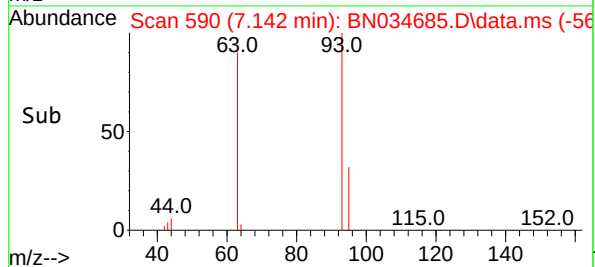
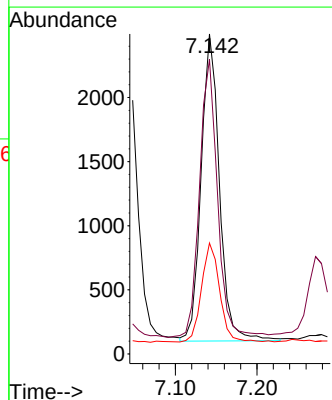
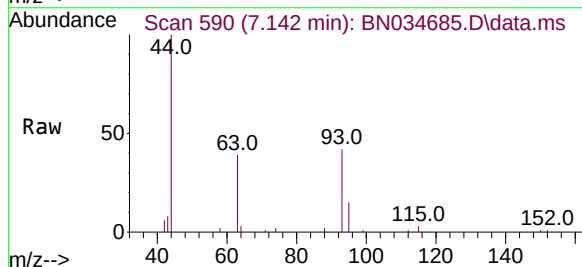
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

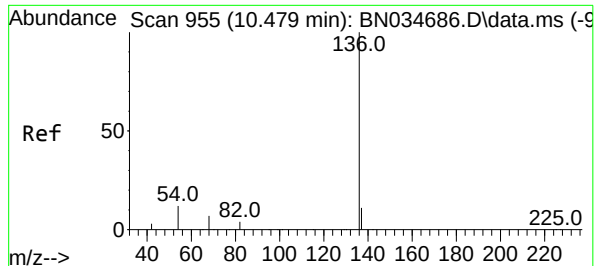
Tgt Ion: 99 Resp: 4551
Ion Ratio Lower Upper
99 100
42 26.6 21.8 32.8
71 33.2 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion: 93 Resp: 3752
Ion Ratio Lower Upper
93 100
63 89.0 71.5 107.3
95 31.9 25.8 38.6

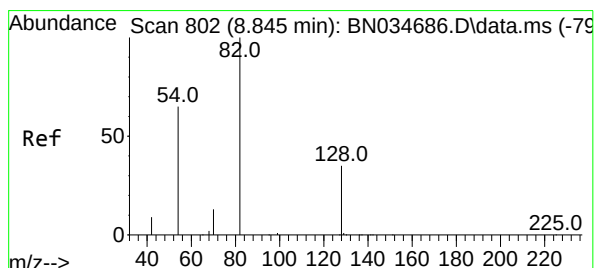
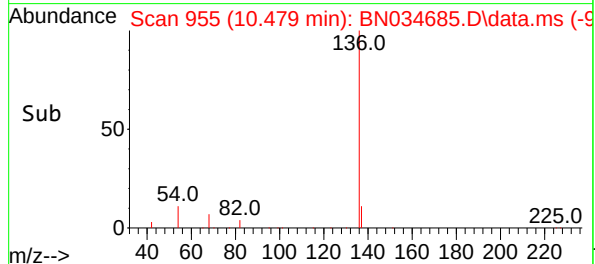
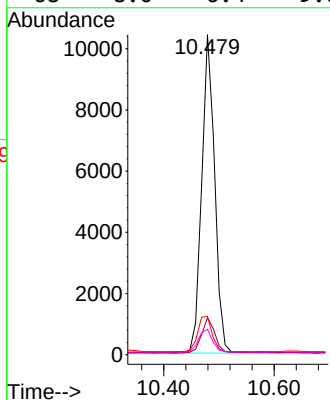
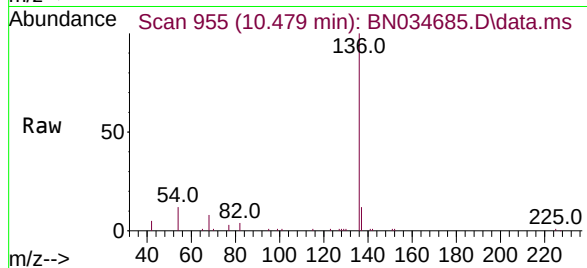




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

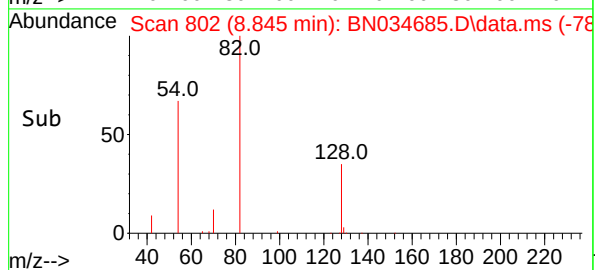
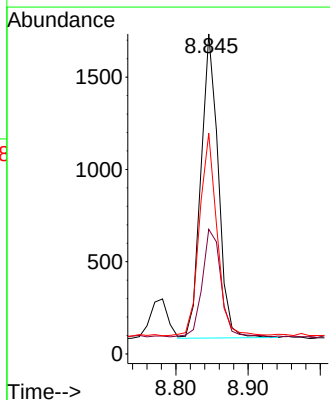
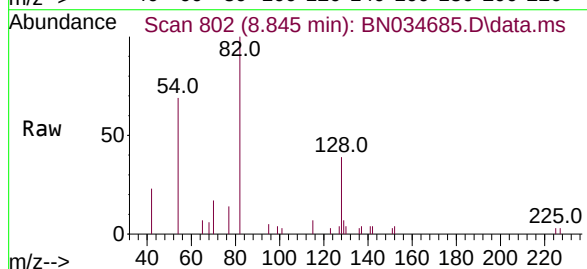
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

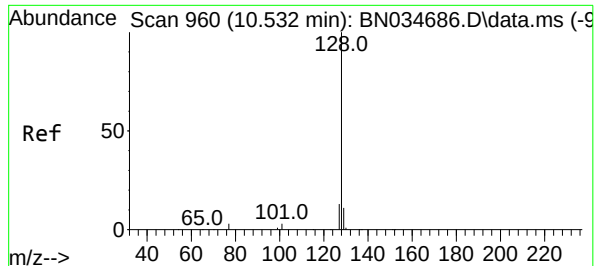
Tgt Ion:	136	Resp:	17008
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	12.0	9.8	14.8
68	8.0	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion:	82	Resp:	2747
Ion	Ratio	Lower	Upper
82	100		
128	38.9	29.7	44.5
54	69.0	53.0	79.6





#9

Naphthalene

Concen: 0.199 ng

RT: 10.532 min Scan# 960

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

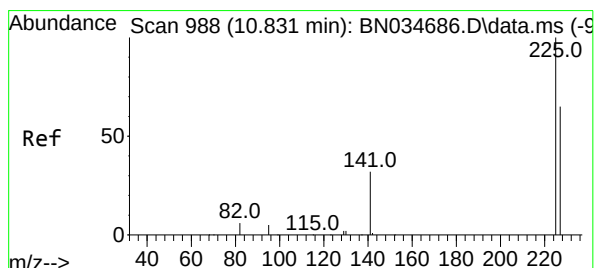
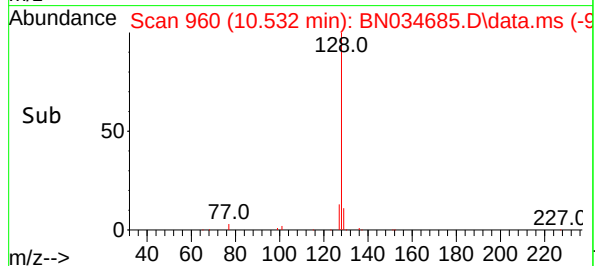
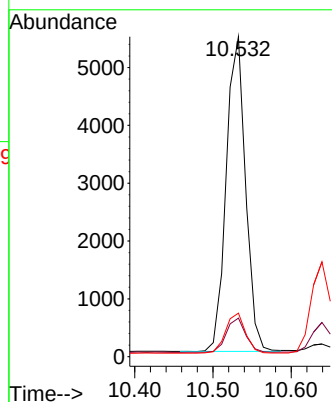
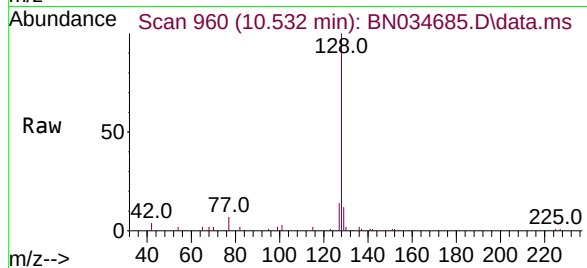
Tgt Ion:128 Resp: 9353

Ion Ratio Lower Upper

128 100

129 12.1 9.0 13.6

127 13.6 10.5 15.7



#10

Hexachlorobutadiene

Concen: 0.192 ng

RT: 10.831 min Scan# 988

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

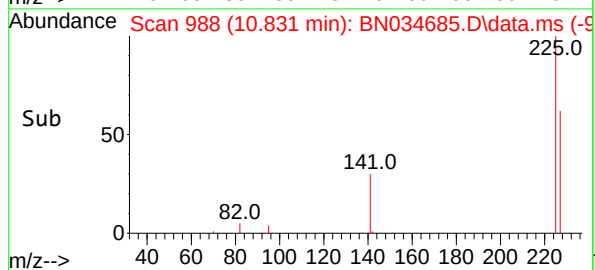
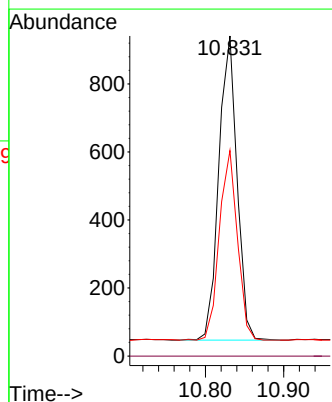
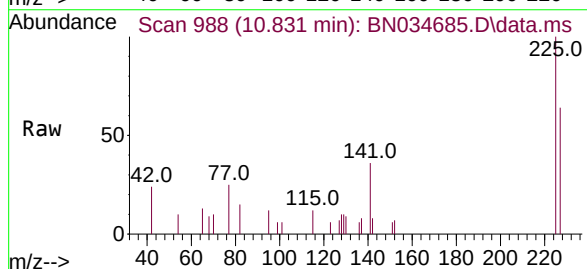
Tgt Ion:225 Resp: 1441

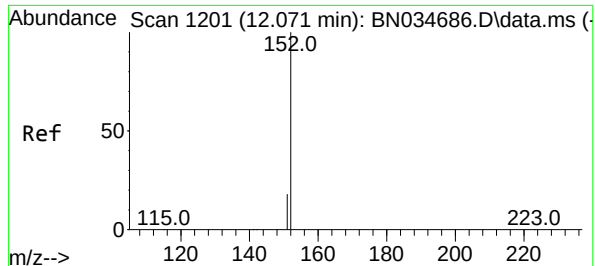
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 61.8 51.4 77.0

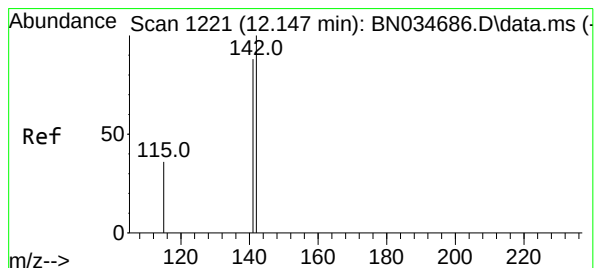
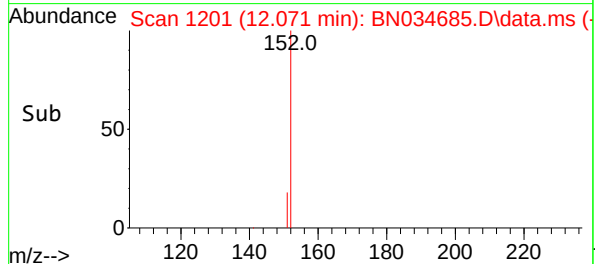
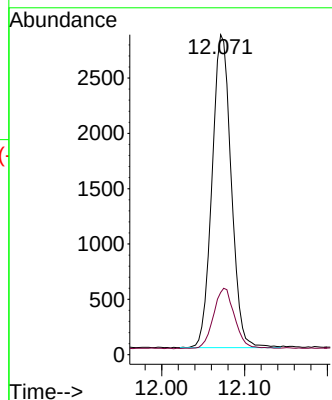
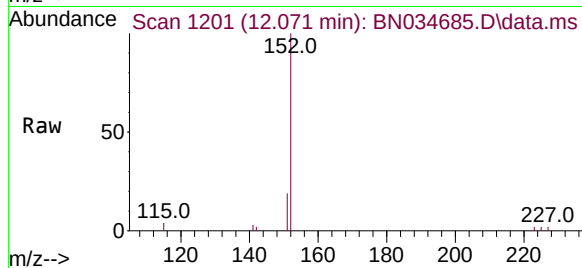




#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

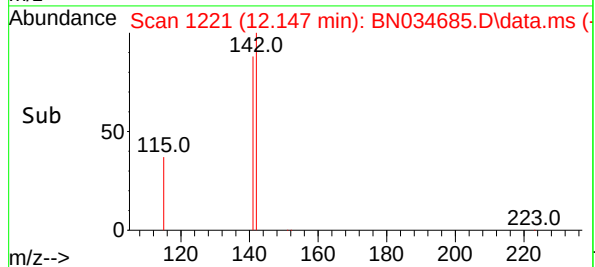
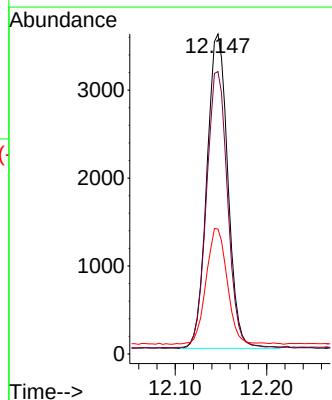
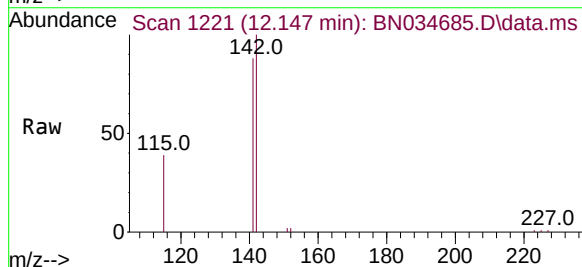
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

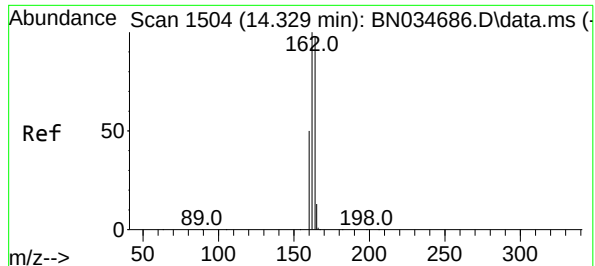
Tgt Ion:152 Resp: 4541
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.192 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion:142 Resp: 5699
Ion Ratio Lower Upper
142 100
141 88.2 70.4 105.6
115 39.1 29.8 44.6

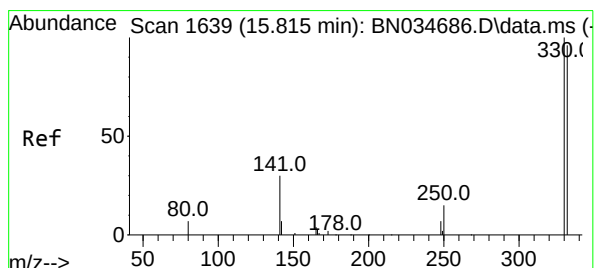
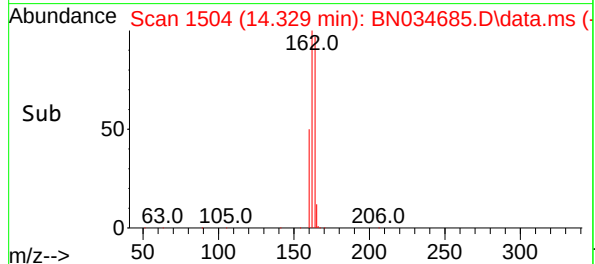
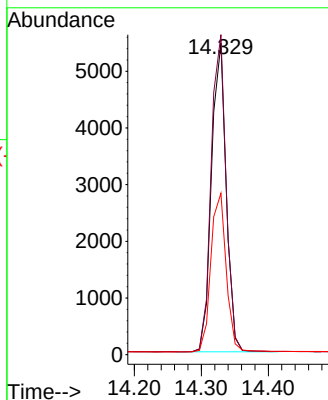
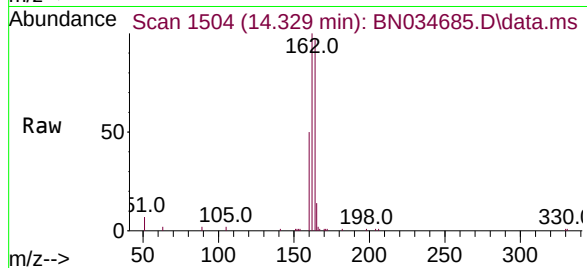




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

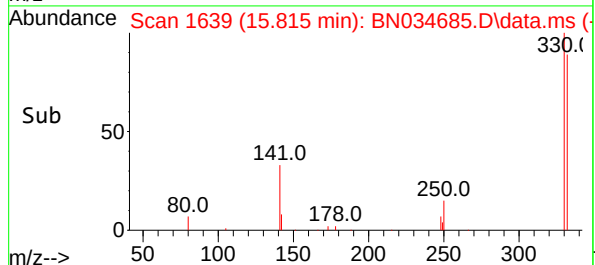
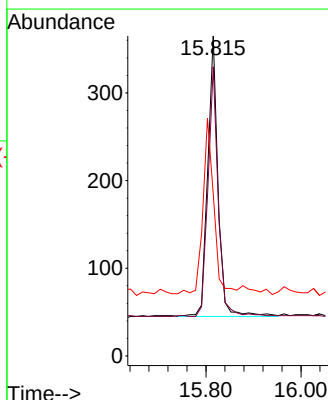
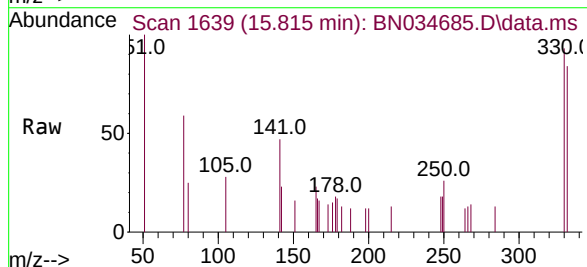
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

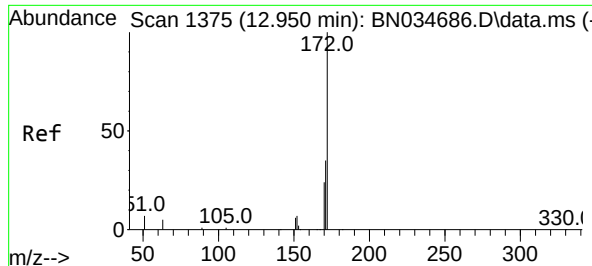
Tgt Ion:164 Resp: 8253
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 51.8 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.139 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion:330 Resp: 486
Ion Ratio Lower Upper
330 100
332 88.7 76.6 115.0
141 65.0 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 0.200 ng

RT: 12.950 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

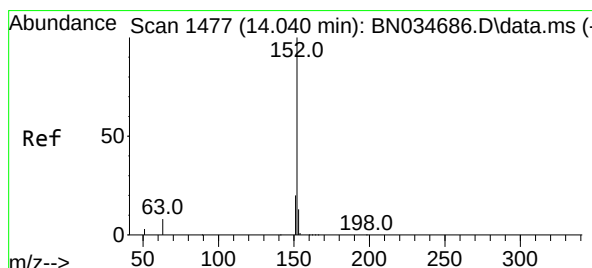
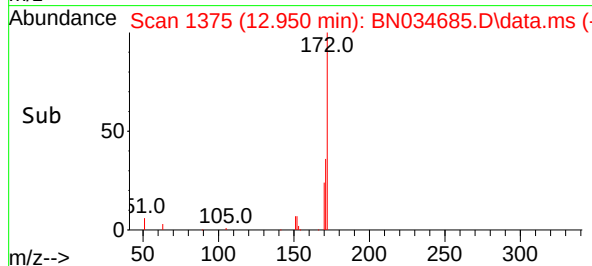
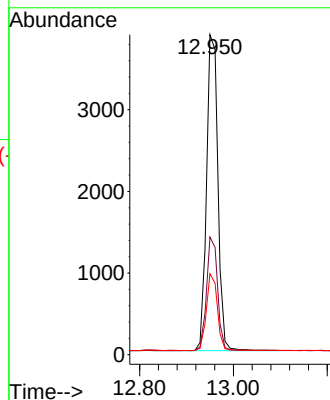
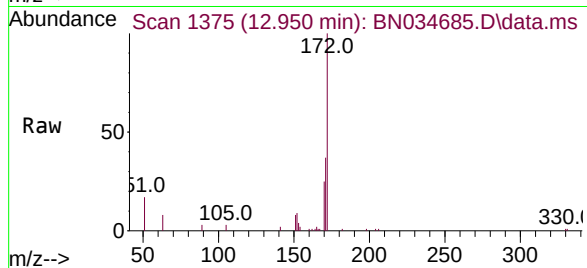
Tgt Ion:172 Resp: 6506

Ion Ratio Lower Upper

172 100

171 36.7 28.3 42.5

170 25.3 19.8 29.6



#16

Acenaphthylene

Concen: 0.194 ng

RT: 14.040 min Scan# 1477

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

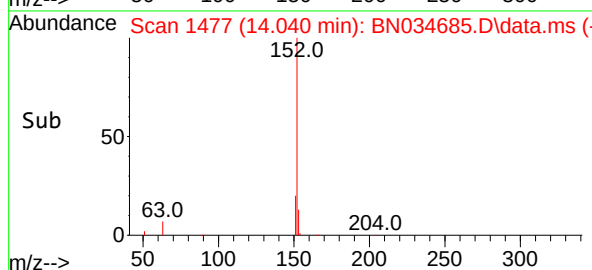
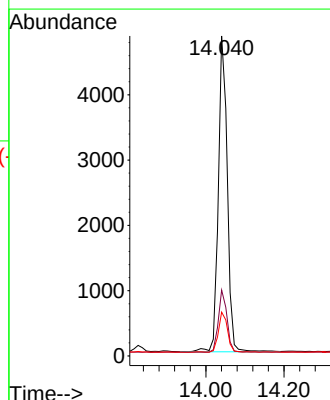
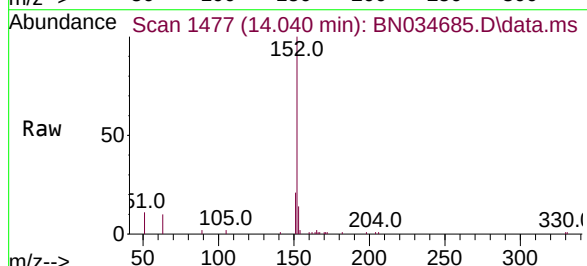
Tgt Ion:152 Resp: 7676

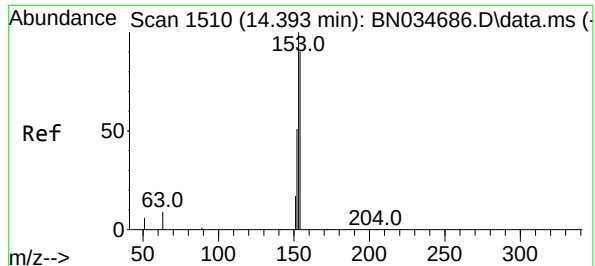
Ion Ratio Lower Upper

152 100

151 19.2 15.6 23.4

153 12.7 10.6 15.8





#17

Acenaphthene

Concen: 0.196 ng

RT: 14.393 min Scan# 1510

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

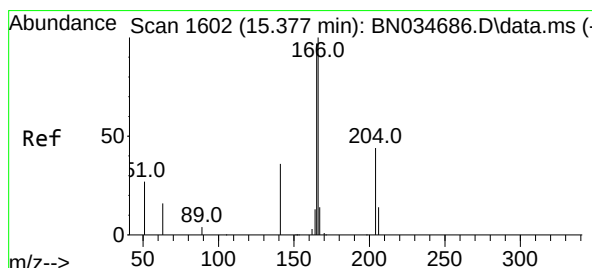
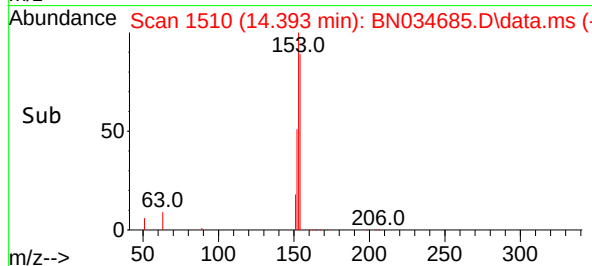
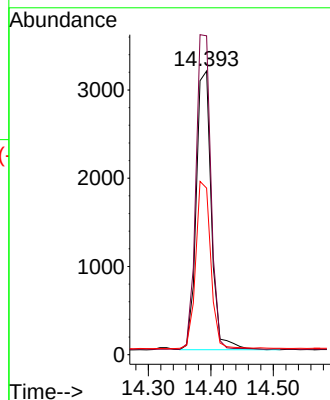
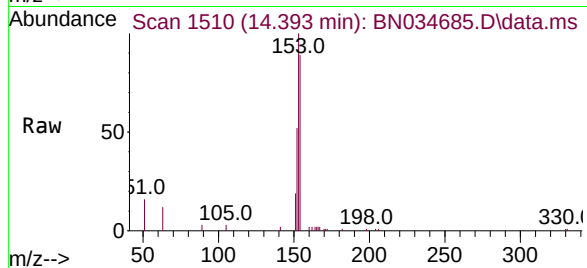
Tgt Ion:154 Resp: 5306

Ion Ratio Lower Upper

154 100

153 112.7 88.2 132.2

152 60.1 46.9 70.3



#18

Fluorene

Concen: 0.197 ng

RT: 15.377 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

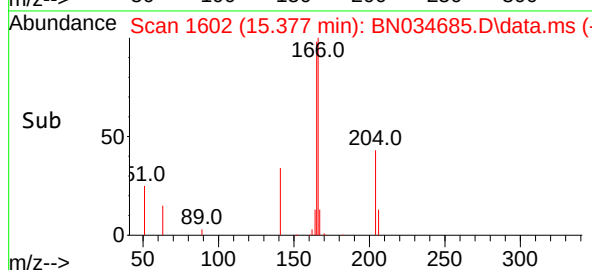
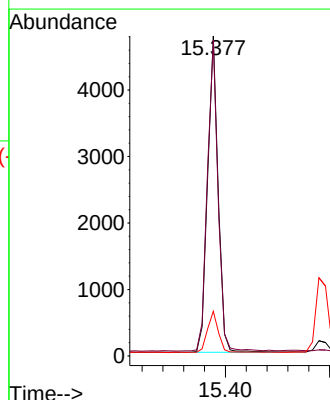
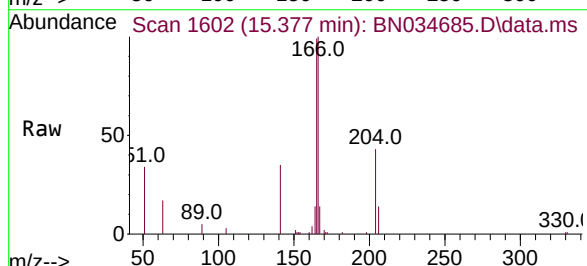
Tgt Ion:166 Resp: 6638

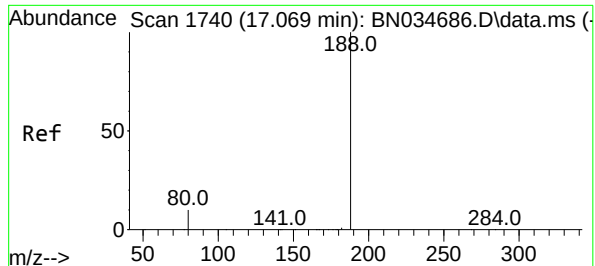
Ion Ratio Lower Upper

166 100

165 99.3 78.8 118.2

167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

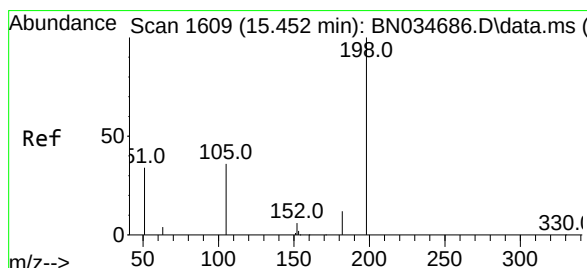
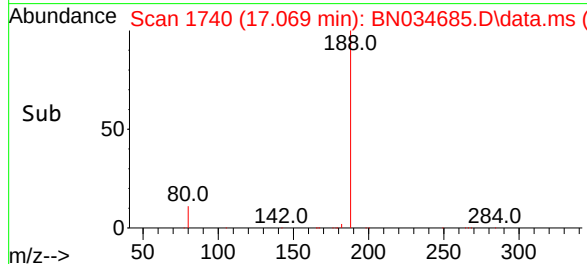
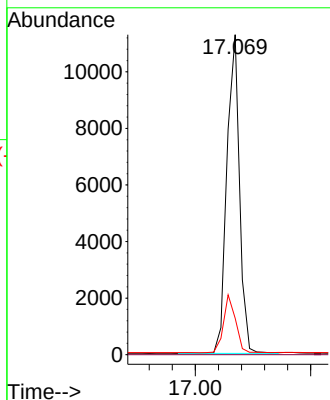
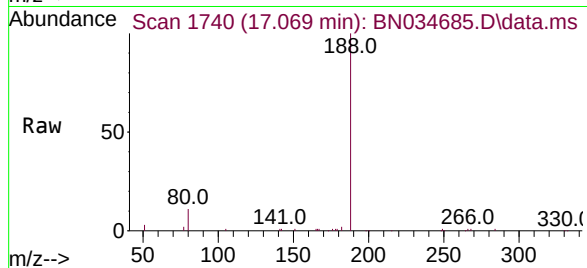
Tgt Ion:188 Resp: 17136

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.175 ng

RT: 15.452 min Scan# 1609

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

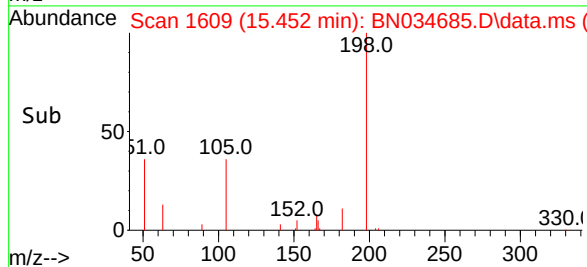
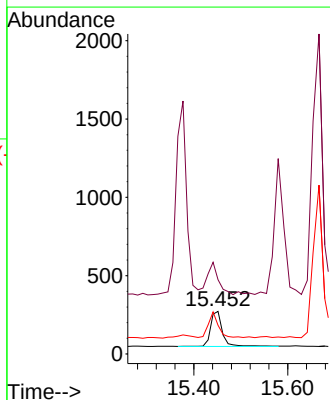
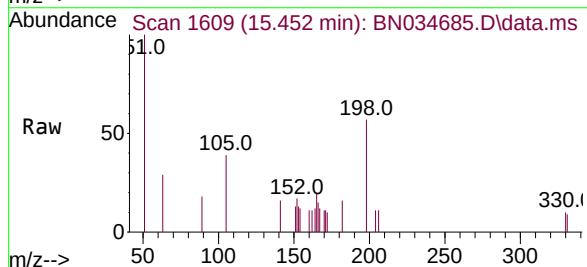
Tgt Ion:198 Resp: 410

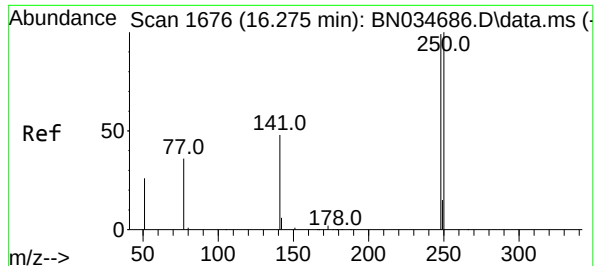
Ion Ratio Lower Upper

198 100

51 174.3 91.8 137.8#

105 67.3 44.3 66.5#

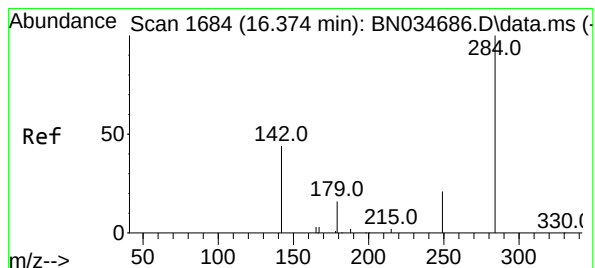
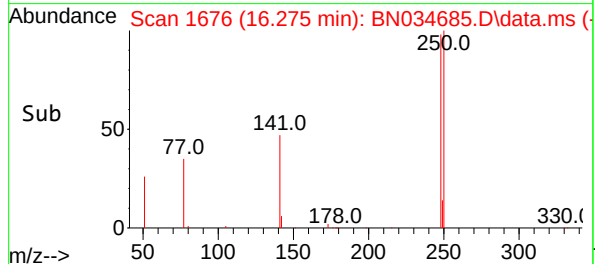
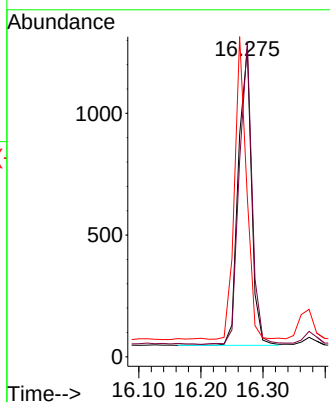
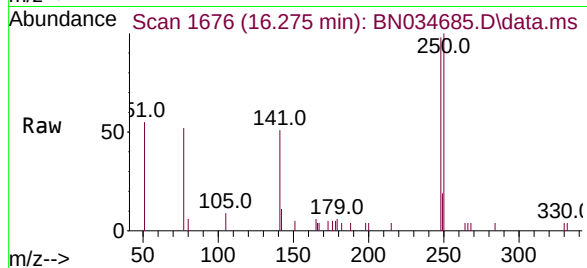




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

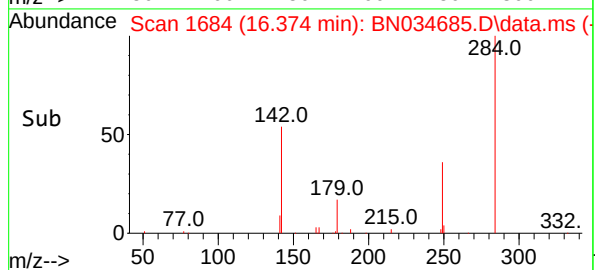
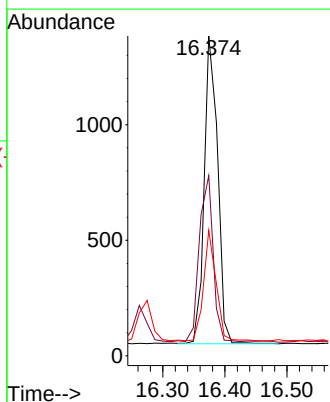
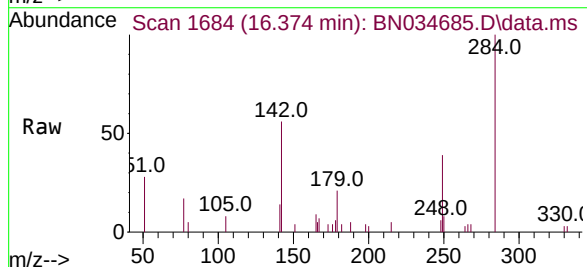
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

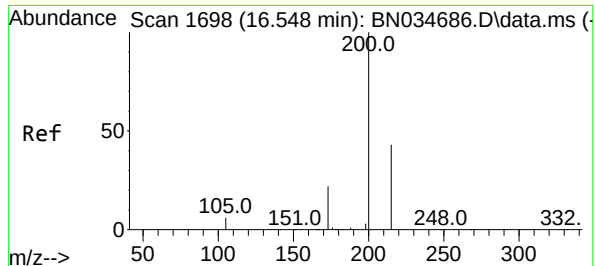
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.2	80.9	121.3
141	51.7	40.5	60.7



#22
Hexachlorobenzene
Concen: 0.192 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.4	43.6	65.4
249	33.6	26.6	40.0





#23

Atrazine

Concen: 0.165 ng

RT: 16.548 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

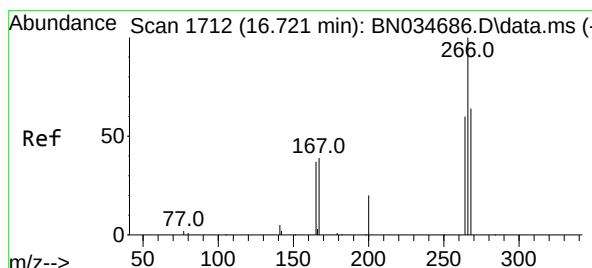
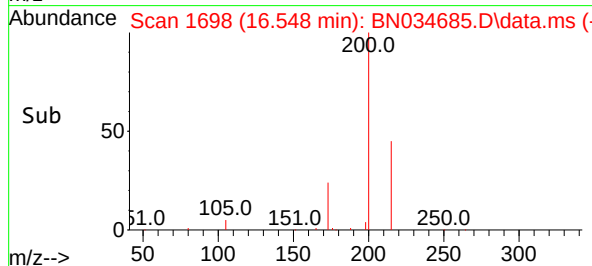
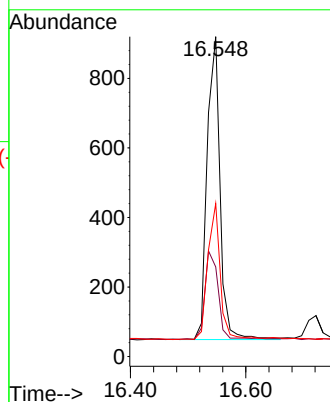
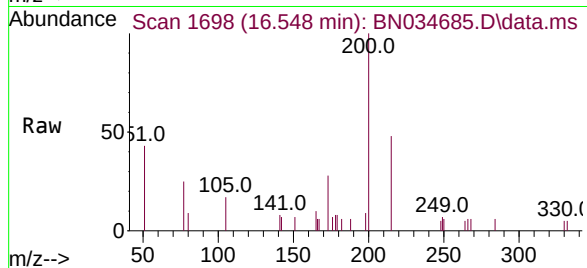
Tgt Ion:200 Resp: 1350

Ion Ratio Lower Upper

200 100

173 28.0 19.7 29.5

215 47.8 35.7 53.5



#24

Pentachlorophenol

Concen: 0.137 ng

RT: 16.721 min Scan# 1712

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

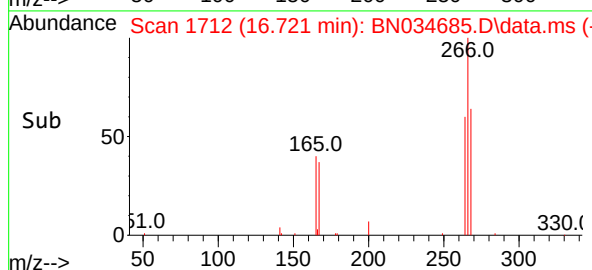
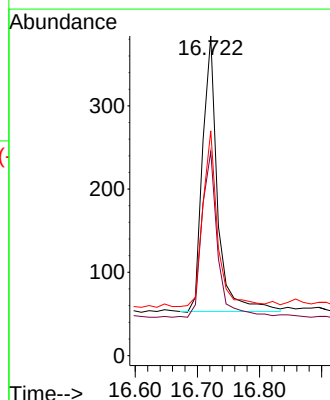
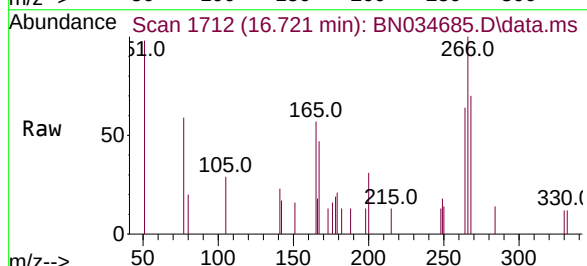
Tgt Ion:266 Resp: 558

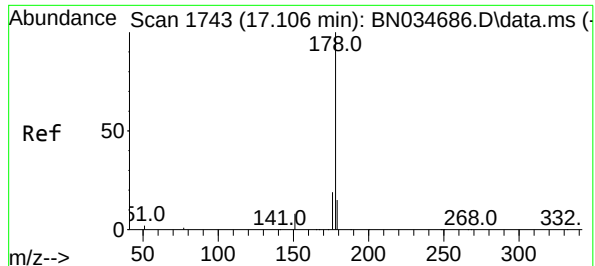
Ion Ratio Lower Upper

266 100

264 64.3 49.4 74.2

268 62.4 50.5 75.7

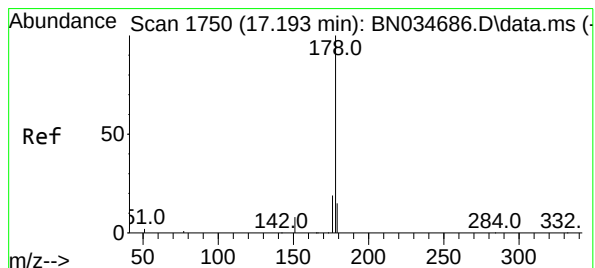
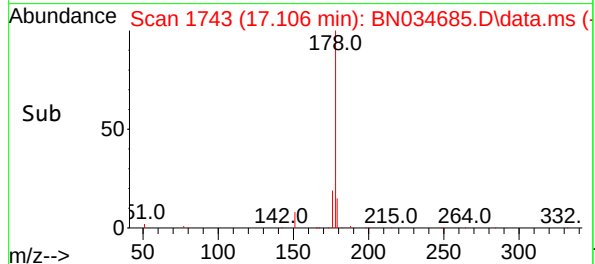
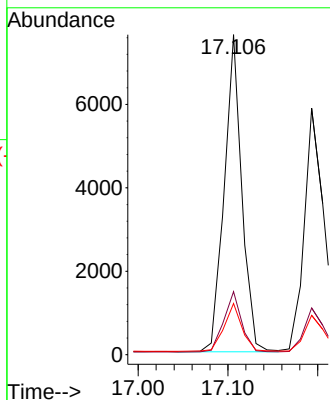
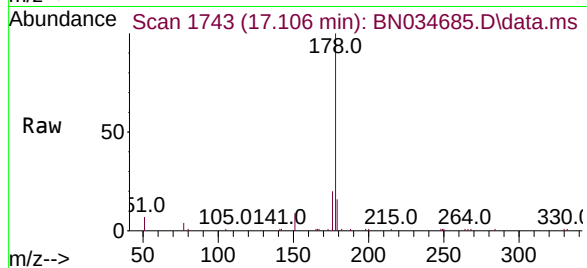




#25
Phenanthrene
Concen: 0.203 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

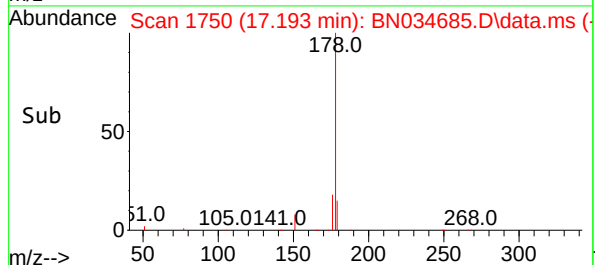
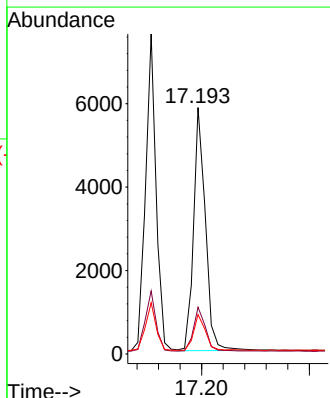
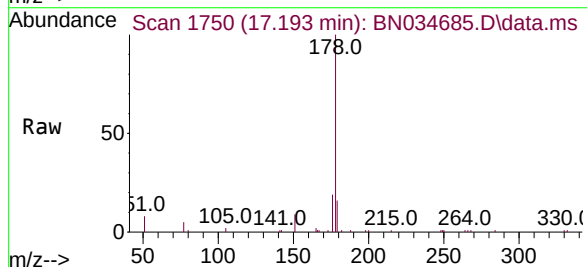
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

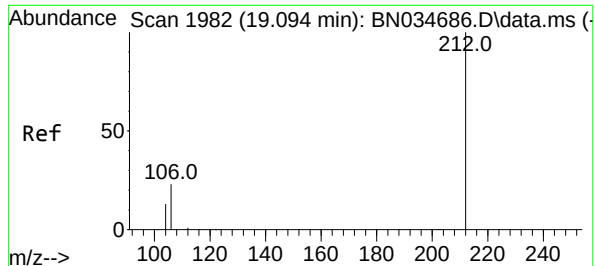
Tgt Ion:178 Resp: 10352
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.196 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion:178 Resp: 8939
Ion Ratio Lower Upper
178 100
176 18.2 14.9 22.3
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.181 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

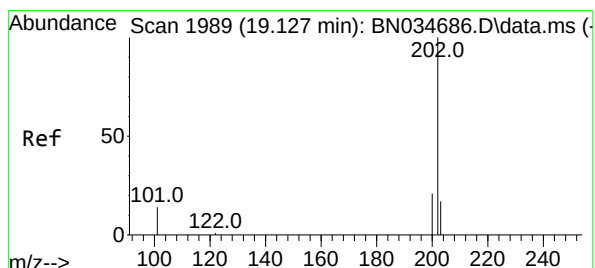
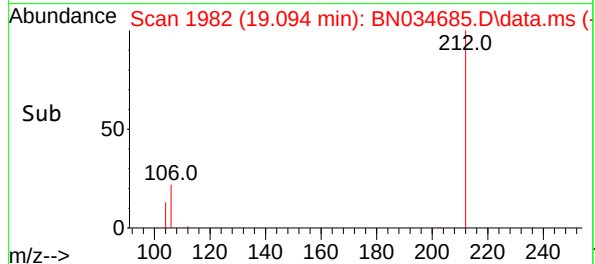
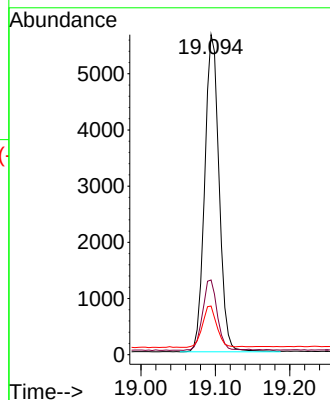
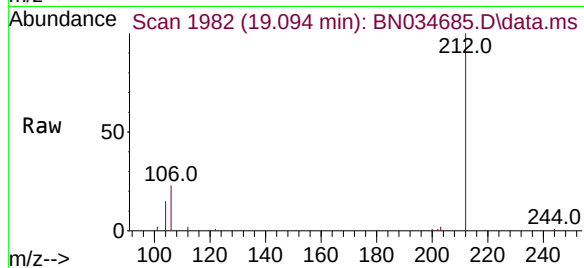
Tgt Ion:212 Resp: 7583

Ion Ratio Lower Upper

212 100

106 22.5 17.8 26.8

104 13.0 10.2 15.4



#28

Fluoranthene

Concen: 0.183 ng

RT: 19.127 min Scan# 1989

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

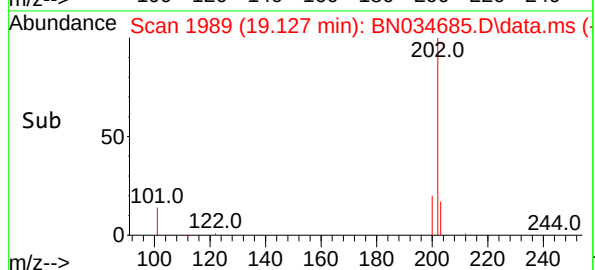
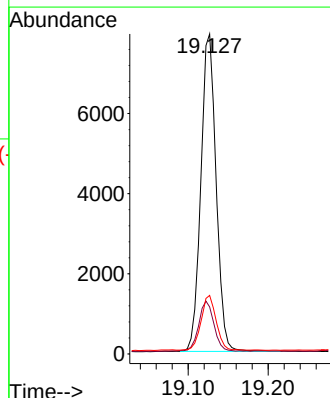
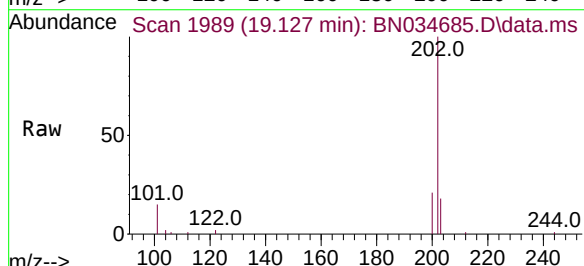
Tgt Ion:202 Resp: 10471

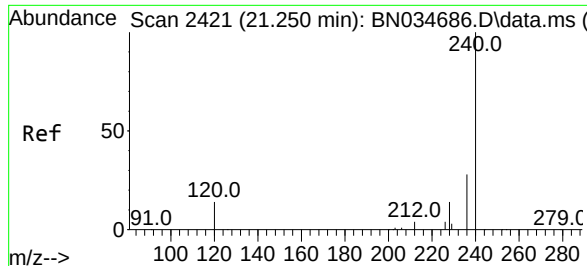
Ion Ratio Lower Upper

202 100

101 16.0 12.8 19.2

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

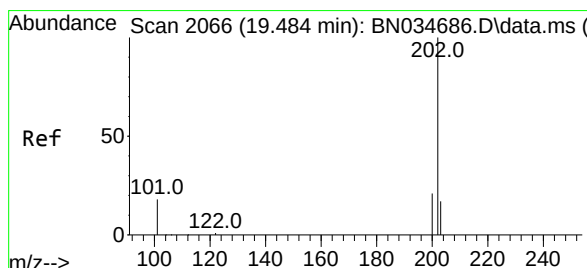
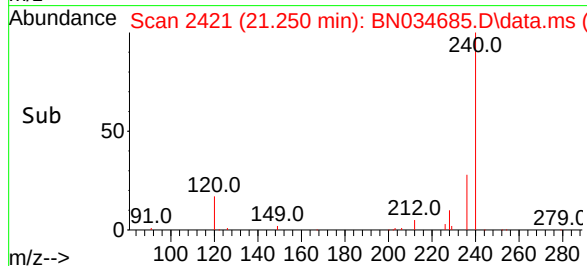
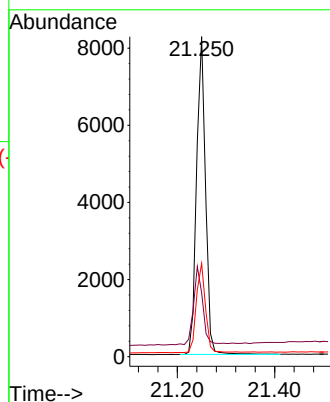
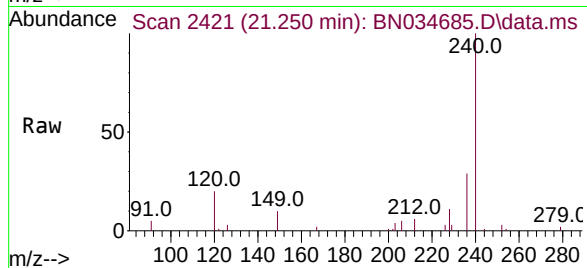
Tgt Ion:240 Resp: 10548

Ion Ratio Lower Upper

240 100

120 20.0 14.2 21.2

236 29.2 23.1 34.7



#30

Pyrene

Concen: 0.228 ng

RT: 19.484 min Scan# 2066

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

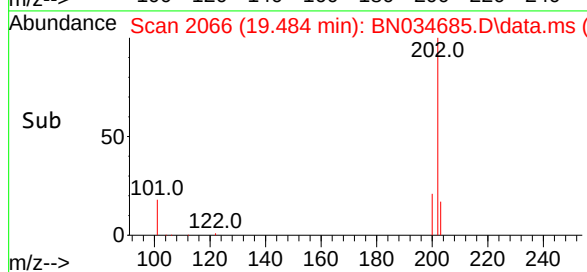
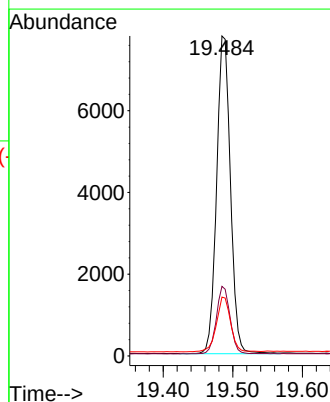
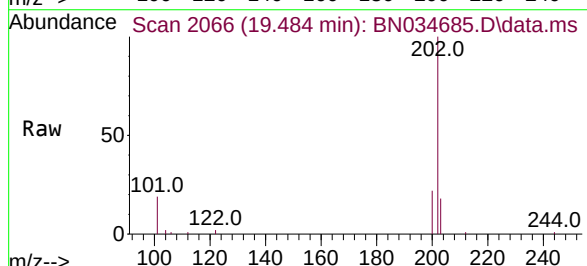
Tgt Ion:202 Resp: 10731

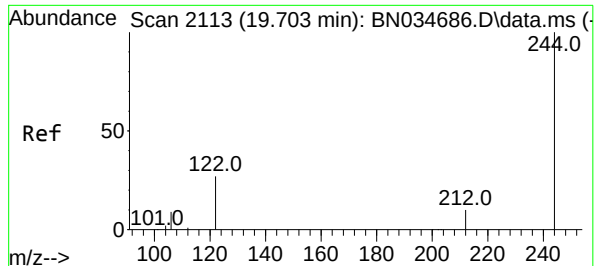
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.6 14.2 21.4

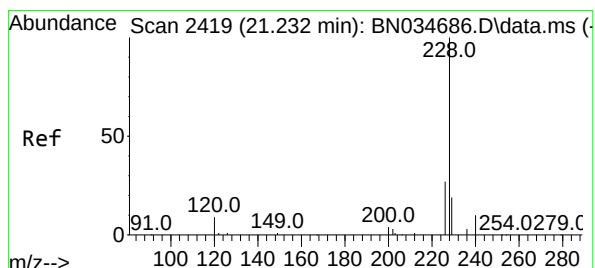
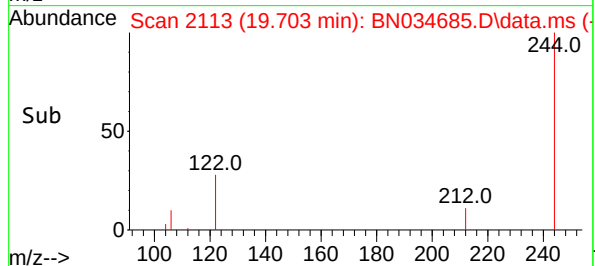
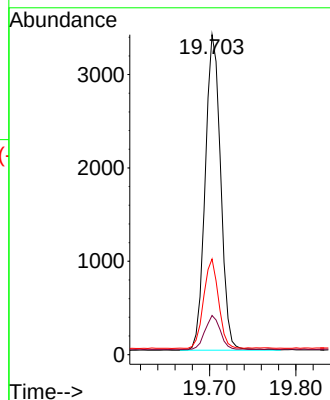
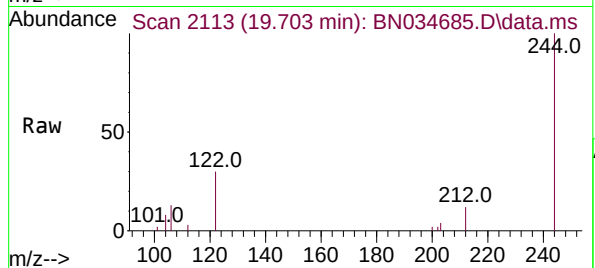




#31
Terphenyl-d14
Concen: 0.206 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

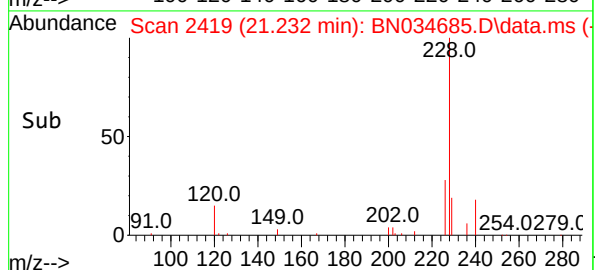
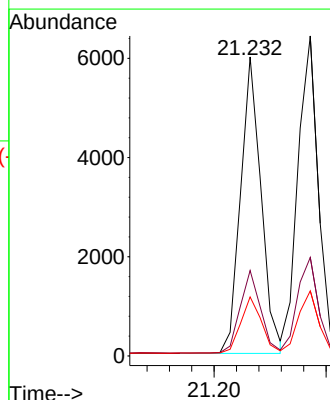
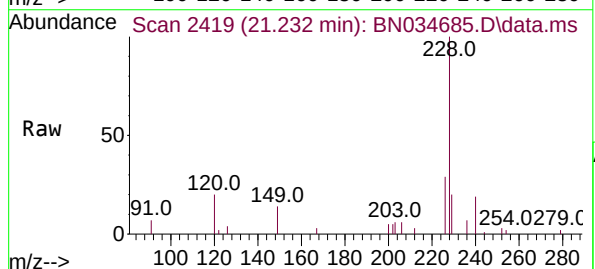
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

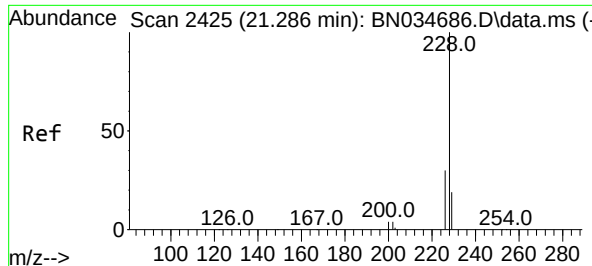
Tgt Ion:244 Resp: 4203
Ion Ratio Lower Upper
244 100
212 12.2 8.6 13.0
122 29.9 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.190 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Tgt Ion:228 Resp: 7621
Ion Ratio Lower Upper
228 100
226 28.6 22.0 33.0
229 19.7 15.6 23.4





#33

Chrysene

Concen: 0.208 ng

RT: 21.286 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

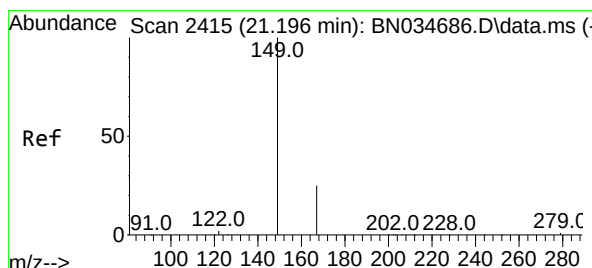
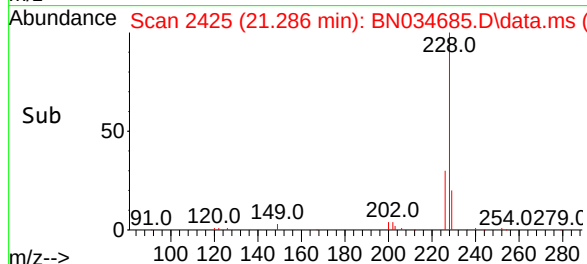
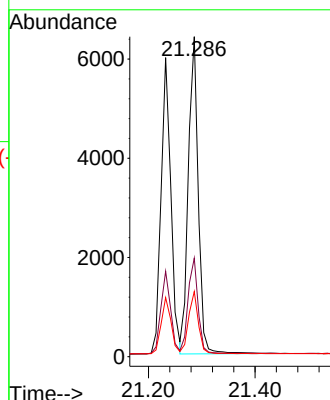
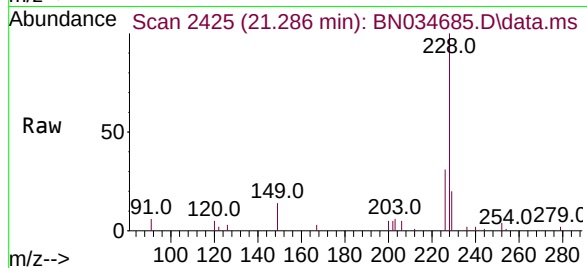
Tgt Ion:228 Resp: 8267

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 20.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.150 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

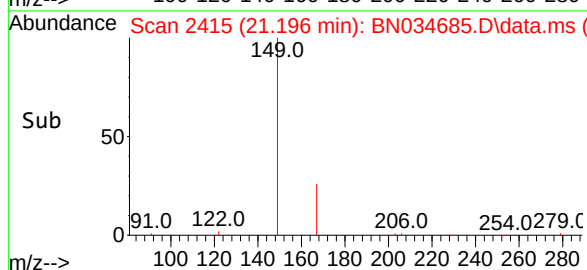
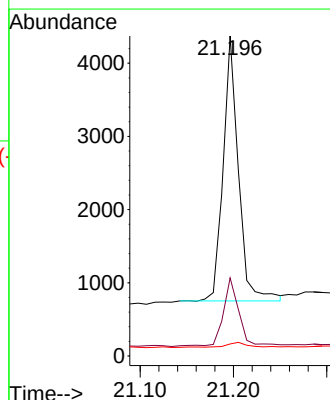
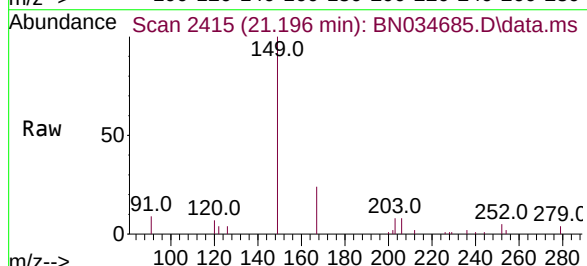
Tgt Ion:149 Resp: 4110

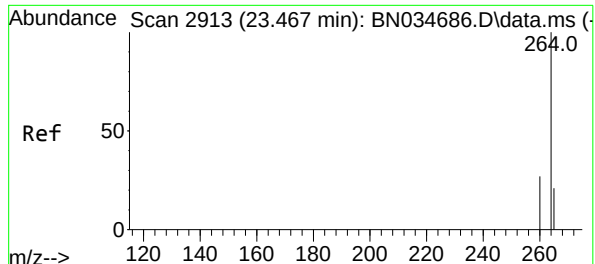
Ion Ratio Lower Upper

149 100

167 25.2 19.7 29.5

279 2.7 1.8 2.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

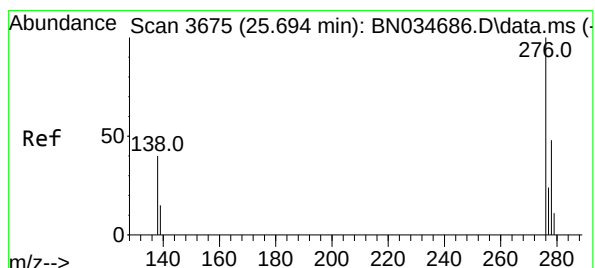
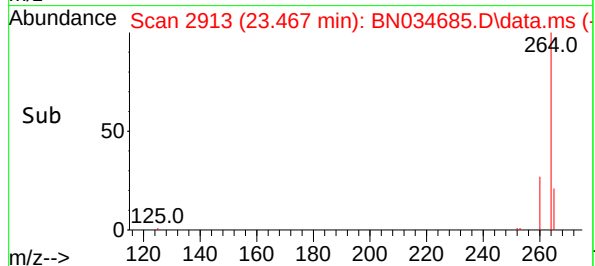
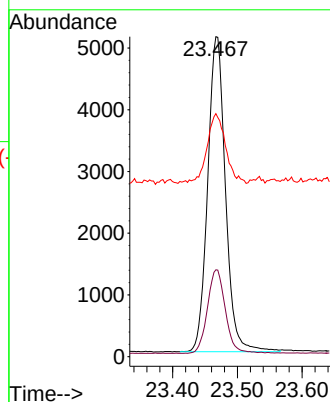
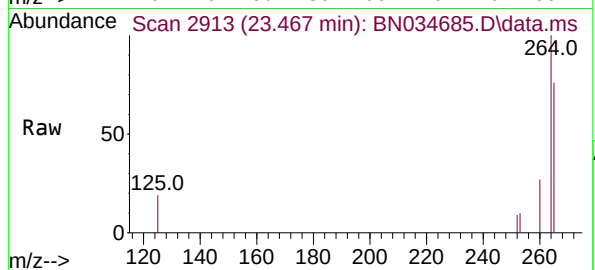
Tgt Ion:264 Resp: 9753

Ion Ratio Lower Upper

264 100

260 27.2 21.9 32.9

265 75.9 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.188 ng

RT: 25.700 min Scan# 3677

Delta R.T. 0.006 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

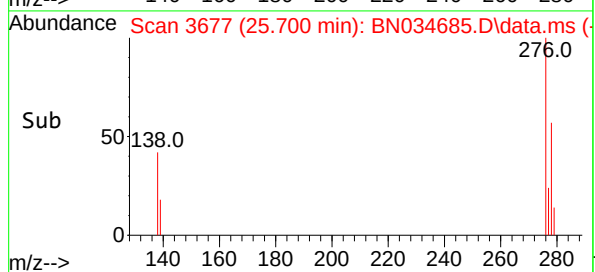
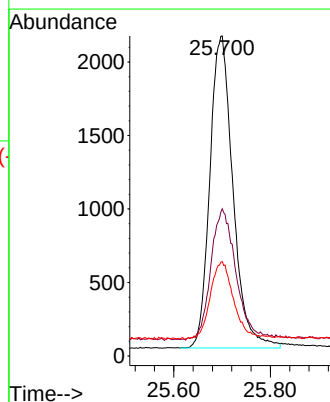
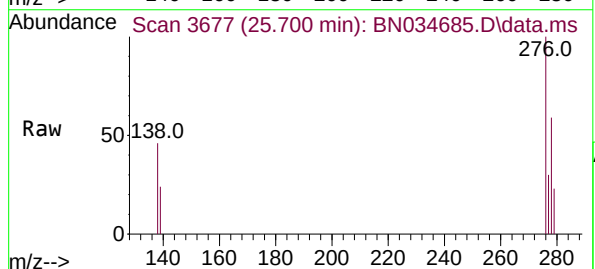
Tgt Ion:276 Resp: 7054

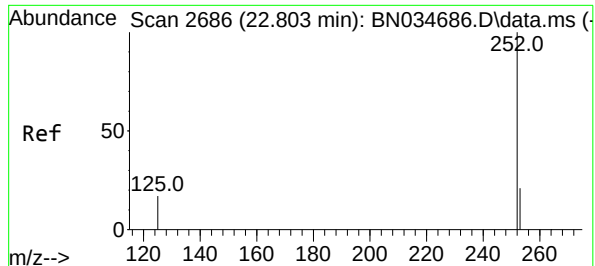
Ion Ratio Lower Upper

276 100

138 45.8 35.1 52.7

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.210 ng

RT: 22.803 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

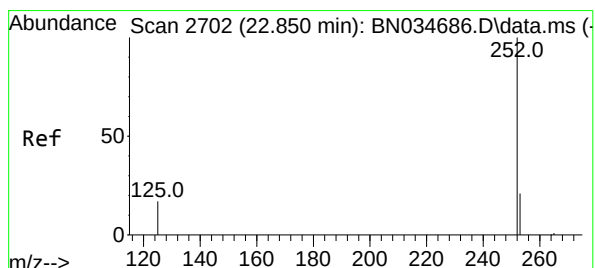
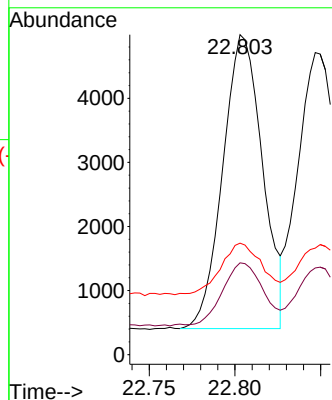
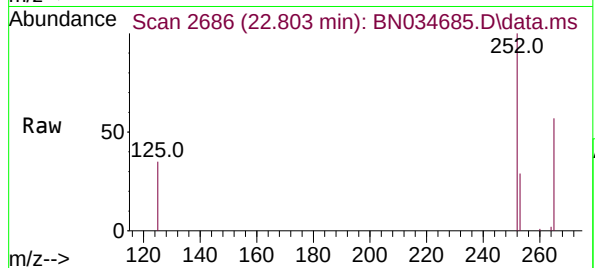
Tgt Ion:252 Resp: 7395

Ion Ratio Lower Upper

252 100

253 28.7 20.0 30.0

125 34.8 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 0.211 ng

RT: 22.847 min Scan# 2701

Delta R.T. -0.003 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

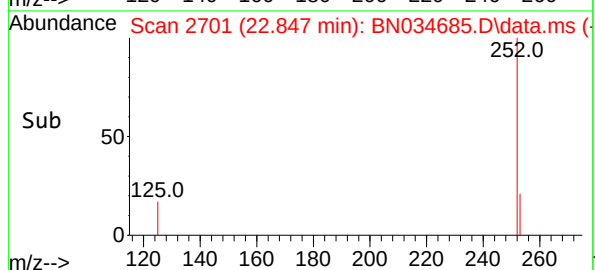
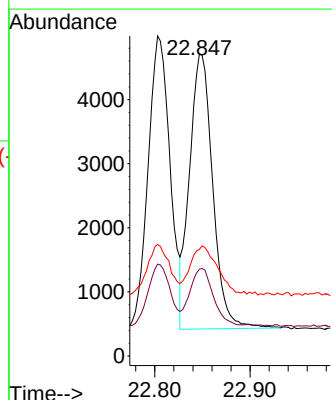
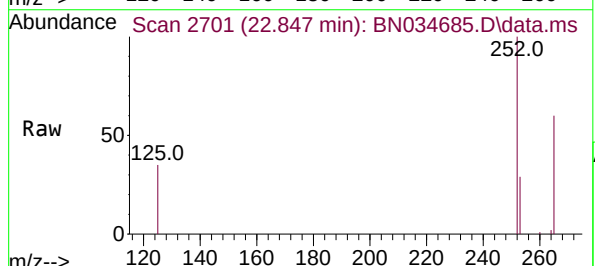
Tgt Ion:252 Resp: 7269

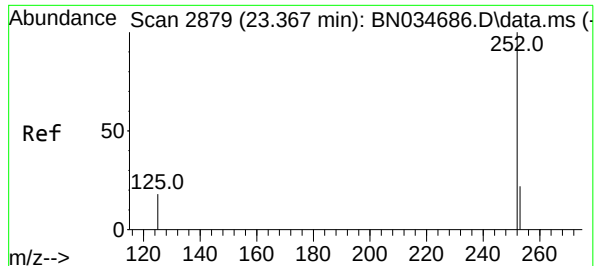
Ion Ratio Lower Upper

252 100

253 28.7 20.6 31.0

125 35.3 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 0.193 ng

RT: 23.370 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

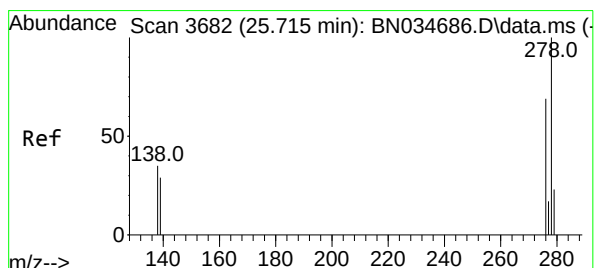
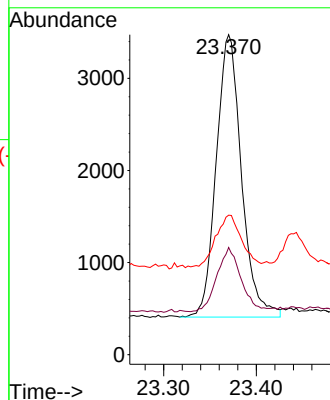
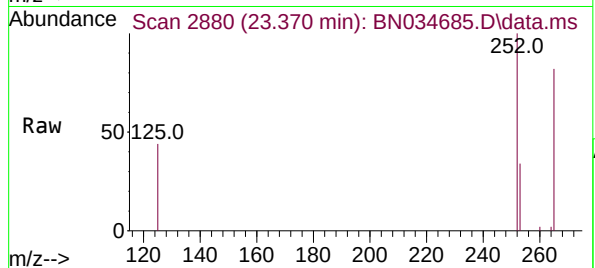
Tgt Ion:252 Resp: 5791

Ion Ratio Lower Upper

252 100

253 33.5 22.2 33.4#

125 43.6 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

RT: 25.715 min Scan# 3682

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

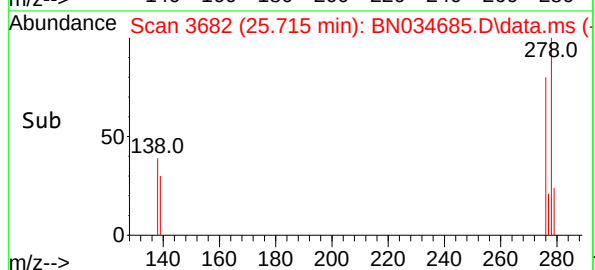
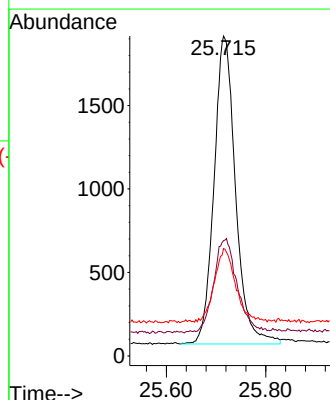
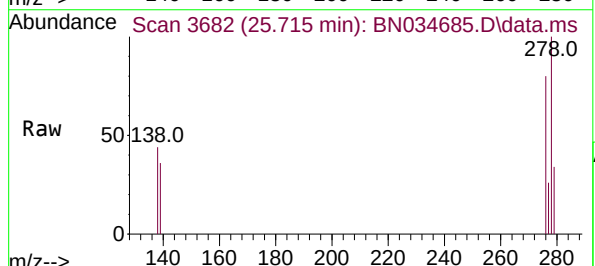
Tgt Ion:278 Resp: 5556

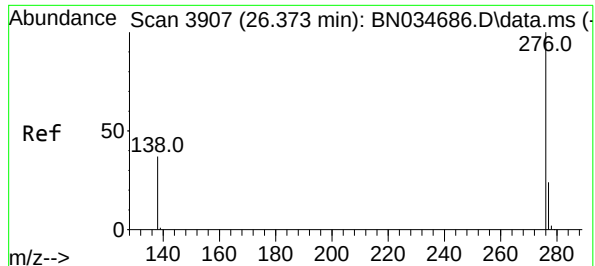
Ion Ratio Lower Upper

278 100

139 36.0 25.4 38.2

279 33.5 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.193 ng

RT: 26.367 min Scan# 3905

Delta R.T. -0.006 min

Lab File: BN034685.D

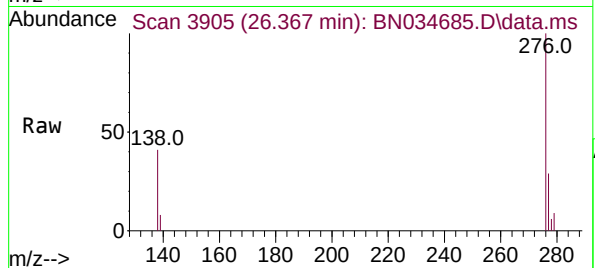
Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



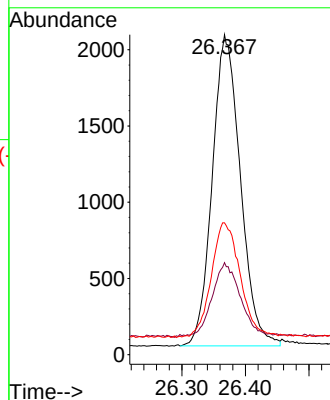
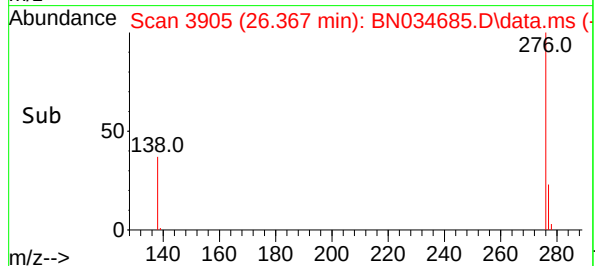
Tgt Ion:276 Resp: 6274

Ion Ratio Lower Upper

276 100

277 28.7 21.3 31.9

138 41.2 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034686.D
 Acq On : 24 Oct 2024 10:23
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Oct 24 12:42:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

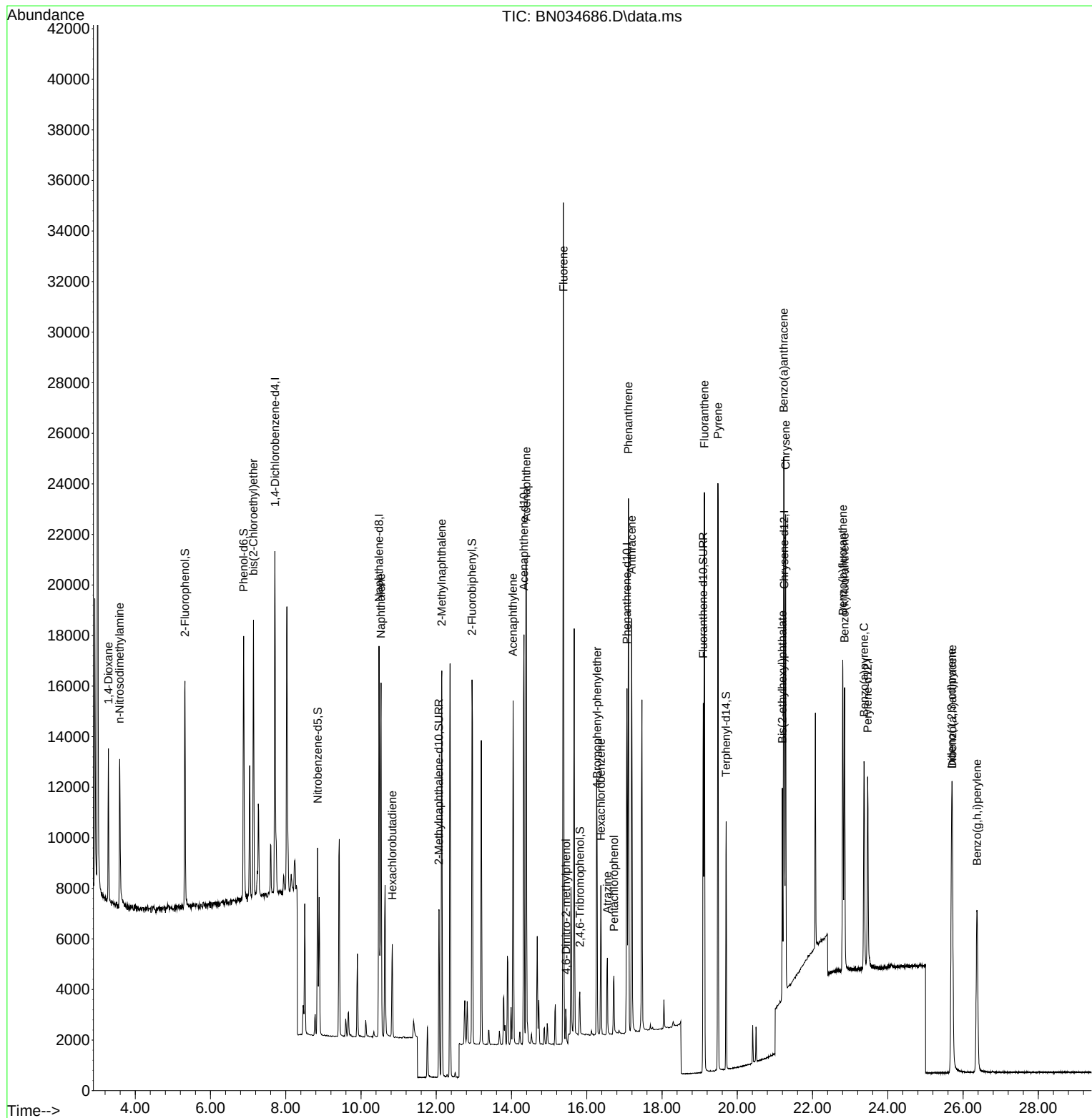
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6324	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18497	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	9311	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	18185	0.400	ng	0.00
29) Chrysene-d12	21.250	240	10628	0.400	ng	0.00
35) Perylene-d12	23.467	264	9595	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	6764	0.350	ng	0.00
5) Phenol-d6	6.882	99	8764	0.354	ng	0.00
8) Nitrobenzene-d5	8.845	82	5433	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	8901	0.342	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	897	0.227	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	12842	0.350	ng	0.00
27) Fluoranthene-d10	19.094	212	14254	0.320	ng	0.00
31) Terphenyl-d14	19.703	244	7865	0.382	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.285	88	3065	0.398	ng	100
3) n-Nitrosodimethylamine	3.581	42	4451	0.478	ng	100
6) bis(2-Chloroethyl)ether	7.142	93	7208	0.380	ng	100
9) Naphthalene	10.532	128	18256	0.358	ng	100
10) Hexachlorobutadiene	10.831	225	2759	0.338	ng	# 100
12) 2-Methylnaphthalene	12.147	142	11104	0.344	ng	100
16) Acenaphthylene	14.040	152	14720	0.329	ng	100
17) Acenaphthene	14.393	154	10443	0.342	ng	100
18) Fluorene	15.377	166	12923	0.340	ng	100
20) 4,6-Dinitro-2-methylph...	15.452	198	774	0.311	ng	100
21) 4-Bromophenyl-phenylether	16.275	248	3462	0.348	ng	100
22) Hexachlorobenzene	16.374	284	3844	0.348	ng	100
23) Atrazine	16.548	200	2545	0.292	ng	100
24) Pentachlorophenol	16.721	266	1164	0.269	ng	100
25) Phenanthrene	17.106	178	19369	0.358	ng	100
26) Anthracene	17.193	178	16930	0.350	ng	100
28) Fluoranthene	19.127	202	19859	0.327	ng	100
30) Pyrene	19.484	202	19977	0.420	ng	100
32) Benzo(a)anthracene	21.232	228	14596	0.360	ng	100
33) Chrysene	21.286	228	15321	0.382	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	7675	0.278	ng	100
36) Indeno(1,2,3-cd)pyrene	25.694	276	13606	0.368	ng	100
37) Benzo(b)fluoranthene	22.803	252	14206	0.410	ng	100
38) Benzo(k)fluoranthene	22.850	252	13300	0.393	ng	100
39) Benzo(a)pyrene	23.367	252	11106	0.377	ng	100
40) Dibenzo(a,h)anthracene	25.715	278	10684	0.368	ng	100
41) Benzo(g,h,i)perylene	26.373	276	12106	0.378	ng	100

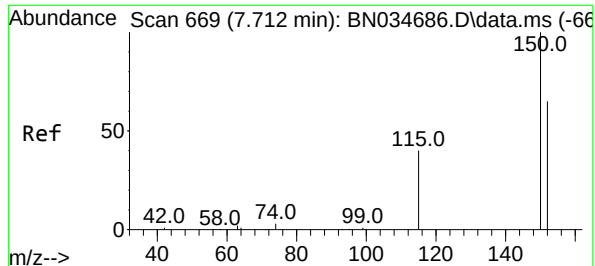
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034686.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 24 12:42:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

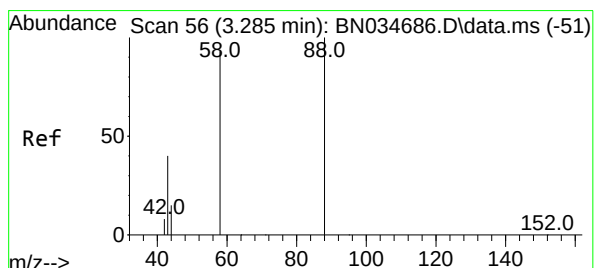
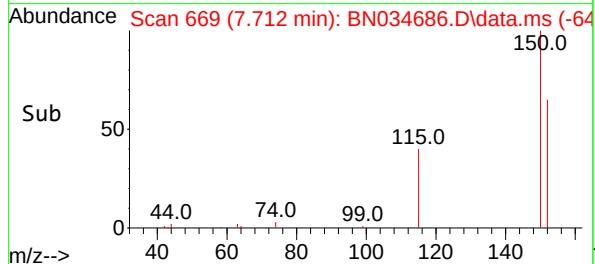
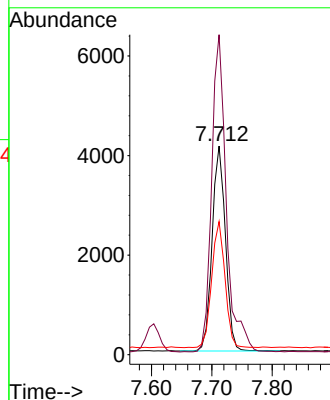
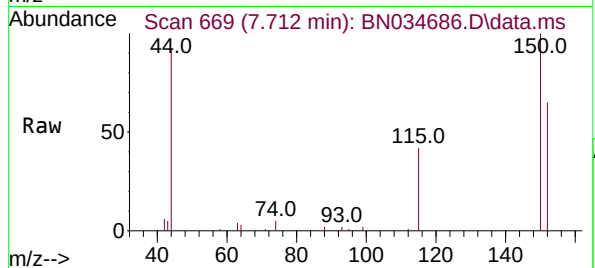




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

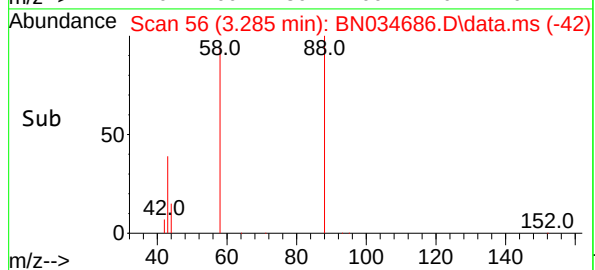
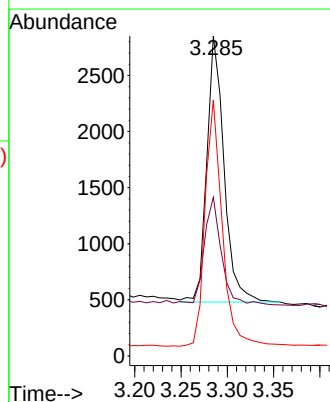
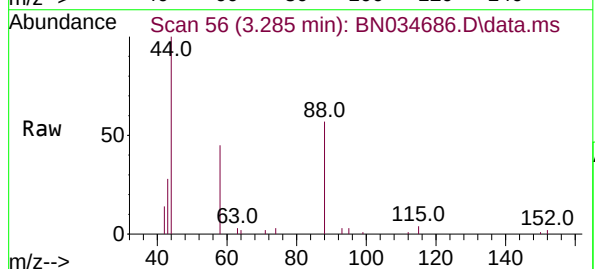
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

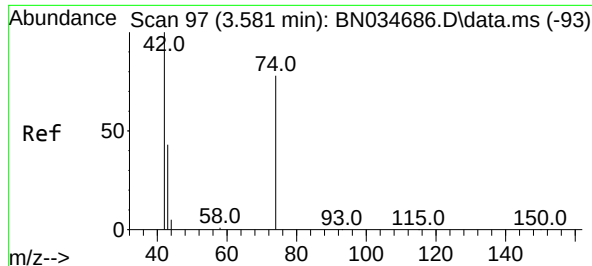
Tgt Ion:152 Resp: 6324
Ion Ratio Lower Upper
152 100
150 153.4 122.7 184.1
115 63.8 51.0 76.6



#2
1,4-Dioxane
Concen: 0.398 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion: 88 Resp: 3065
Ion Ratio Lower Upper
88 100
43 40.1 32.1 48.1
58 92.1 73.7 110.5

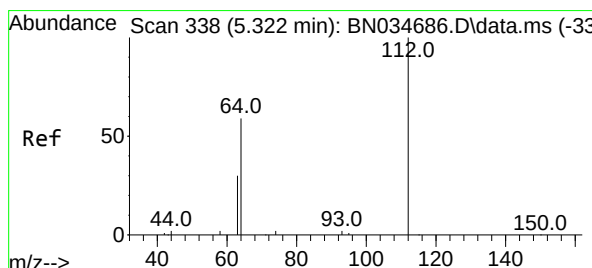
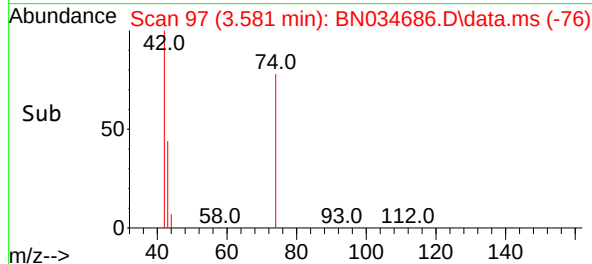
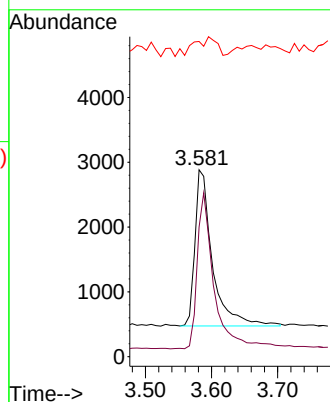
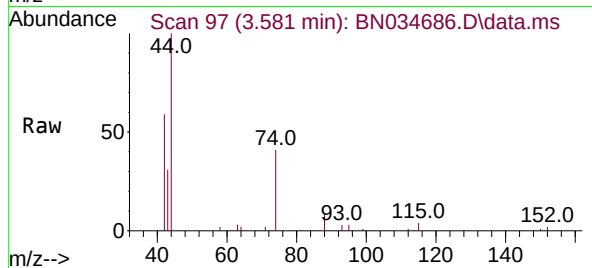




#3
n-Nitrosodimethylamine
Concen: 0.478 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

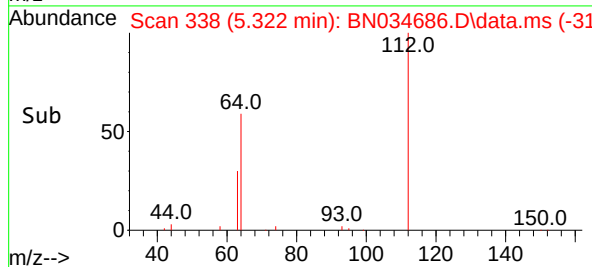
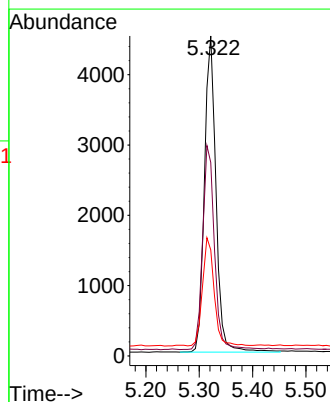
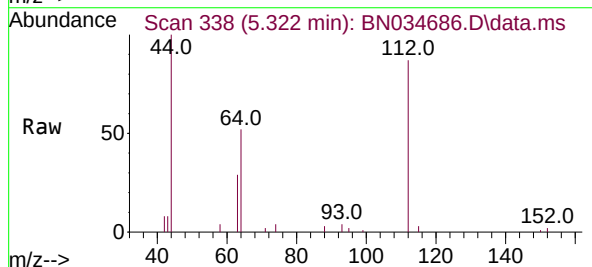
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

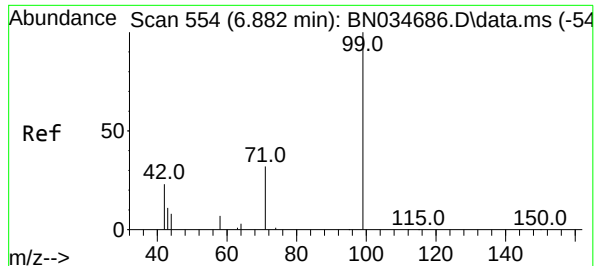
Tgt Ion: 42 Resp: 4451
Ion Ratio Lower Upper
42 100
74 96.5 77.2 115.8
44 16.8 13.4 20.2



#4
2-Fluorophenol
Concen: 0.350 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion: 112 Resp: 6764
Ion Ratio Lower Upper
112 100
64 66.3 53.0 79.6
63 34.5 27.6 41.4

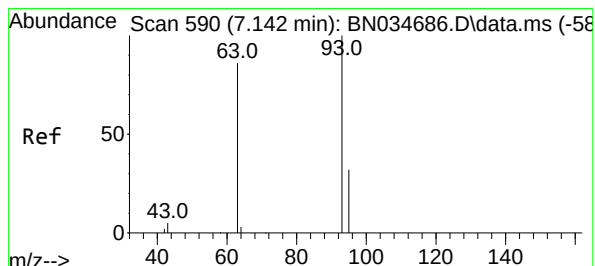
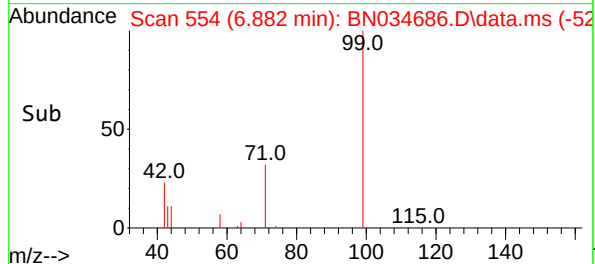
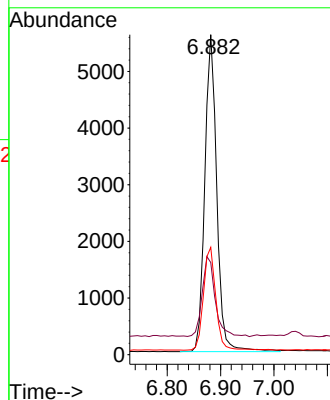
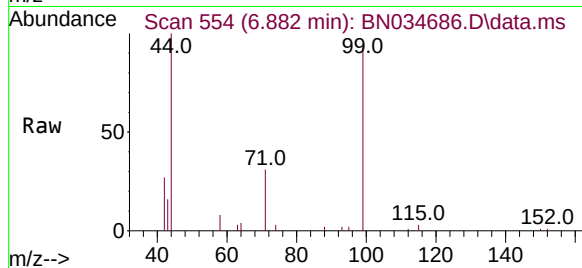




#5
Phenol-d6
Concen: 0.354 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

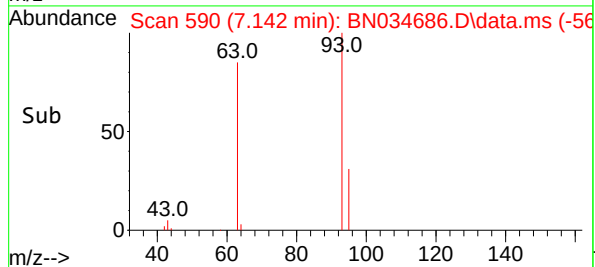
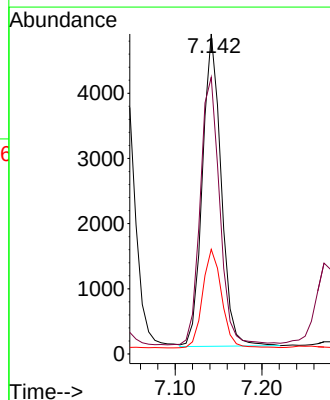
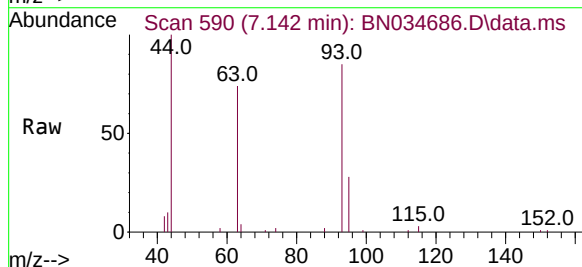
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

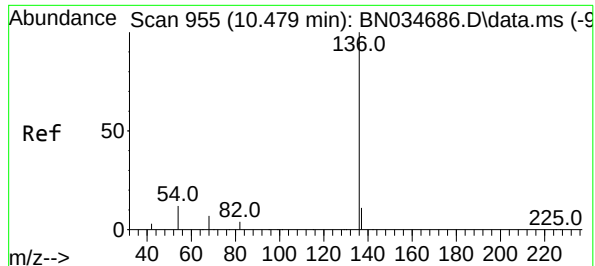
Tgt Ion: 99 Resp: 8764
Ion Ratio Lower Upper
99 100
42 27.3 21.8 32.8
71 33.3 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion: 93 Resp: 7208
Ion Ratio Lower Upper
93 100
63 89.4 71.5 107.3
95 32.2 25.8 38.6

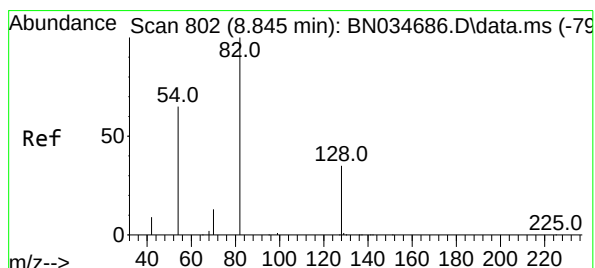
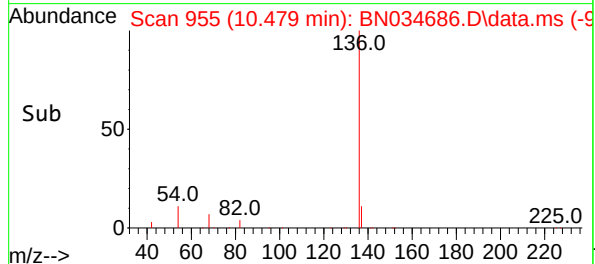
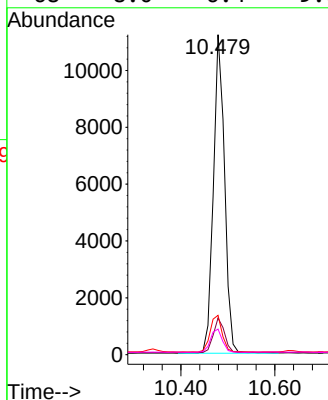
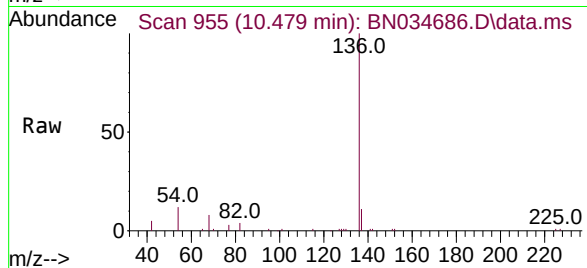




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

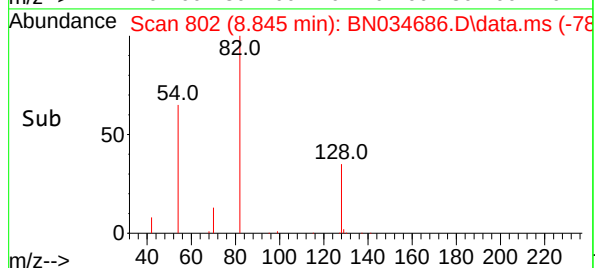
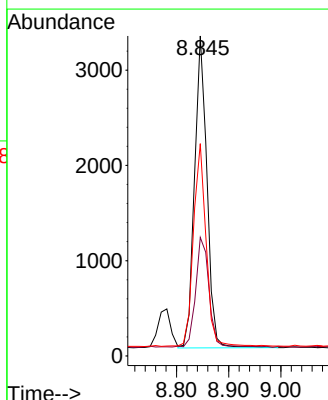
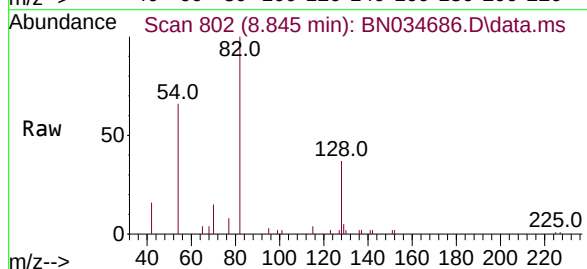
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

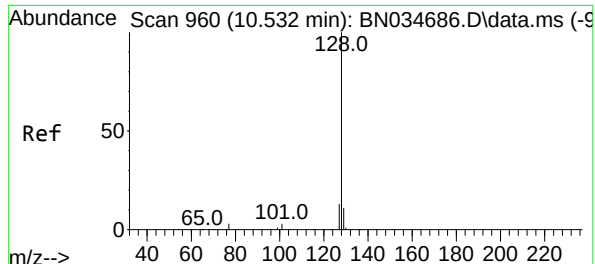
Tgt Ion:	136	Resp:	18497
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.3	9.8	14.8
68	8.0	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:	82	Resp:	5433
Ion	Ratio	Lower	Upper
82	100		
128	37.1	29.7	44.5
54	66.3	53.0	79.6

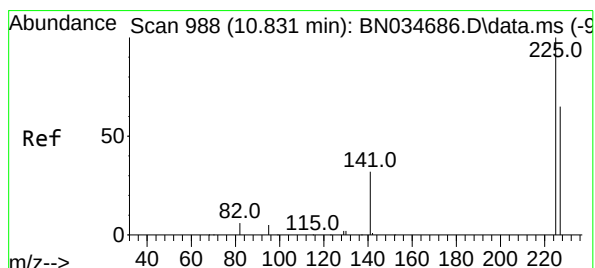
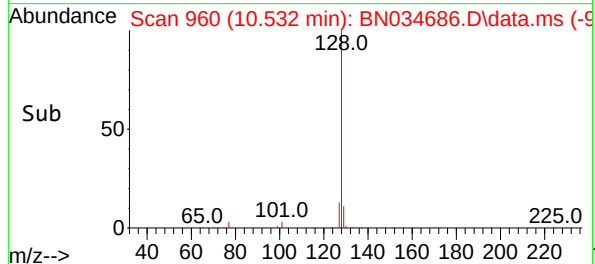
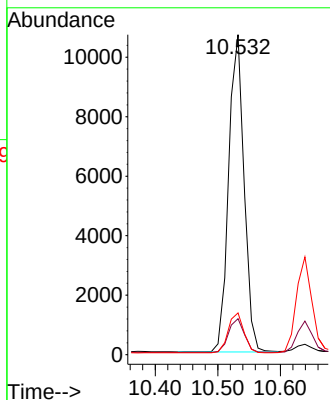
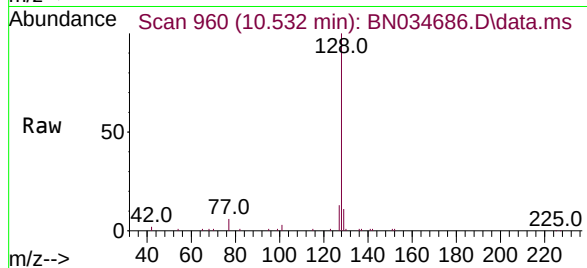




#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

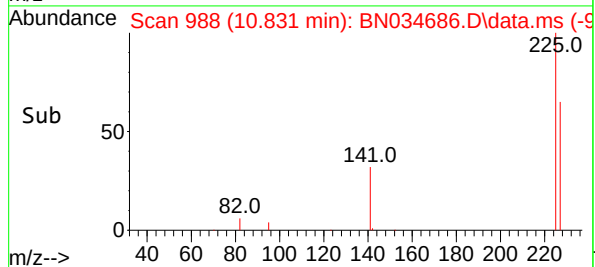
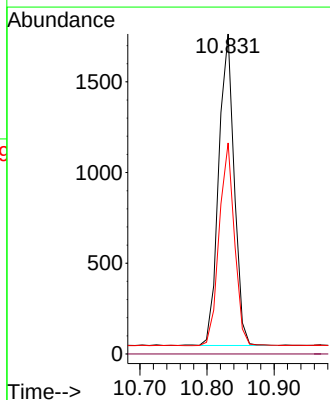
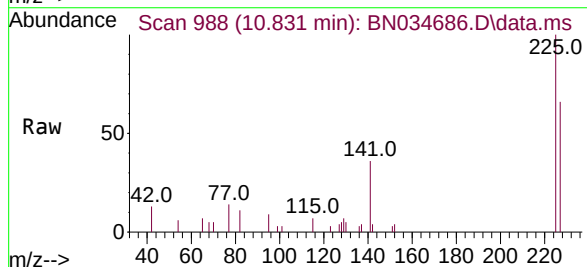
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

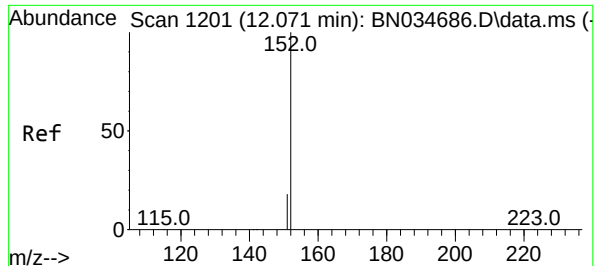
Tgt Ion:128 Resp: 18256
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.1 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.338 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:225 Resp: 2759
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.4 77.0

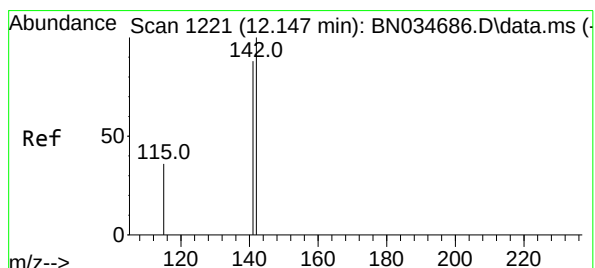
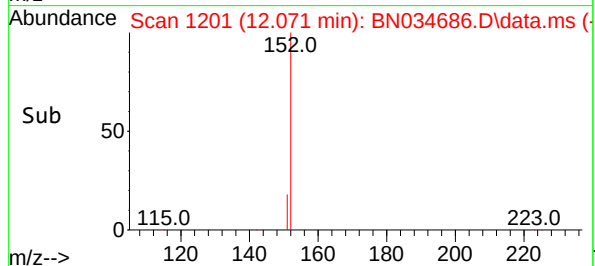
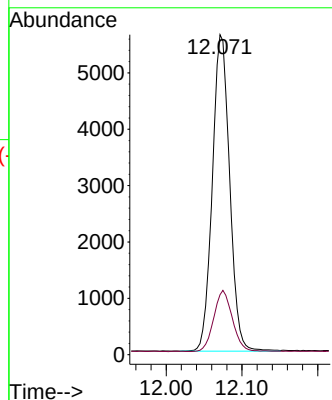
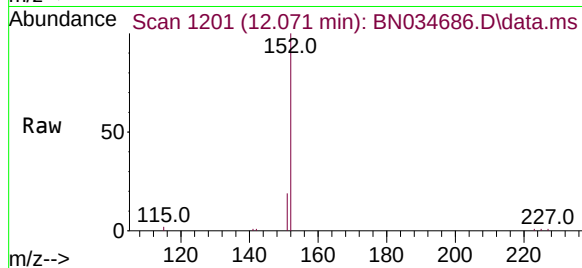




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

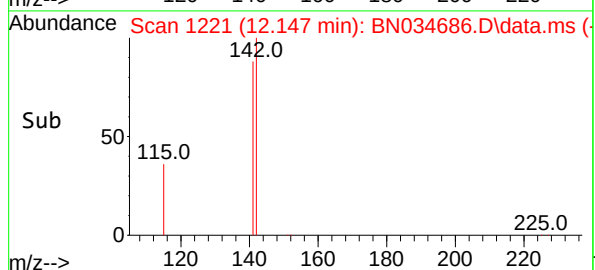
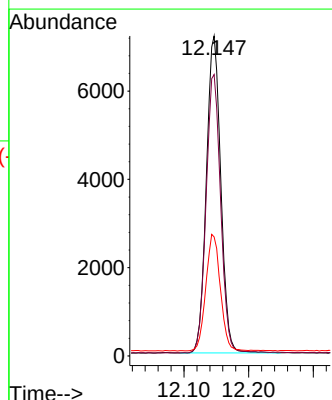
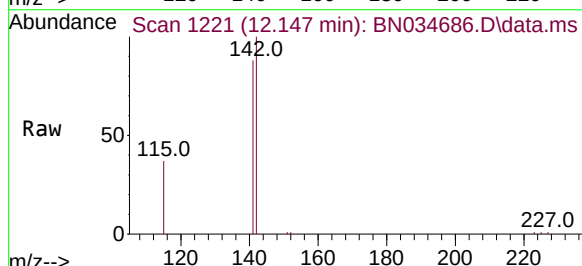
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

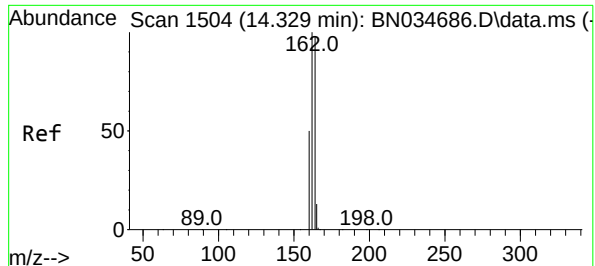
Tgt Ion:152 Resp: 8901
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.344 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:142 Resp: 11104
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 37.2 29.8 44.6

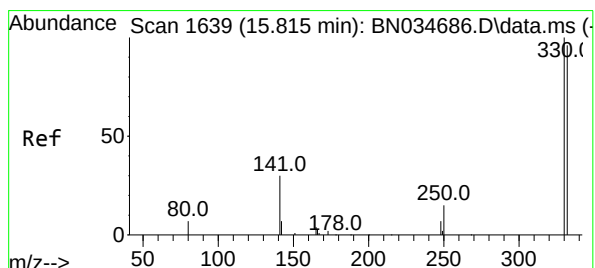
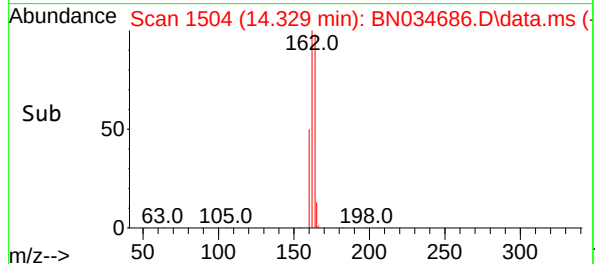
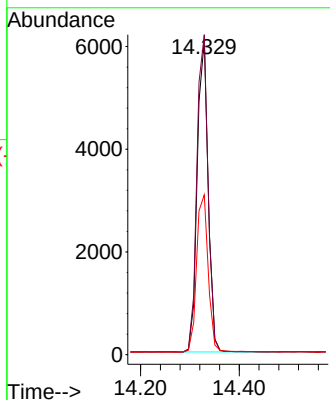
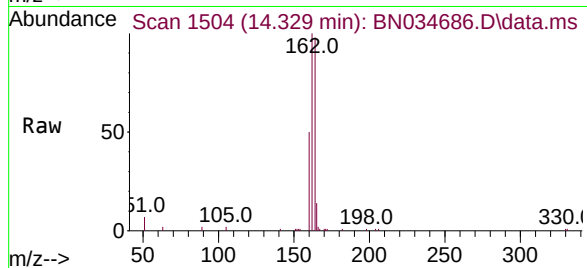




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

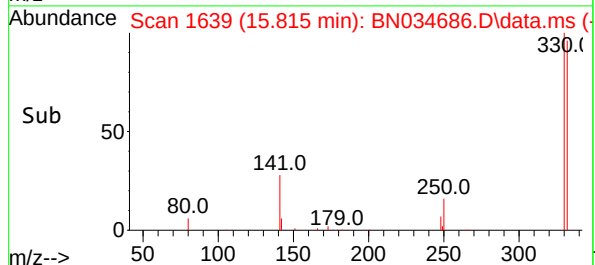
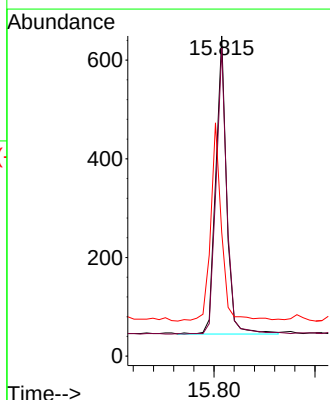
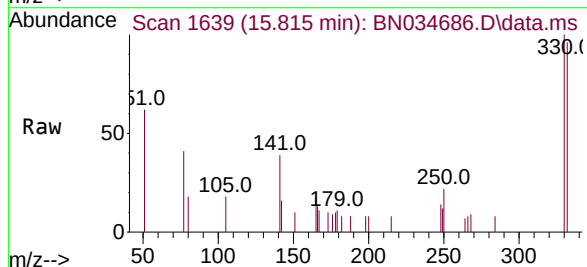
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

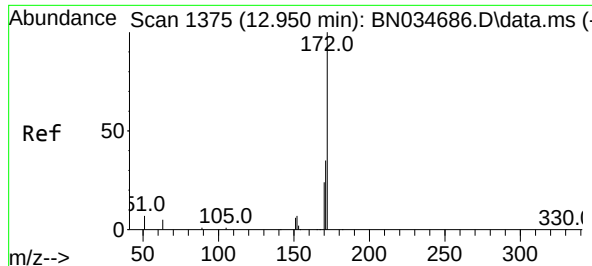
Tgt Ion:164 Resp: 9311
Ion Ratio Lower Upper
164 100
162 101.7 81.4 122.0
160 50.8 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:330 Resp: 897
Ion Ratio Lower Upper
330 100
332 95.8 76.6 115.0
141 68.2 54.6 81.8

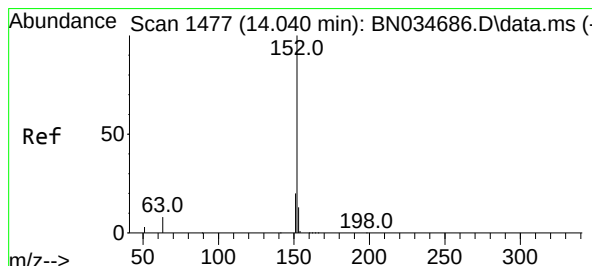
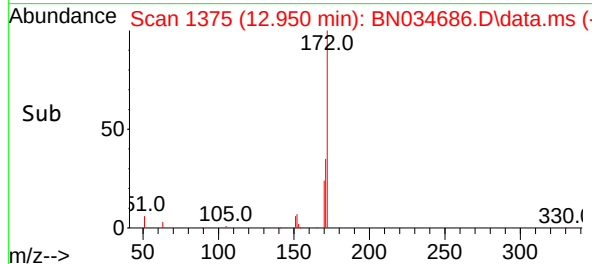
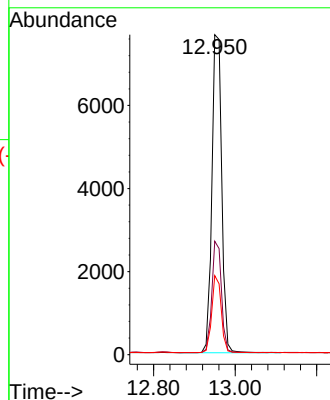
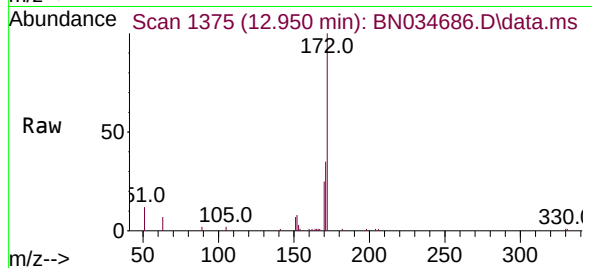




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

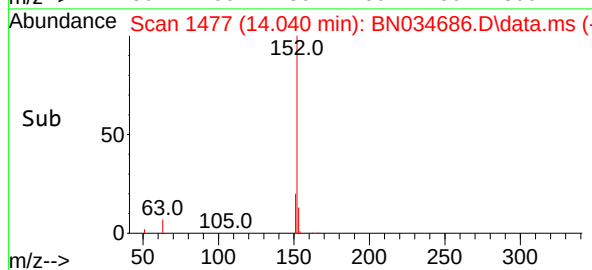
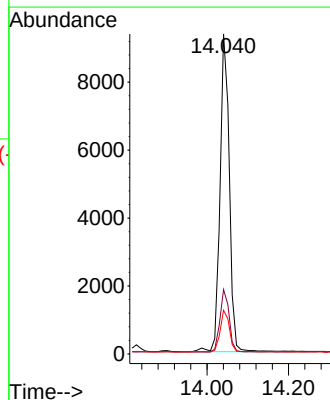
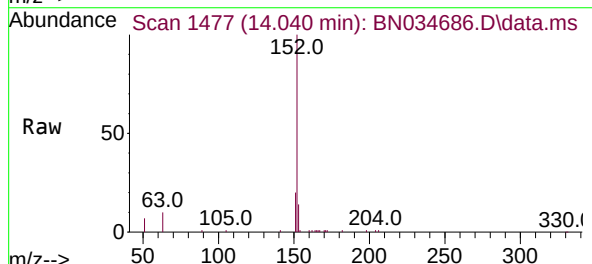
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

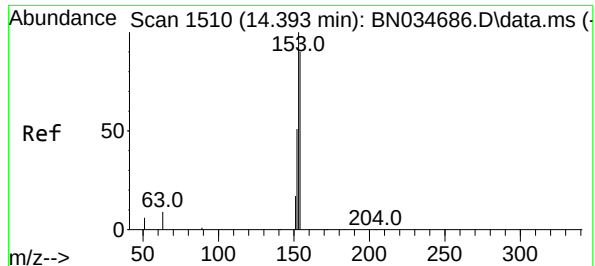
Tgt Ion:	172	Resp:	12842
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.3	42.5
170	24.7	19.8	29.6



#16
Acenaphthylene
Concen: 0.329 ng
RT: 14.040 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:	152	Resp:	14720
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.6	23.4
153	13.2	10.6	15.8

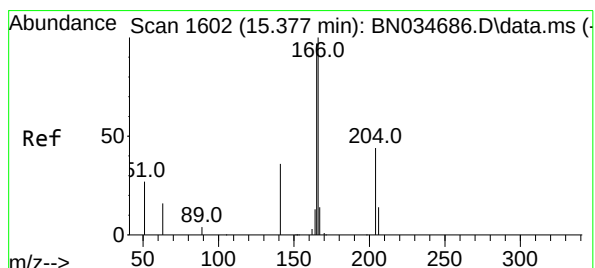
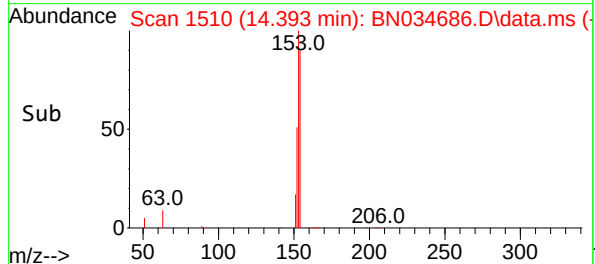
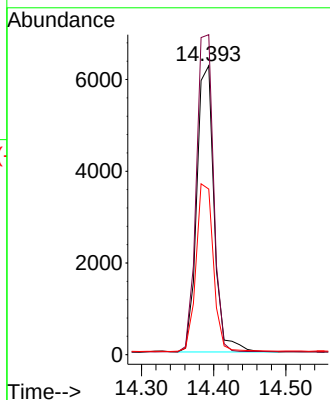
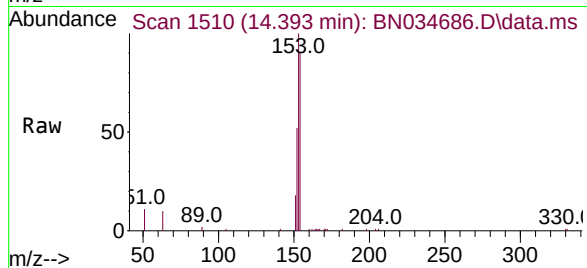




#17
Acenaphthene
Concen: 0.342 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

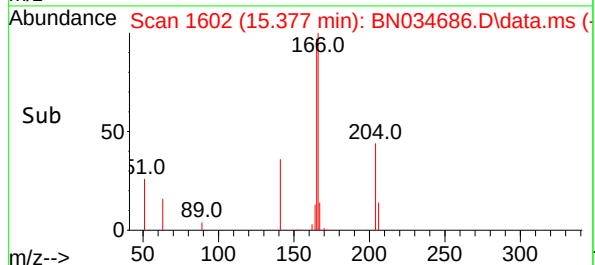
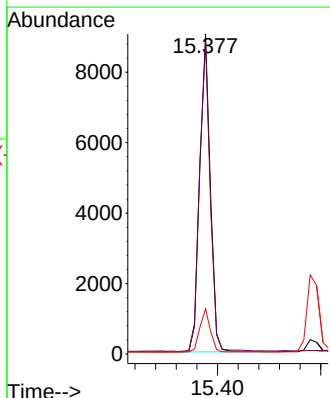
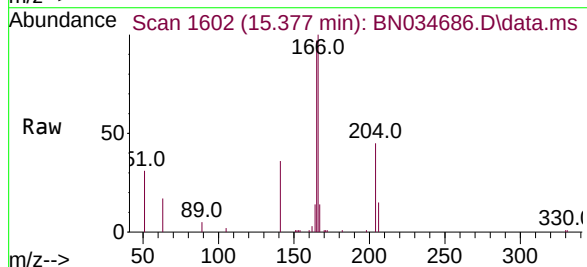
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

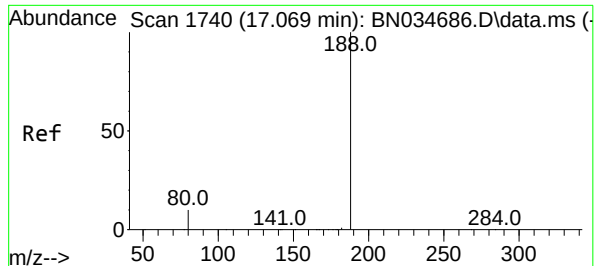
Tgt Ion:154 Resp: 10443
Ion Ratio Lower Upper
154 100
153 110.2 88.2 132.2
152 58.6 46.9 70.3



#18
Fluorene
Concen: 0.340 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:166 Resp: 12923
Ion Ratio Lower Upper
166 100
165 98.5 78.8 118.2
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

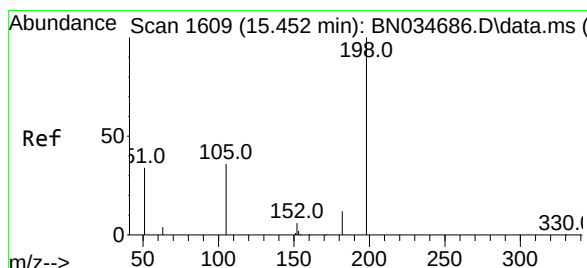
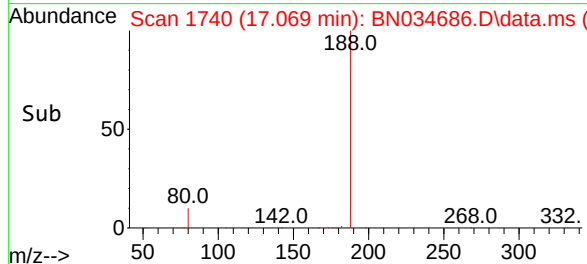
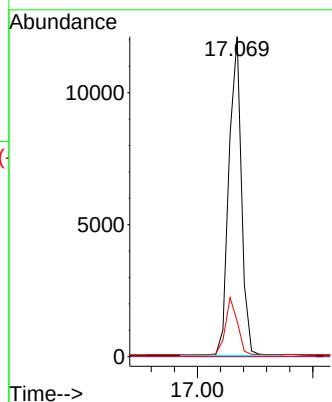
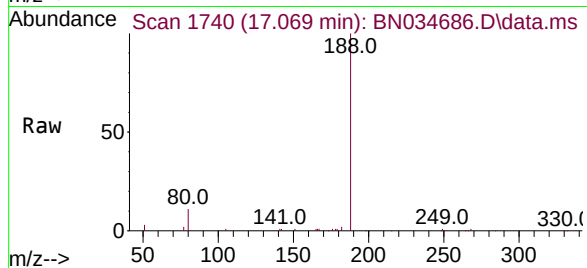
Tgt Ion:188 Resp: 18185

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.311 ng

RT: 15.452 min Scan# 1609

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

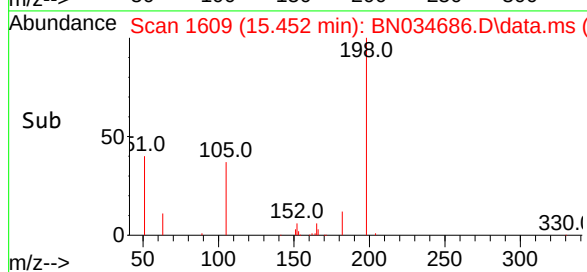
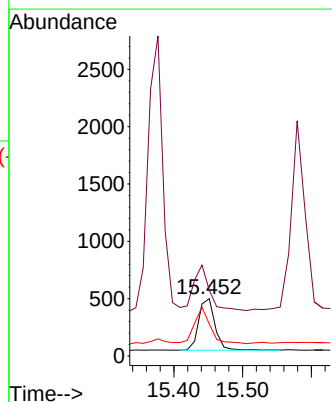
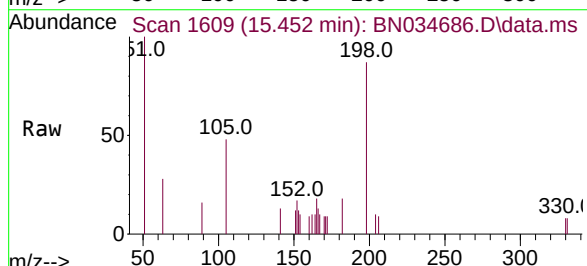
Tgt Ion:198 Resp: 774

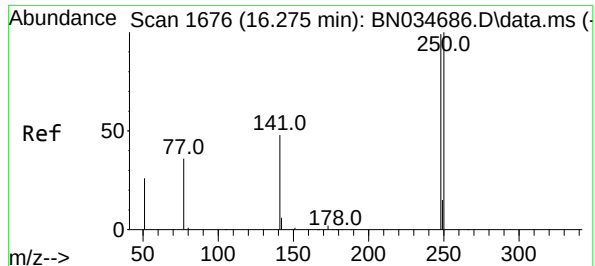
Ion Ratio Lower Upper

198 100

51 114.8 91.8 137.8

105 55.4 44.3 66.5

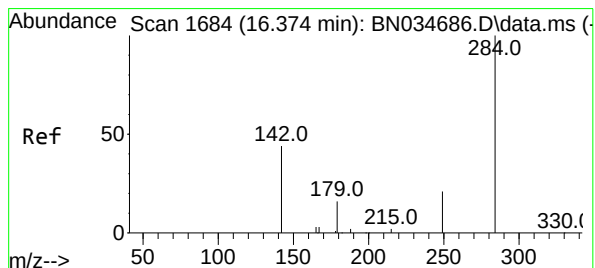
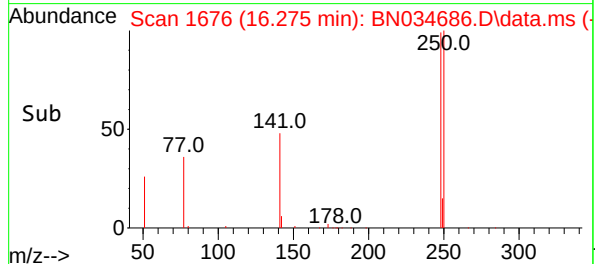
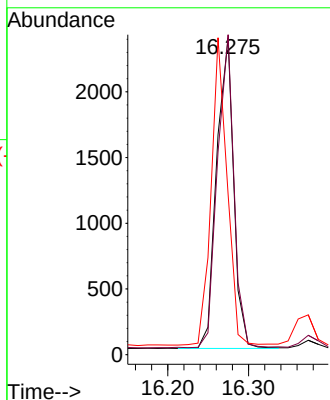
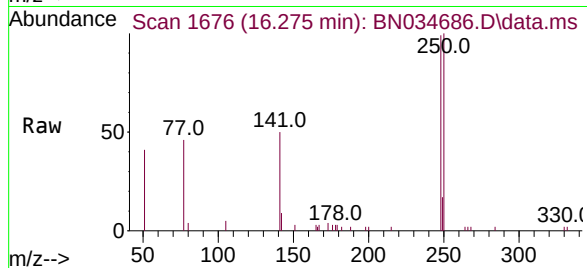




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

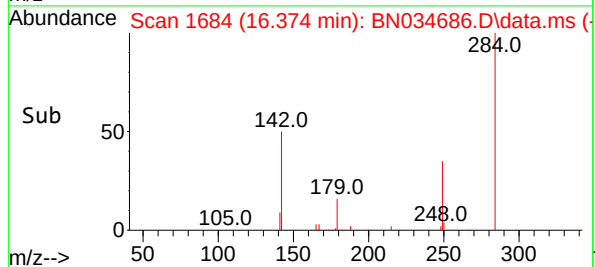
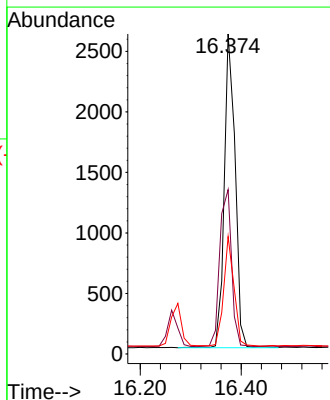
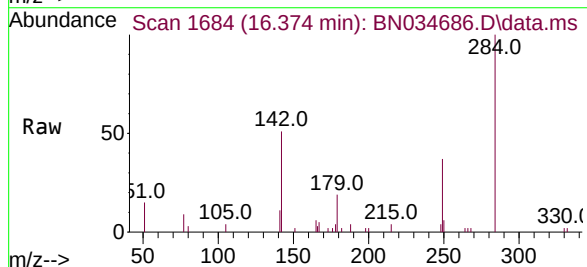
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

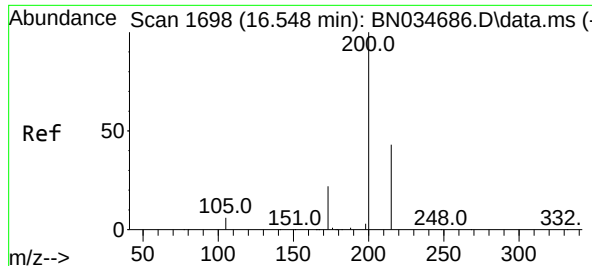
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.9	121.3
141	50.6	40.5	60.7



#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.5	43.6	65.4
249	33.3	26.6	40.0

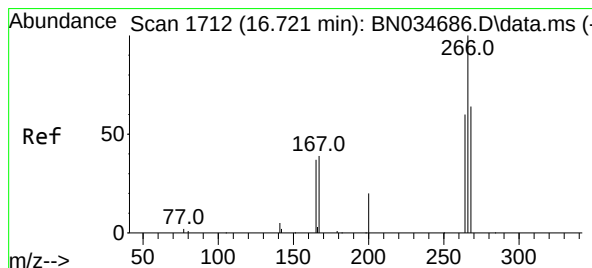
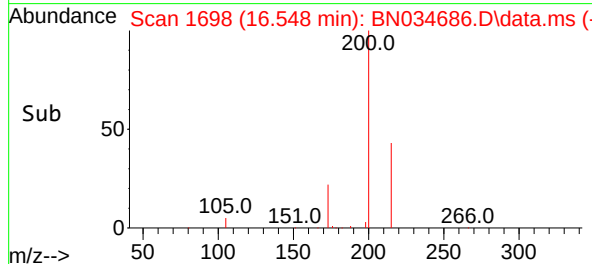
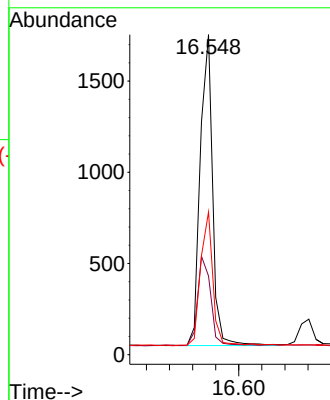
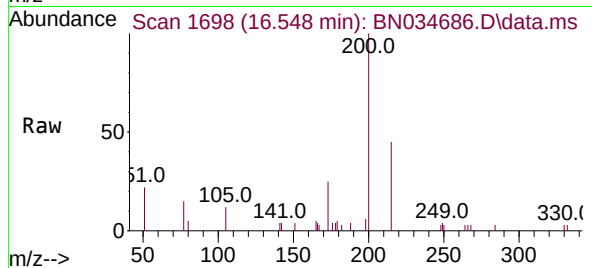




#23
Atrazine
Concen: 0.292 ng
RT: 16.548 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

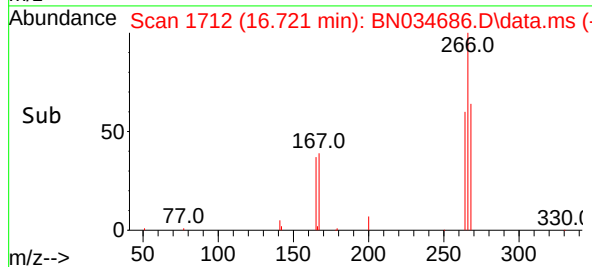
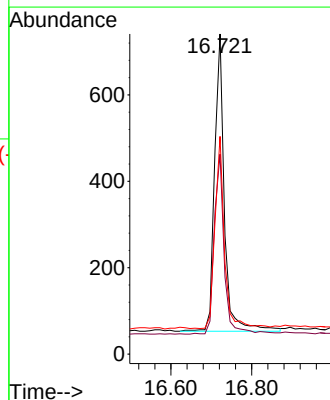
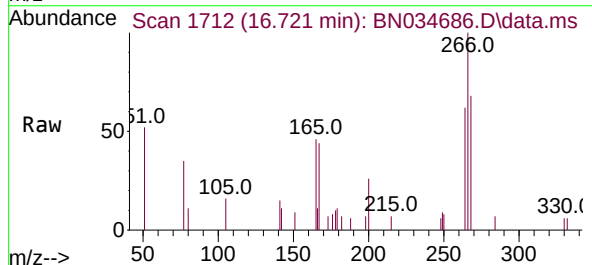
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

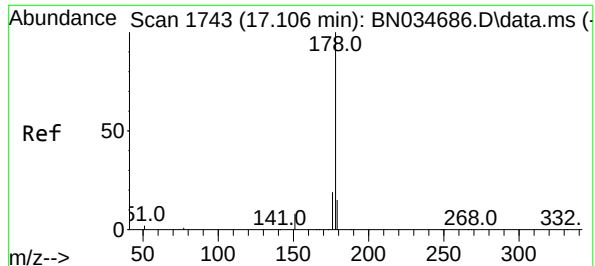
Tgt Ion:200 Resp: 2545
Ion Ratio Lower Upper
200 100
173 24.6 19.7 29.5
215 44.6 35.7 53.5



#24
Pentachlorophenol
Concen: 0.269 ng
RT: 16.721 min Scan# 1712
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion:266 Resp: 1164
Ion Ratio Lower Upper
266 100
264 61.8 49.4 74.2
268 63.1 50.5 75.7





#25

Phenanthrene

Concen: 0.358 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

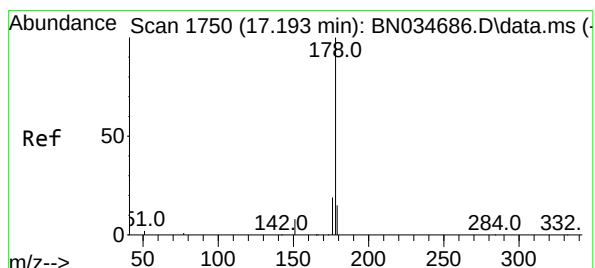
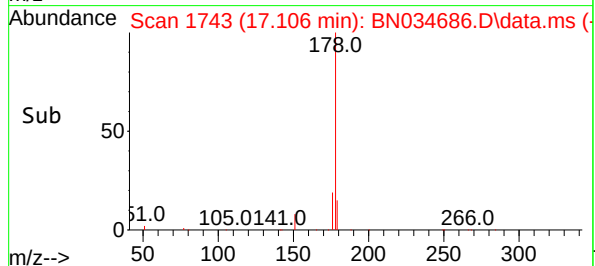
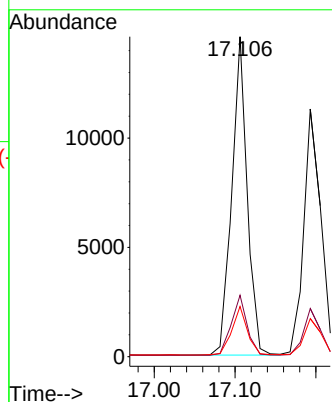
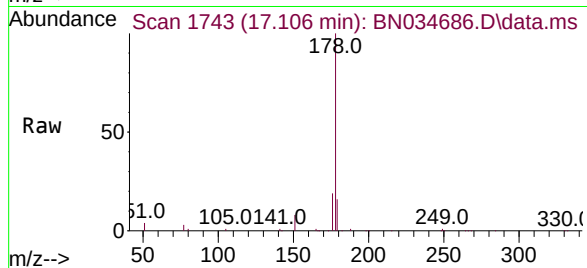
Tgt Ion:178 Resp: 19369

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.350 ng

RT: 17.193 min Scan# 1750

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

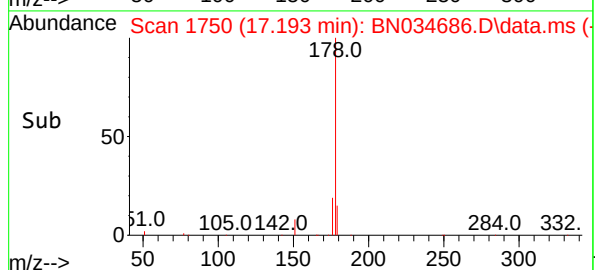
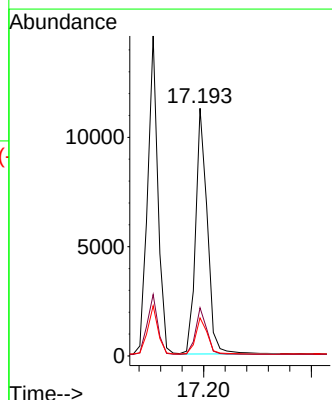
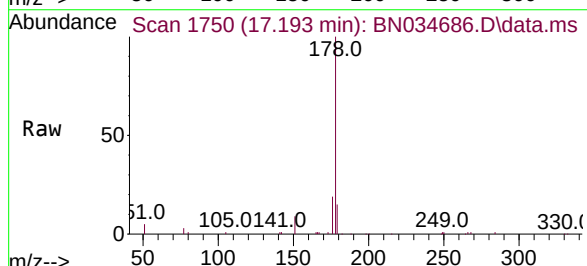
Tgt Ion:178 Resp: 16930

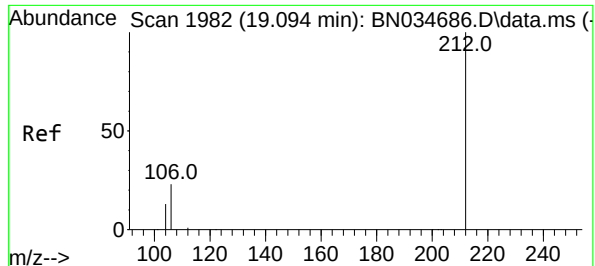
Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.320 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

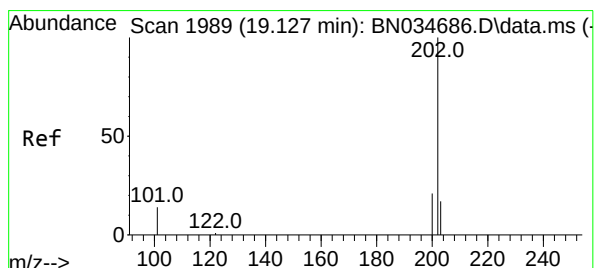
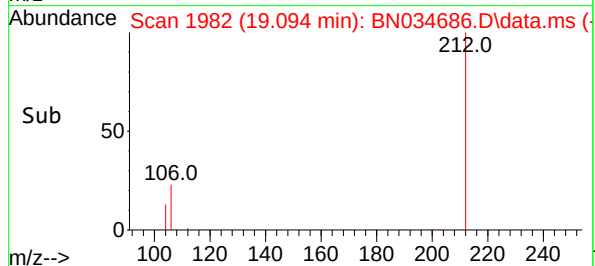
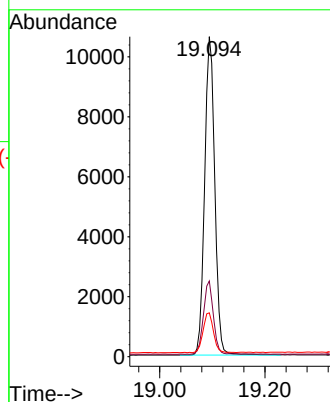
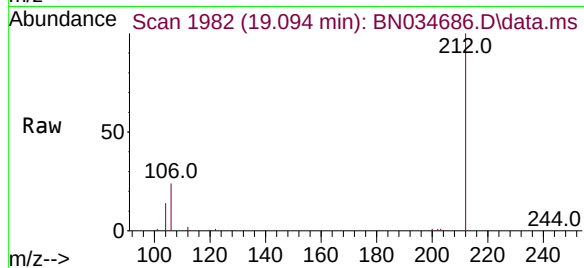
Tgt Ion:212 Resp: 14254

Ion Ratio Lower Upper

212 100

106 22.3 17.8 26.8

104 12.8 10.2 15.4



#28

Fluoranthene

Concen: 0.327 ng

RT: 19.127 min Scan# 1989

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

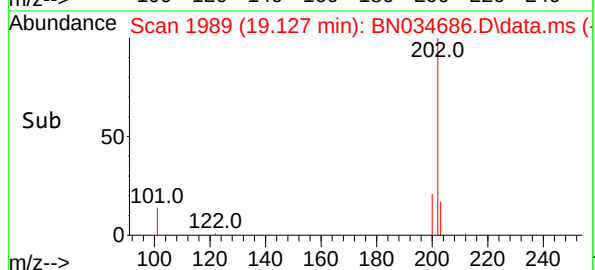
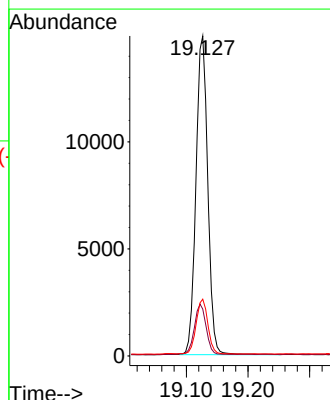
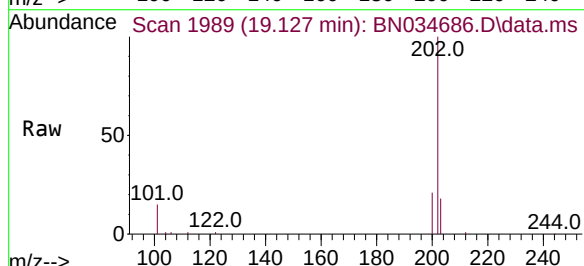
Tgt Ion:202 Resp: 19859

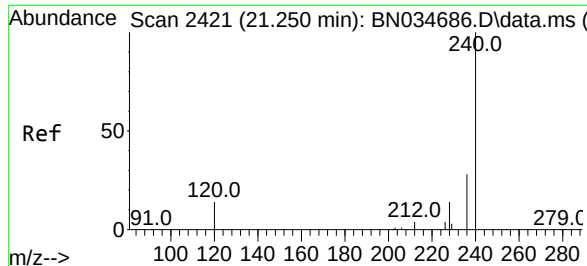
Ion Ratio Lower Upper

202 100

101 16.0 12.8 19.2

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

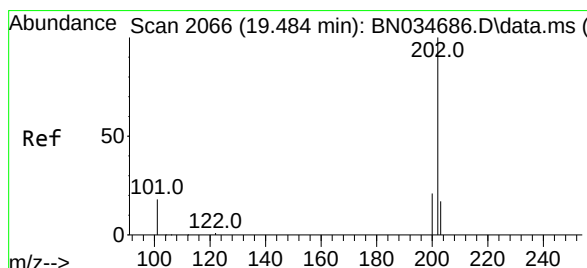
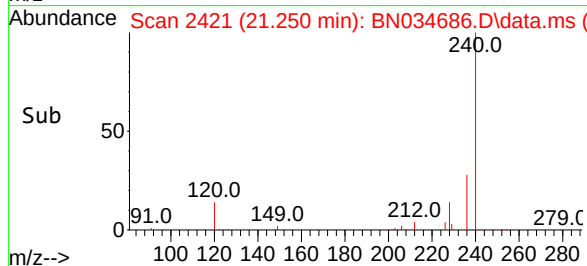
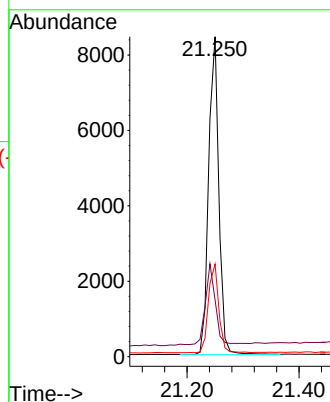
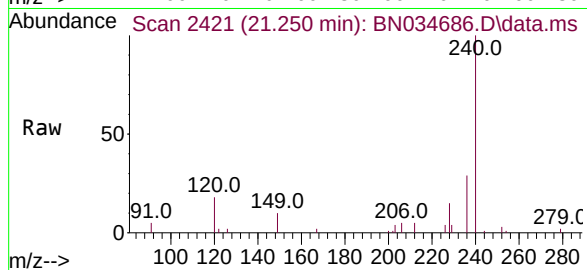
Tgt Ion:240 Resp: 10628

Ion Ratio Lower Upper

240 100

120 17.7 14.2 21.2

236 28.9 23.1 34.7



#30

Pyrene

Concen: 0.420 ng

RT: 19.484 min Scan# 2066

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

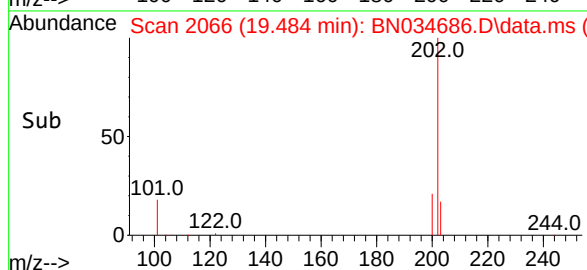
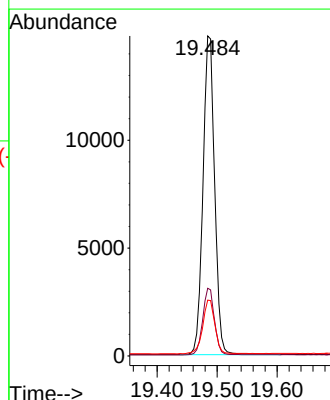
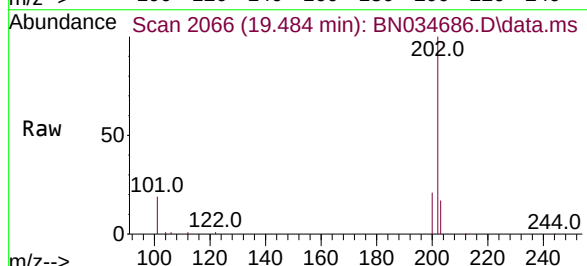
Tgt Ion:202 Resp: 19977

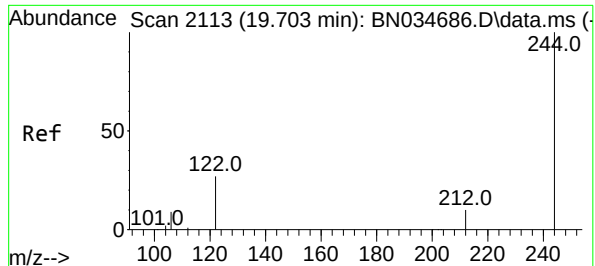
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.8 14.2 21.4

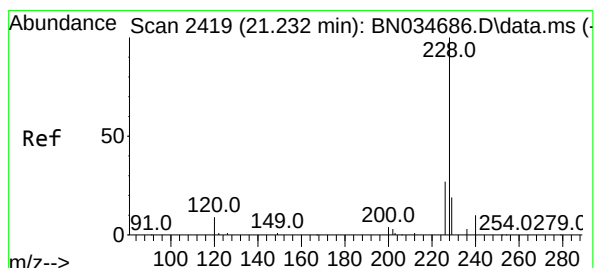
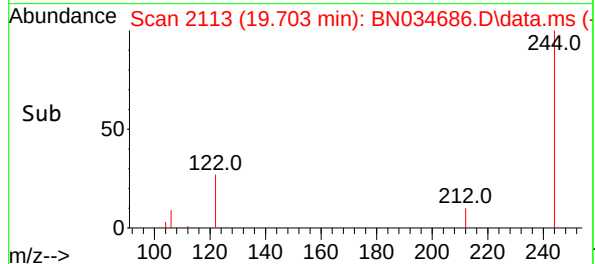
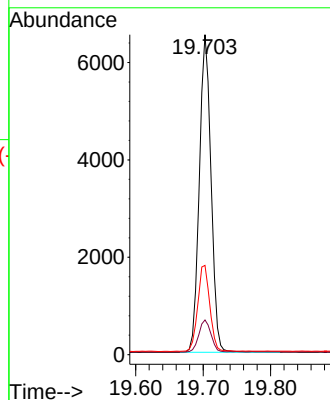
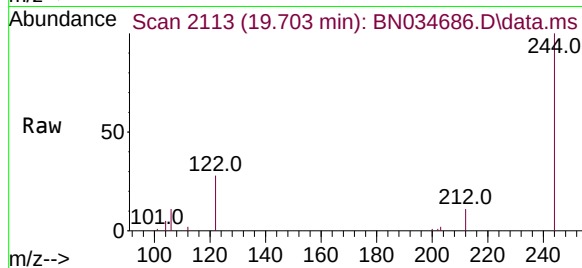




#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

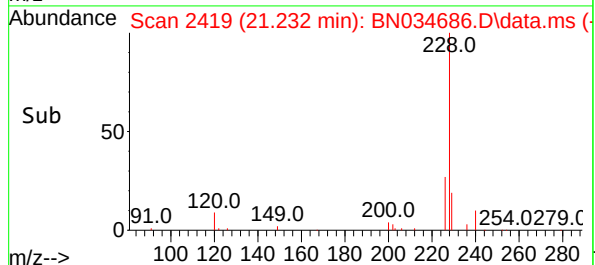
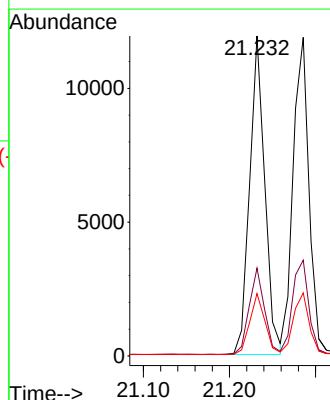
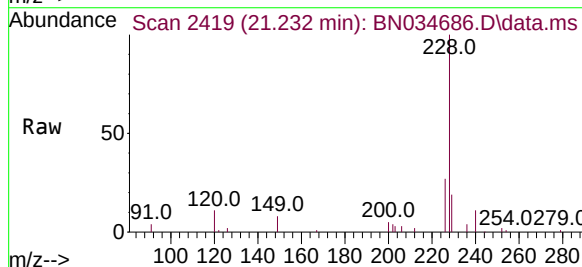
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

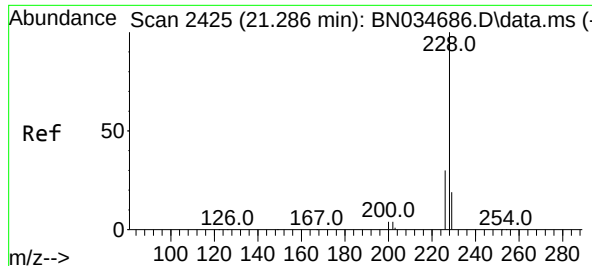
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.6	13.0
122	27.9	22.3	33.5



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.0	33.0
229	19.5	15.6	23.4





#33

Chrysene

Concen: 0.382 ng

RT: 21.286 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

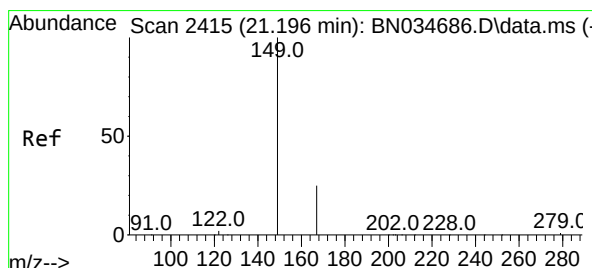
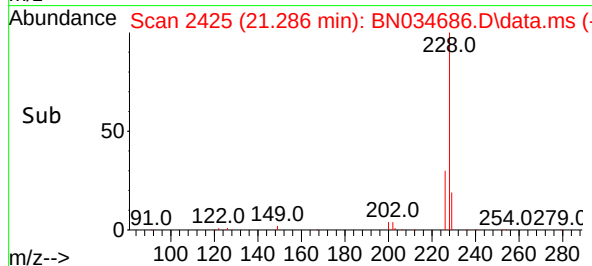
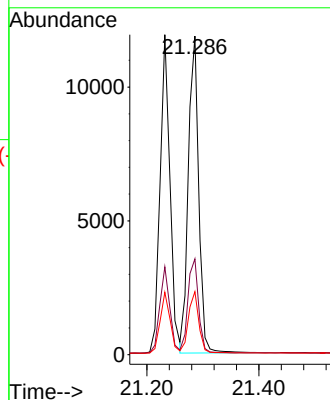
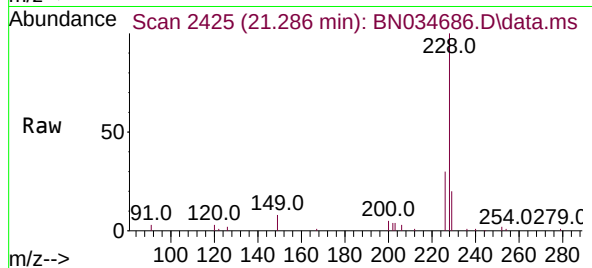
Tgt Ion:228 Resp: 15321

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.278 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

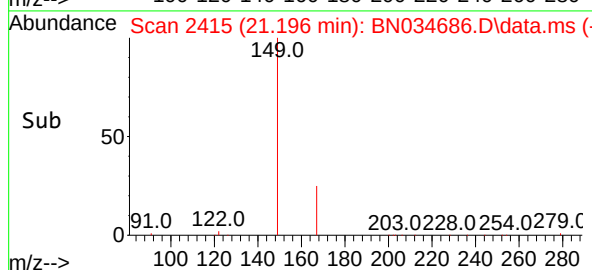
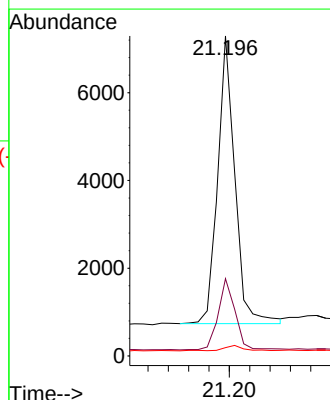
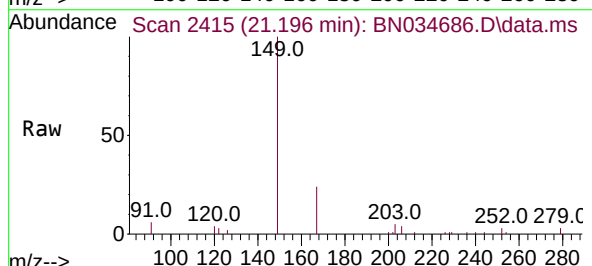
Tgt Ion:149 Resp: 7675

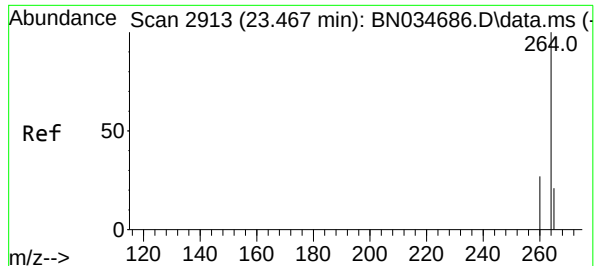
Ion Ratio Lower Upper

149 100

167 24.6 19.7 29.5

279 2.2 1.8 2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

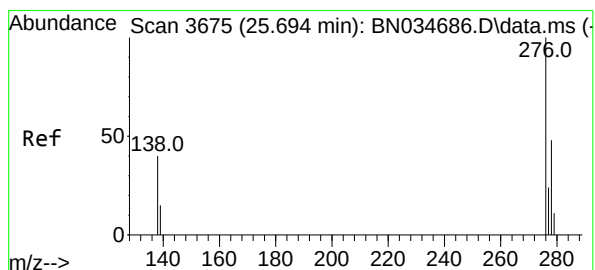
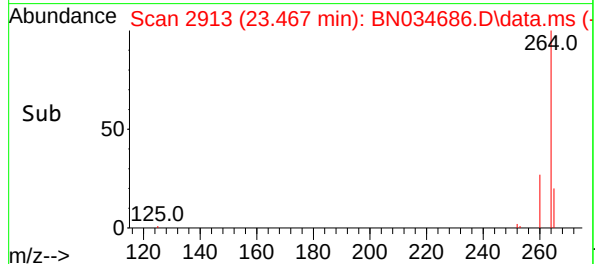
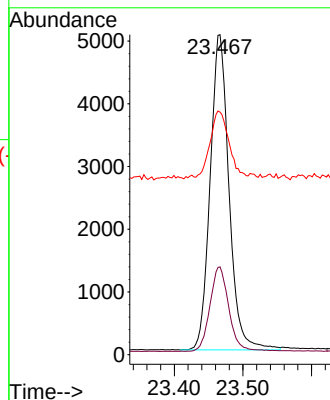
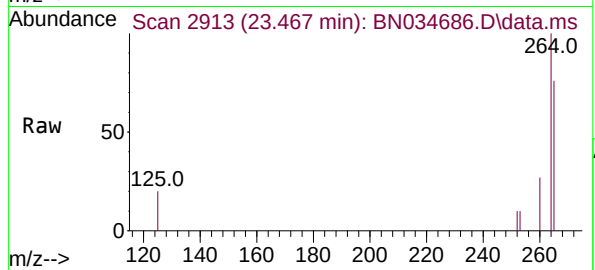
Tgt Ion:264 Resp: 9595

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 75.8 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.368 ng

RT: 25.694 min Scan# 3675

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

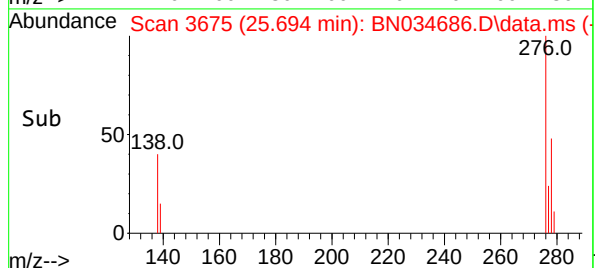
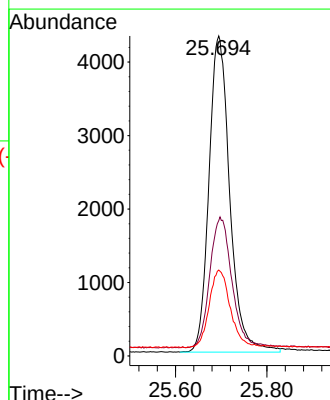
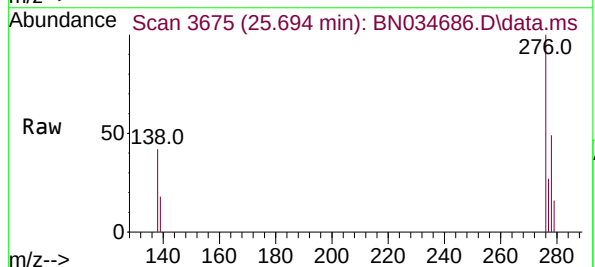
Tgt Ion:276 Resp: 13606

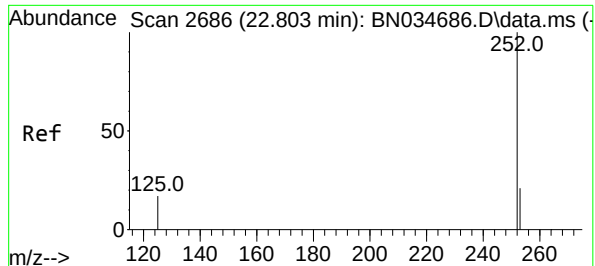
Ion Ratio Lower Upper

276 100

138 43.9 35.1 52.7

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.410 ng

RT: 22.803 min Scan# 2686

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

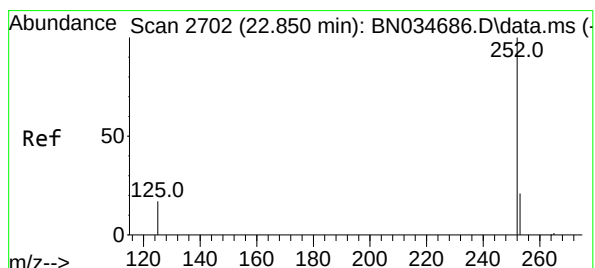
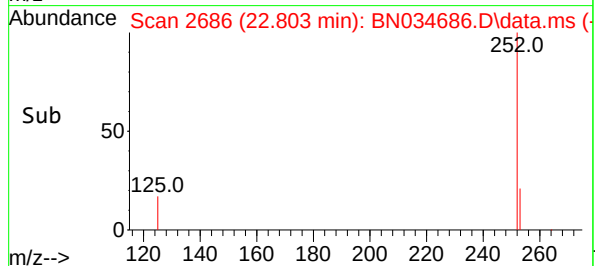
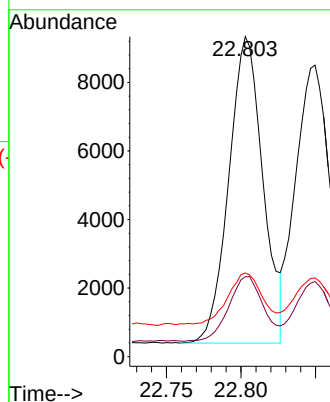
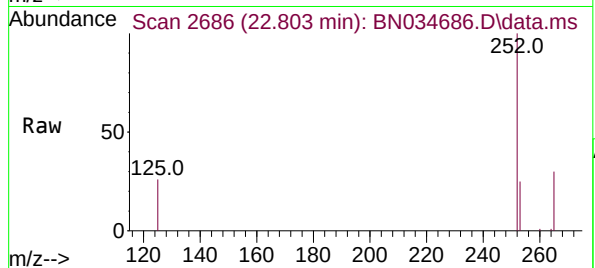
Tgt Ion:252 Resp: 14206

Ion Ratio Lower Upper

252 100

253 25.0 20.0 30.0

125 26.1 20.9 31.3



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.850 min Scan# 2702

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

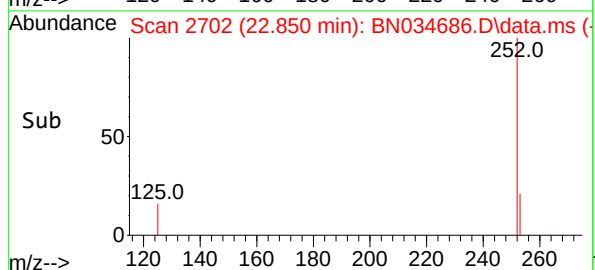
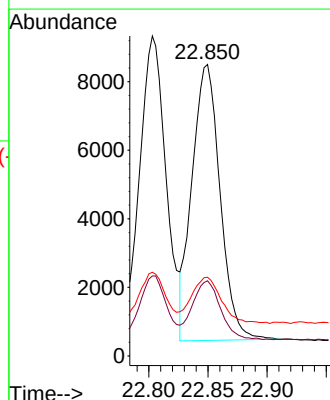
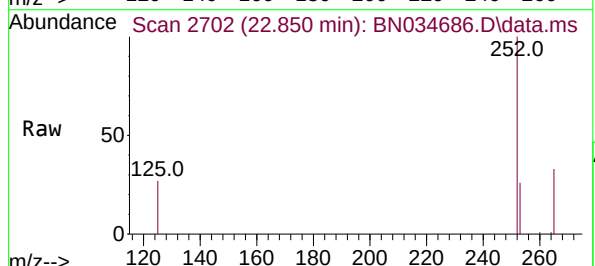
Tgt Ion:252 Resp: 13300

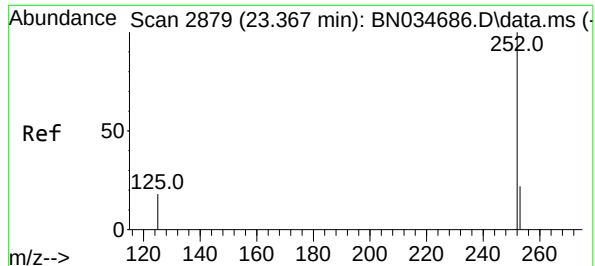
Ion Ratio Lower Upper

252 100

253 25.8 20.6 31.0

125 27.0 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.367 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

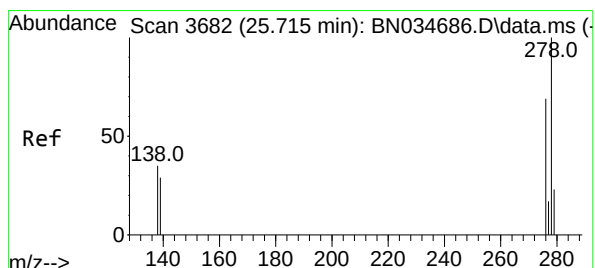
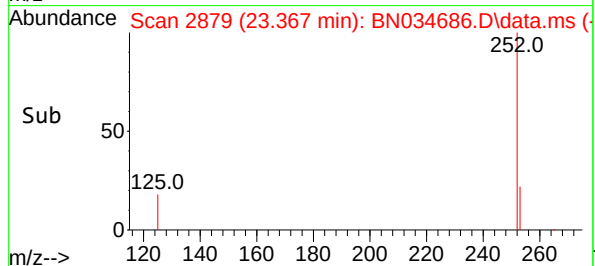
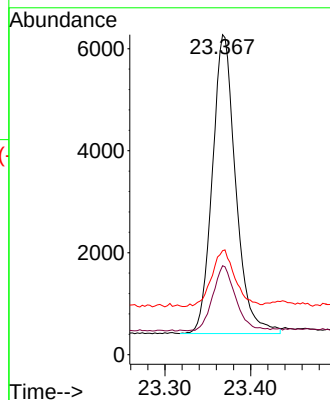
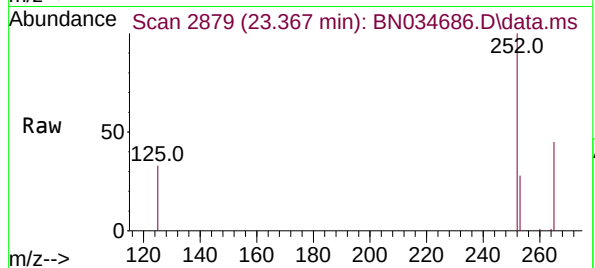
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:252	Resp:	11106
Ion Ratio	Lower	Upper
252	100	
253	27.8	22.2 33.4
125	32.5	26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.368 ng

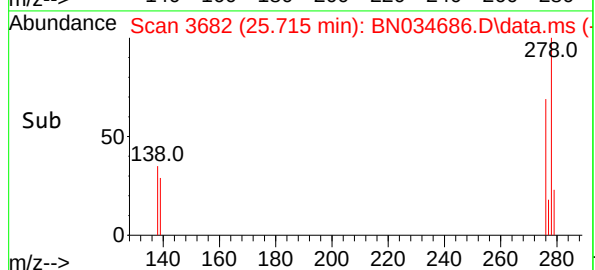
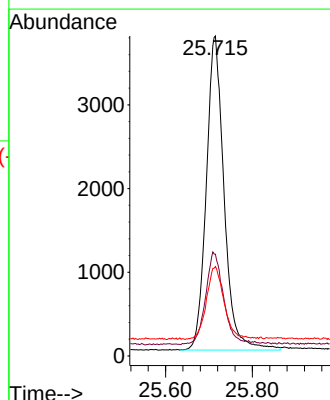
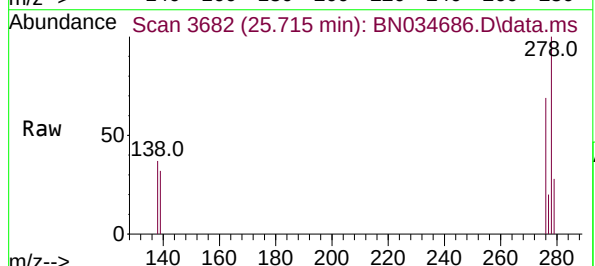
RT: 25.715 min Scan# 3682

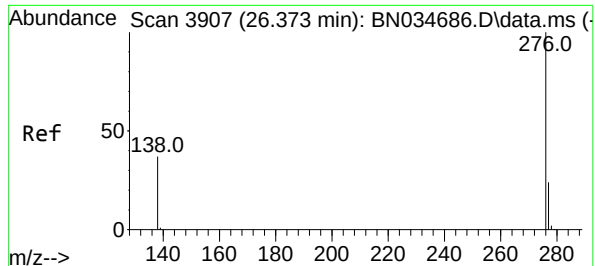
Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Tgt Ion:278	Resp:	10684
Ion Ratio	Lower	Upper
278	100	
139	31.8	25.4 38.2
279	28.0	22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.373 min Scan# 3907

Delta R.T. 0.000 min

Lab File: BN034686.D

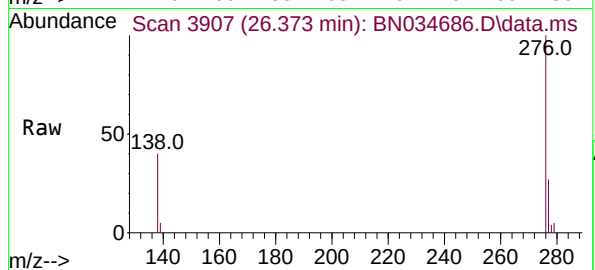
Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



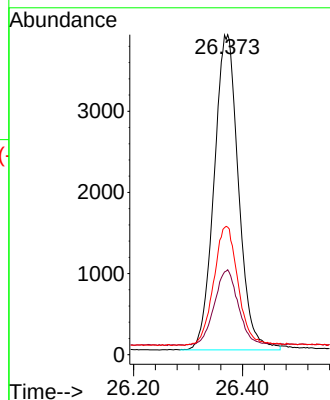
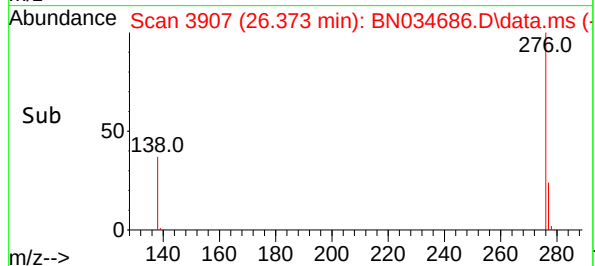
Tgt Ion:276 Resp: 12106

Ion Ratio Lower Upper

276 100

277 26.6 21.3 31.9

138 39.9 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034687.D
 Acq On : 24 Oct 2024 10:59
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024

Quant Time: Oct 24 12:43:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 24 12:41:40 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6279	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18298	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	8788	0.400	ng	0.00
19) Phenanthrene-d10	17.063	188	18528	0.400	ng	# 0.00
29) Chrysene-d12	21.247	240	12066	0.400	ng	# 0.00
35) Perylene-d12	23.467	264	10772	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.321	112	15922	0.829	ng	0.00
5) Phenol-d6	6.881	99	20820	0.847	ng	0.00
8) Nitrobenzene-d5	8.845	82	12949	0.854	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	21347	0.829	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	2227	0.598	ng	0.00
15) 2-Fluorobiphenyl	12.957	172	29939	0.864	ng	0.00
27) Fluoranthene-d10	19.096	212	36834	0.812	ng	0.00
31) Terphenyl-d14	19.705	244	20915	0.896	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	6845	0.895	ng	98
3) n-Nitrosodimethylamine	3.581	42	10574	1.144	ng	# 97
6) bis(2-Chloroethyl)ether	7.141	93	17336	0.921	ng	99
9) Naphthalene	10.532	128	43252	0.857	ng	99
10) Hexachlorobutadiene	10.831	225	6528	0.807	ng	# 99
12) 2-Methylnaphthalene	12.146	142	26668	0.836	ng	100
16) Acenaphthylene	14.047	152	35850	0.849	ng	99
17) Acenaphthene	14.389	154	25224	0.876	ng	99
18) Fluorene	15.373	166	31002	0.864	ng	100
20) 4,6-Dinitro-2-methylph...	15.448	198	2025	0.799	ng	# 77
21) 4-Bromophenyl-phenylether	16.269	248	8290	0.818	ng	# 80
22) Hexachlorobenzene	16.381	284	9007	0.801	ng	98
23) Atrazine	16.542	200	6777	0.764	ng	# 93
24) Pentachlorophenol	16.716	266	3059	0.693	ng	99
25) Phenanthrene	17.101	178	47181	0.856	ng	100
26) Anthracene	17.200	178	41660	0.845	ng	100
28) Fluoranthene	19.129	202	51141	0.827	ng	100
30) Pyrene	19.486	202	51944	0.963	ng	100
32) Benzo(a)anthracene	21.238	228	39570	0.860	ng	99
33) Chrysene	21.283	228	41243	0.906	ng	99
34) Bis(2-ethylhexyl)phtha...	21.203	149	20342	0.650	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.698	276	34379	0.828	ng	100
37) Benzo(b)fluoranthene	22.803	252	36922m	0.948	ng	
38) Benzo(k)fluoranthene	22.850	252	37118	0.977	ng	# 91
39) Benzo(a)pyrene	23.371	252	29490	0.892	ng	# 88
40) Dibenzo(a,h)anthracene	25.718	278	26850	0.823	ng	96
41) Benzo(g,h,i)perylene	26.373	276	29665	0.824	ng	97

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

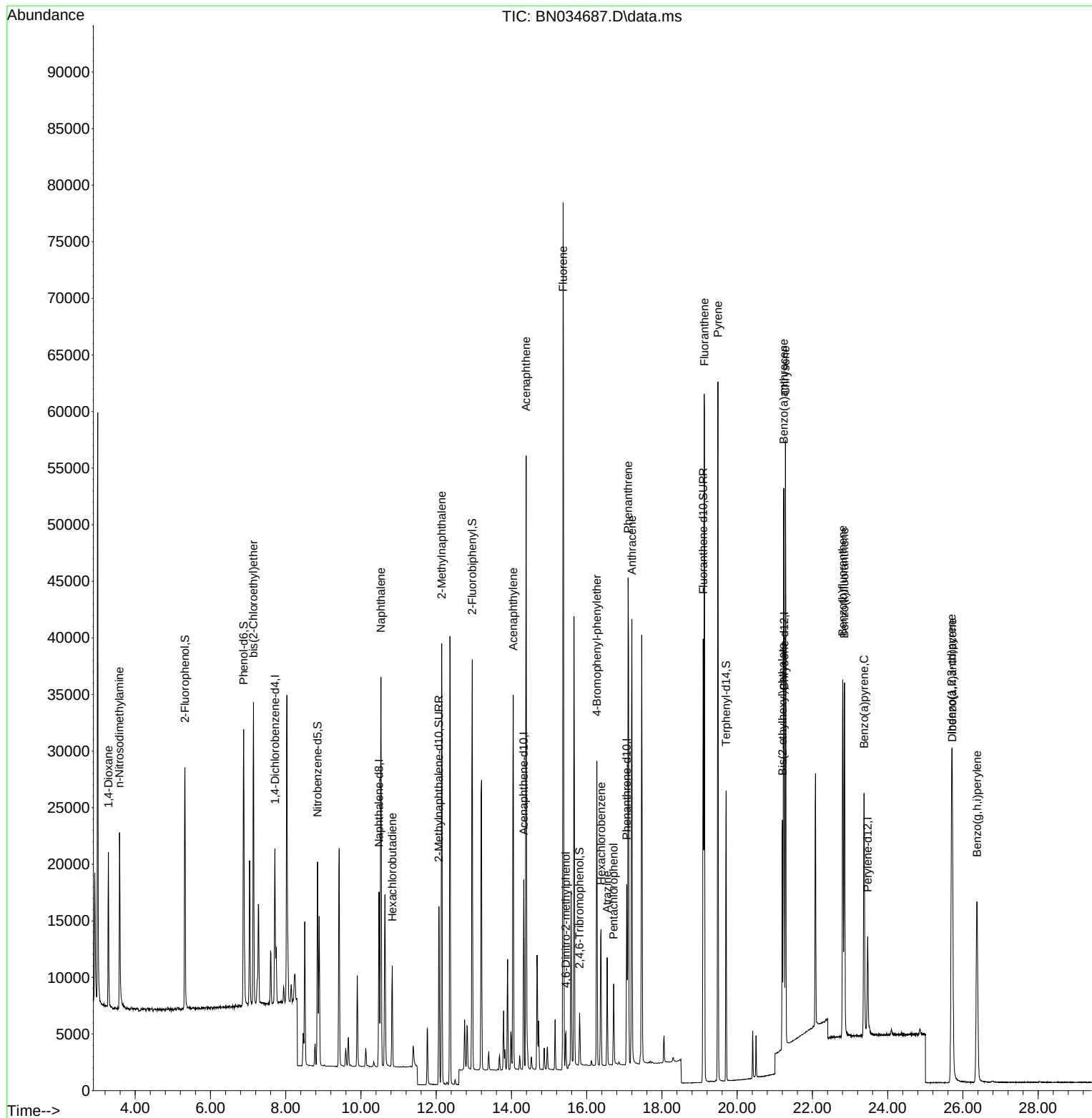
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034687.D
Acq On : 24 Oct 2024 10:59
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

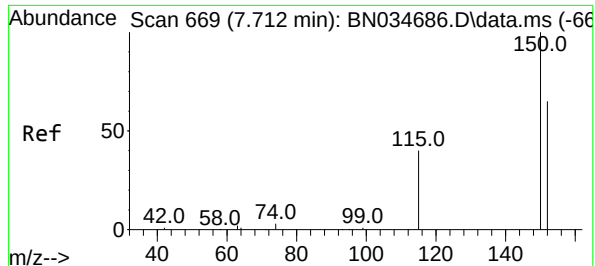
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Oct 24 12:43:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

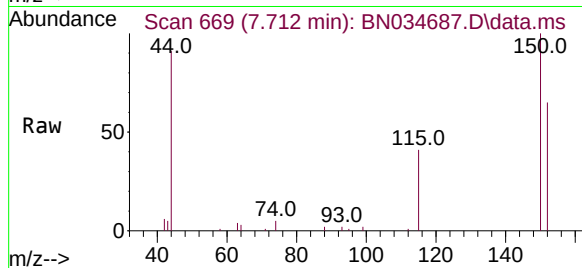
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

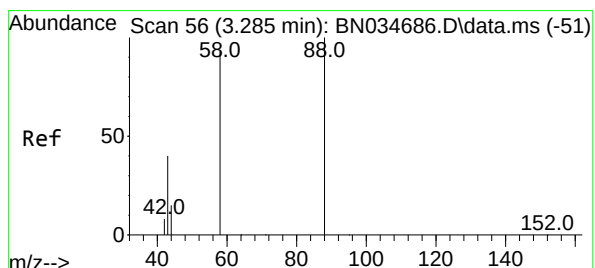
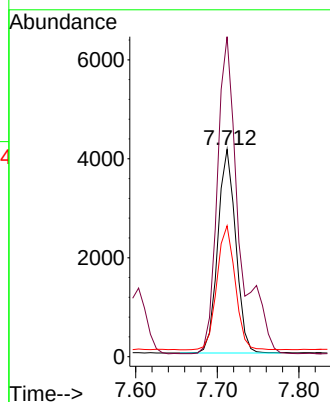
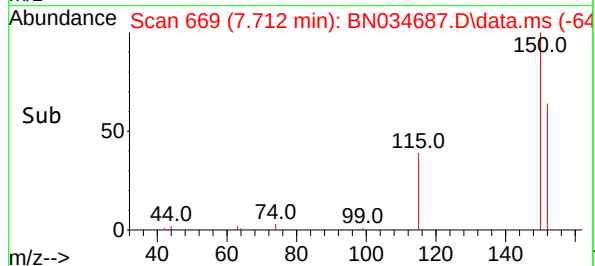
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 6279
Ion Ratio Lower Upper
152 100
150 154.4 122.7 184.1
115 63.2 51.0 76.6

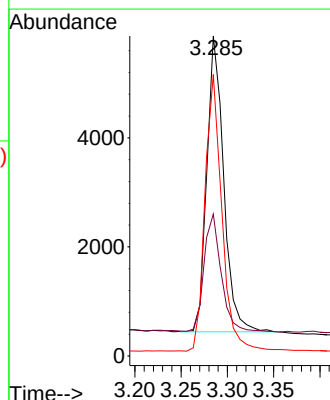
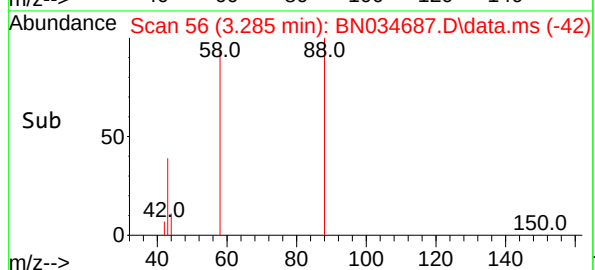
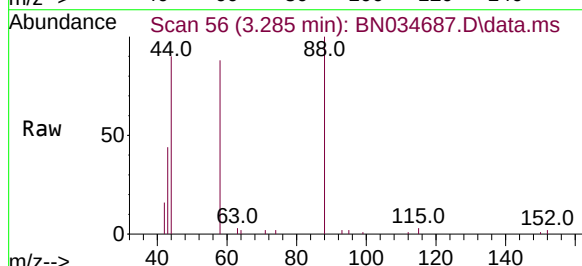
Manual Integrations
APPROVED

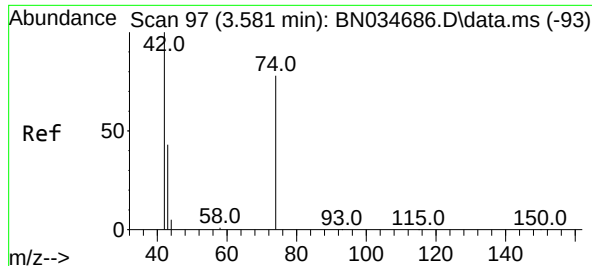
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#2
1,4-Dioxane
Concen: 0.895 ng
RT: 3.285 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion: 88 Resp: 6845
Ion Ratio Lower Upper
88 100
43 41.3 32.1 48.1
58 93.9 73.7 110.5





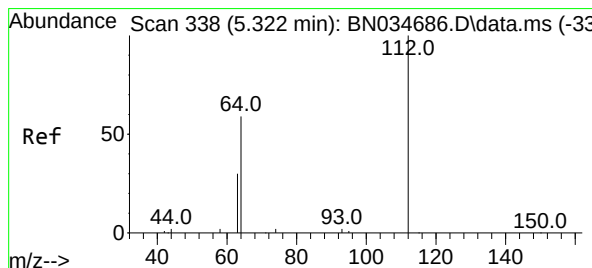
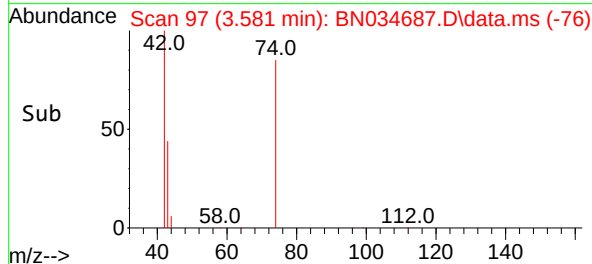
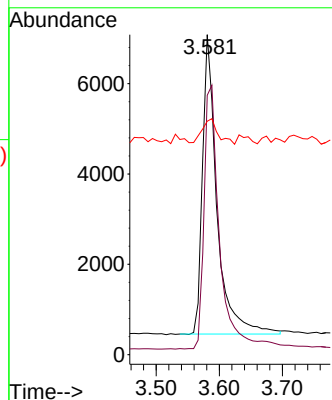
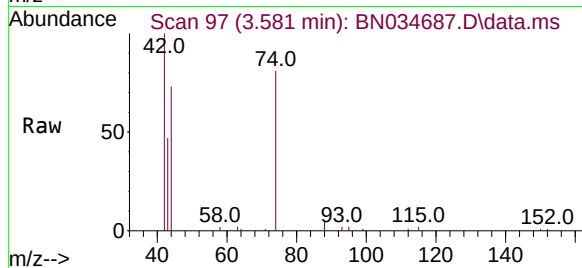
#3
n-Nitrosodimethylamine
Concen: 1.144 ng
RT: 3.581 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 10574
Ion Ratio Lower Upper
42 100
74 95.9 77.2 115.8
44 9.3 13.4 20.2

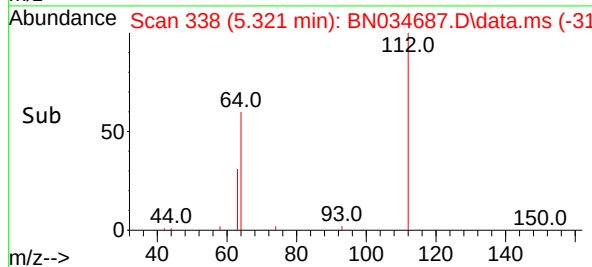
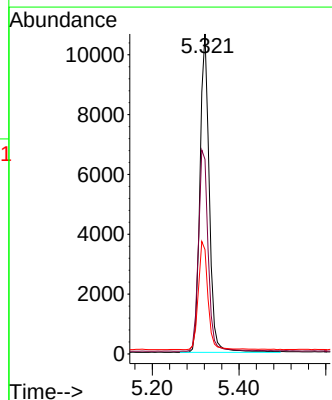
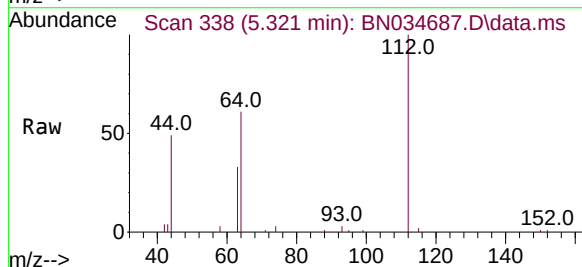
Manual Integrations
APPROVED

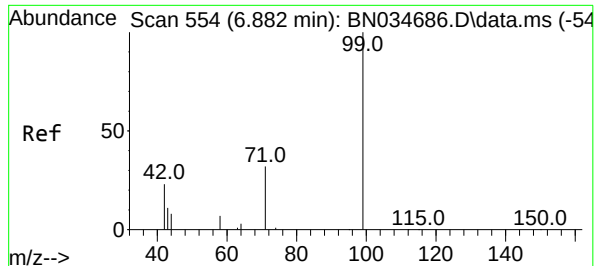
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#4
2-Fluorophenol
Concen: 0.829 ng
RT: 5.321 min Scan# 338
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:112 Resp: 15922
Ion Ratio Lower Upper
112 100
64 66.1 53.0 79.6
63 34.5 27.6 41.4





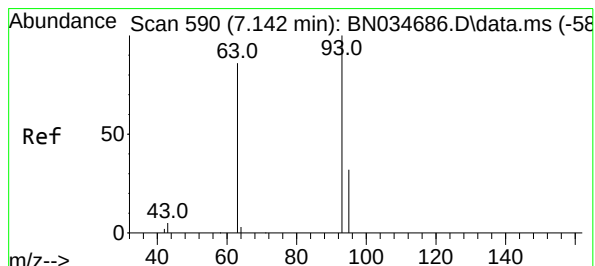
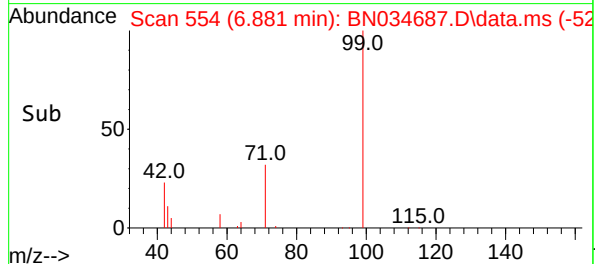
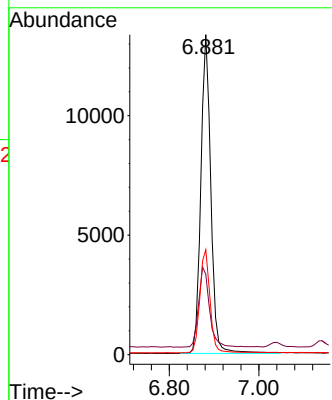
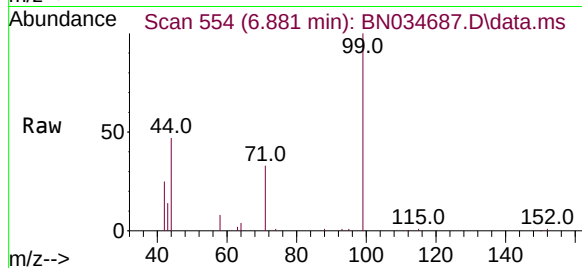
#5
Phenol-d6
Concen: 0.847 ng
RT: 6.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 20820
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.1 26.6 40.0

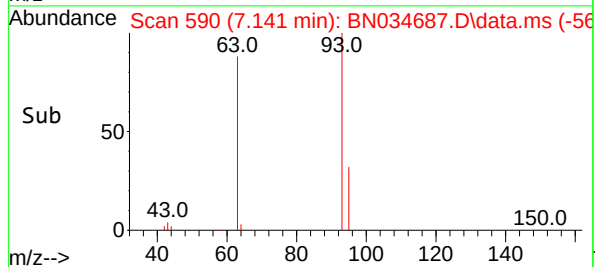
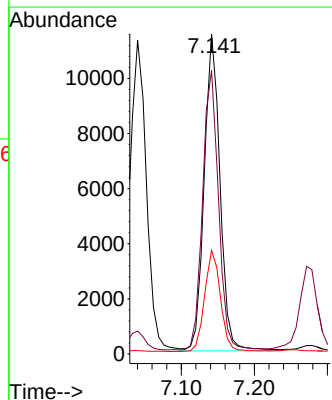
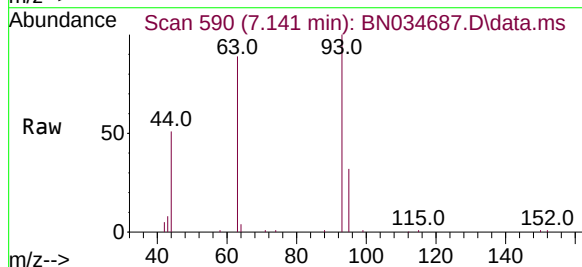
Manual Integrations
APPROVED

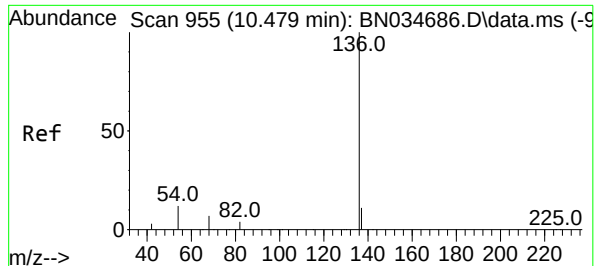
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.921 ng
RT: 7.141 min Scan# 590
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion: 93 Resp: 17336
Ion Ratio Lower Upper
93 100
63 88.1 71.5 107.3
95 32.1 25.8 38.6





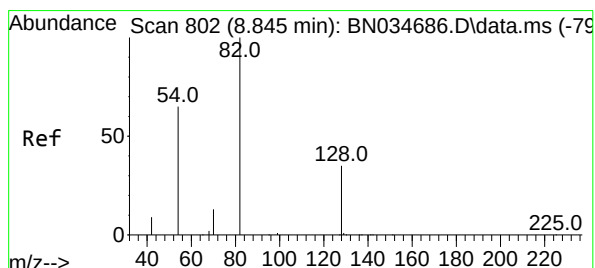
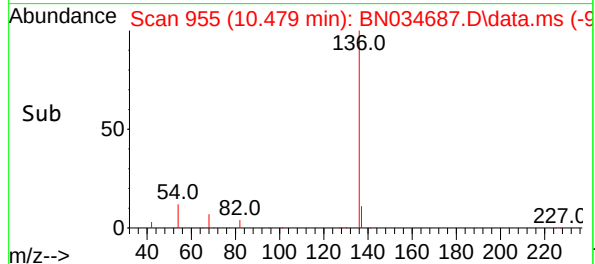
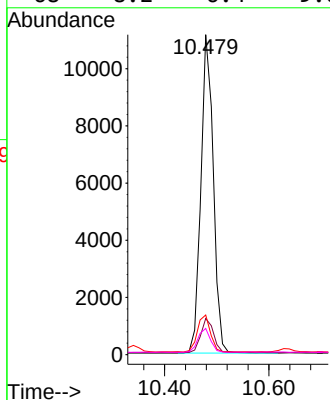
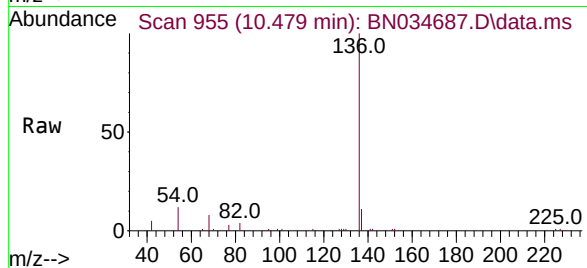
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:	136	Resp:	18298
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	12.4	9.8	14.8
68	8.2	6.4	9.6

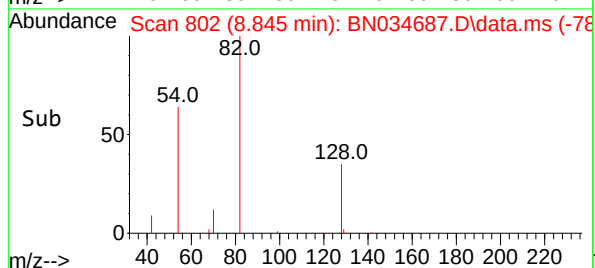
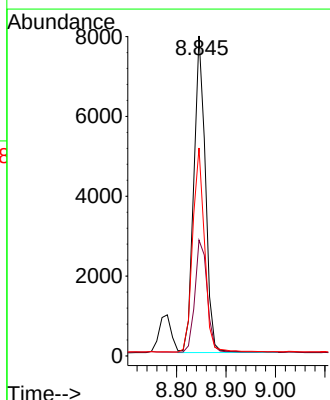
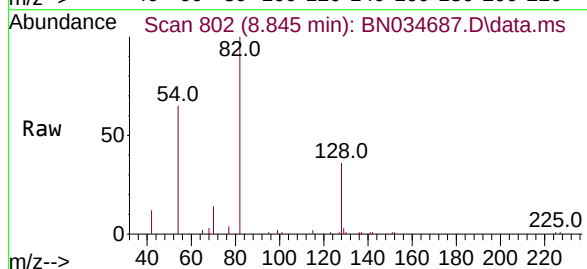
Manual Integrations
APPROVED

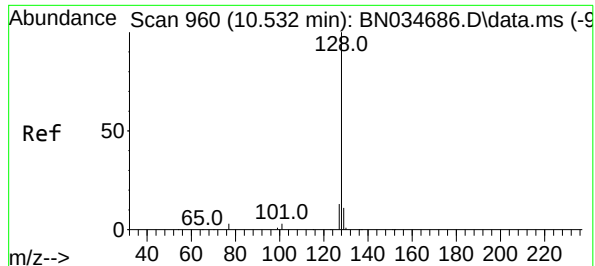
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#8
Nitrobenzene-d5
Concen: 0.854 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:	82	Resp:	12949
Ion	Ratio	Lower	Upper
82	100		
128	36.2	29.7	44.5
54	65.0	53.0	79.6





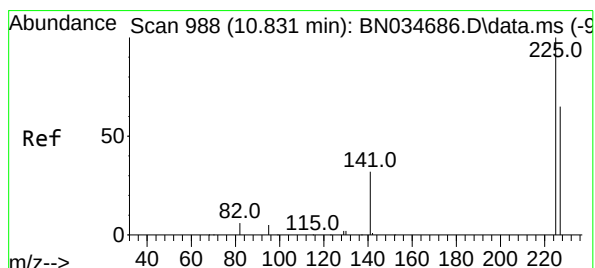
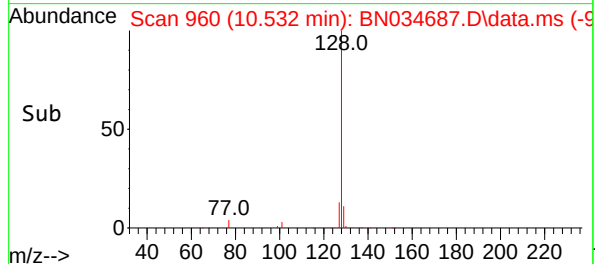
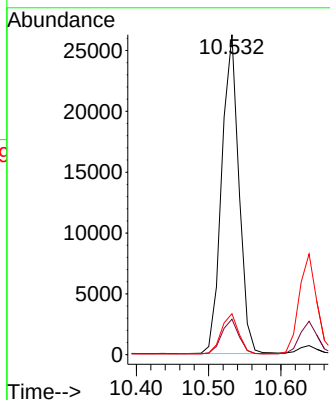
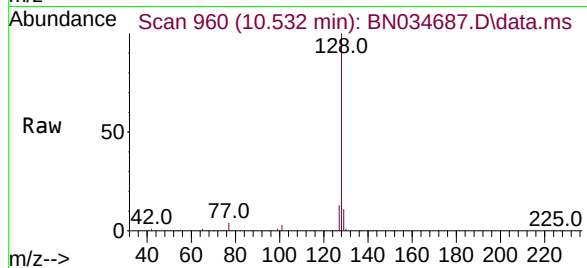
#9
Naphthalene
Concen: 0.857 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 4325
Ion Ratio Lower Upper
128 100
129 11.1 9.0 13.6
127 12.8 10.5 15.7

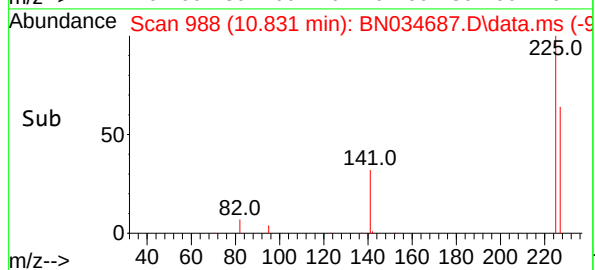
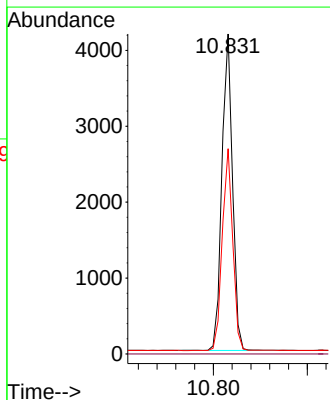
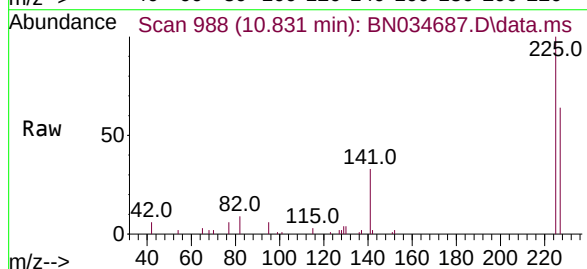
Manual Integrations
APPROVED

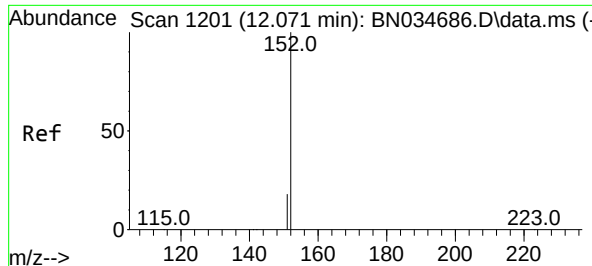
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#10
Hexachlorobutadiene
Concen: 0.807 ng
RT: 10.831 min Scan# 988
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:225 Resp: 6528
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.4 77.0





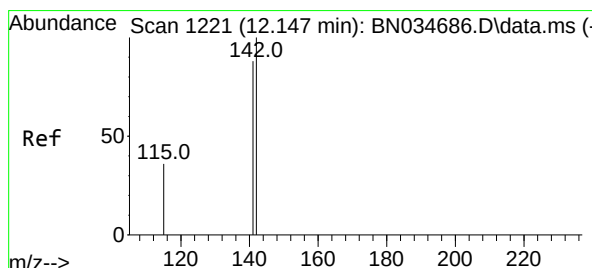
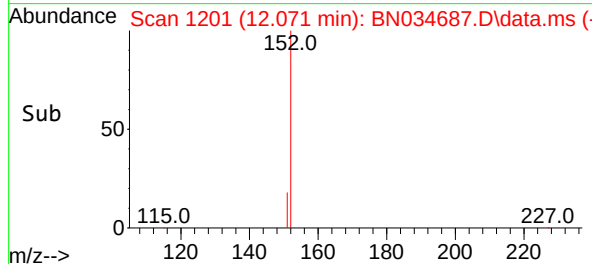
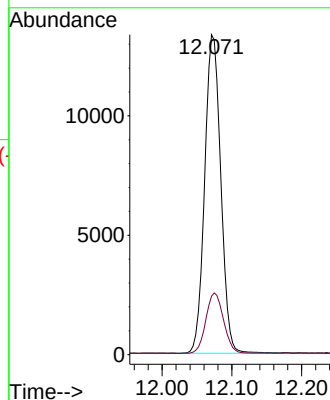
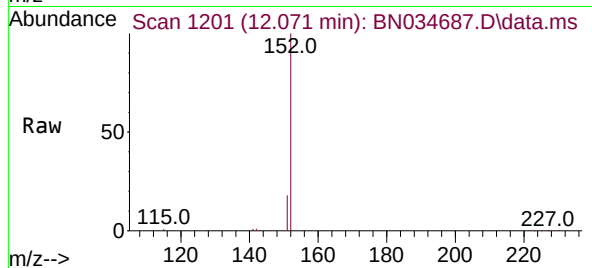
#11
2-Methylnaphthalene-d10
Concen: 0.829 ng
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1

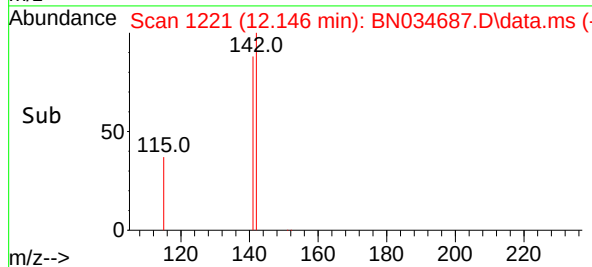
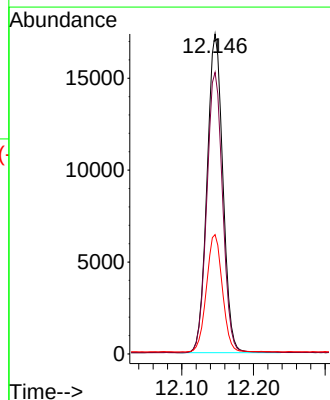
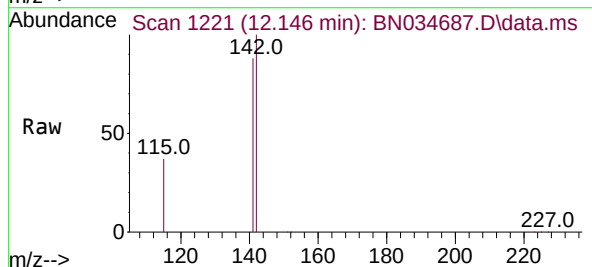
Manual Integrations
APPROVED

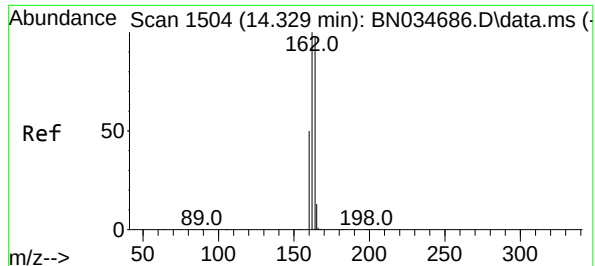
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#12
2-Methylnaphthalene
Concen: 0.836 ng
RT: 12.146 min Scan# 1221
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

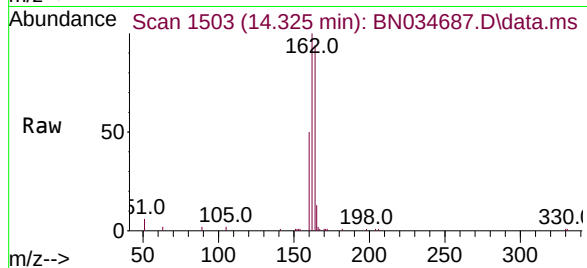
Tgt Ion:142 Resp: 26668
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 37.3 29.8 44.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1504
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

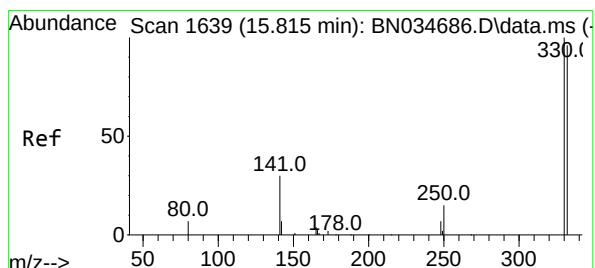
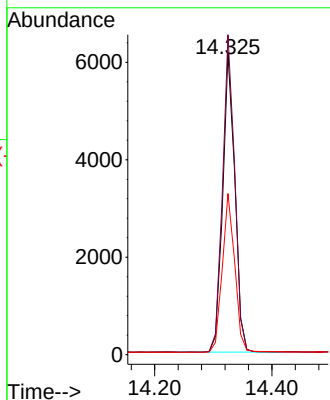
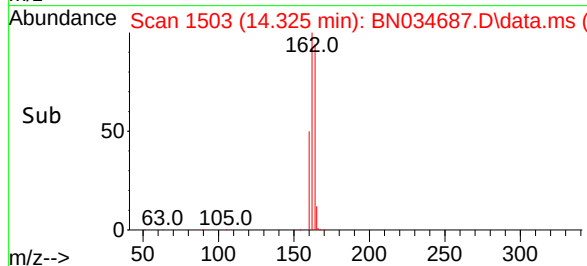
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



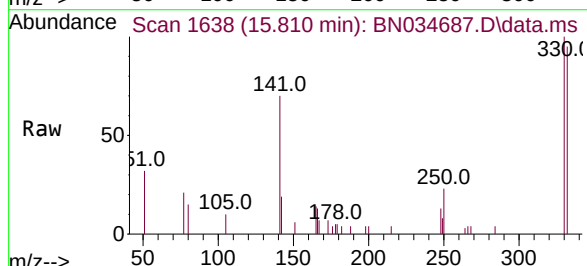
Tgt Ion:164 Resp: 878
Ion Ratio Lower Upper
164 100
162 106.2 81.4 122.0
160 53.4 40.6 61.0

Manual Integrations
APPROVED

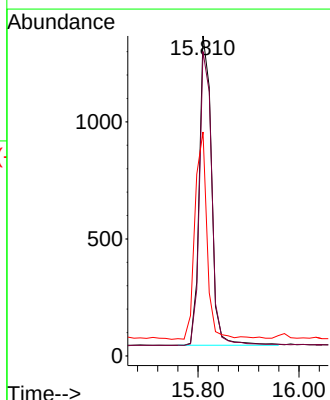
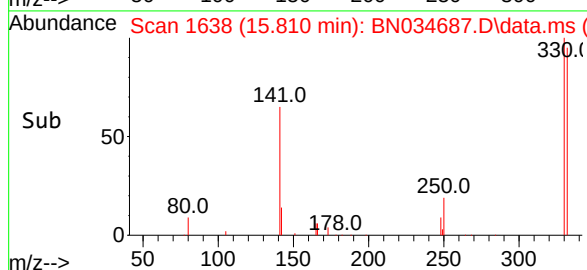
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024

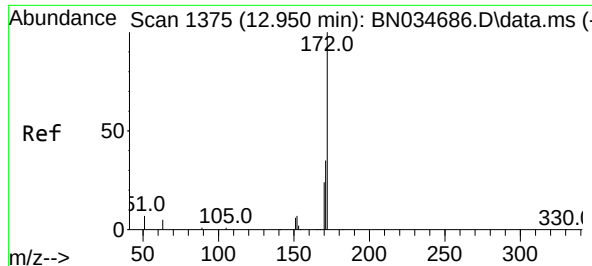


#14
2,4,6-Tribromophenol
Concen: 0.598 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59



Tgt Ion:330 Resp: 2227
Ion Ratio Lower Upper
330 100
332 96.3 76.6 115.0
141 67.4 54.6 81.8





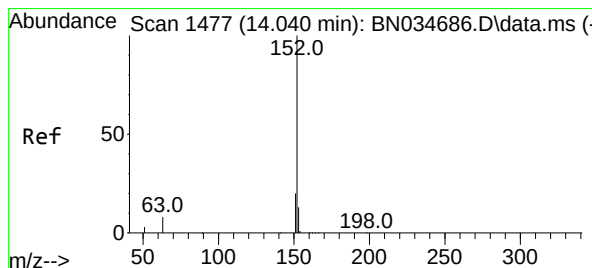
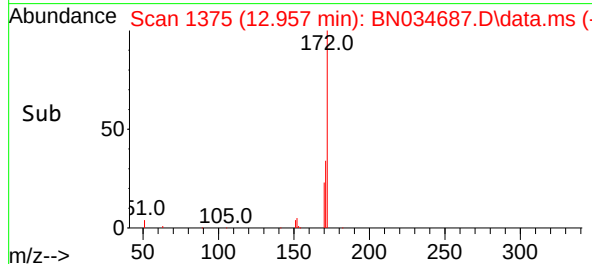
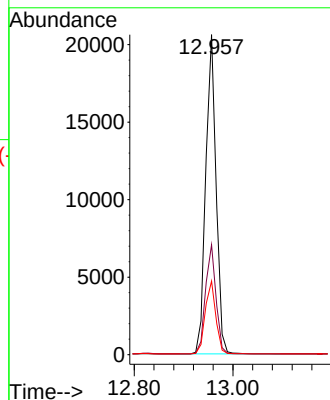
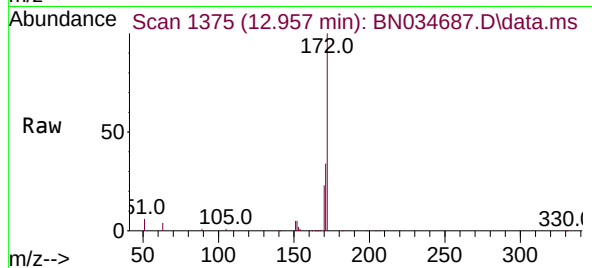
#15
2-Fluorobiphenyl
Concen: 0.864 ng
RT: 12.957 min Scan# 1375
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 29939
Ion Ratio Lower Upper
172 100
171 34.3 28.3 42.5
170 23.0 19.8 29.6

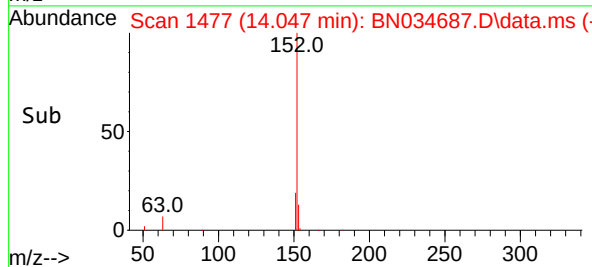
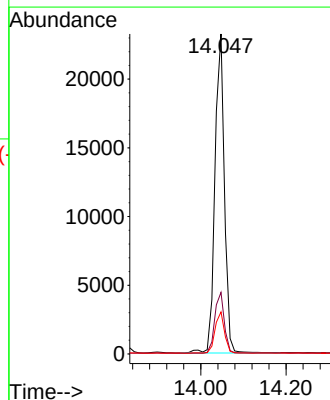
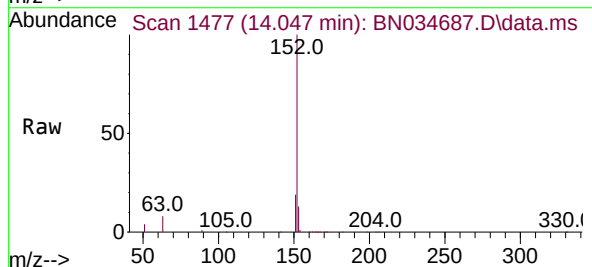
Manual Integrations
APPROVED

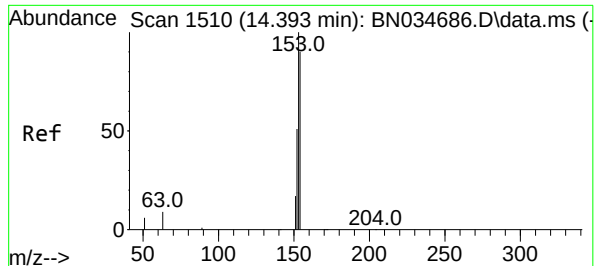
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#16
Acenaphthylene
Concen: 0.849 ng
RT: 14.047 min Scan# 1477
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:152 Resp: 35850
Ion Ratio Lower Upper
152 100
151 19.1 15.6 23.4
153 12.8 10.6 15.8





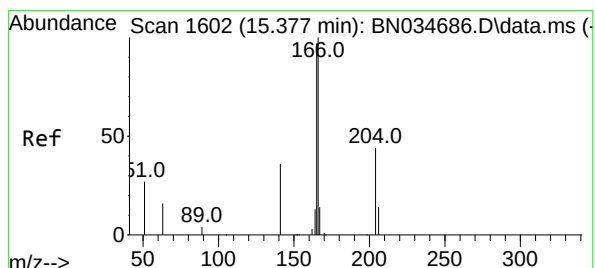
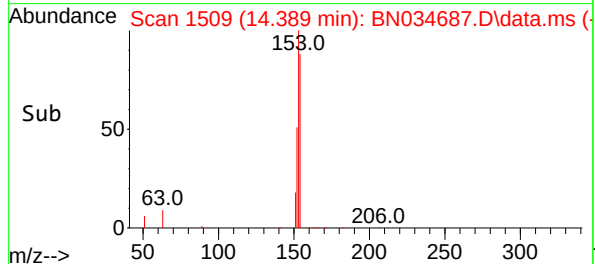
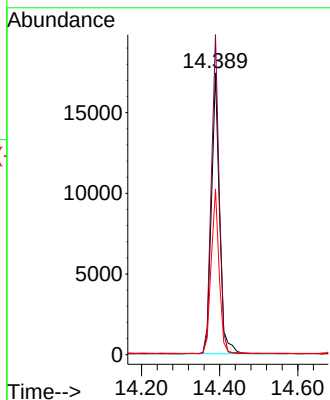
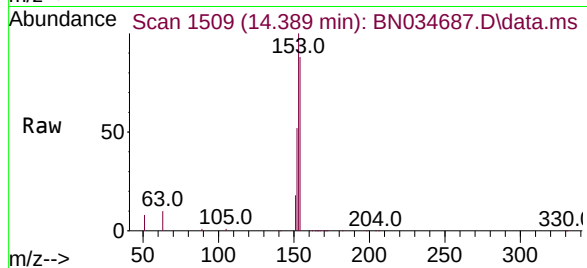
#17
Acenaphthene
Concen: 0.876 ng
RT: 14.389 min Scan# 1509
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 25224
Ion Ratio Lower Upper
154 100
153 109.5 88.2 132.2
152 57.2 46.9 70.3

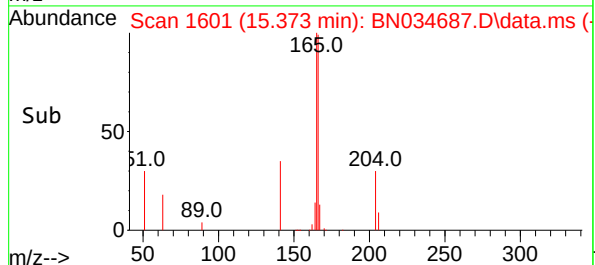
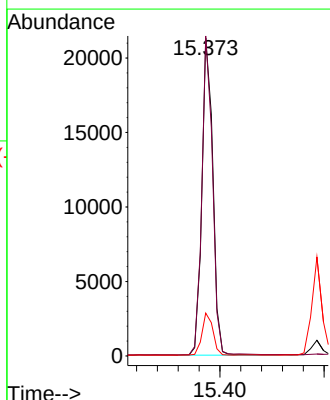
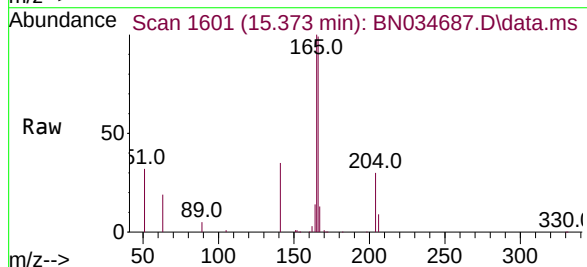
Manual Integrations
APPROVED

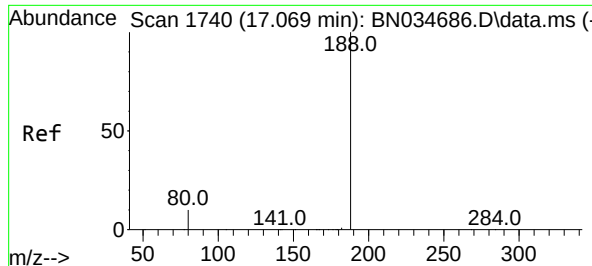
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#18
Fluorene
Concen: 0.864 ng
RT: 15.373 min Scan# 1601
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:166 Resp: 31002
Ion Ratio Lower Upper
166 100
165 98.5 78.8 118.2
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.063 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

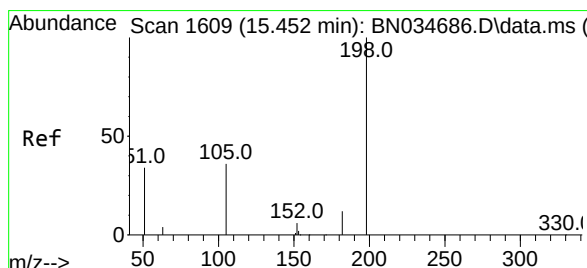
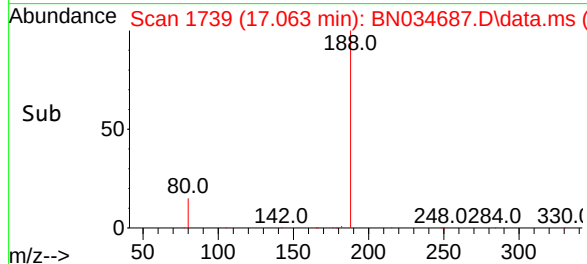
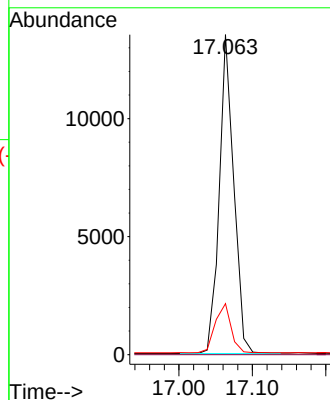
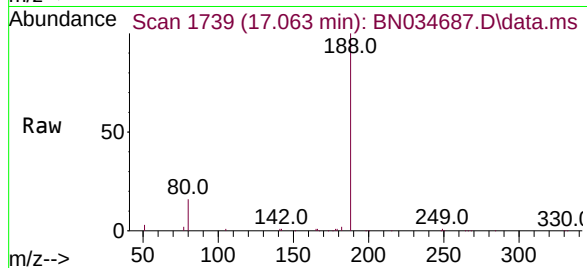
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.9	8.9	13.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.799 ng

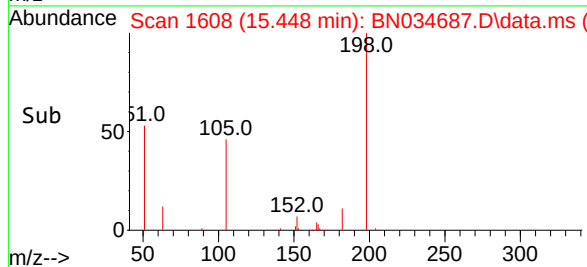
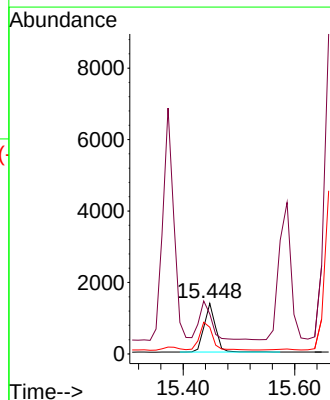
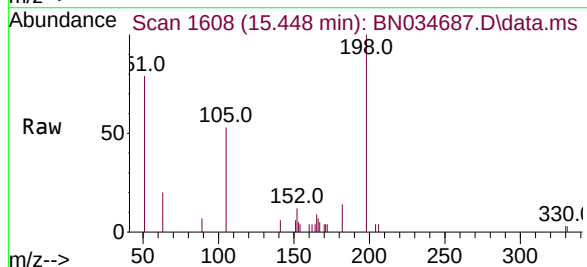
RT: 15.448 min Scan# 1608

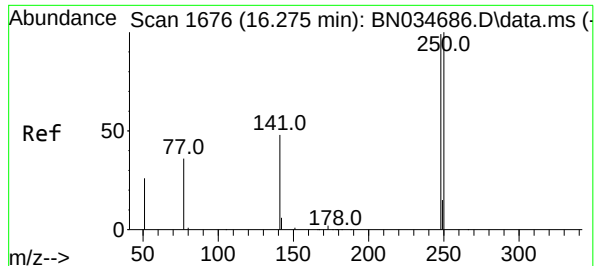
Delta R.T. -0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

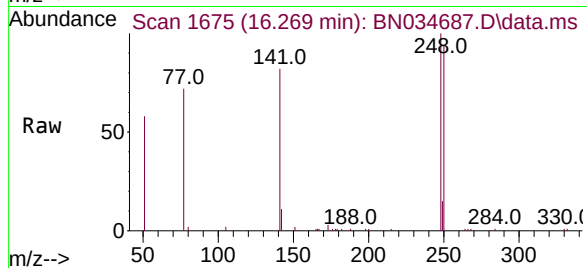
Tgt Ion	Ratio	Lower	Upper
198	100		
51	79.0	91.8	137.8
105	52.7	44.3	66.5





#21
4-Bromophenyl-phenylether
Concen: 0.818 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

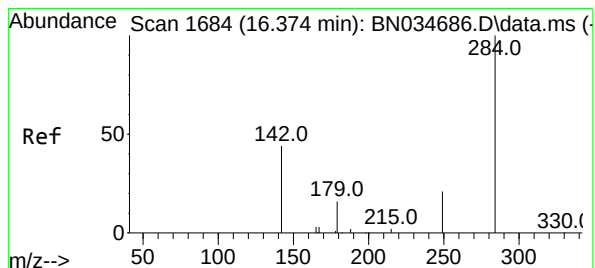
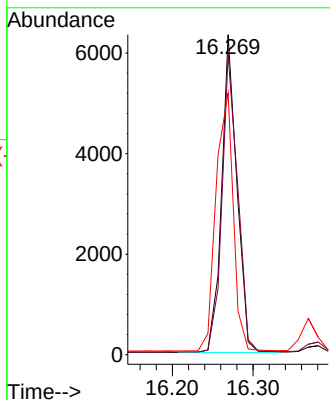
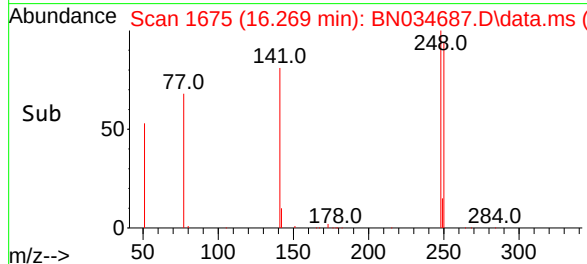
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:248 Resp: 8290
Ion Ratio Lower Upper
248 100
250 93.8 80.9 121.3
141 81.7 40.5 60.7

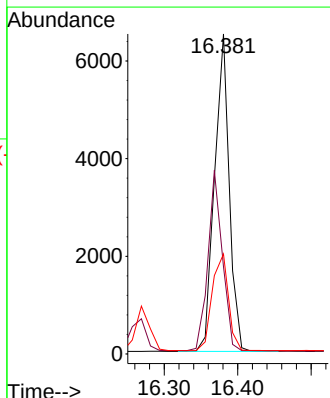
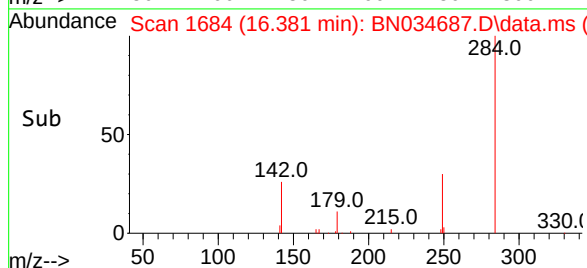
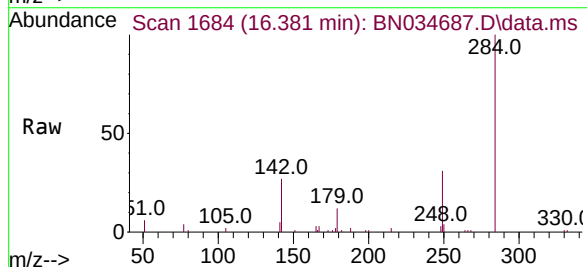
Manual Integrations
APPROVED

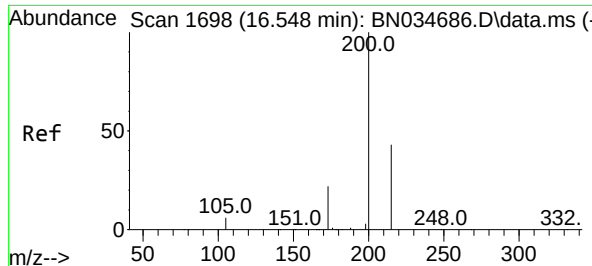
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#22
Hexachlorobenzene
Concen: 0.801 ng
RT: 16.381 min Scan# 1684
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

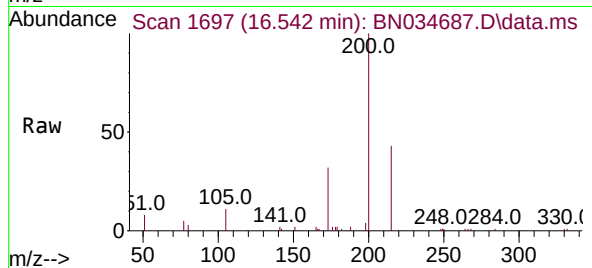
Tgt Ion:284 Resp: 9007
Ion Ratio Lower Upper
284 100
142 56.0 43.6 65.4
249 34.1 26.6 40.0





#23
Atrazine
Concen: 0.764 ng
RT: 16.542 min Scan# 1698
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

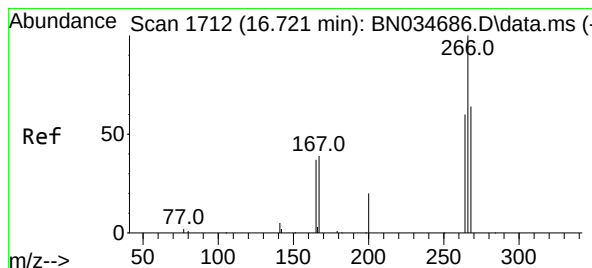
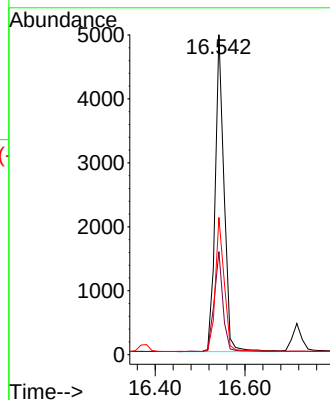
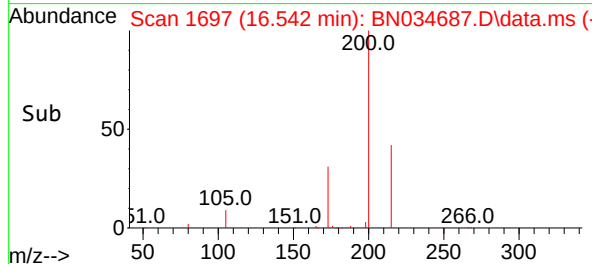
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:200 Resp: 677
Ion Ratio Lower Upper
200 100
173 32.2 19.7 29.5
215 42.9 35.7 53.5

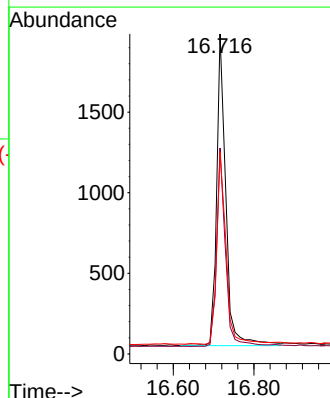
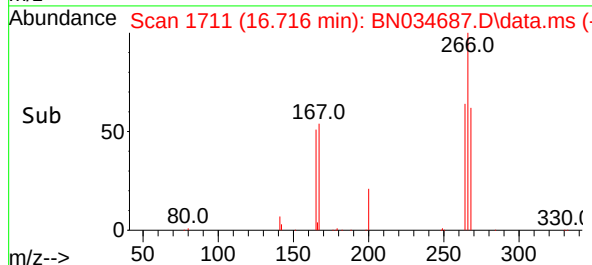
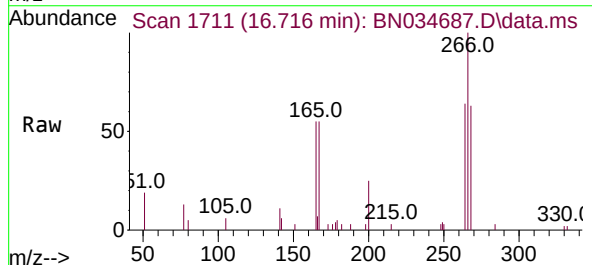
Manual Integrations
APPROVED

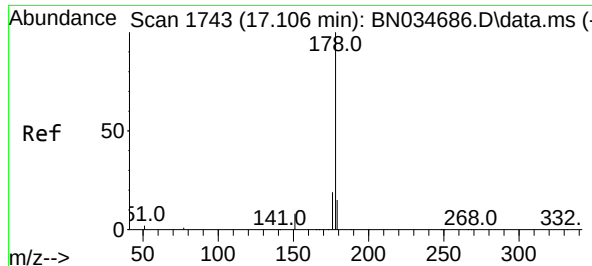
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#24
Pentachlorophenol
Concen: 0.693 ng
RT: 16.716 min Scan# 1711
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

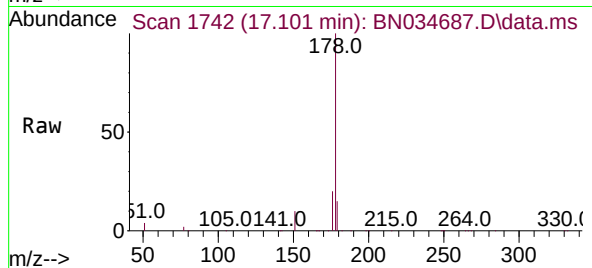
Tgt Ion:266 Resp: 3059
Ion Ratio Lower Upper
266 100
264 61.0 49.4 74.2
268 62.3 50.5 75.7





#25
Phenanthrene
Concen: 0.856 ng
RT: 17.101 min Scan# 1743
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

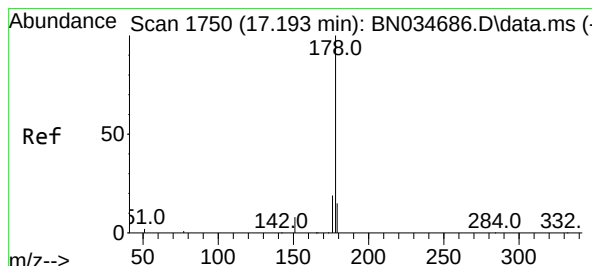
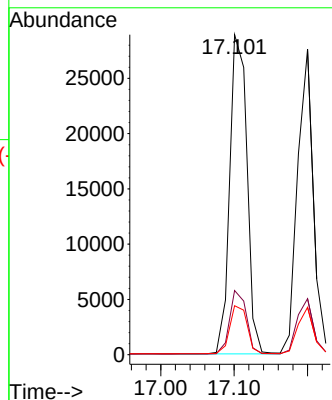
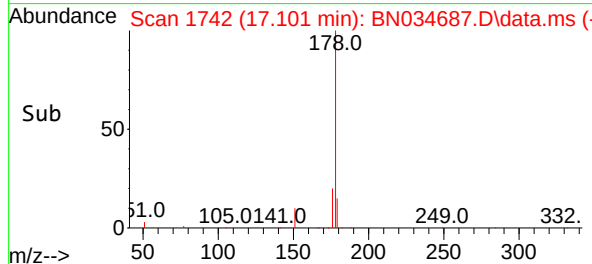
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:178 Resp: 4718
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.1 12.2 18.4

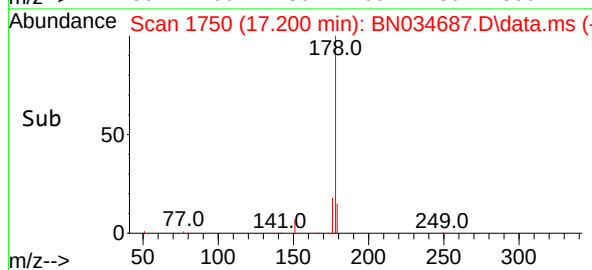
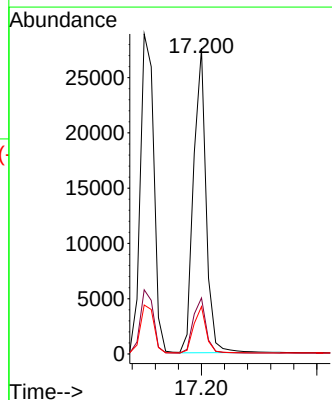
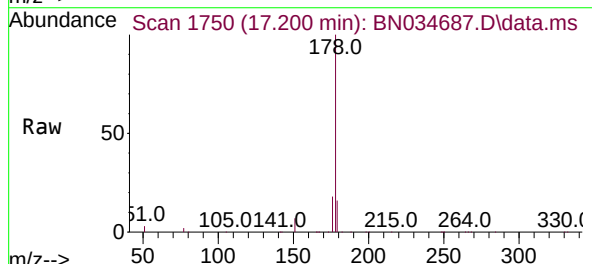
Manual Integrations
APPROVED

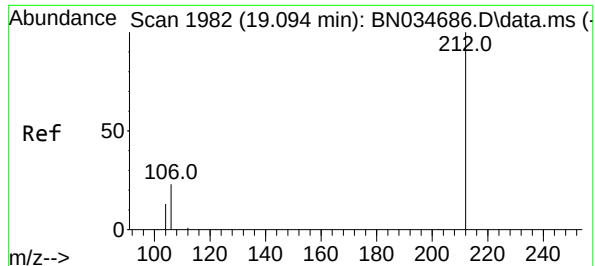
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#26
Anthracene
Concen: 0.845 ng
RT: 17.200 min Scan# 1750
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:178 Resp: 41660
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.812 ng

RT: 19.096 min Scan# 1981

Delta R.T. 0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

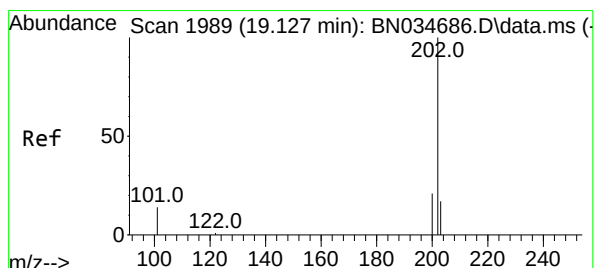
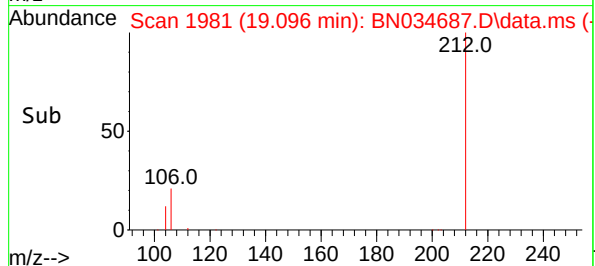
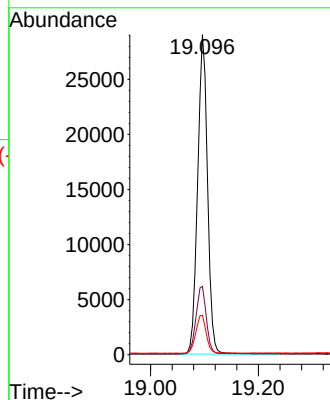
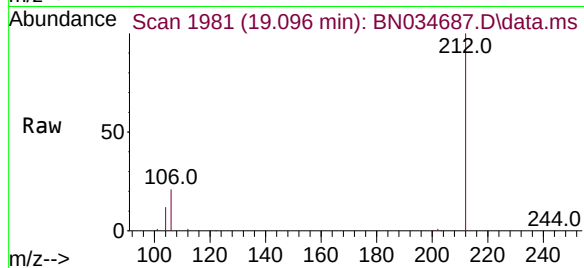
SSTDICC0.8

Tgt Ion:	212	Resp:	36834
Ion Ratio	Lower	Upper	
212	100		
106	22.1	17.8	26.8
104	12.5	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#28

Fluoranthene

Concen: 0.827 ng

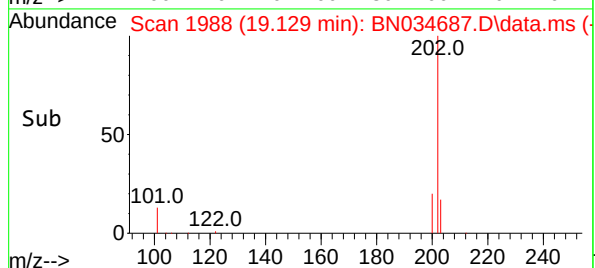
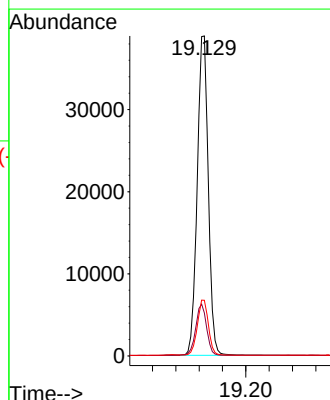
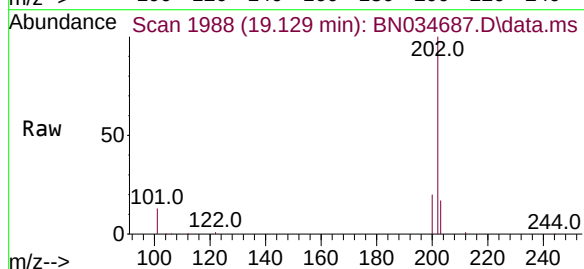
RT: 19.129 min Scan# 1988

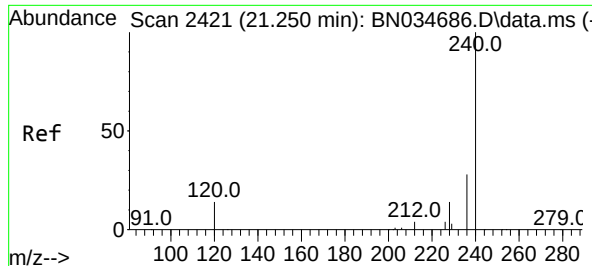
Delta R.T. 0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

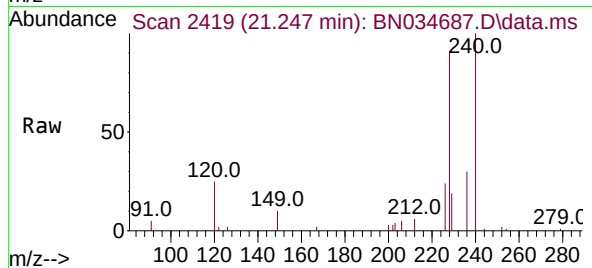
Tgt Ion:	202	Resp:	51141
Ion Ratio	Lower	Upper	
202	100		
101	16.0	12.8	19.2
203	17.2	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.247 min Scan# 2419
Delta R.T. -0.003 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

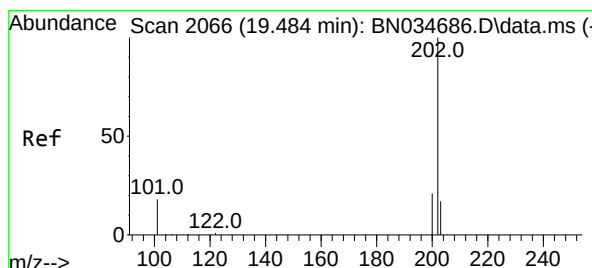
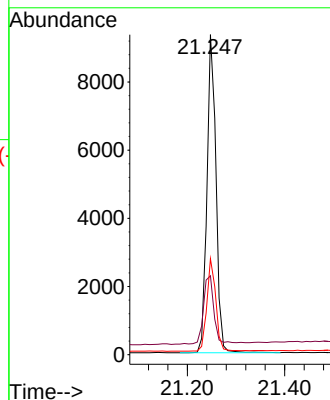
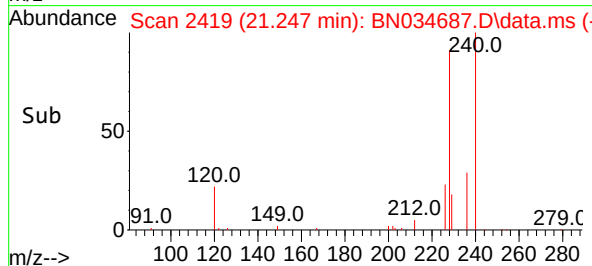
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:240 Resp: 12060
Ion Ratio Lower Upper
240 100
120 24.6 14.2 21.2
236 30.0 23.1 34.7

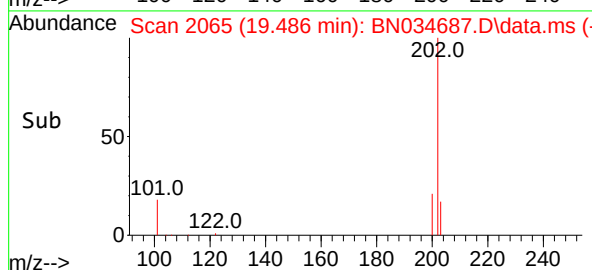
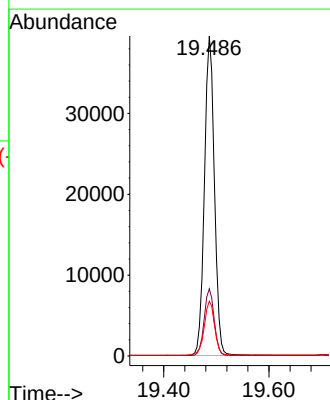
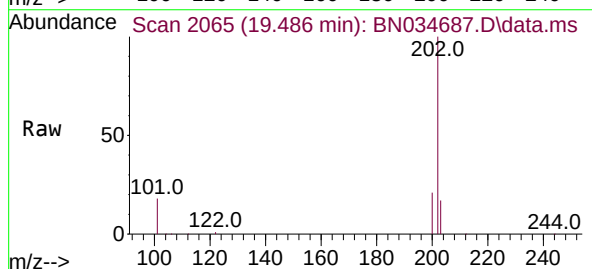
Manual Integrations
APPROVED

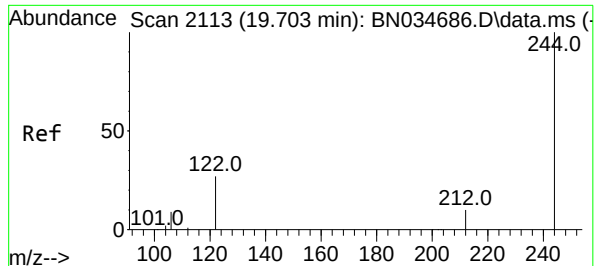
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#30
Pyrene
Concen: 0.963 ng
RT: 19.486 min Scan# 2065
Delta R.T. 0.002 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

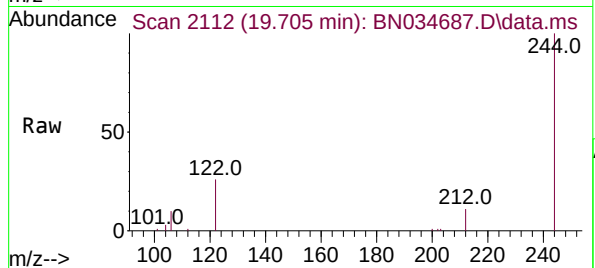
Tgt Ion:202 Resp: 51944
Ion Ratio Lower Upper
202 100
200 21.0 16.6 25.0
203 17.5 14.2 21.4





#31
Terphenyl-d14
Concen: 0.896 ng
RT: 19.705 min Scan# 2113
Delta R.T. 0.002 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

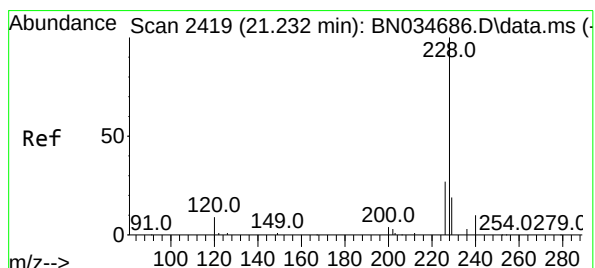
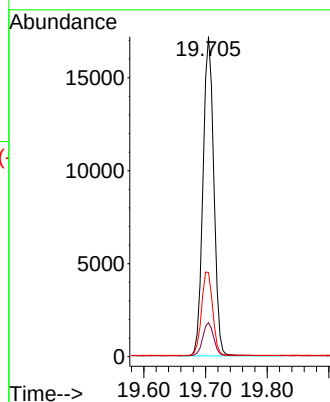
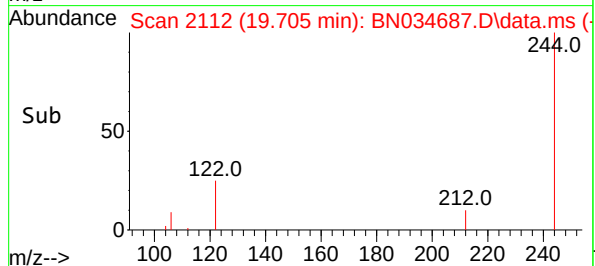
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:244 Resp: 20915
Ion Ratio Lower Upper
244 100
212 10.6 8.6 13.0
122 26.3 22.3 33.5

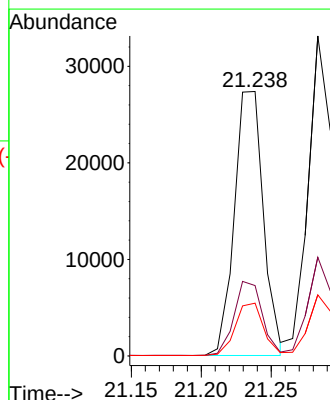
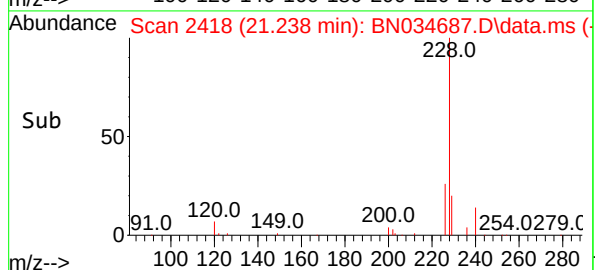
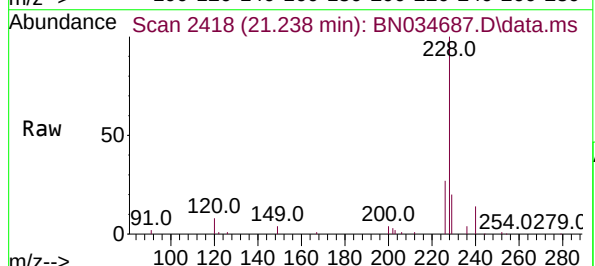
Manual Integrations
APPROVED

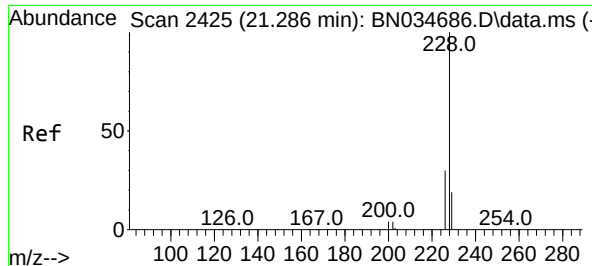
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#32
Benzo(a)anthracene
Concen: 0.860 ng
RT: 21.238 min Scan# 2418
Delta R.T. 0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:228 Resp: 39570
Ion Ratio Lower Upper
228 100
226 26.6 22.0 33.0
229 20.0 15.6 23.4





#33

Chrysene

Concen: 0.906 ng

RT: 21.283 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:228 Resp: 4124

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

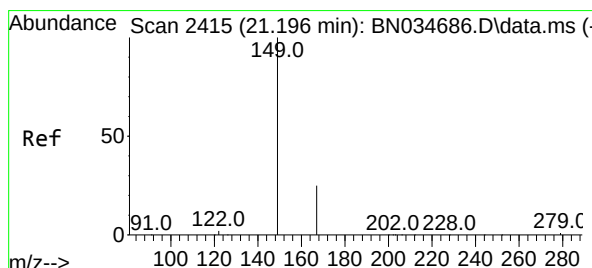
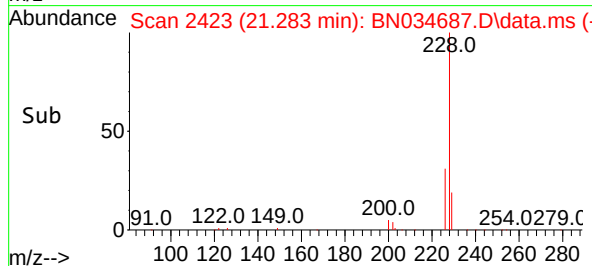
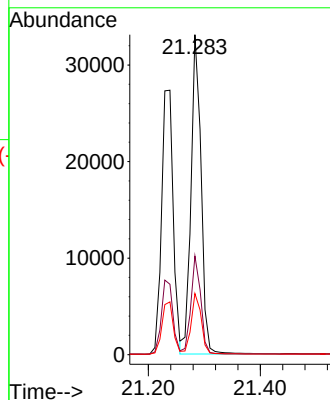
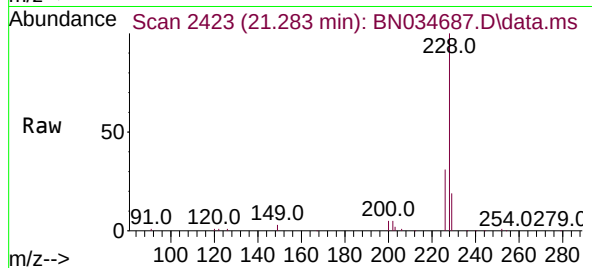
229 19.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.650 ng

RT: 21.203 min Scan# 2414

Delta R.T. 0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

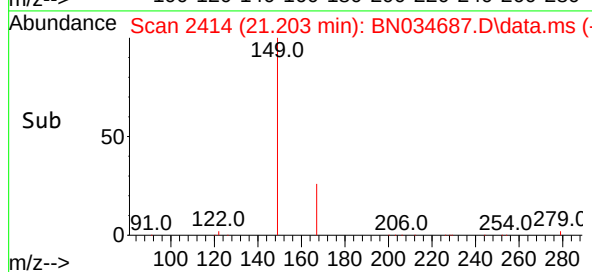
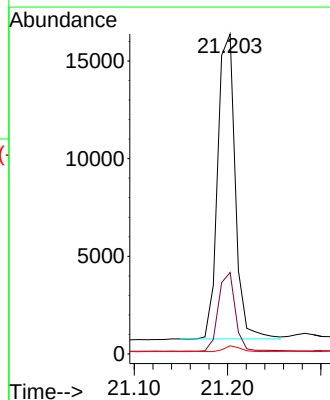
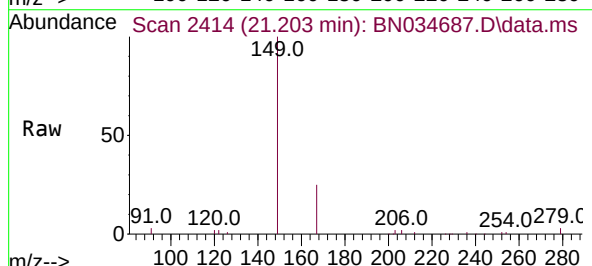
Tgt Ion:149 Resp: 20342

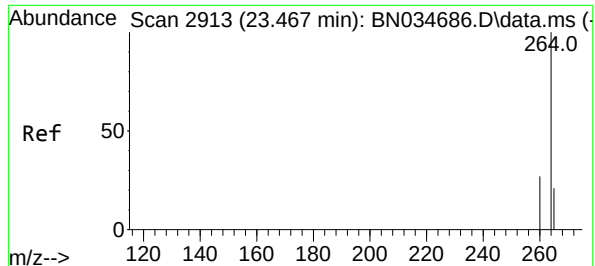
Ion Ratio Lower Upper

149 100

167 25.0 19.7 29.5

279 1.7 1.8 2.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.001 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

Tgt Ion:264 Resp: 10772

Ion Ratio Lower Upper

264 100

260 27.0 21.9 32.9

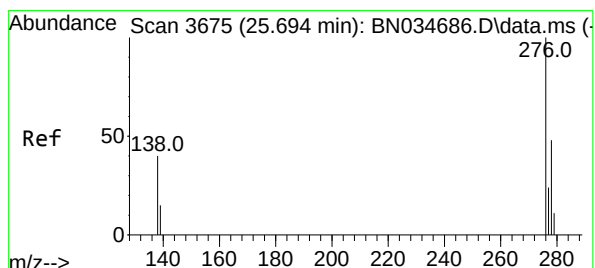
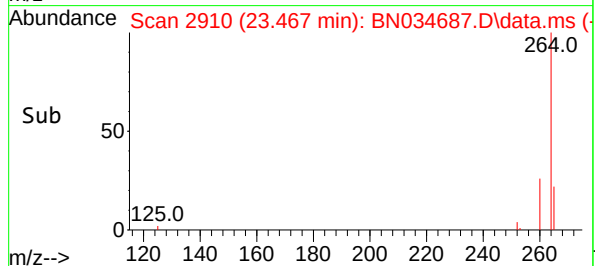
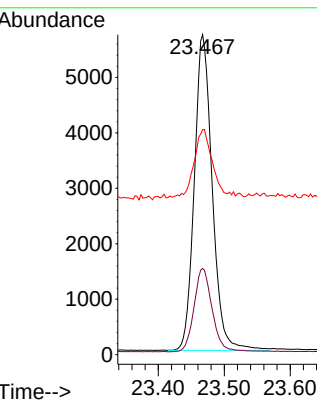
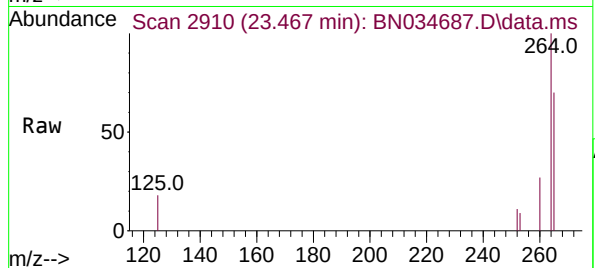
265 70.3 60.6 91.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.828 ng

RT: 25.698 min Scan# 3673

Delta R.T. 0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

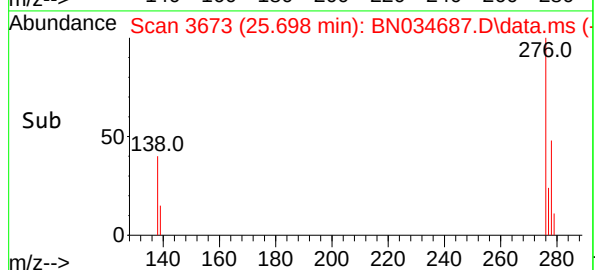
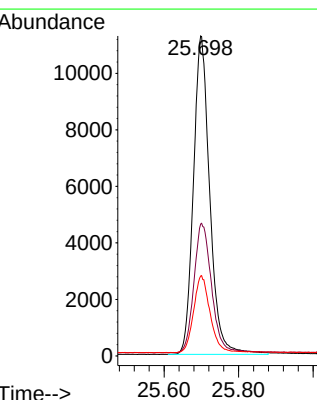
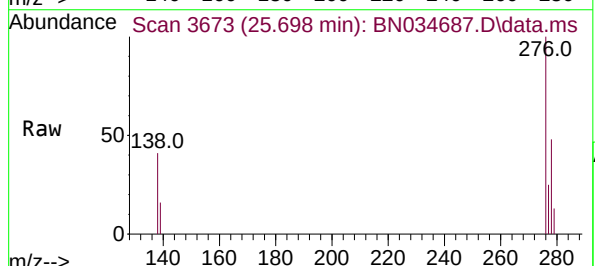
Tgt Ion:276 Resp: 34379

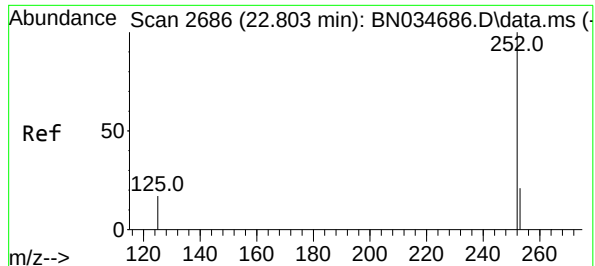
Ion Ratio Lower Upper

276 100

138 43.6 35.1 52.7

277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.948 ng m

RT: 22.803 min Scan# 2686

Delta R.T. 0.001 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

Tgt Ion:252 Resp: 3692

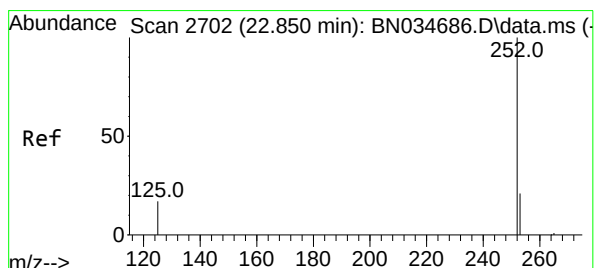
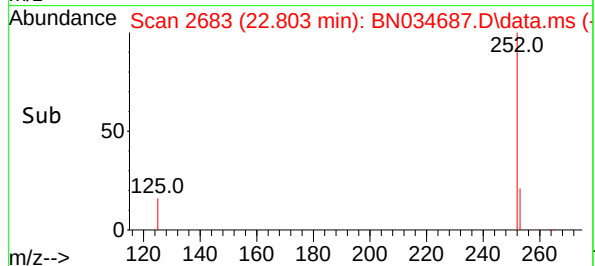
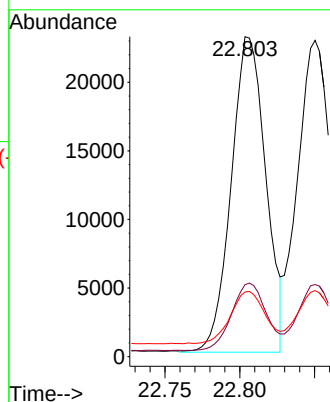
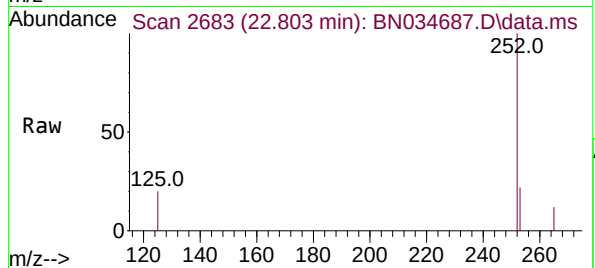
Ion	Ratio	Lower	Upper
252	100		
253	22.5	20.0	30.0
125	20.2	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.977 ng

RT: 22.850 min Scan# 2699

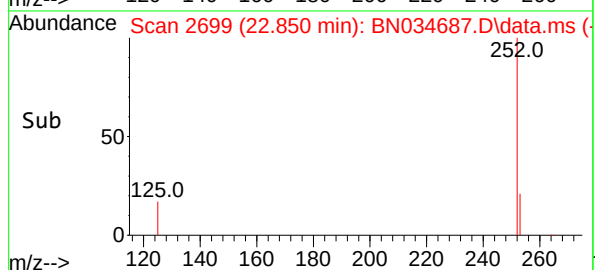
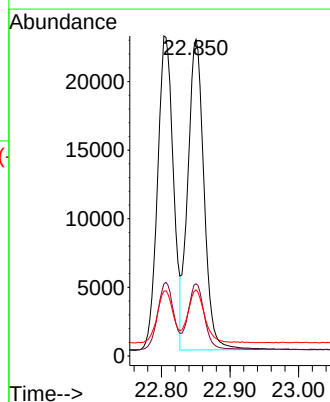
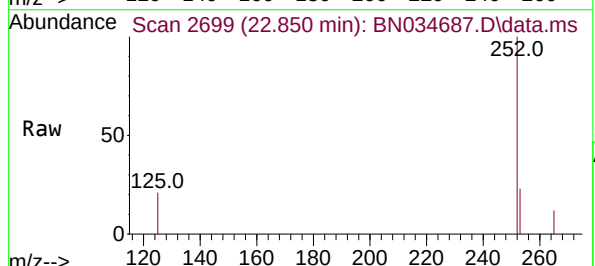
Delta R.T. 0.001 min

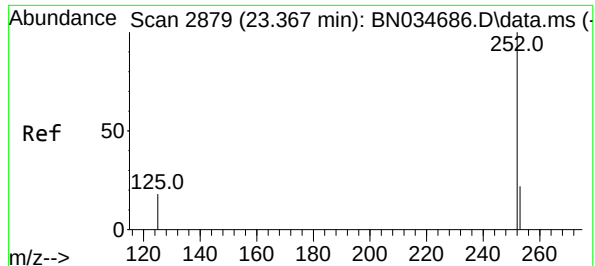
Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Tgt Ion:252 Resp: 37118

Ion	Ratio	Lower	Upper
252	100		
253	22.8	20.6	31.0
125	20.9	21.6	32.4





#39

Benzo(a)pyrene

Concen: 0.892 ng

RT: 23.371 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

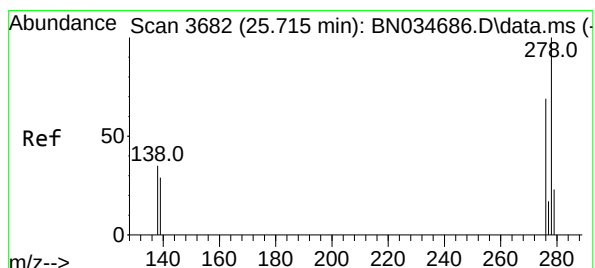
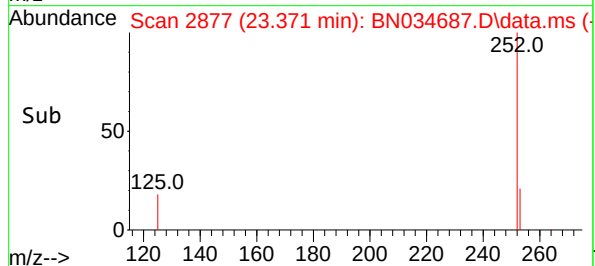
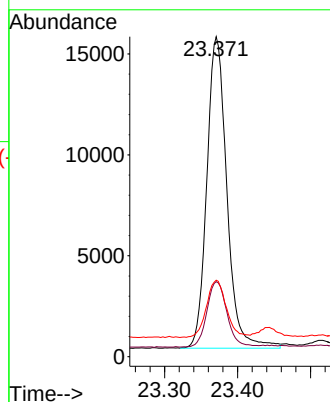
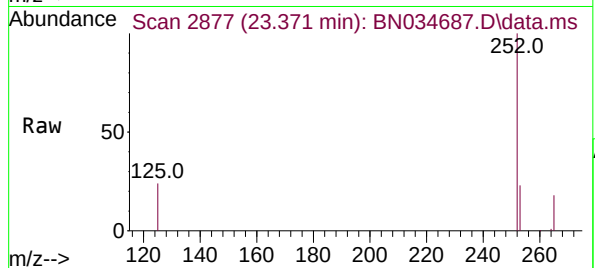
Tgt Ion:252	Resp:	29490
Ion Ratio	Lower	Upper
252	100	
253	23.4	22.2 33.4
125	23.9	26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.823 ng

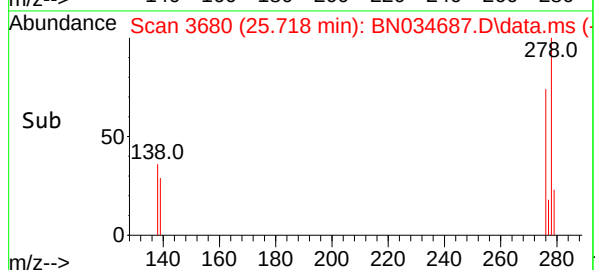
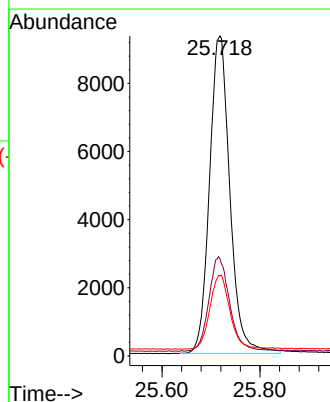
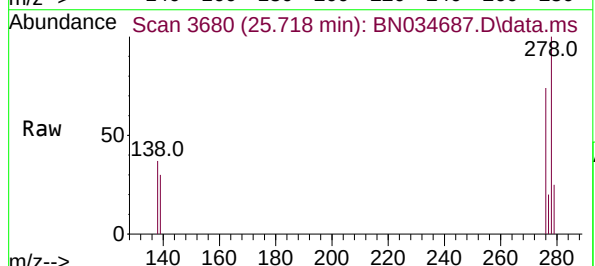
RT: 25.718 min Scan# 3680

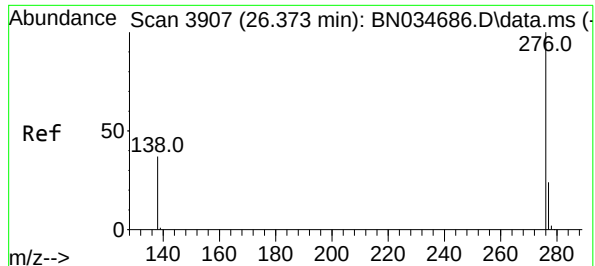
Delta R.T. 0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Tgt Ion:278	Resp:	26850
Ion Ratio	Lower	Upper
278	100	
139	30.3	25.4 38.2
279	25.0	22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.824 ng

RT: 26.373 min Scan# 3907

Delta R.T. 0.001 min

Lab File: BN034687.D

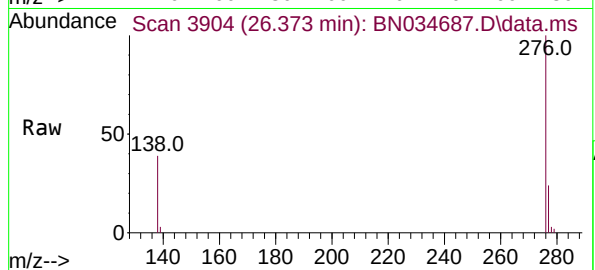
Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 2966

Ion Ratio Lower Upper

276 100

277 24.2 21.3 31.9

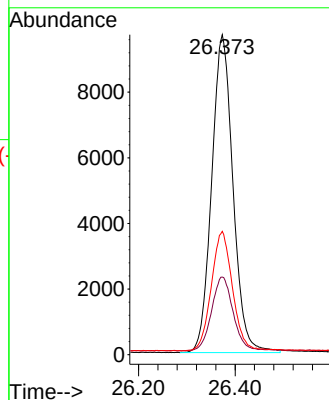
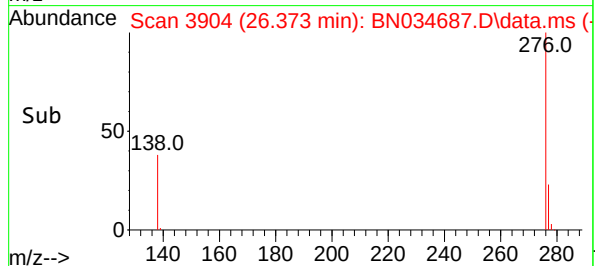
138 38.6 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034688.D
 Acq On : 24 Oct 2024 11:35
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Oct 24 12:43:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

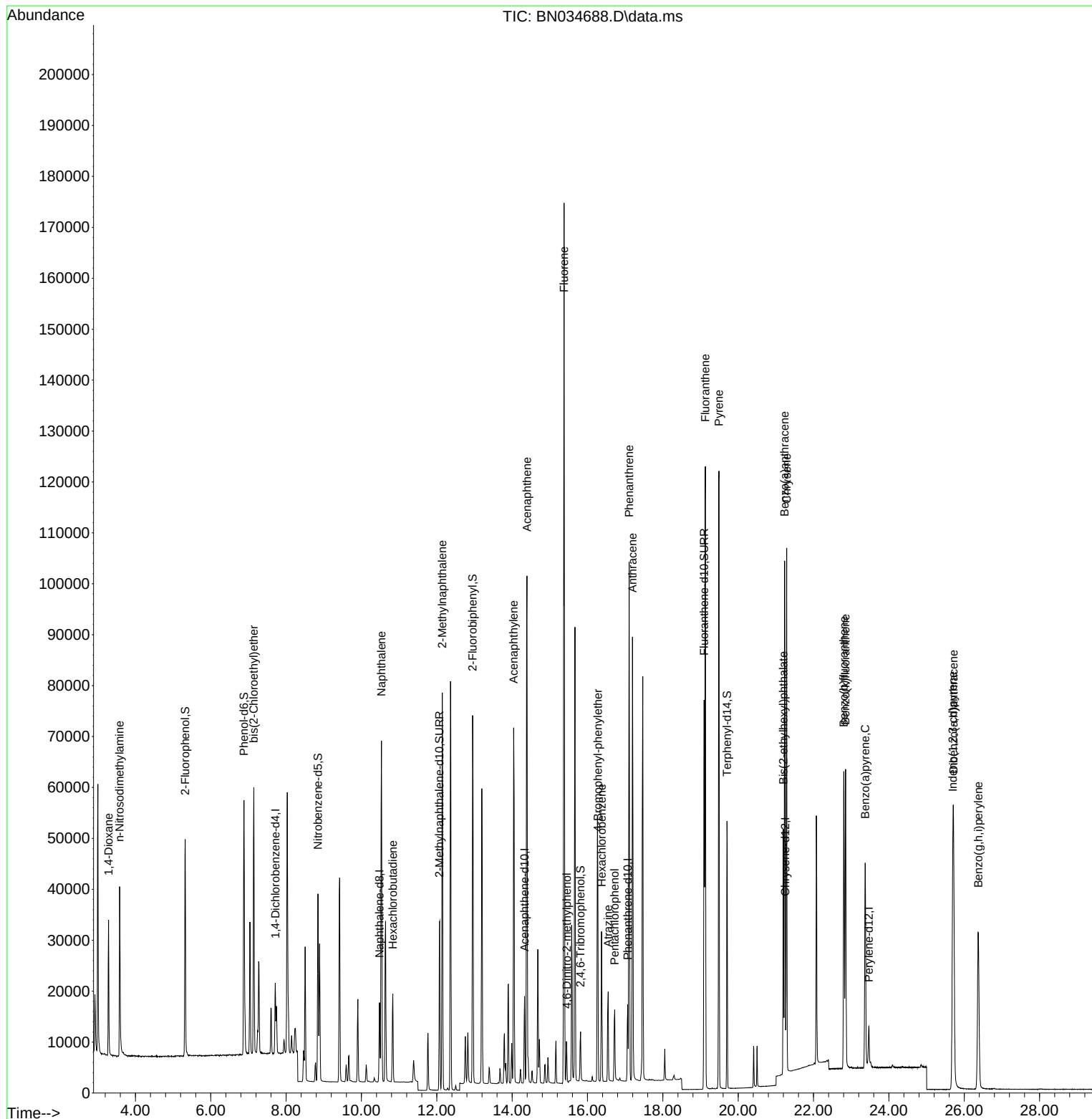
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6253	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18478	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	9335	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	19334	0.400	ng	0.00
29) Chrysene-d12	21.250	240	11924	0.400	ng	0.00
35) Perylene-d12	23.467	264	10103	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	31333	1.638	ng	0.00
5) Phenol-d6	6.882	99	41454	1.694	ng	0.00
8) Nitrobenzene-d5	8.845	82	25808	1.686	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	43281	1.664	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	4968	1.255	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	62224	1.691	ng	0.00
27) Fluoranthene-d10	19.094	212	73515	1.553	ng	0.00
31) Terphenyl-d14	19.703	244	41261	1.788	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	13254	1.741	ng	99
3) n-Nitrosodimethylamine	3.581	42	20688	2.247	ng	# 98
6) bis(2-Chloroethyl)ether	7.142	93	33672	1.797	ng	99
9) Naphthalene	10.532	128	85545	1.679	ng	99
10) Hexachlorobutadiene	10.831	225	12572	1.540	ng	# 100
12) 2-Methylnaphthalene	12.147	142	53951	1.675	ng	99
16) Acenaphthylene	14.040	152	76104	1.696	ng	99
17) Acenaphthene	14.393	154	52549	1.718	ng	98
18) Fluorene	15.377	166	65352	1.714	ng	100
20) 4,6-Dinitro-2-methylph...	15.452	198	4583	1.734	ng	# 50
21) 4-Bromophenyl-phenylether	16.275	248	17079	1.615	ng	98
22) Hexachlorobenzene	16.374	284	18410	1.569	ng	99
23) Atrazine	16.548	200	14024	1.516	ng	100
24) Pentachlorophenol	16.721	266	6756	1.467	ng	99
25) Phenanthrene	17.106	178	96240	1.673	ng	100
26) Anthracene	17.193	178	87194	1.695	ng	100
28) Fluoranthene	19.127	202	103093	1.598	ng	100
30) Pyrene	19.489	202	103194	1.936	ng	100
32) Benzo(a)anthracene	21.232	228	76954	1.693	ng	100
33) Chrysene	21.286	228	78358	1.741	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	41892	1.354	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.697	276	65482	1.682	ng	99
37) Benzo(b)fluoranthene	22.803	252	68644	1.880	ng	# 90
38) Benzo(k)fluoranthene	22.850	252	69183	1.942	ng	# 88
39) Benzo(a)pyrene	23.370	252	55896	1.802	ng	# 85
40) Dibenzo(a,h)anthracene	25.715	278	51867	1.696	ng	95
41) Benzo(g,h,i)perylene	26.373	276	56042	1.661	ng	95

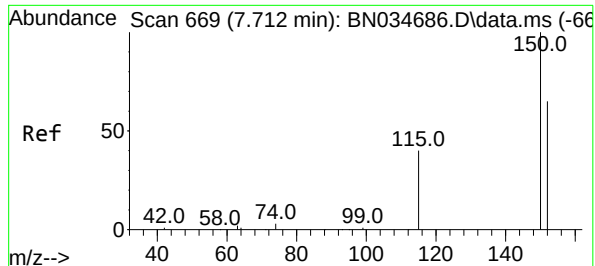
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034688.D
Acq On : 24 Oct 2024 11:35
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Oct 24 12:43:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

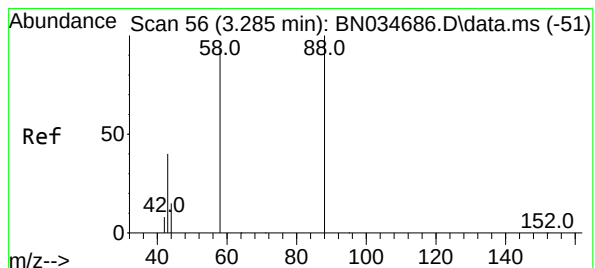
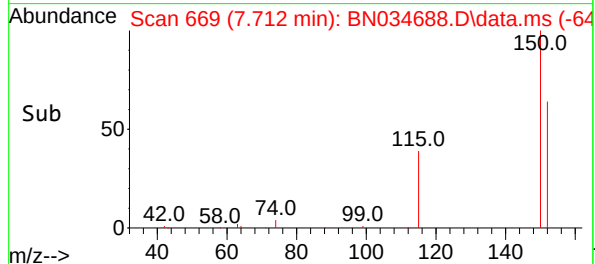
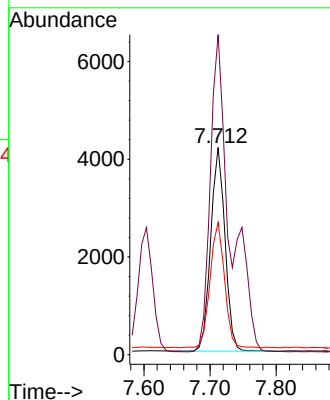
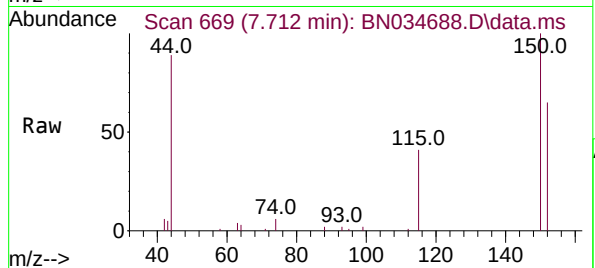




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

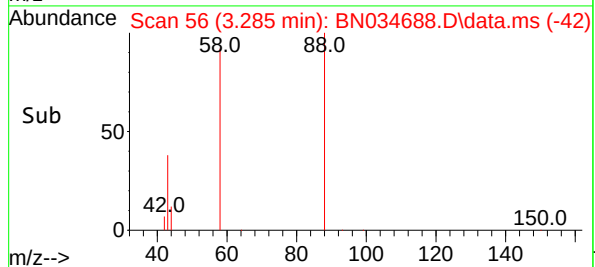
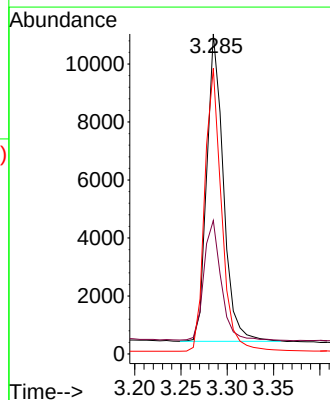
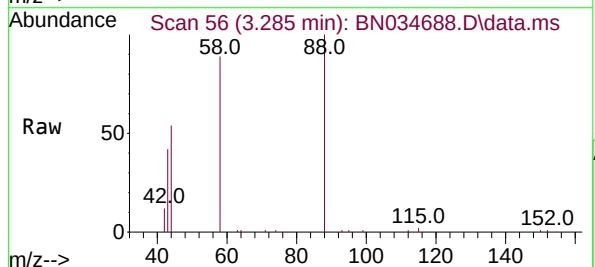
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

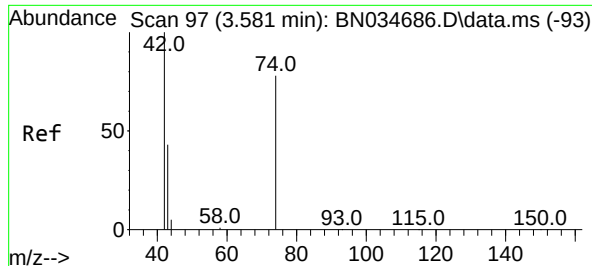
Tgt Ion:152 Resp: 6253
Ion Ratio Lower Upper
152 100
150 154.5 122.7 184.1
115 63.8 51.0 76.6



#2
1,4-Dioxane
Concen: 1.741 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion: 88 Resp: 13254
Ion Ratio Lower Upper
88 100
43 40.1 32.1 48.1
58 93.0 73.7 110.5

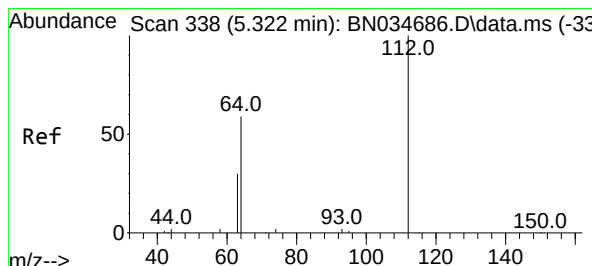
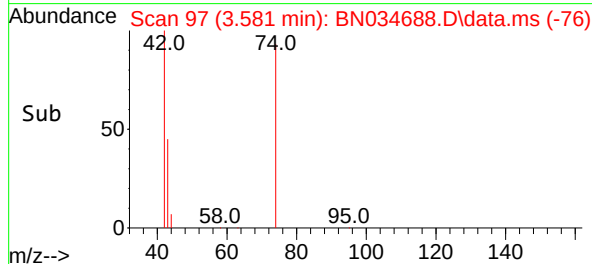
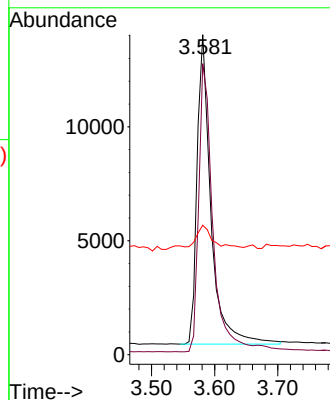
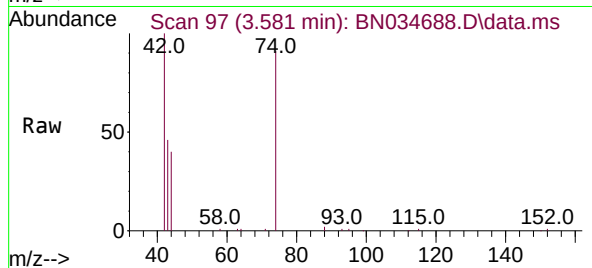




#3
n-Nitrosodimethylamine
Concen: 2.247 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

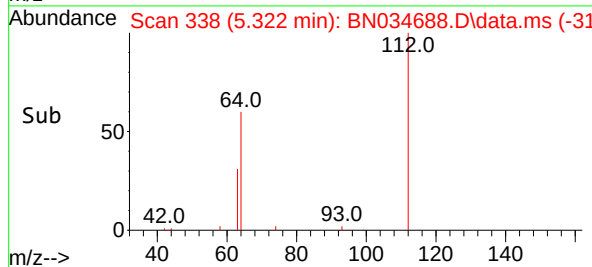
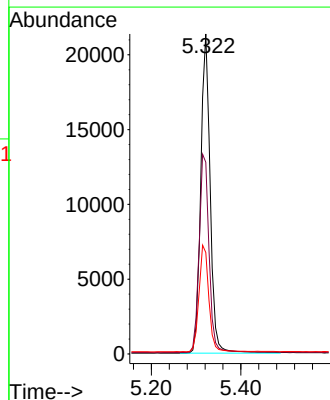
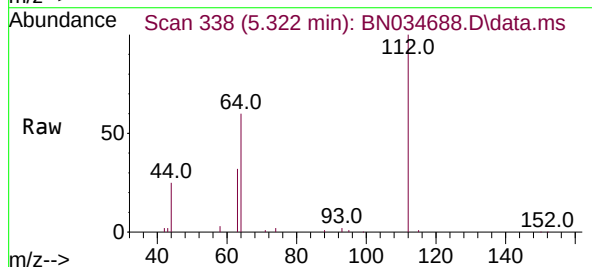
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

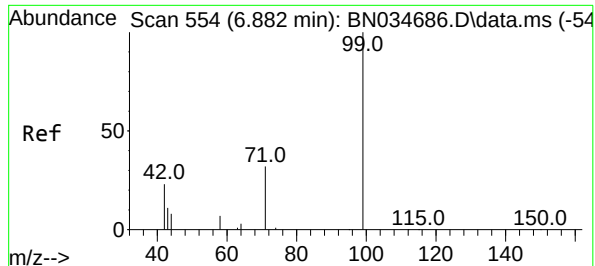
Tgt Ion: 42 Resp: 20688
Ion Ratio Lower Upper
42 100
74 96.2 77.2 115.8
44 11.1 13.4 20.2#



#4
2-Fluorophenol
Concen: 1.638 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion: 112 Resp: 31333
Ion Ratio Lower Upper
112 100
64 65.7 53.0 79.6
63 34.8 27.6 41.4

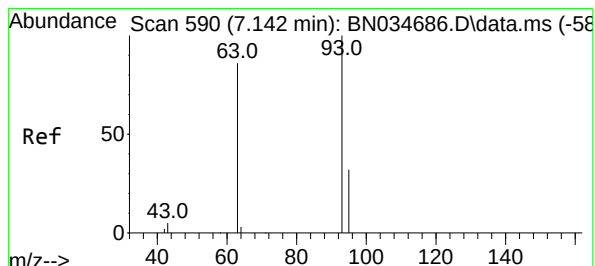
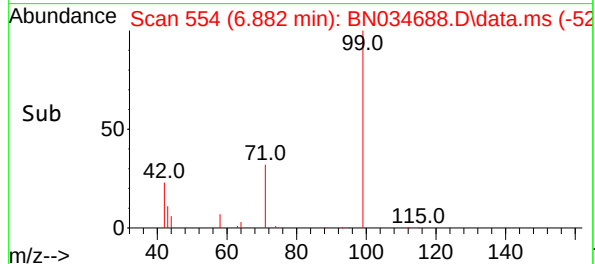
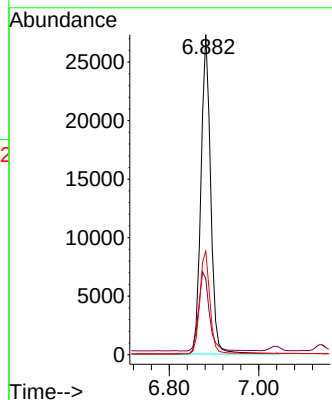
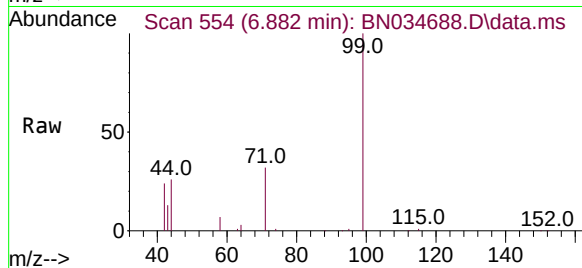




#5
Phenol-d6
Concen: 1.694 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

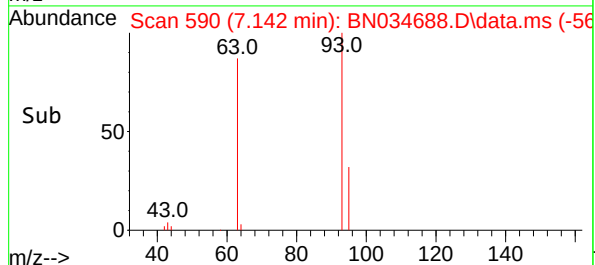
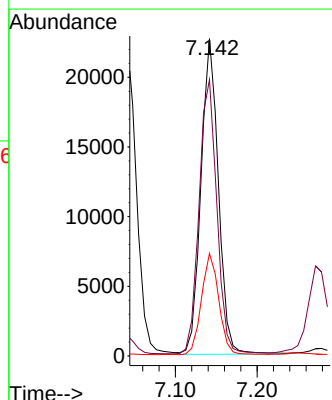
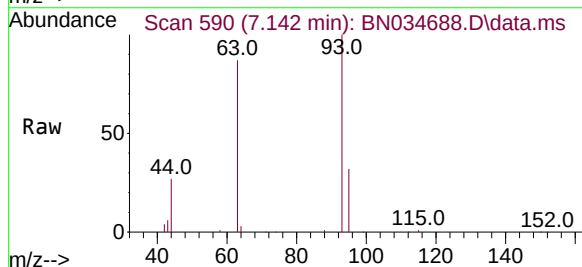
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

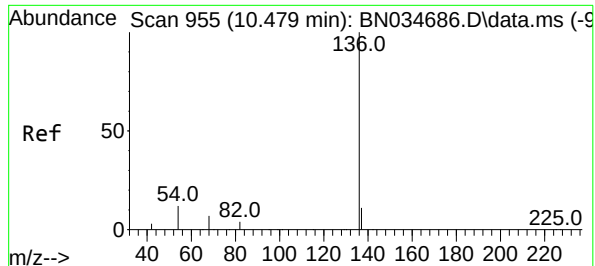
Tgt Ion: 99 Resp: 41454
Ion Ratio Lower Upper
99 100
42 27.2 21.8 32.8
71 33.2 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 1.797 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion: 93 Resp: 33672
Ion Ratio Lower Upper
93 100
63 88.5 71.5 107.3
95 32.0 25.8 38.6

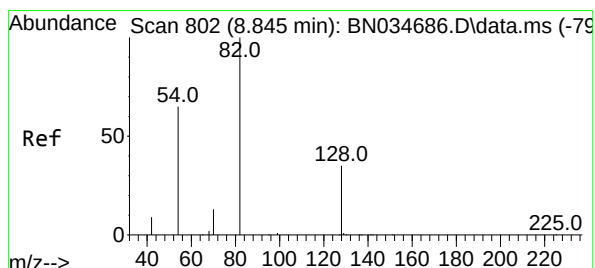
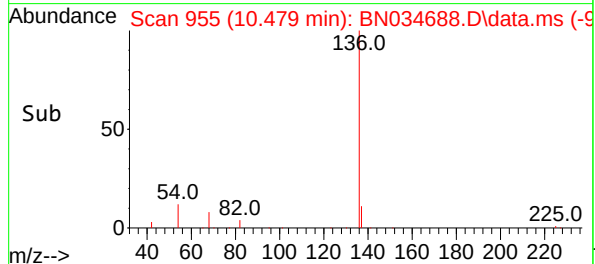
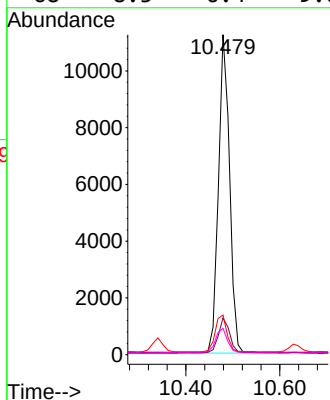
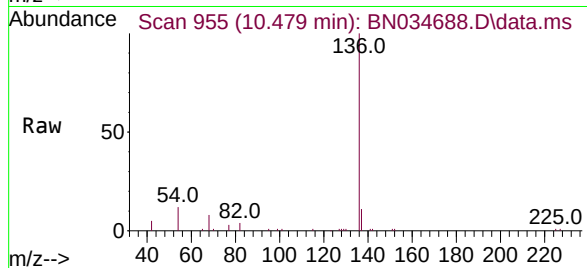




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

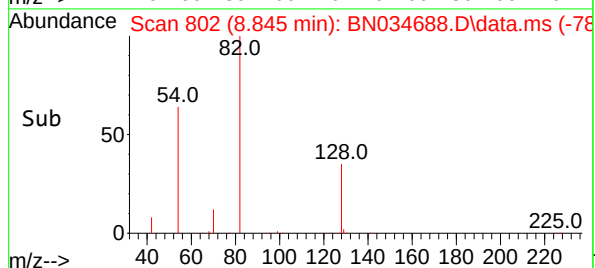
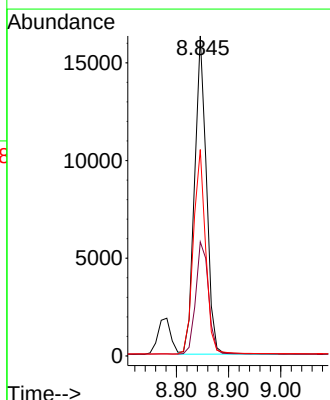
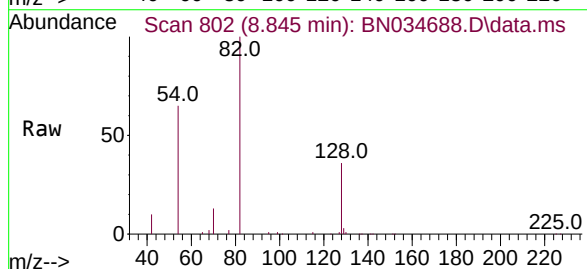
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

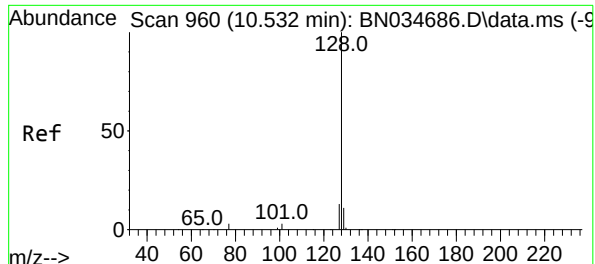
Tgt Ion:	136	Resp:	18478
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.4	9.8	14.8
68	8.3	6.4	9.6



#8
Nitrobenzene-d5
Concen: 1.686 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion:	82	Resp:	25808
Ion	Ratio	Lower	Upper
82	100		
128	35.7	29.7	44.5
54	64.5	53.0	79.6





#9

Naphthalene

Concen: 1.679 ng

RT: 10.532 min Scan# 9

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

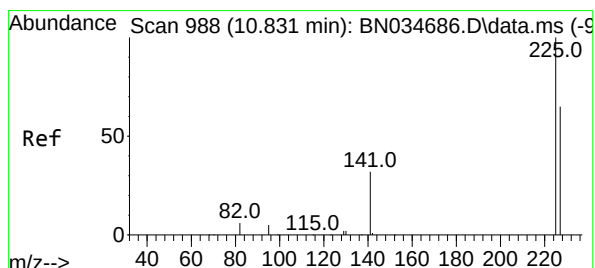
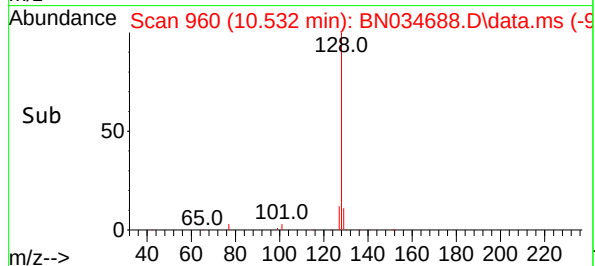
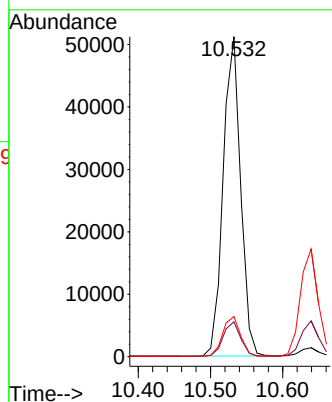
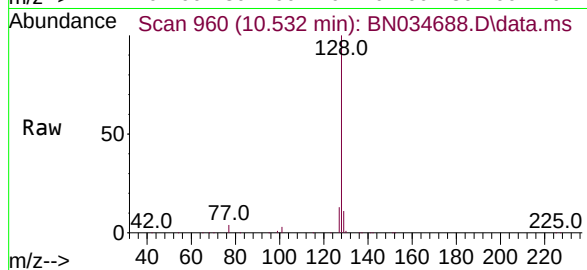
Tgt Ion:128 Resp: 85545

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.6

127 12.6 10.5 15.7



#10

Hexachlorobutadiene

Concen: 1.540 ng

RT: 10.831 min Scan# 988

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

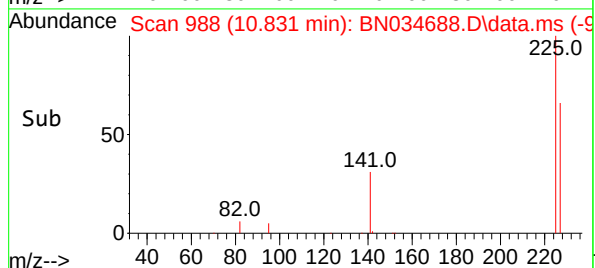
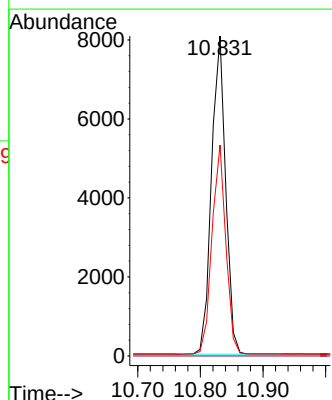
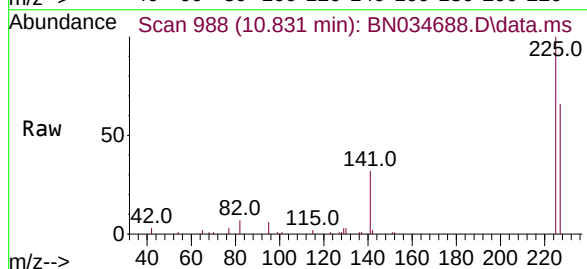
Tgt Ion:225 Resp: 12572

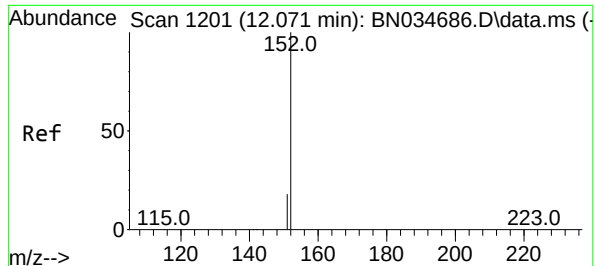
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.5 51.4 77.0

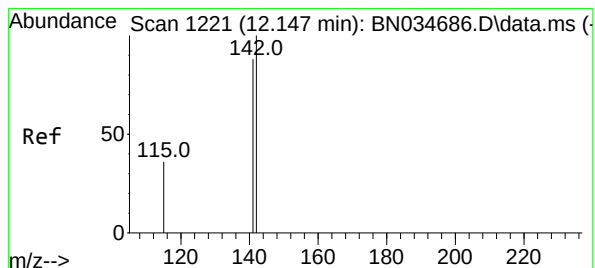
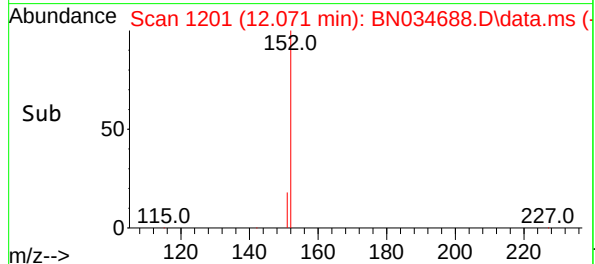
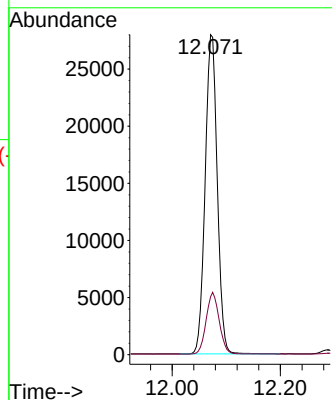
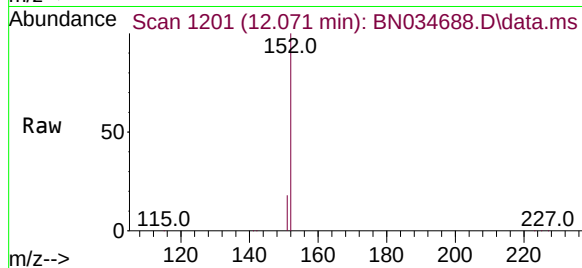




#11
2-Methylnaphthalene-d10
Concen: 1.664 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

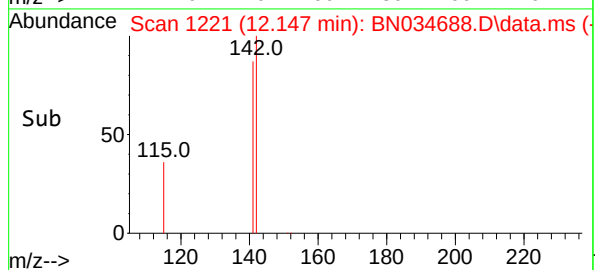
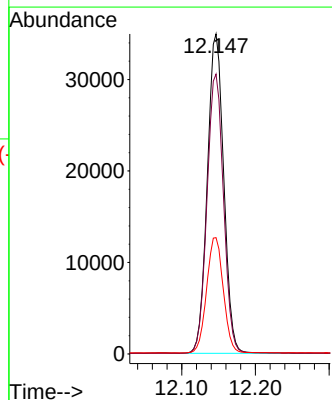
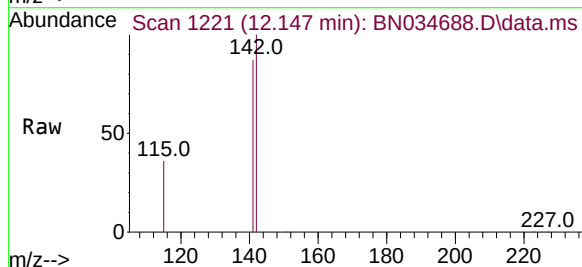
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

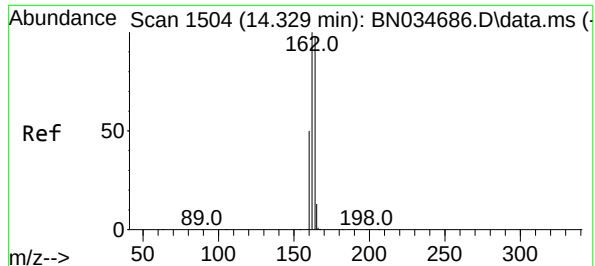
Tgt Ion:152 Resp: 43281
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion:142 Resp: 53951
Ion Ratio Lower Upper
142 100
141 87.5 70.4 105.6
115 36.4 29.8 44.6

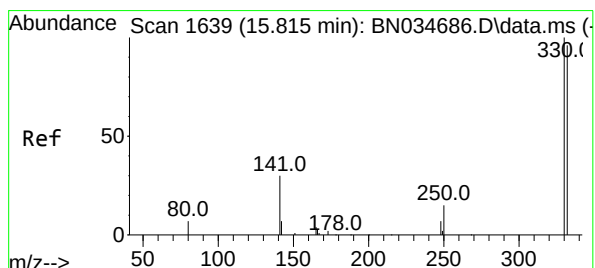
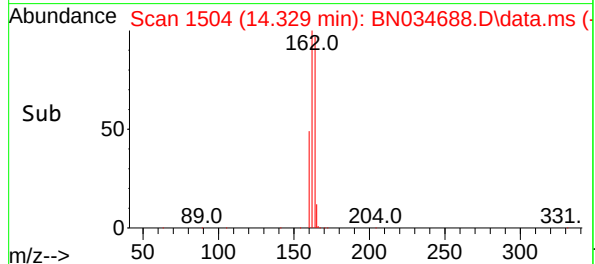
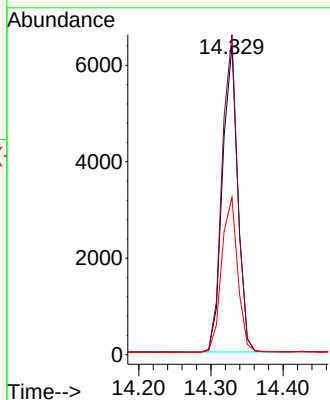
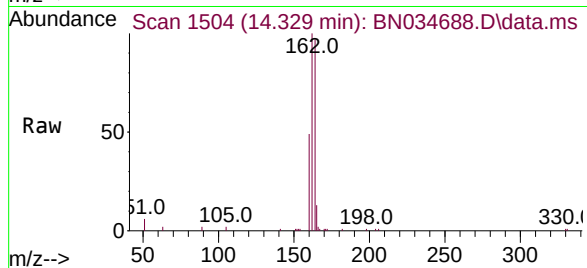




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

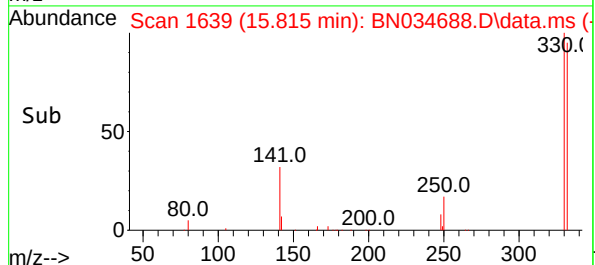
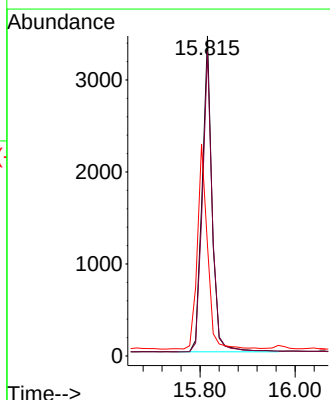
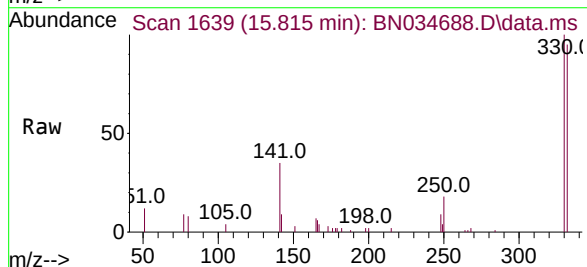
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

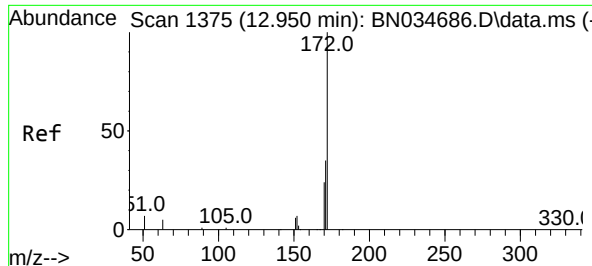
Tgt Ion:164 Resp: 9335
Ion Ratio Lower Upper
164 100
162 103.4 81.4 122.0
160 50.8 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 1.255 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion:330 Resp: 4968
Ion Ratio Lower Upper
330 100
332 95.6 76.6 115.0
141 66.4 54.6 81.8

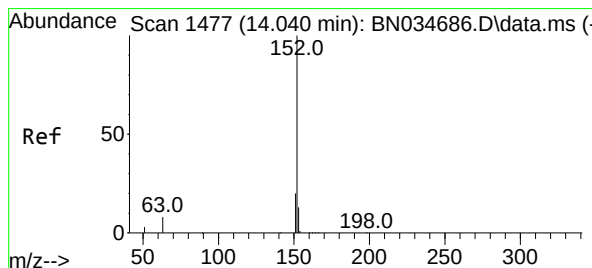
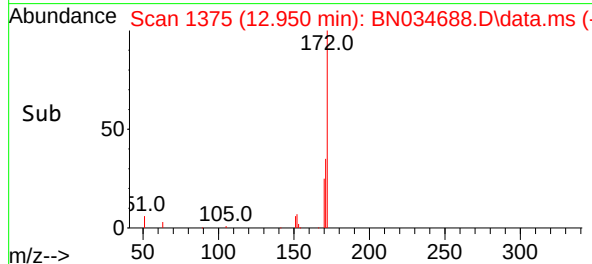
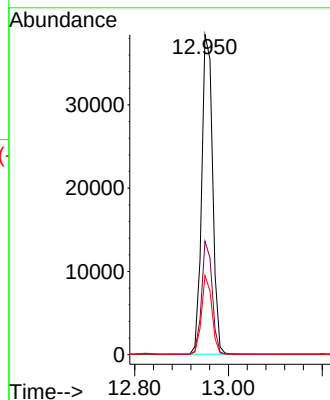
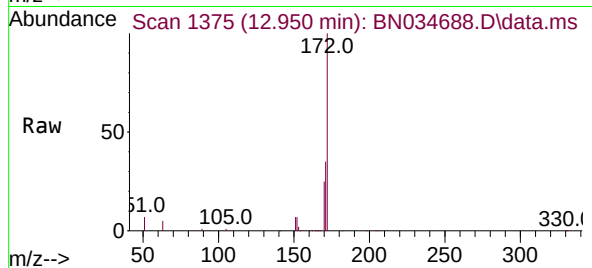




#15
2-Fluorobiphenyl
Concen: 1.691 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

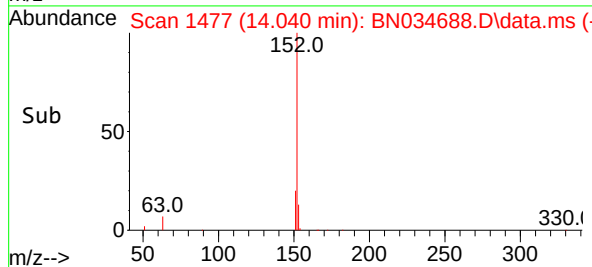
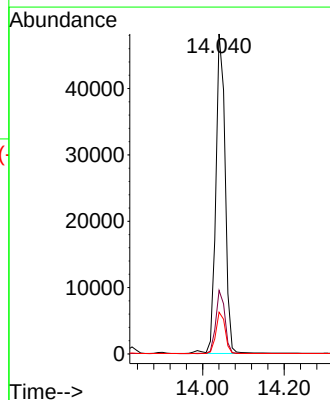
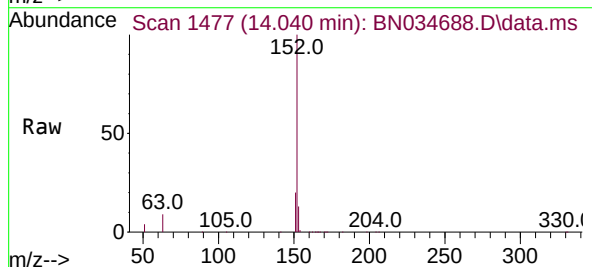
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

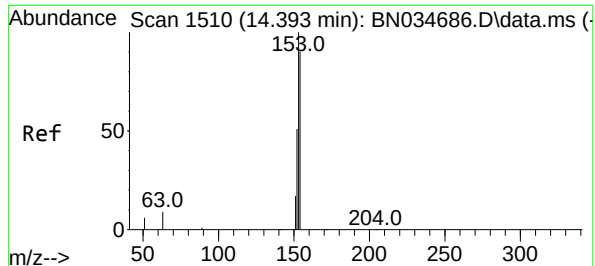
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	24.8	19.8	29.6



#16
Acenaphthylene
Concen: 1.696 ng
RT: 14.040 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.6	23.4
153	12.9	10.6	15.8





#17

Acenaphthene

Concen: 1.718 ng

RT: 14.393 min Scan# 1510

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

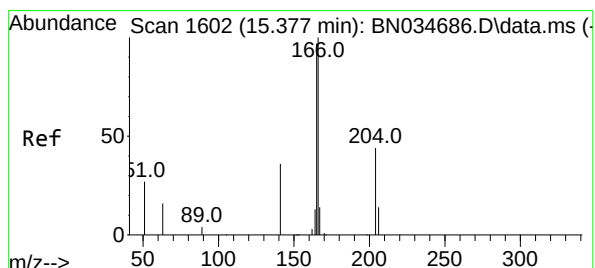
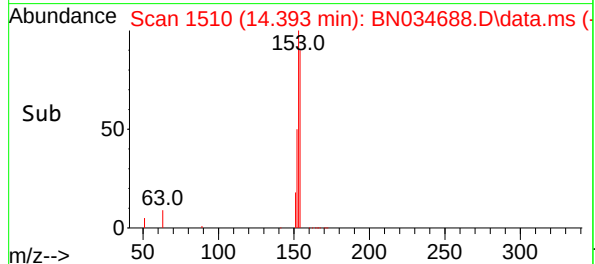
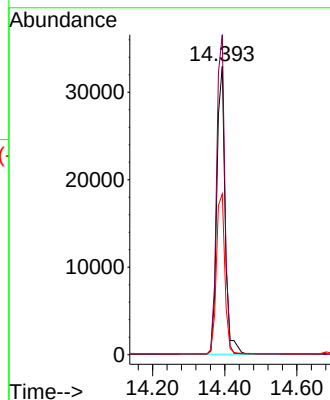
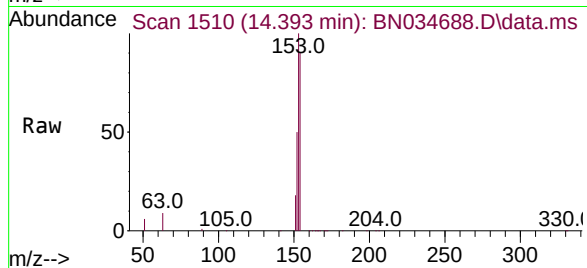
Tgt Ion:154 Resp: 52549

Ion Ratio Lower Upper

154 100

153 108.8 88.2 132.2

152 56.9 46.9 70.3



#18

Fluorene

Concen: 1.714 ng

RT: 15.377 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

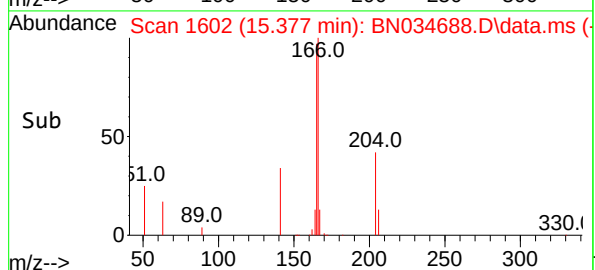
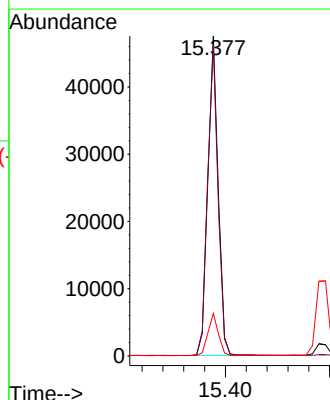
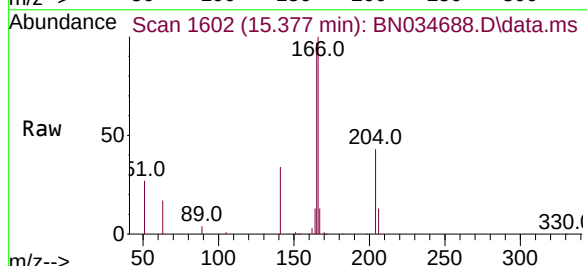
Tgt Ion:166 Resp: 65352

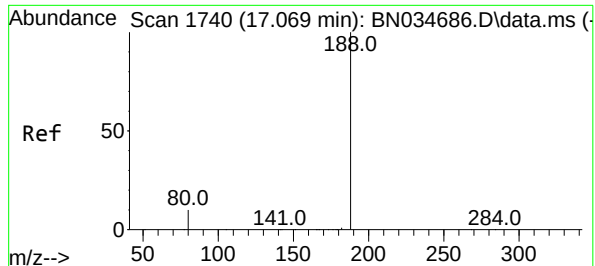
Ion Ratio Lower Upper

166 100

165 98.1 78.8 118.2

167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

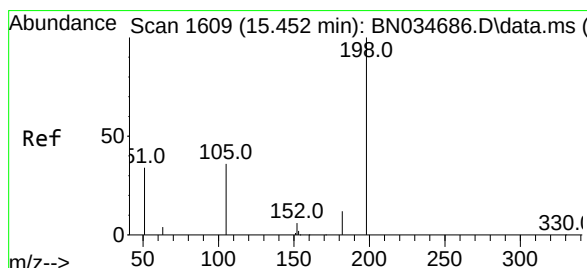
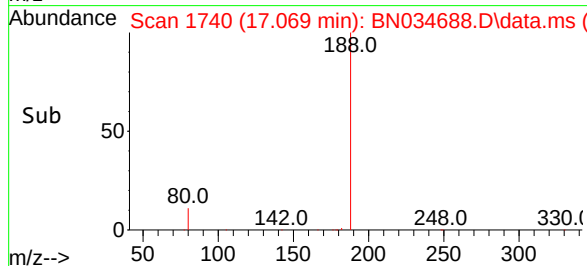
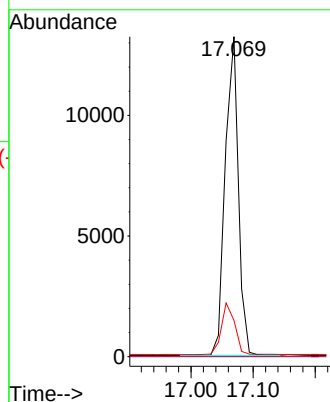
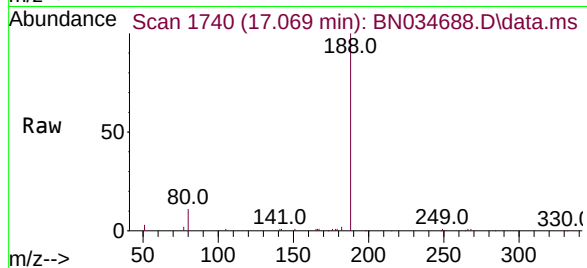
Tgt Ion:188 Resp: 19334

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 1.734 ng

RT: 15.452 min Scan# 1609

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

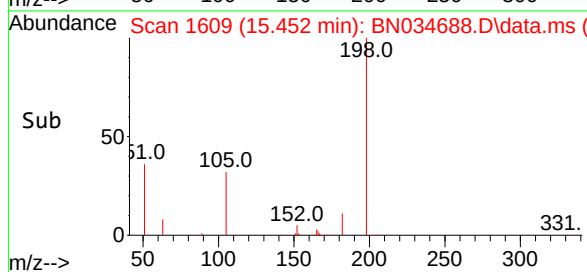
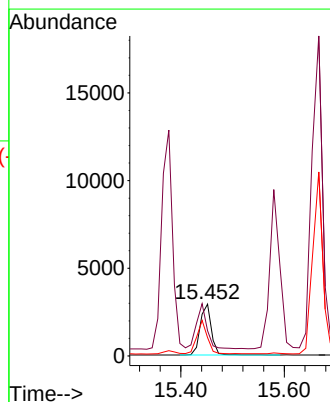
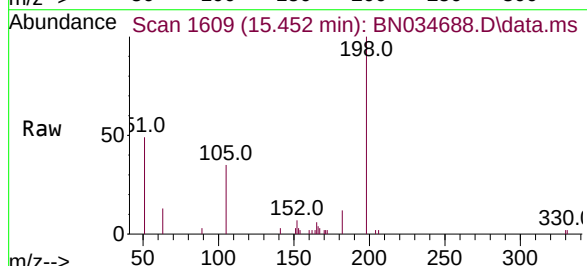
Tgt Ion:198 Resp: 4583

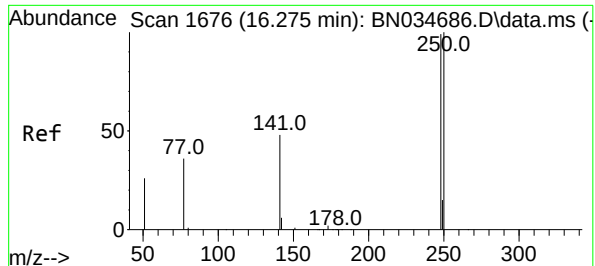
Ion Ratio Lower Upper

198 100

51 48.7 91.8 137.8#

105 35.4 44.3 66.5#

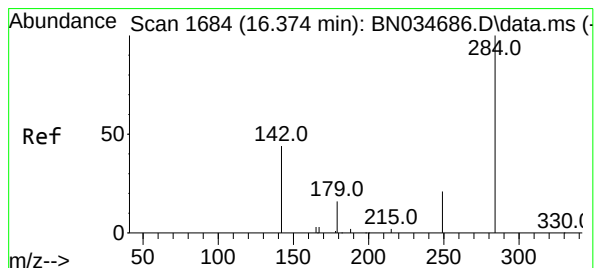
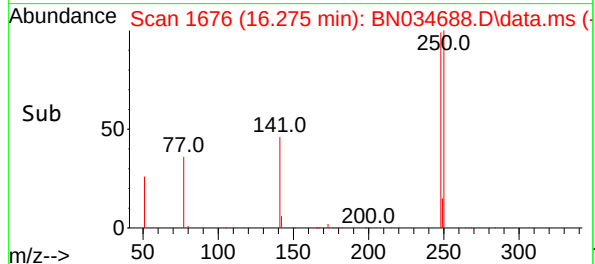
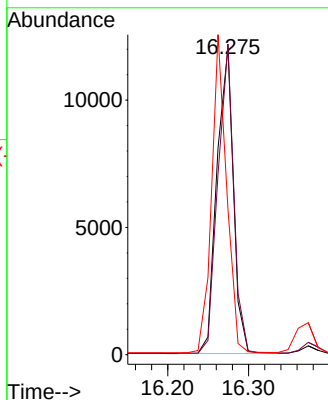
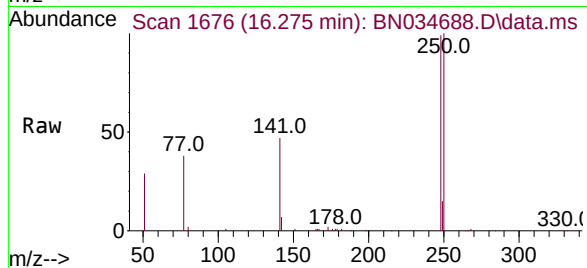




#21
4-Bromophenyl-phenylether
Concen: 1.615 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

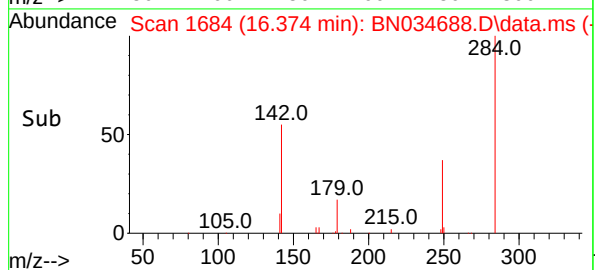
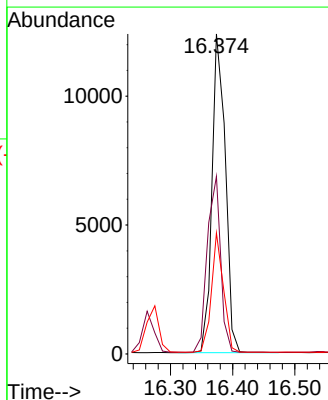
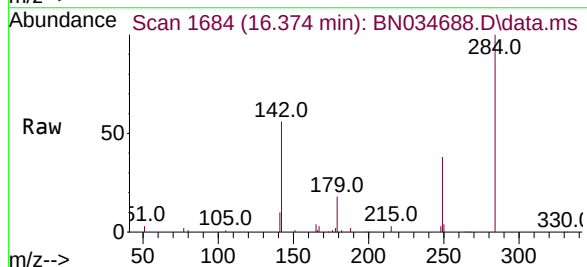
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

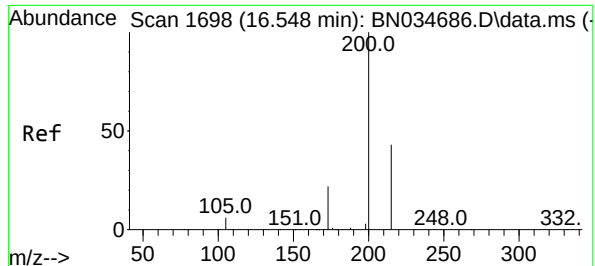
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.9	121.3
141	47.4	40.5	60.7



#22
Hexachlorobenzene
Concen: 1.569 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.6	43.6	65.4
249	33.9	26.6	40.0





#23

Atrazine

Concen: 1.516 ng

RT: 16.548 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

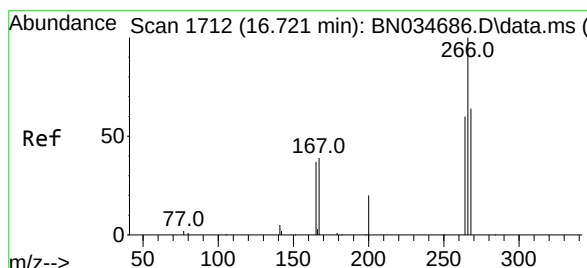
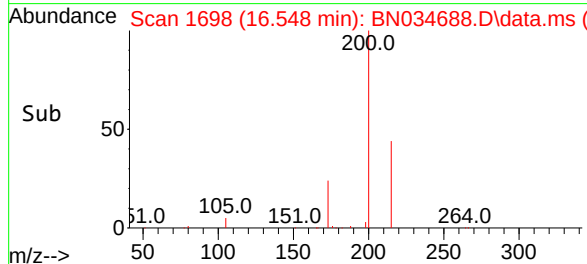
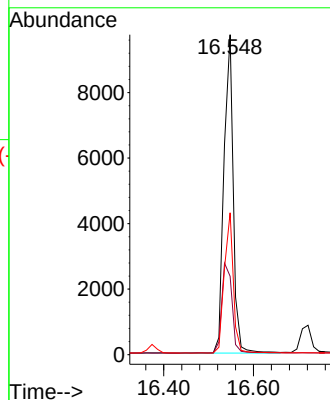
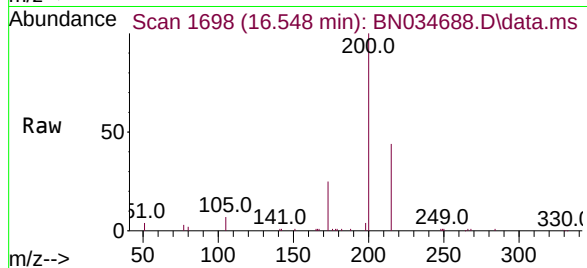
Tgt Ion:200 Resp: 14024

Ion Ratio Lower Upper

200 100

173 24.5 19.7 29.5

215 44.3 35.7 53.5



#24

Pentachlorophenol

Concen: 1.467 ng

RT: 16.721 min Scan# 1712

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

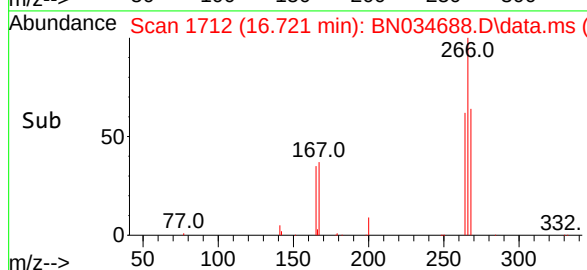
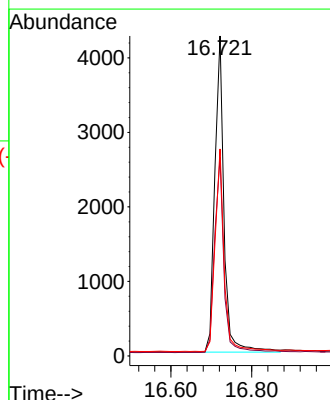
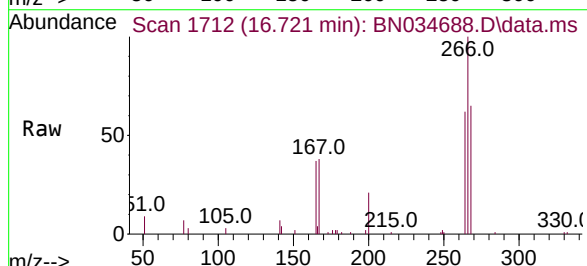
Tgt Ion:266 Resp: 6756

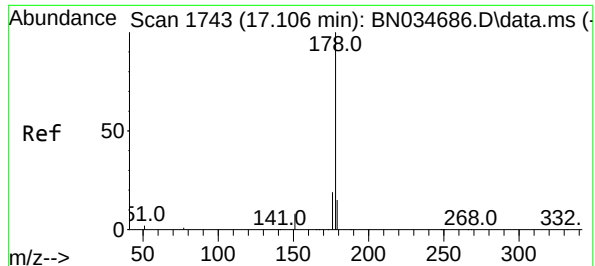
Ion Ratio Lower Upper

266 100

264 62.2 49.4 74.2

268 63.5 50.5 75.7

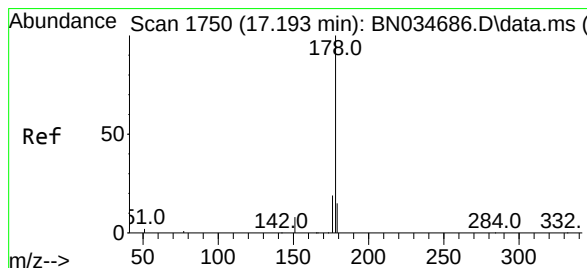
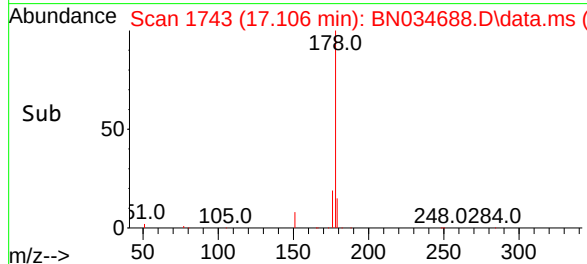
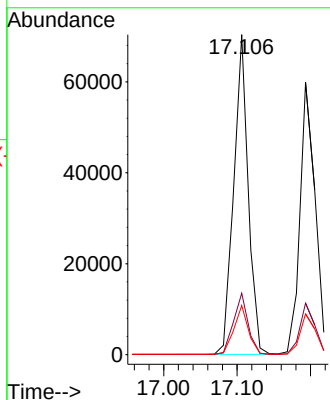
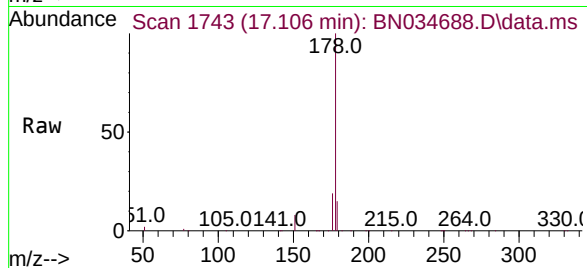




#25
Phenanthrene
Concen: 1.673 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

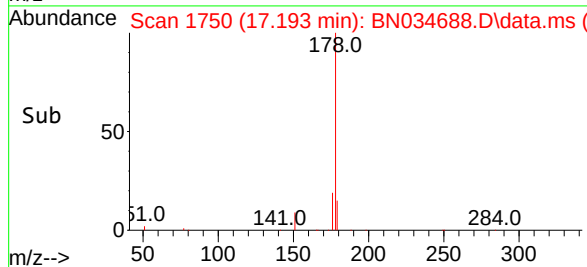
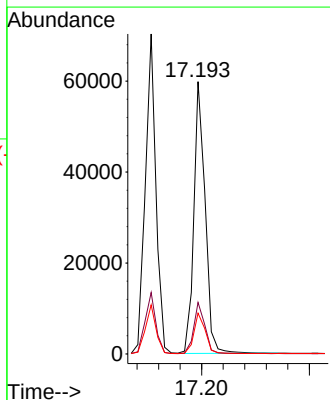
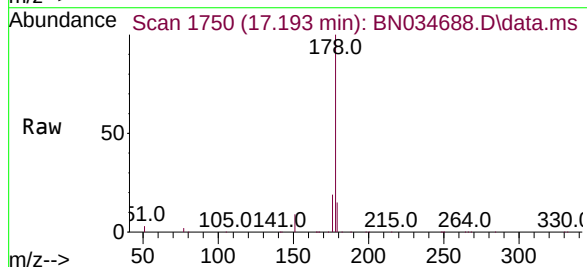
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

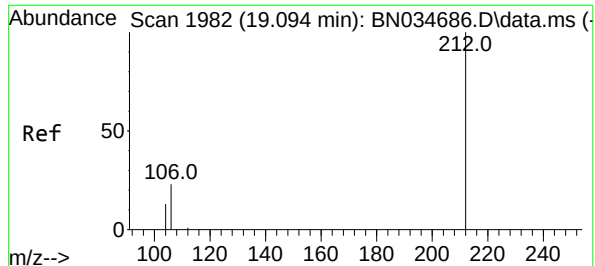
Tgt Ion:178 Resp: 96240
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.2 18.4



#26
Anthracene
Concen: 1.695 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion:178 Resp: 87194
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.553 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

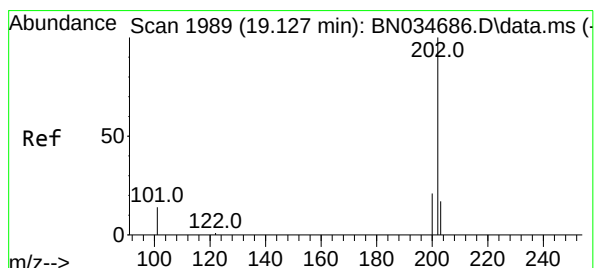
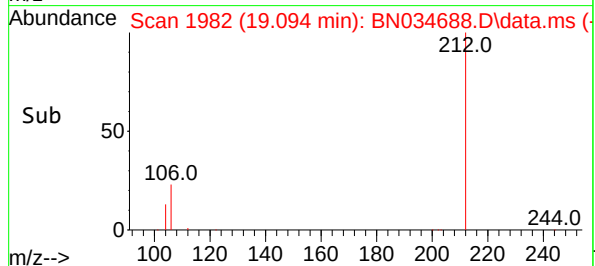
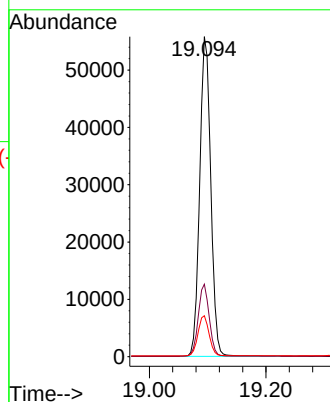
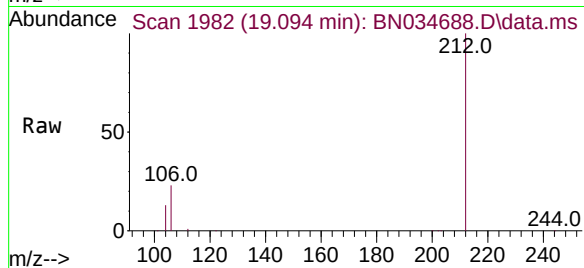
Tgt Ion:212 Resp: 73515

Ion Ratio Lower Upper

212 100

106 22.2 17.8 26.8

104 12.6 10.2 15.4



#28

Fluoranthene

Concen: 1.598 ng

RT: 19.127 min Scan# 1989

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

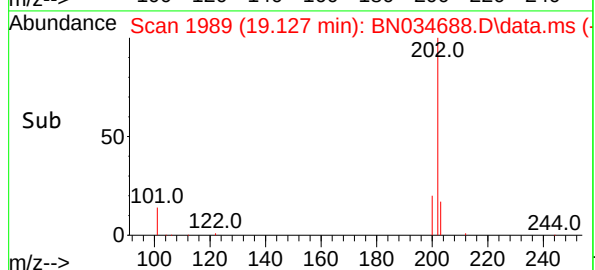
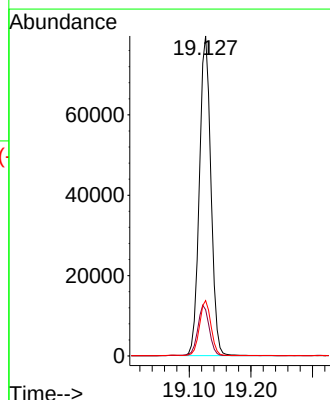
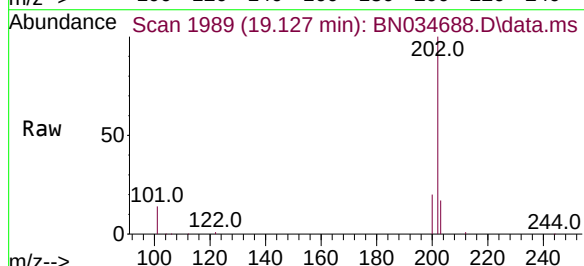
Tgt Ion:202 Resp: 103093

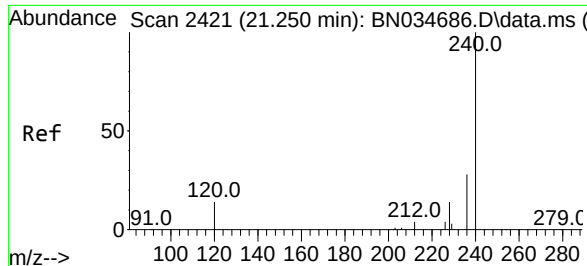
Ion Ratio Lower Upper

202 100

101 16.0 12.8 19.2

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

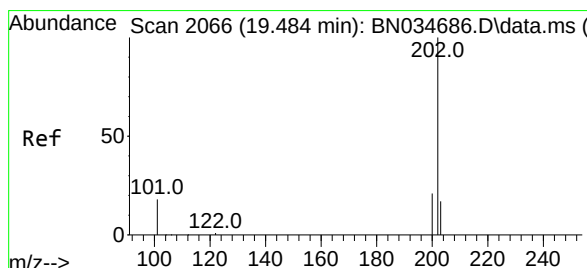
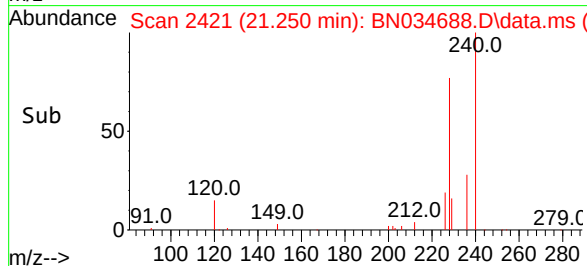
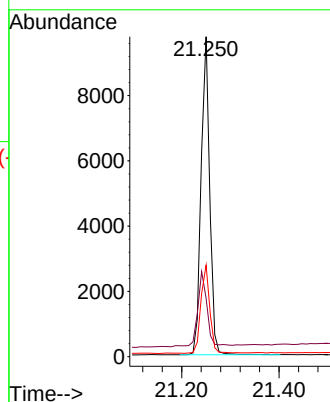
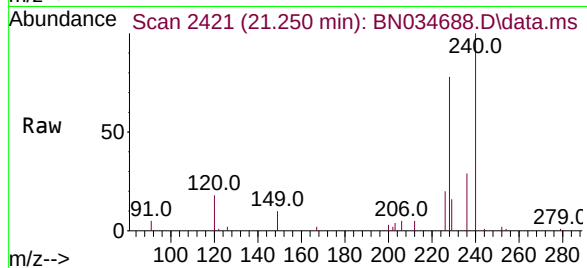
Tgt Ion:240 Resp: 11924

Ion Ratio Lower Upper

240 100

120 18.2 14.2 21.2

236 28.6 23.1 34.7



#30

Pyrene

Concen: 1.936 ng

RT: 19.489 min Scan# 2067

Delta R.T. 0.005 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

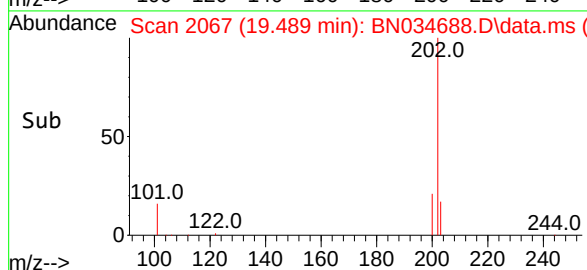
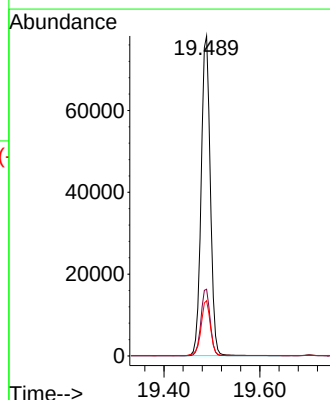
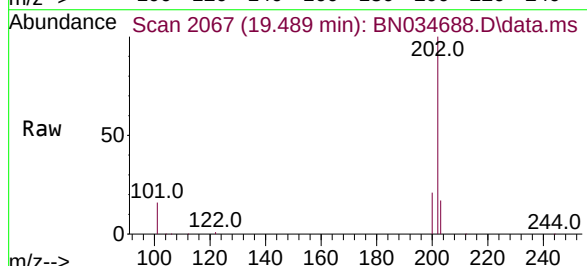
Tgt Ion:202 Resp: 103194

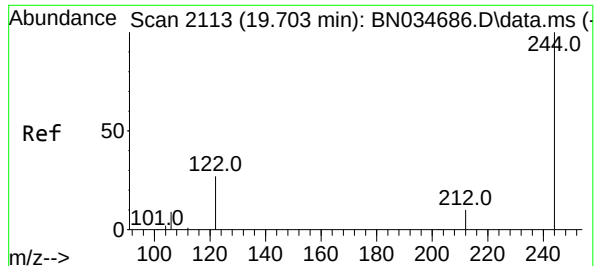
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.7 14.2 21.4

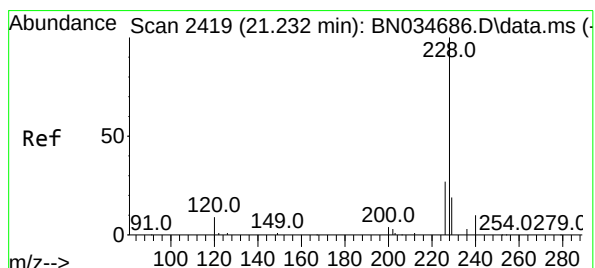
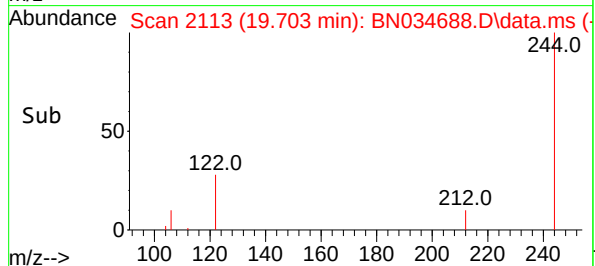
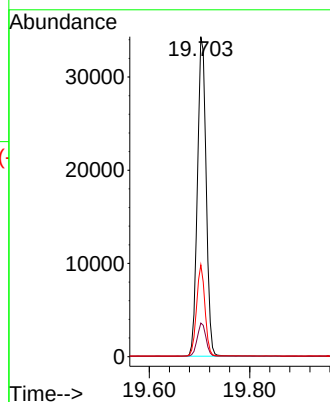
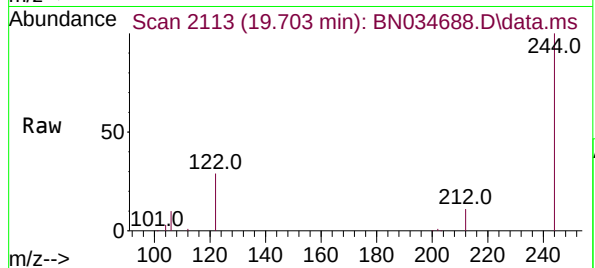




#31
Terphenyl-d14
Concen: 1.788 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

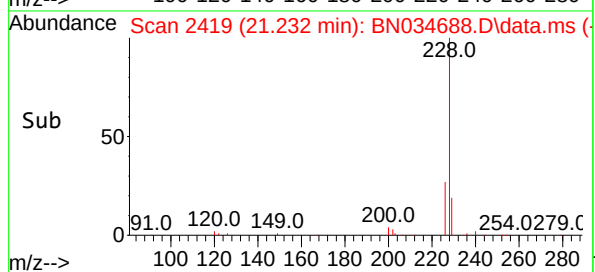
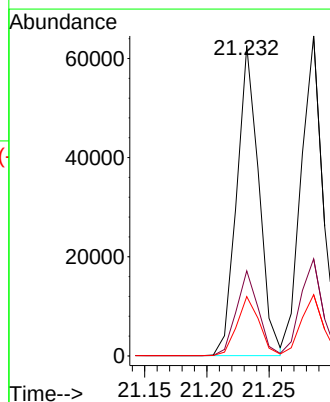
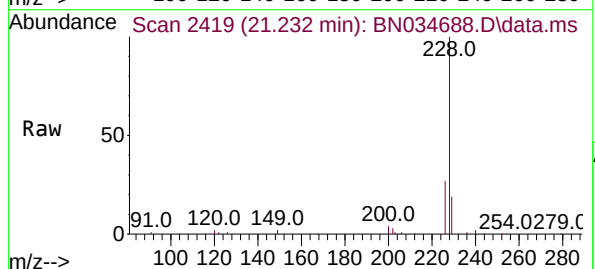
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

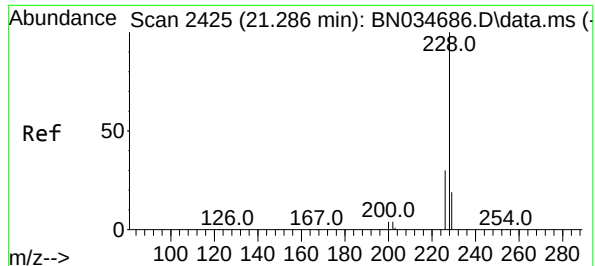
Tgt Ion:244 Resp: 41261
Ion Ratio Lower Upper
244 100
212 10.5 8.6 13.0
122 28.7 22.3 33.5



#32
Benzo(a)anthracene
Concen: 1.693 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Tgt Ion:228 Resp: 76954
Ion Ratio Lower Upper
228 100
226 27.4 22.0 33.0
229 19.1 15.6 23.4





#33

Chrysene

Concen: 1.741 ng

RT: 21.286 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

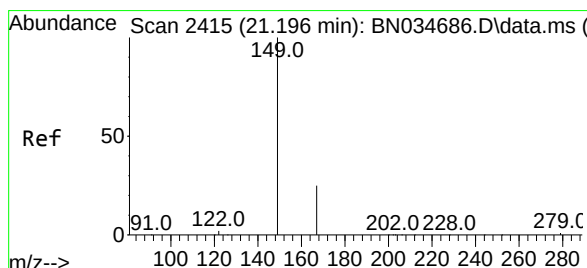
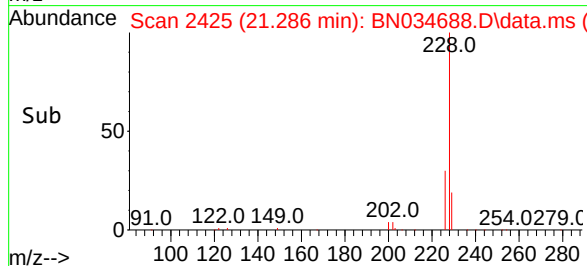
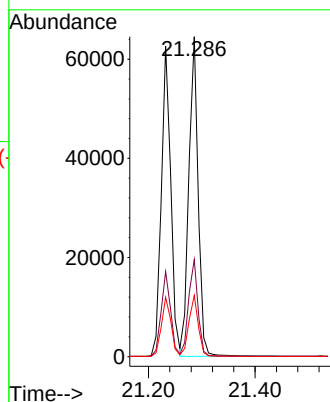
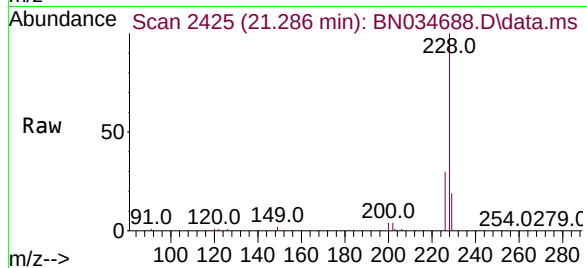
Tgt Ion:228 Resp: 78358

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

229 19.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.354 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

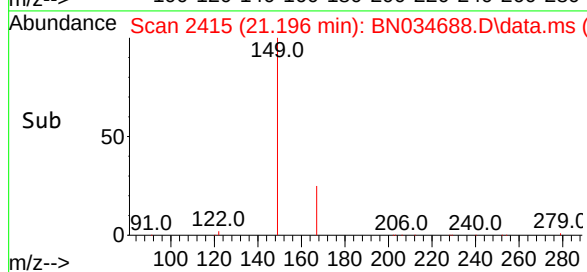
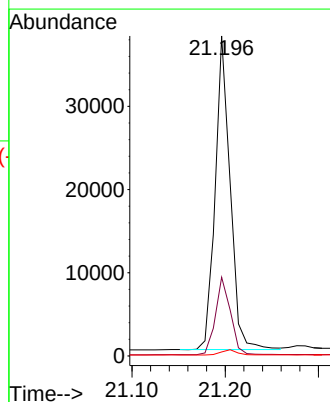
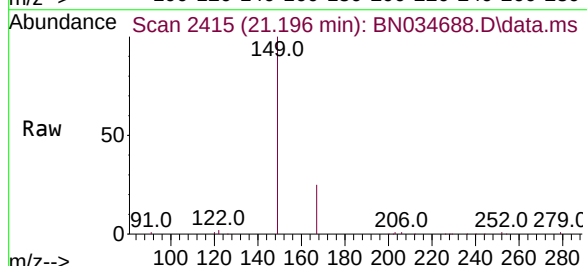
Tgt Ion:149 Resp: 41892

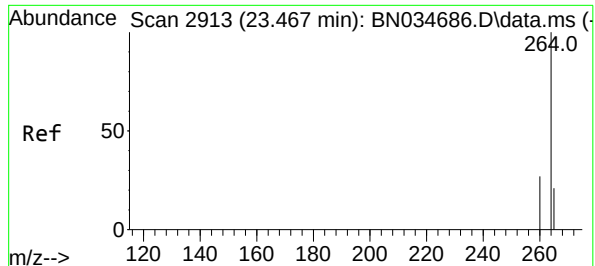
Ion Ratio Lower Upper

149 100

167 24.7 19.7 29.5

279 1.7 1.8 2.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

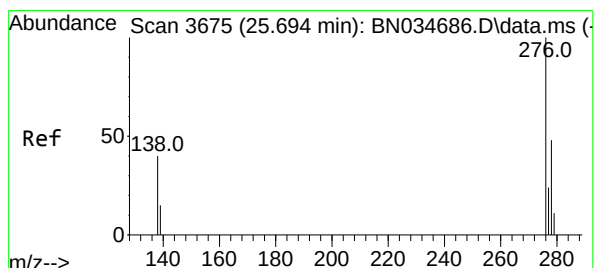
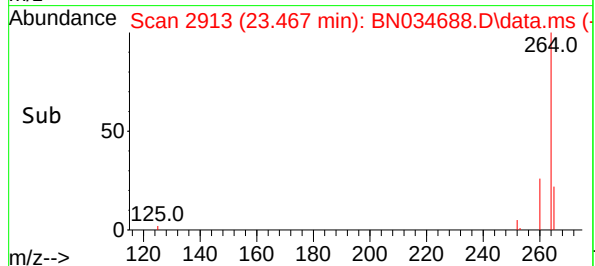
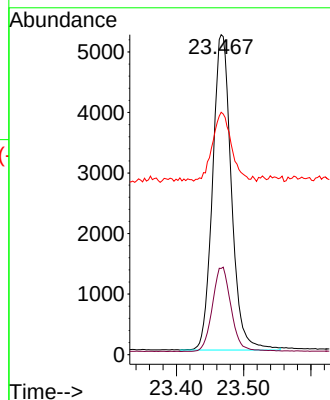
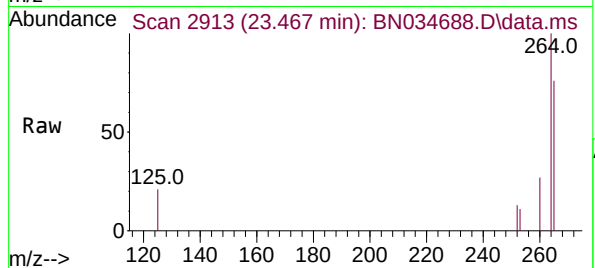
Tgt Ion:264 Resp: 10103

Ion Ratio Lower Upper

264 100

260 26.9 21.9 32.9

265 75.7 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.682 ng

RT: 25.697 min Scan# 3676

Delta R.T. 0.003 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

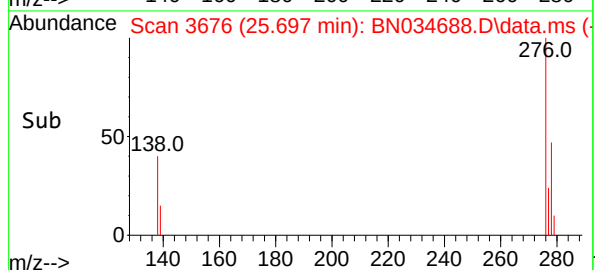
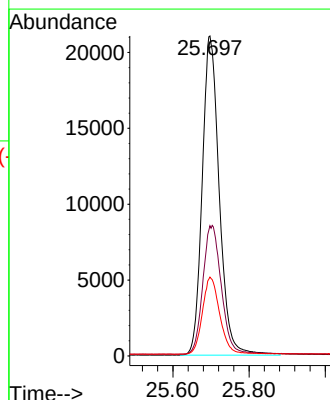
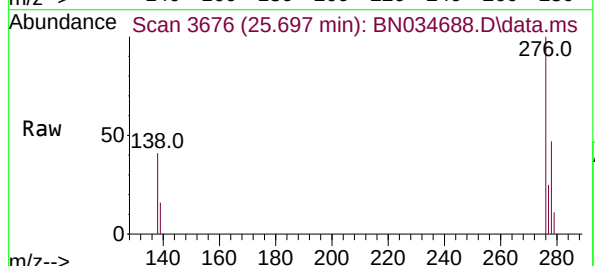
Tgt Ion:276 Resp: 65482

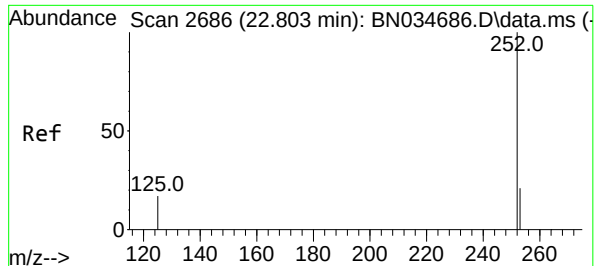
Ion Ratio Lower Upper

276 100

138 43.4 35.1 52.7

277 24.3 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.880 ng

RT: 22.803 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

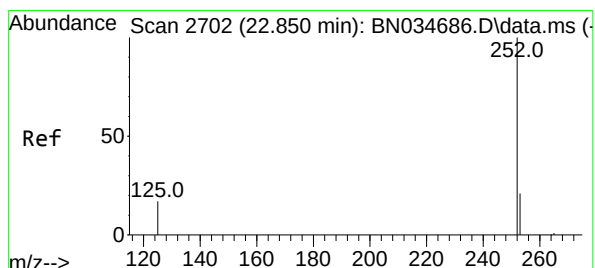
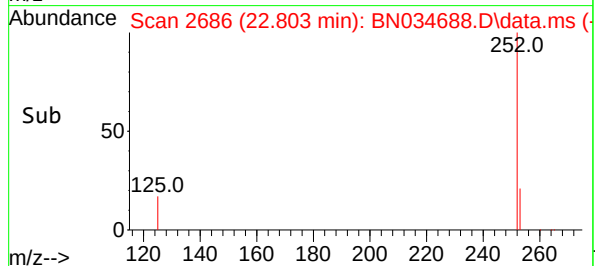
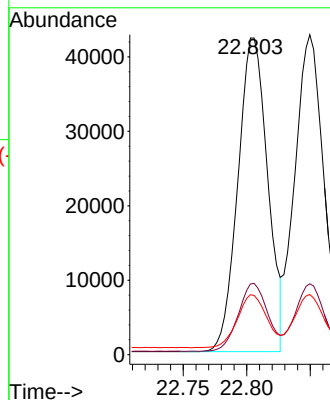
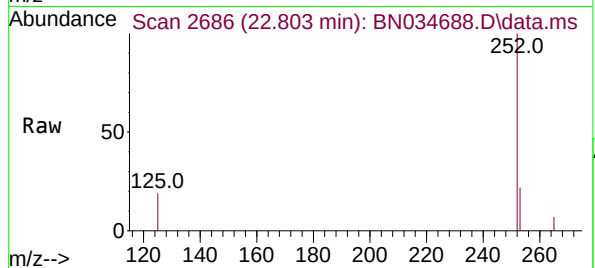
Tgt Ion:252 Resp: 68644

Ion Ratio Lower Upper

252 100

253 22.3 20.0 30.0

125 18.9 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 1.942 ng

RT: 22.850 min Scan# 2702

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

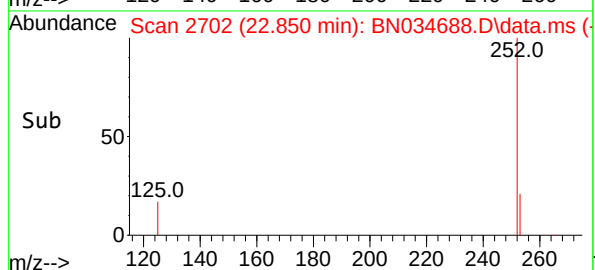
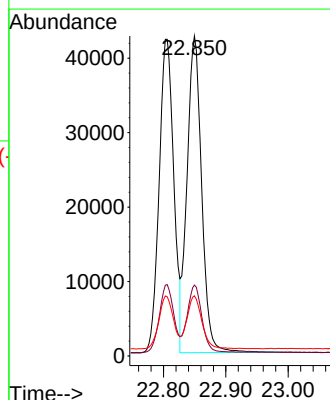
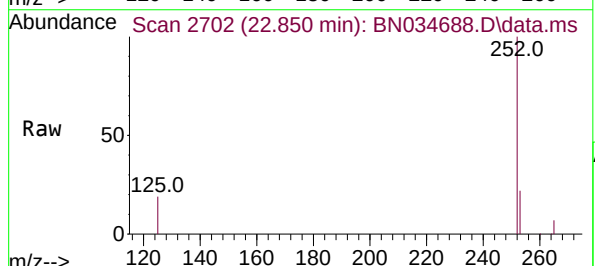
Tgt Ion:252 Resp: 69183

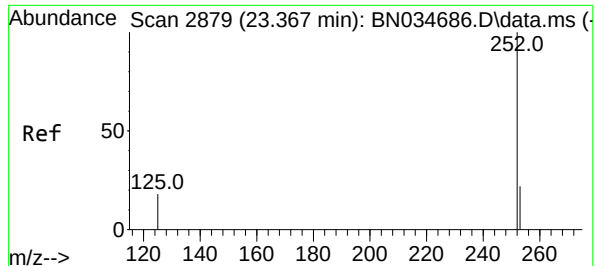
Ion Ratio Lower Upper

252 100

253 22.1 20.6 31.0

125 18.8 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 1.802 ng

RT: 23.370 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

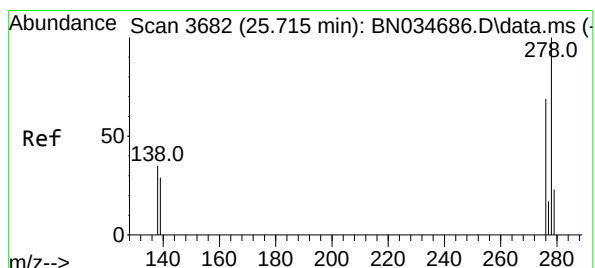
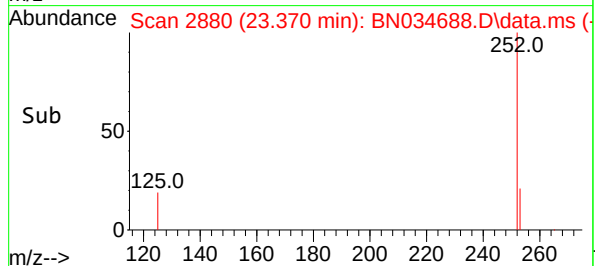
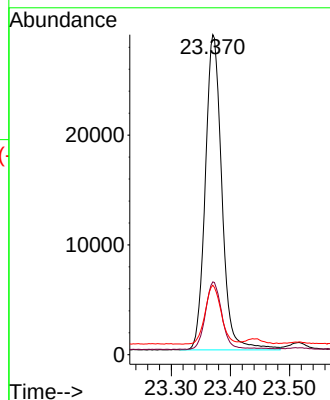
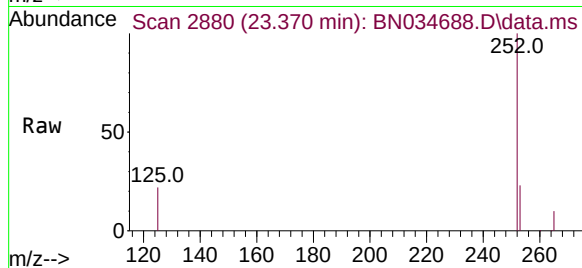
Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:	252	Resp:	55896
Ion Ratio	Lower	Upper	
252	100		
253	22.8	22.2	33.4
125	21.7	26.0	39.0



#40

Dibenzo(a,h)anthracene

Concen: 1.696 ng

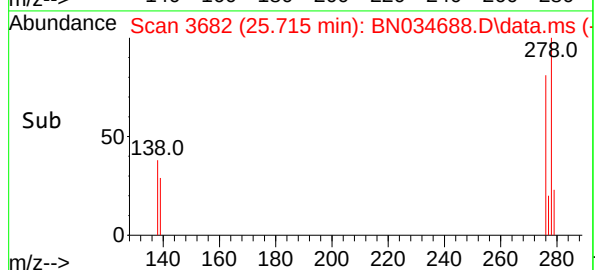
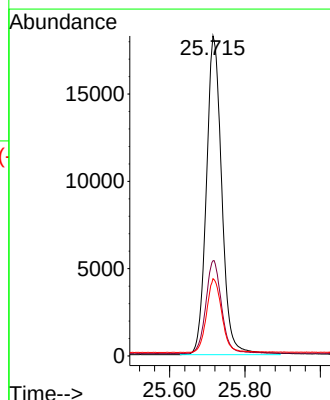
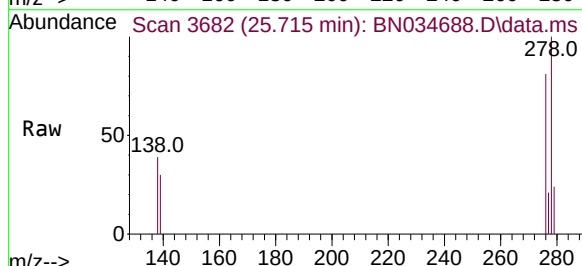
RT: 25.715 min Scan# 3682

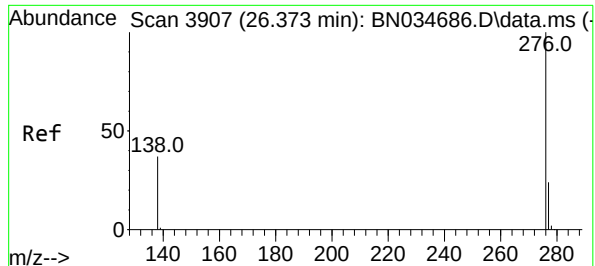
Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Tgt Ion:	278	Resp:	51867
Ion Ratio	Lower	Upper	
278	100		
139	29.7	25.4	38.2
279	24.2	22.4	33.6





#41

Benzo(g,h,i)perylene

Concen: 1.661 ng

RT: 26.373 min Scan# 3907

Delta R.T. 0.000 min

Lab File: BN034688.D

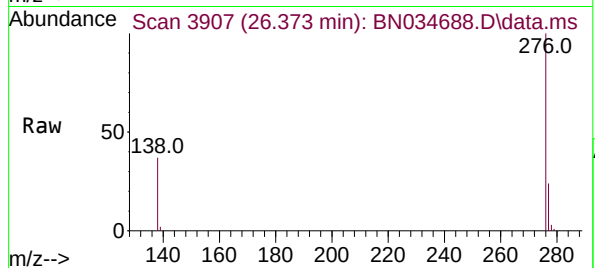
Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



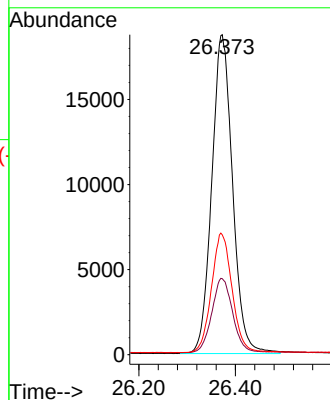
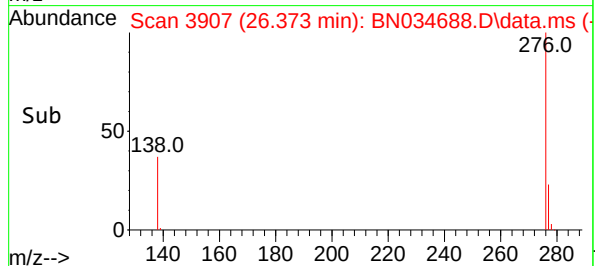
Tgt Ion:276 Resp: 56042

Ion Ratio Lower Upper

276 100

277 23.8 21.3 31.9

138 37.5 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034689.D
 Acq On : 24 Oct 2024 12:11
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Oct 24 12:44:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

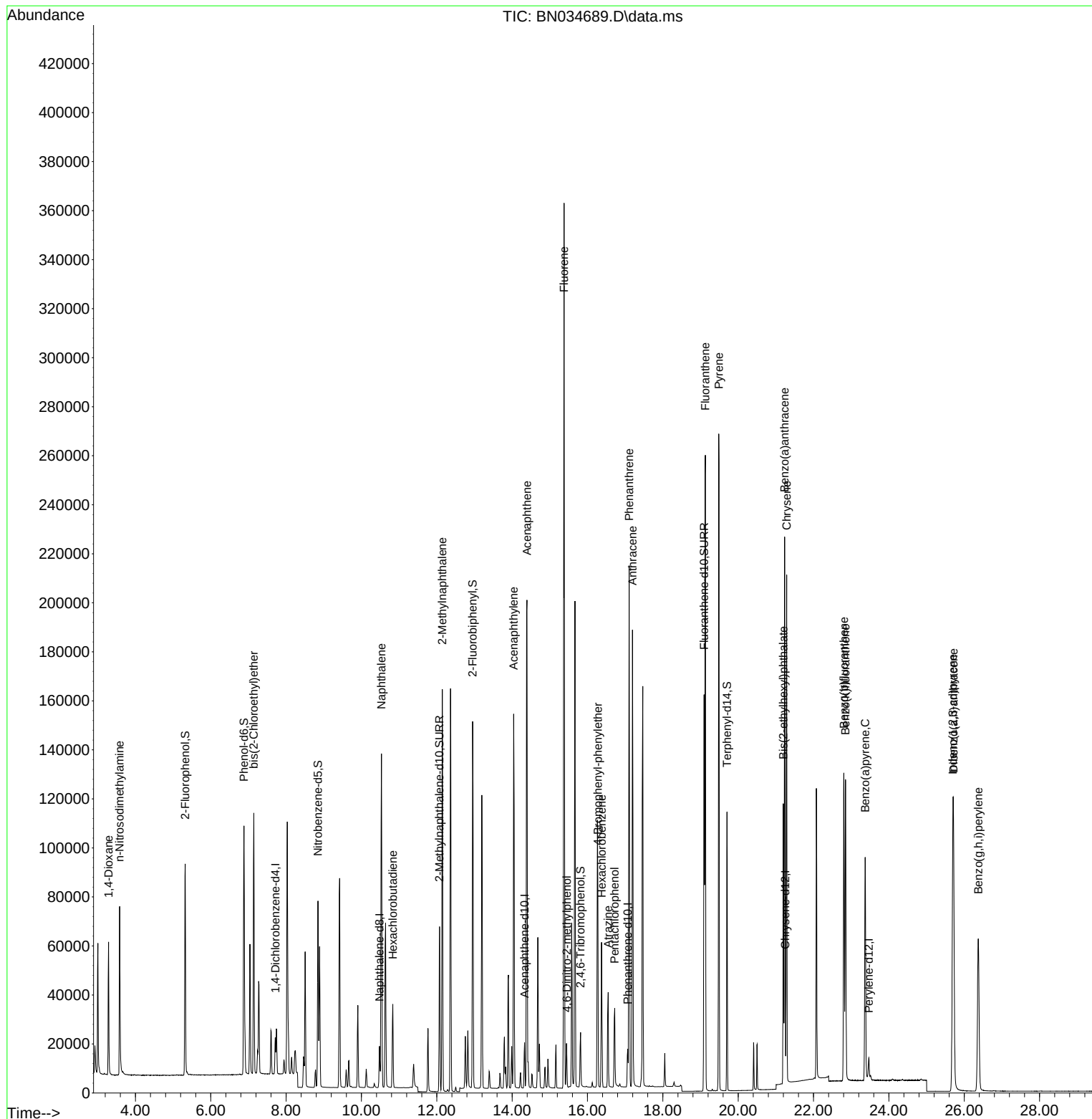
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6787	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19859	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	10274	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	21008	0.400	ng	0.00
29) Chrysene-d12	21.250	240	13427	0.400	ng	0.00
35) Perylene-d12	23.467	264	11211	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	63436	3.054	ng	0.00
5) Phenol-d6	6.882	99	85211	3.208	ng	0.00
8) Nitrobenzene-d5	8.845	82	53485	3.251	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	88547	3.167	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	11167	2.564	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	126562	3.125	ng	0.00
27) Fluoranthene-d10	19.094	212	153423	2.983	ng	0.00
31) Terphenyl-d14	19.703	244	88081	3.389	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	27324	3.306	ng	99
3) n-Nitrosodimethylamine	3.581	42	41310	4.134	ng	# 95
6) bis(2-Chloroethyl)ether	7.142	93	67465	3.316	ng	99
9) Naphthalene	10.532	128	173884	3.175	ng	99
10) Hexachlorobutadiene	10.831	225	25389	2.893	ng	# 99
12) 2-Methylnaphthalene	12.147	142	110779	3.200	ng	99
16) Acenaphthylene	14.040	152	161452	3.270	ng	99
17) Acenaphthene	14.393	154	109212	3.243	ng	98
18) Fluorene	15.377	166	136703	3.257	ng	99
20) 4,6-Dinitro-2-methylph...	15.452	198	10505	3.657	ng	# 44
21) 4-Bromophenyl-phenylether	16.275	248	35596	3.098	ng	96
22) Hexachlorobenzene	16.374	284	38020	2.981	ng	100
23) Atrazine	16.548	200	30485	3.032	ng	99
24) Pentachlorophenol	16.721	266	15457	3.088	ng	99
25) Phenanthrene	17.106	178	200178	3.203	ng	100
26) Anthracene	17.193	178	185283	3.315	ng	100
28) Fluoranthene	19.127	202	216788	3.093	ng	100
30) Pyrene	19.484	202	219062	3.649	ng	100
32) Benzo(a)anthracene	21.232	228	166793	3.259	ng	100
33) Chrysene	21.286	228	164703	3.250	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	98247	2.819	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.697	276	136074	3.150	ng	99
37) Benzo(b)fluoranthene	22.806	252	144801	3.574	ng	# 88
38) Benzo(k)fluoranthene	22.847	252	143101	3.620	ng	# 87
39) Benzo(a)pyrene	23.370	252	118654	3.448	ng	# 82
40) Dibenzo(a,h)anthracene	25.715	278	107743	3.175	ng	93
41) Benzo(g,h,i)perylene	26.373	276	115668	3.089	ng	95

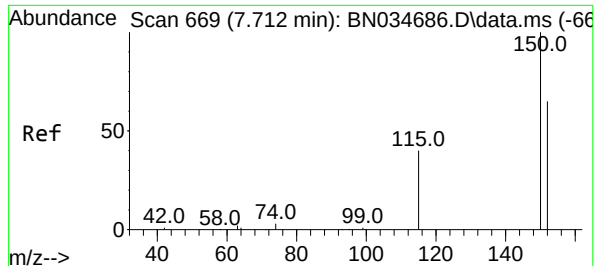
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034689.D
Acq On : 24 Oct 2024 12:11
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Oct 24 12:44:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

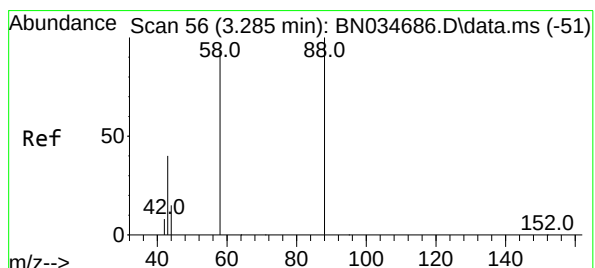
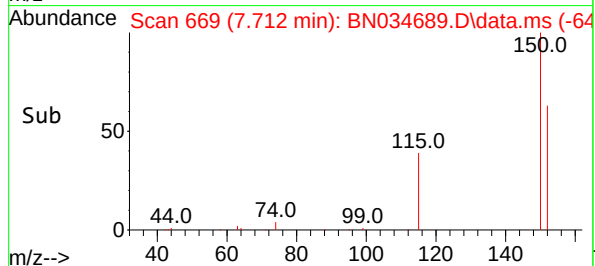
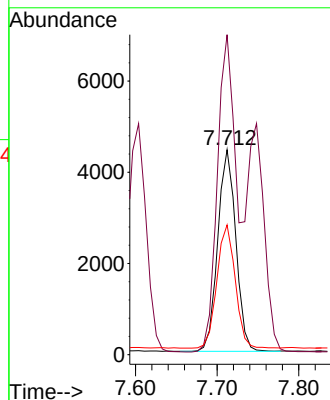
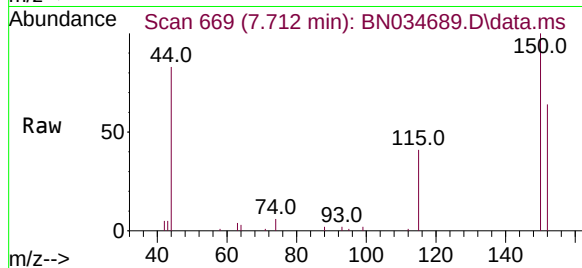




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

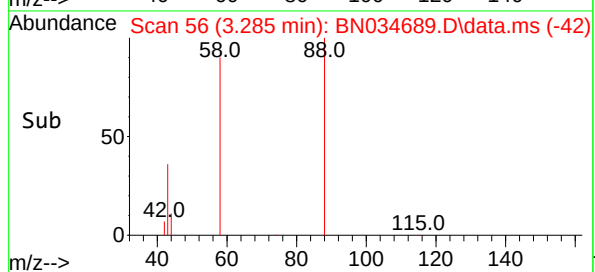
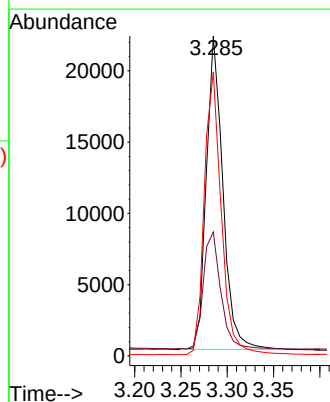
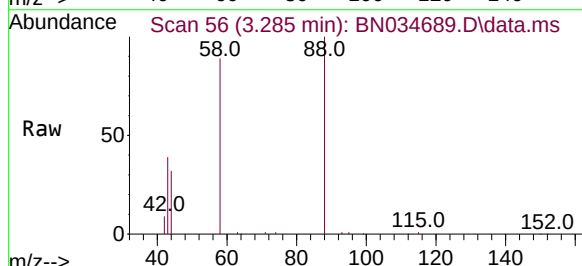
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

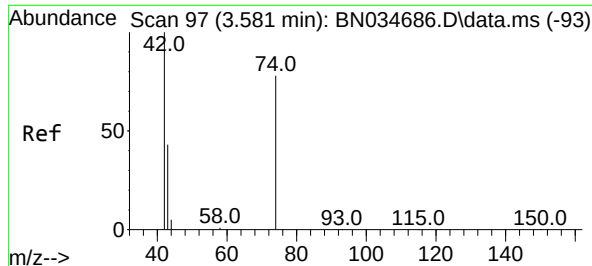
Tgt Ion:152 Resp: 6787
Ion Ratio Lower Upper
152 100
150 156.1 122.7 184.1
115 63.3 51.0 76.6



#2
1,4-Dioxane
Concen: 3.306 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion: 88 Resp: 27324
Ion Ratio Lower Upper
88 100
43 39.4 32.1 48.1
58 92.6 73.7 110.5

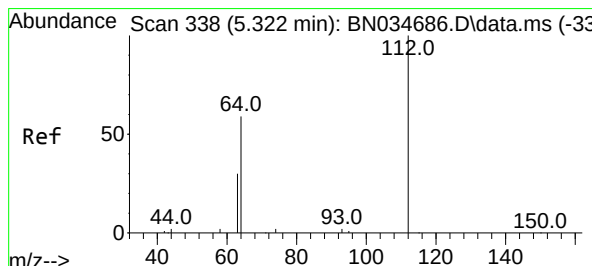
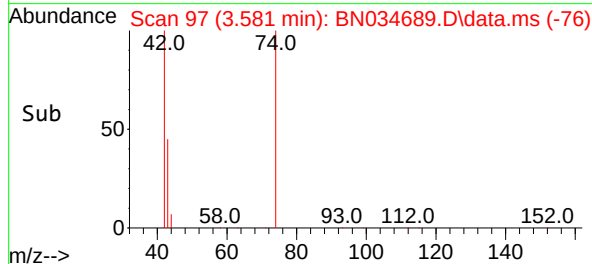
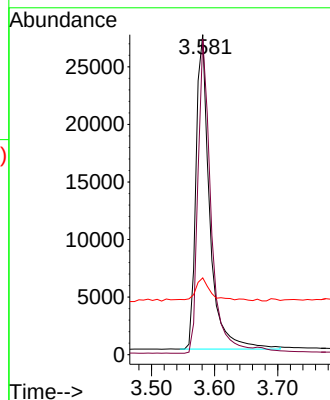
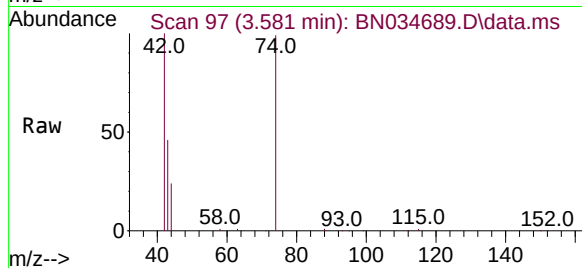




#3
n-Nitrosodimethylamine
Concen: 4.134 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

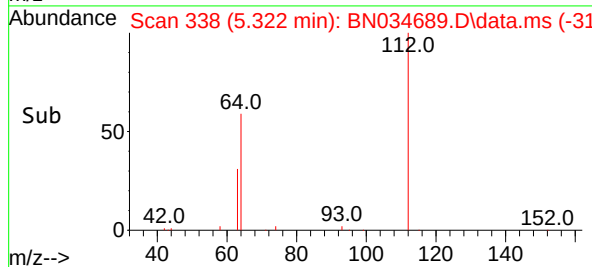
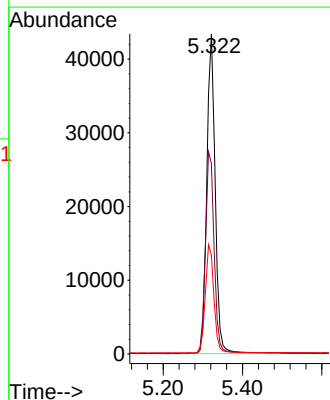
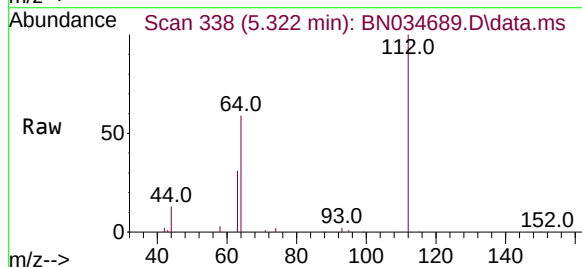
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

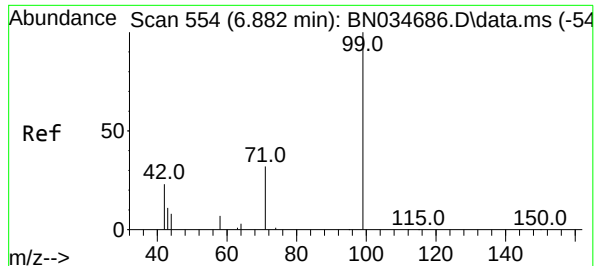
Tgt Ion: 42 Resp: 41310
Ion Ratio Lower Upper
42 100
74 94.5 77.2 115.8
44 8.2 13.4 20.2#



#4
2-Fluorophenol
Concen: 3.054 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion: 112 Resp: 63436
Ion Ratio Lower Upper
112 100
64 65.8 53.0 79.6
63 34.8 27.6 41.4

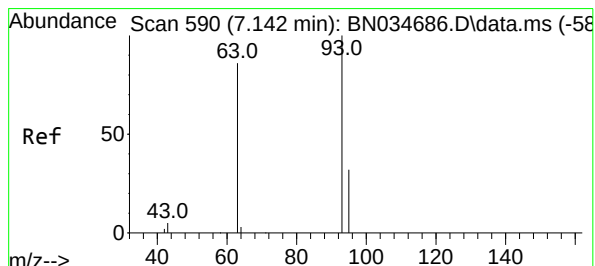
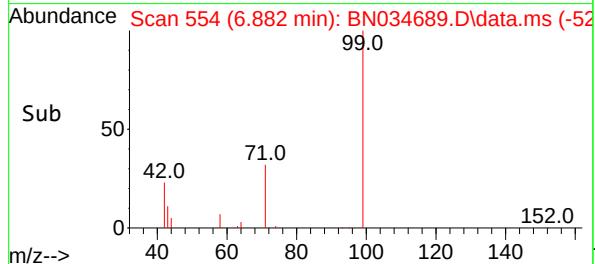
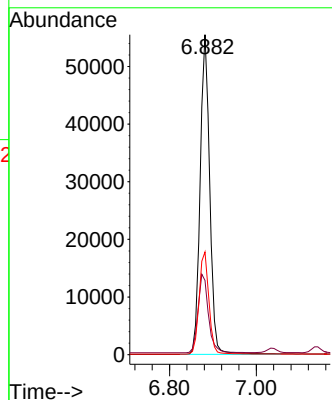
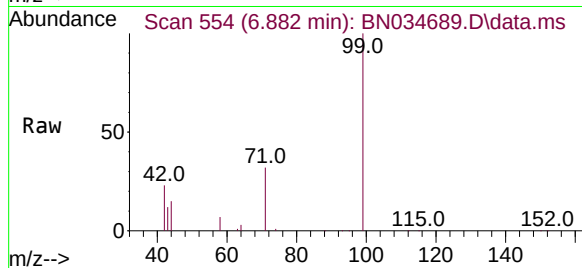




#5
Phenol-d6
Concen: 3.208 ng
RT: 6.882 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

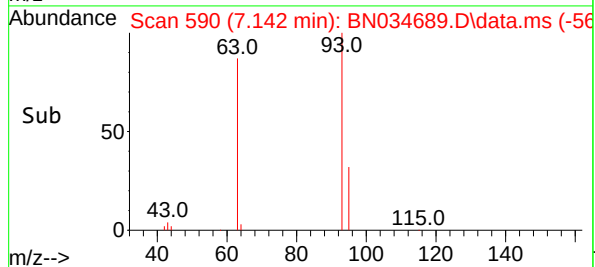
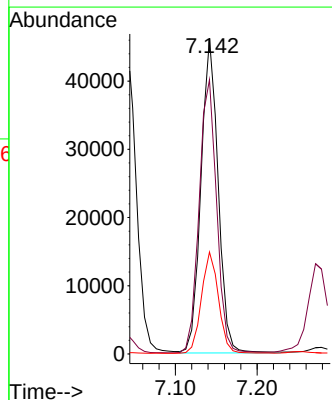
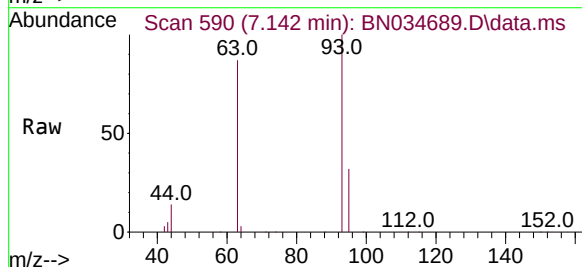
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

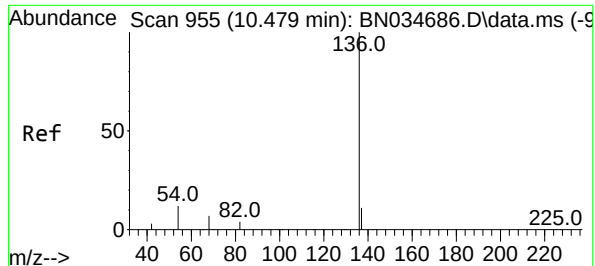
Tgt Ion: 99 Resp: 85211
Ion Ratio Lower Upper
99 100
42 26.8 21.8 32.8
71 32.9 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 3.316 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion: 93 Resp: 67465
Ion Ratio Lower Upper
93 100
63 88.4 71.5 107.3
95 32.0 25.8 38.6

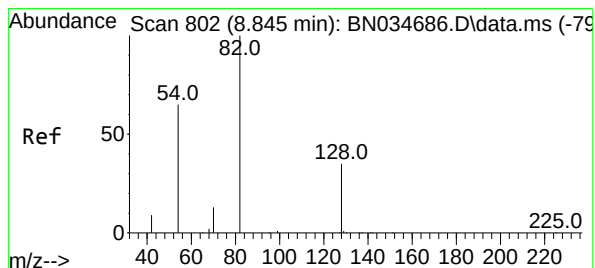
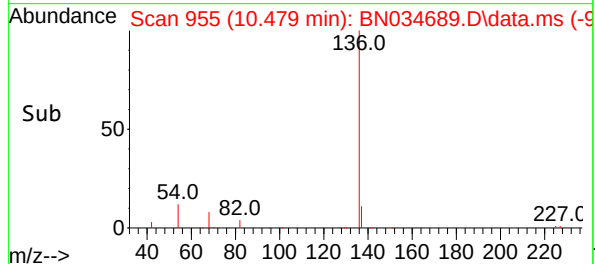
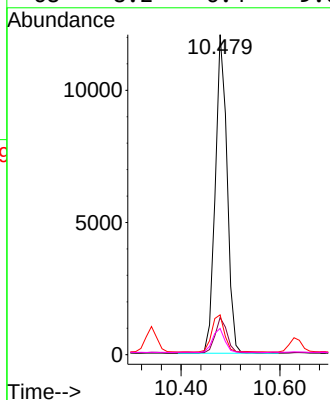
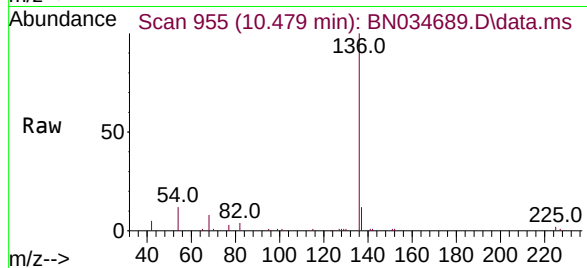




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

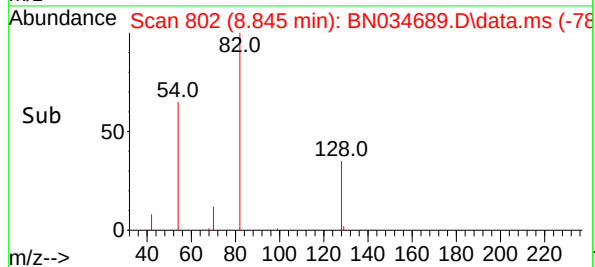
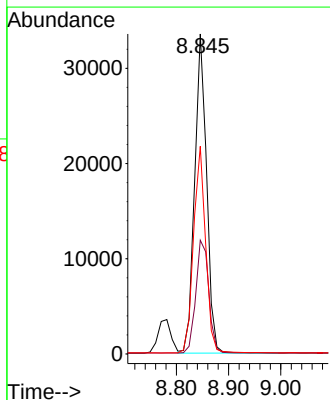
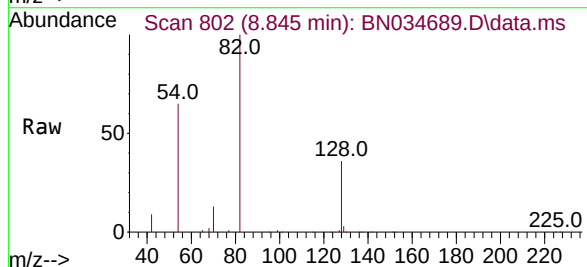
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

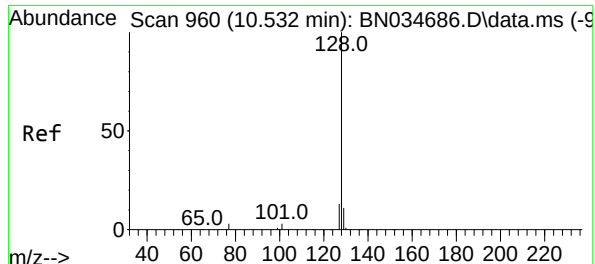
Tgt Ion:	136	Resp:	19859
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	12.4	9.8	14.8
68	8.2	6.4	9.6



#8
Nitrobenzene-d5
Concen: 3.251 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion:	82	Resp:	53485
Ion	Ratio	Lower	Upper
82	100		
128	35.5	29.7	44.5
54	64.9	53.0	79.6





#9

Naphthalene

Concen: 3.175 ng

RT: 10.532 min Scan# 960

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

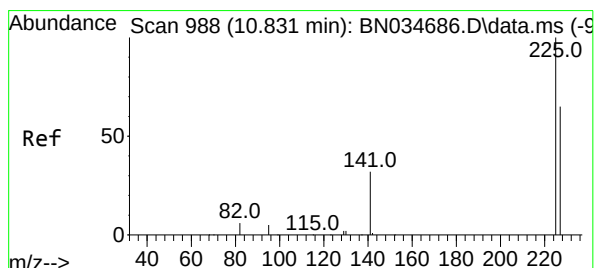
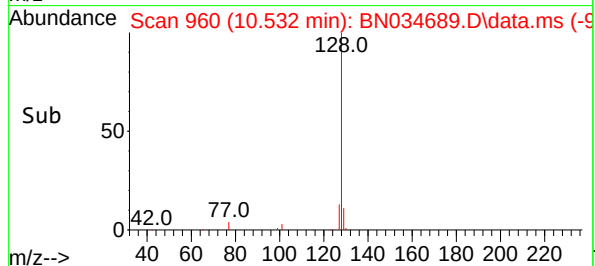
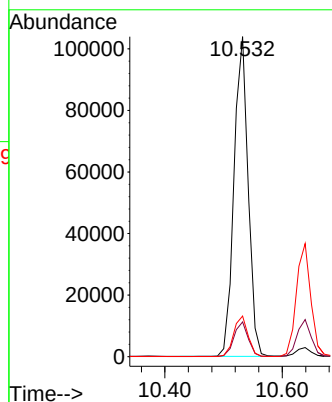
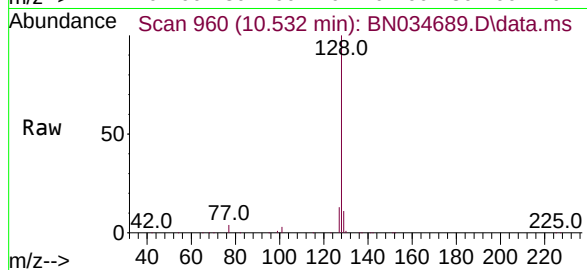
Tgt Ion:128 Resp: 173884

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.6

127 12.7 10.5 15.7



#10

Hexachlorobutadiene

Concen: 2.893 ng

RT: 10.831 min Scan# 988

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

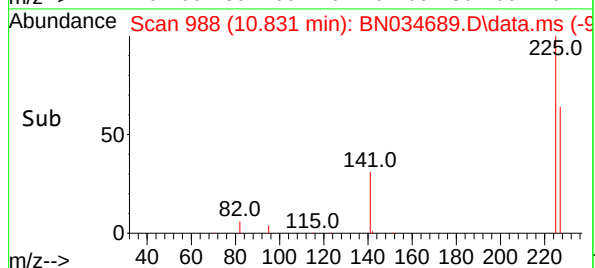
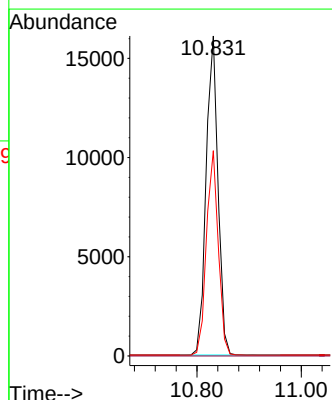
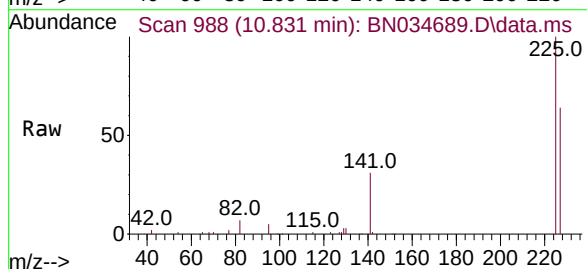
Tgt Ion:225 Resp: 25389

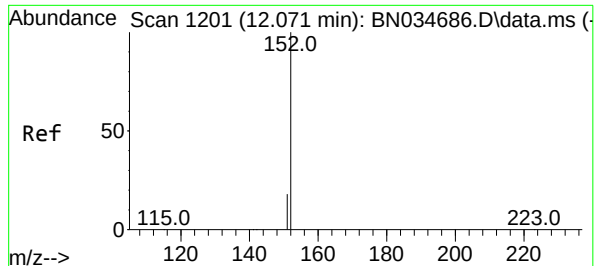
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.4 77.0

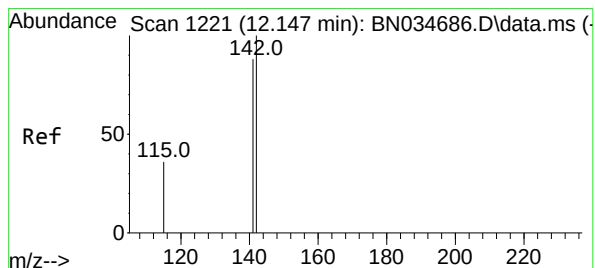
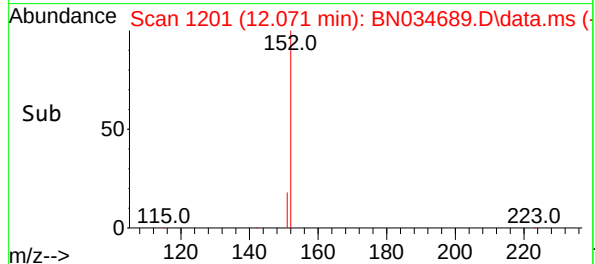
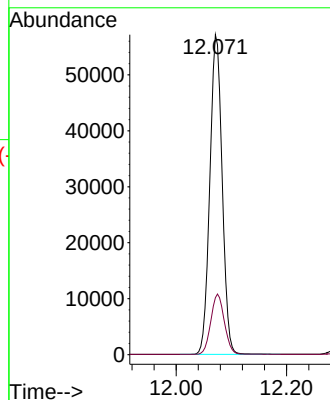
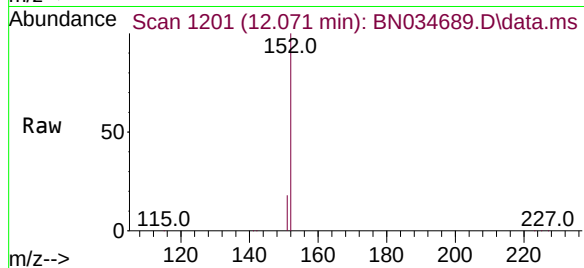




#11
2-Methylnaphthalene-d10
Concen: 3.167 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

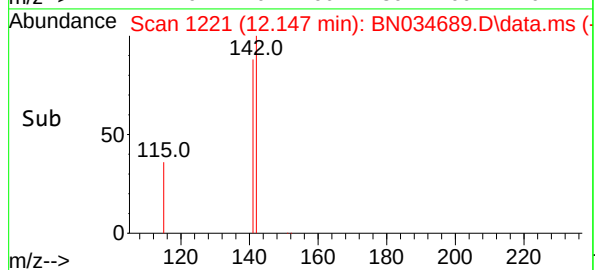
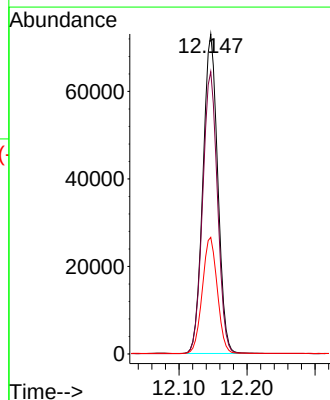
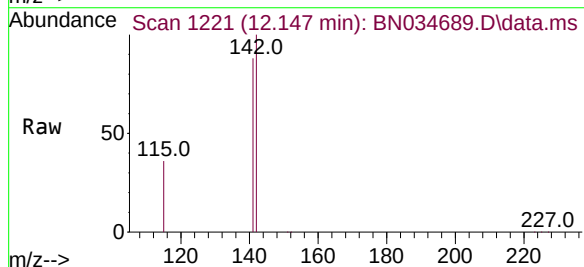
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

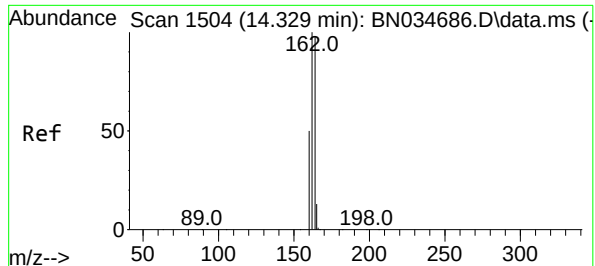
Tgt Ion:152 Resp: 88547
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 3.200 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion:142 Resp: 110779
Ion Ratio Lower Upper
142 100
141 88.2 70.4 105.6
115 36.5 29.8 44.6

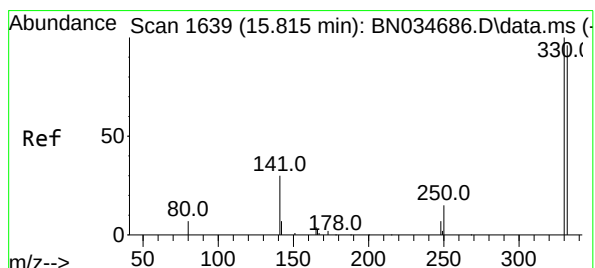
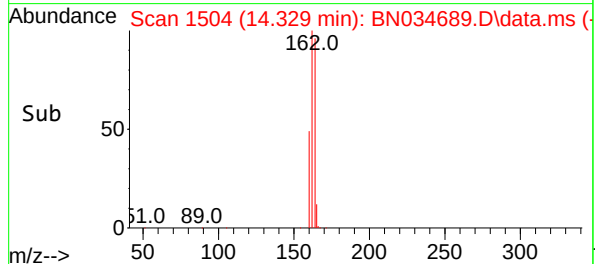
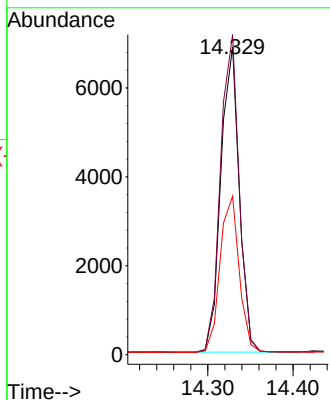
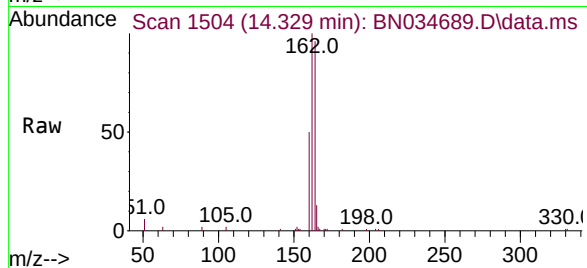




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

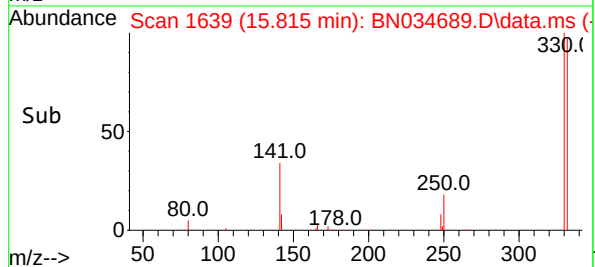
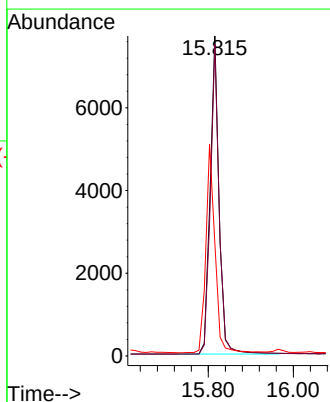
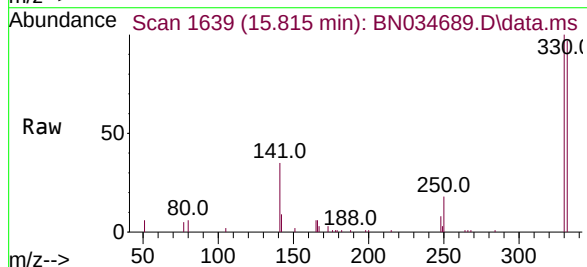
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

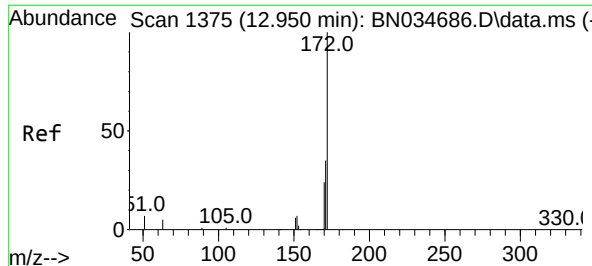
Tgt Ion:164 Resp: 10274
Ion Ratio Lower Upper
164 100
162 104.0 81.4 122.0
160 51.5 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 2.564 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion:330 Resp: 11167
Ion Ratio Lower Upper
330 100
332 96.2 76.6 115.0
141 67.0 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 3.125 ng

RT: 12.950 min Scan# 1375

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

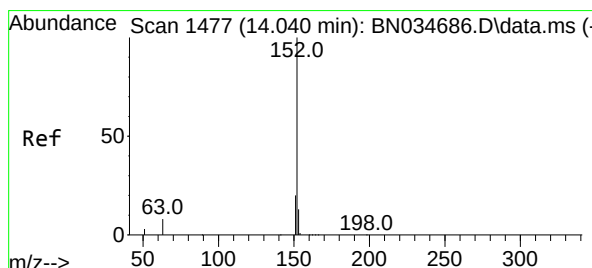
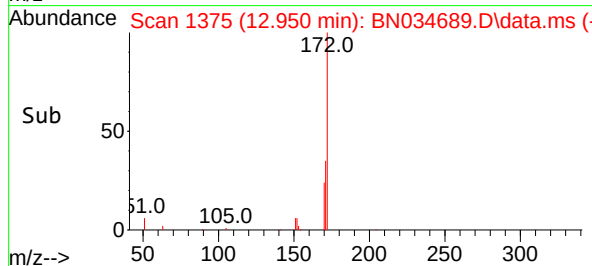
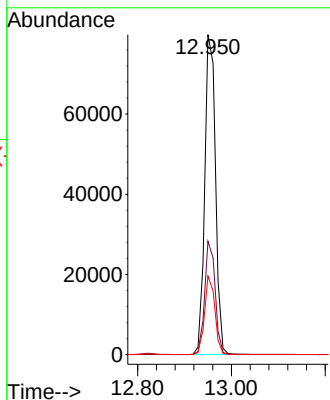
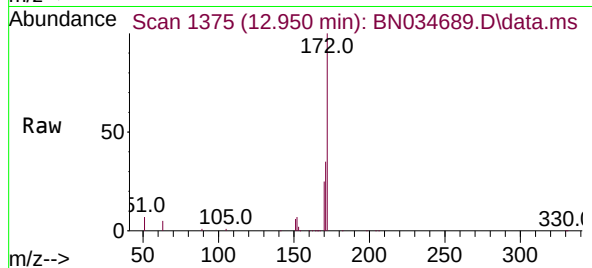
Tgt Ion:172 Resp: 126562

Ion Ratio Lower Upper

172 100

171 35.4 28.3 42.5

170 24.5 19.8 29.6



#16

Acenaphthylene

Concen: 3.270 ng

RT: 14.040 min Scan# 1477

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

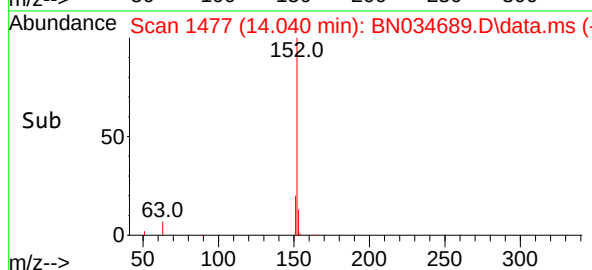
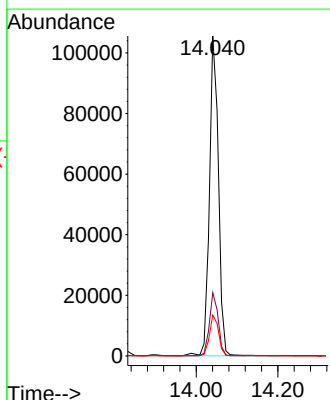
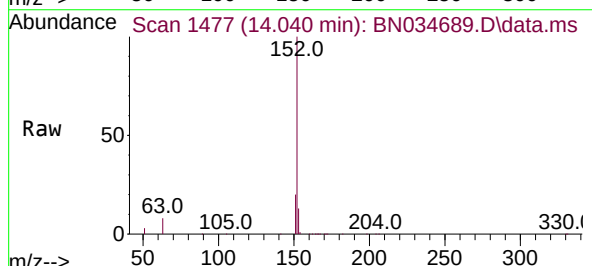
Tgt Ion:152 Resp: 161452

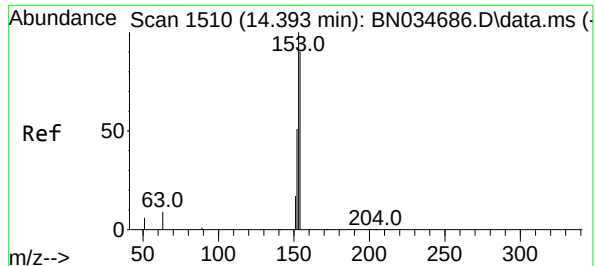
Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

153 12.9 10.6 15.8

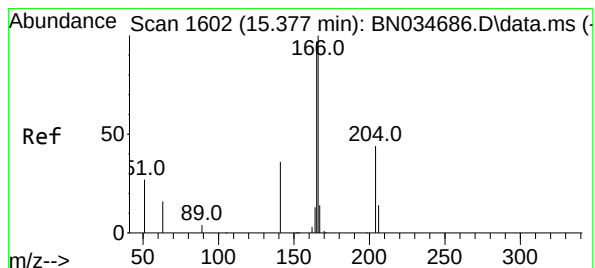
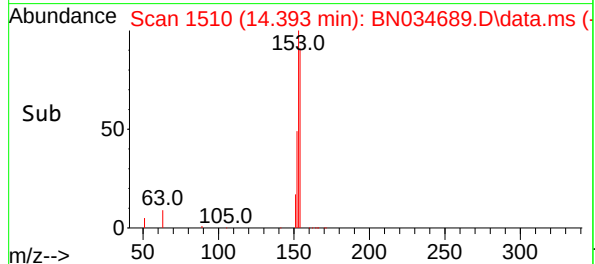
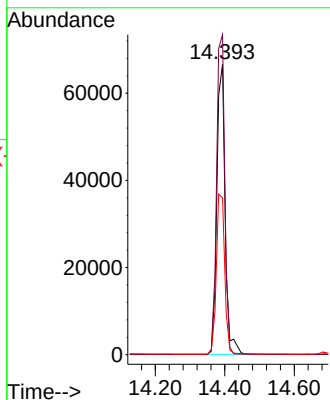
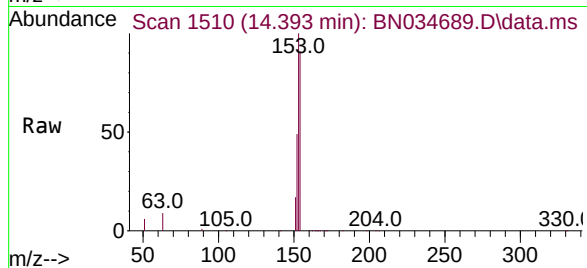




#17
Acenaphthene
Concen: 3.243 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

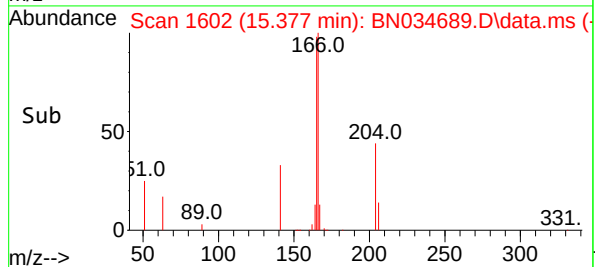
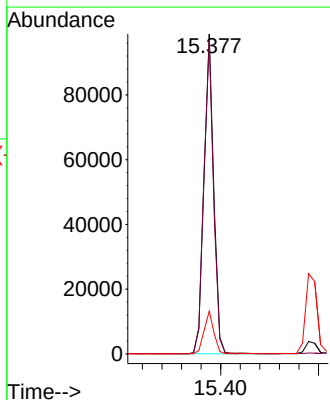
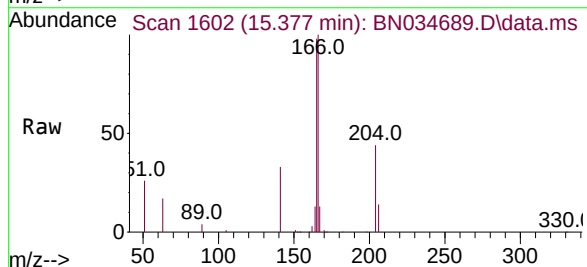
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

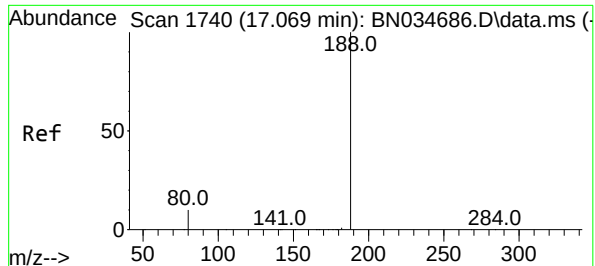
Tgt Ion:154 Resp: 109212
Ion Ratio Lower Upper
154 100
153 108.5 88.2 132.2
152 55.7 46.9 70.3



#18
Fluorene
Concen: 3.257 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion:166 Resp: 136703
Ion Ratio Lower Upper
166 100
165 97.2 78.8 118.2
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

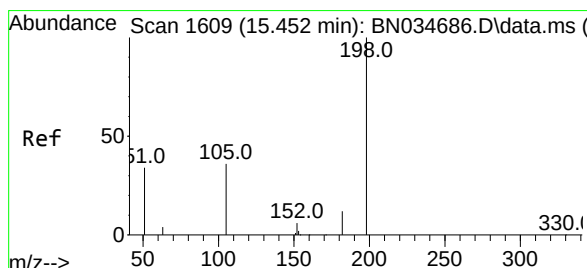
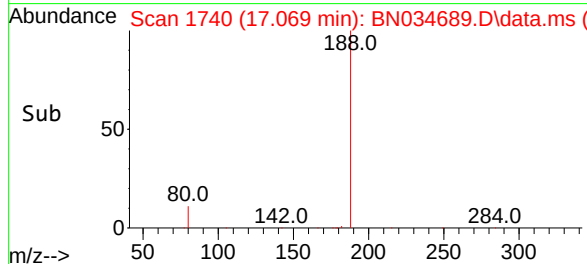
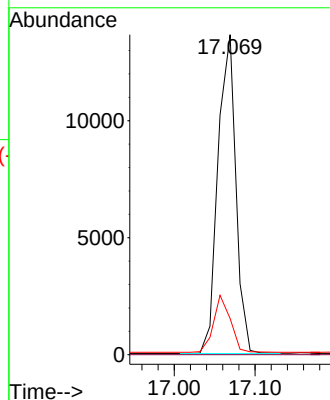
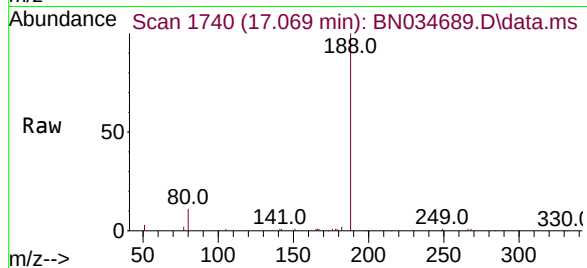
Tgt Ion:188 Resp: 21008

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 3.657 ng

RT: 15.452 min Scan# 1609

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

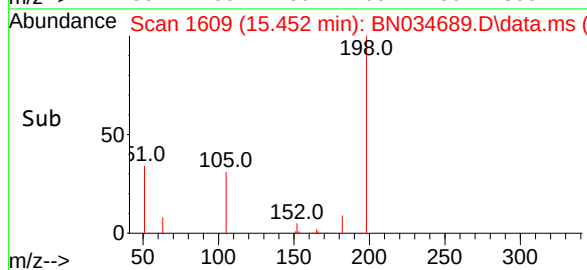
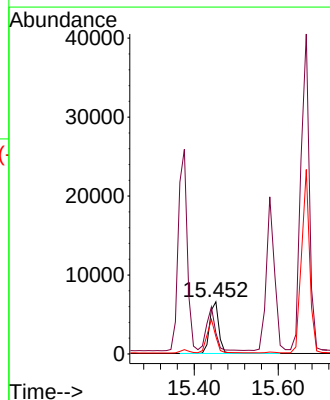
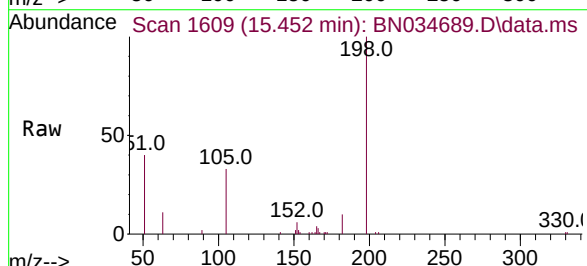
Tgt Ion:198 Resp: 10505

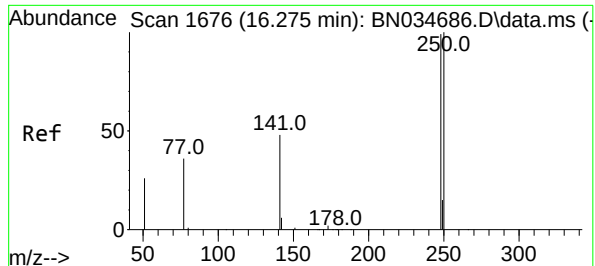
Ion Ratio Lower Upper

198 100

51 40.4 91.8 137.8#

105 33.3 44.3 66.5#

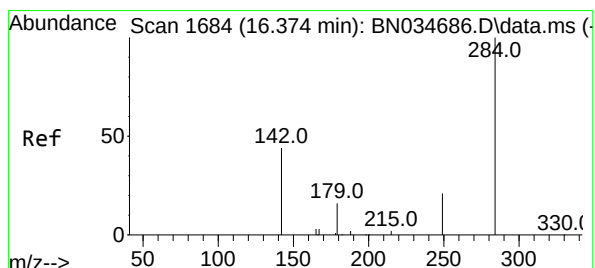
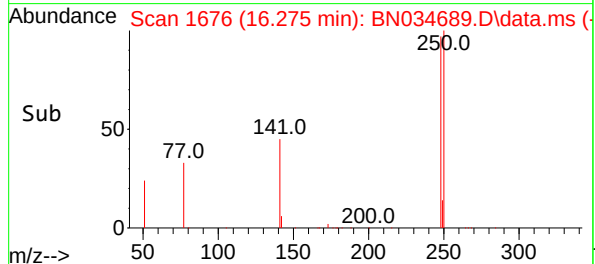
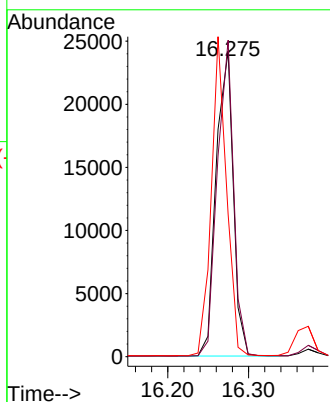
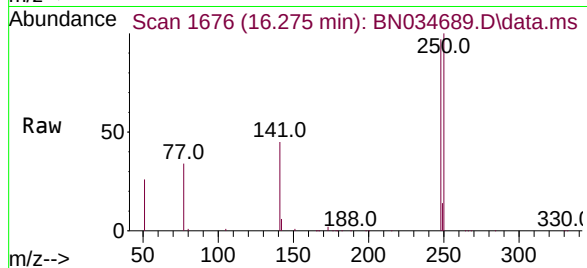




#21
4-Bromophenyl-phenylether
Concen: 3.098 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

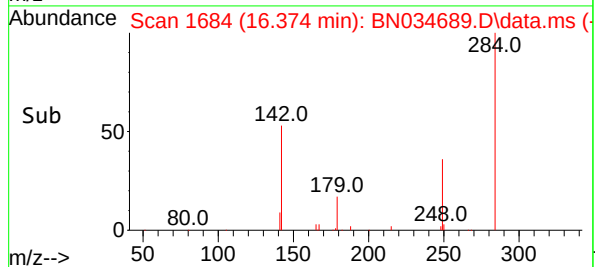
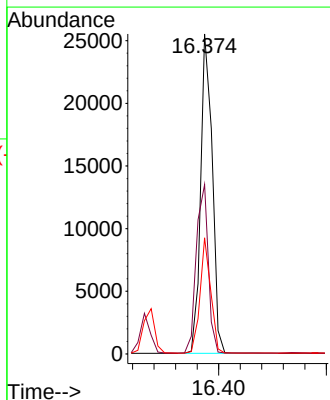
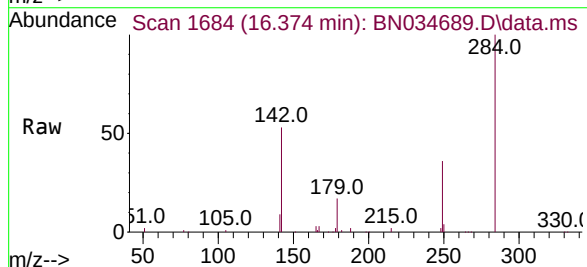
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

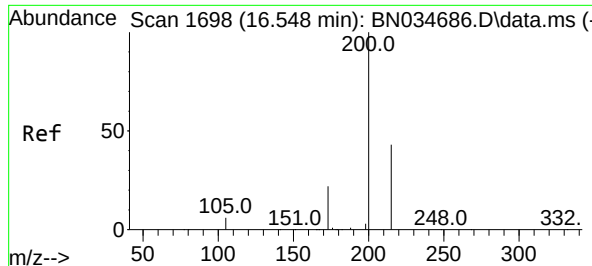
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.9	121.3
141	46.6	40.5	60.7



#22
Hexachlorobenzene
Concen: 2.981 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.0	43.6	65.4
249	33.4	26.6	40.0





#23

Atrazine

Concen: 3.032 ng

RT: 16.548 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

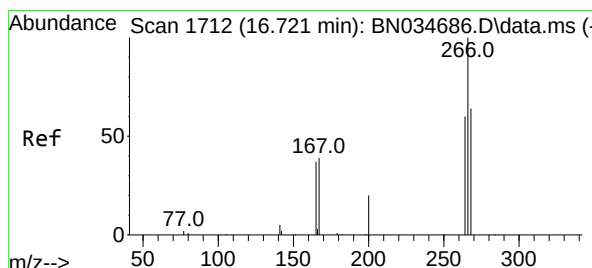
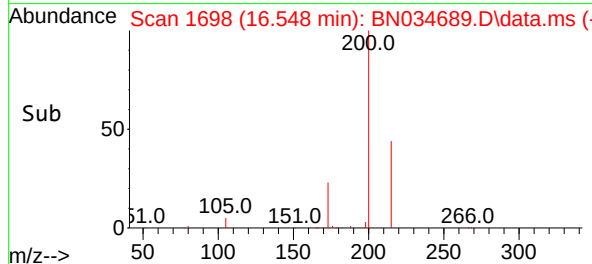
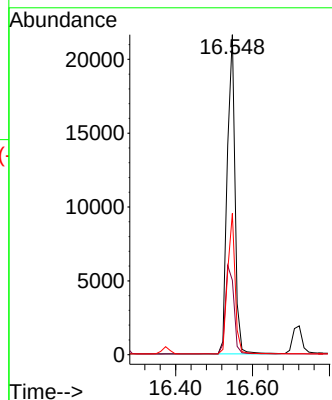
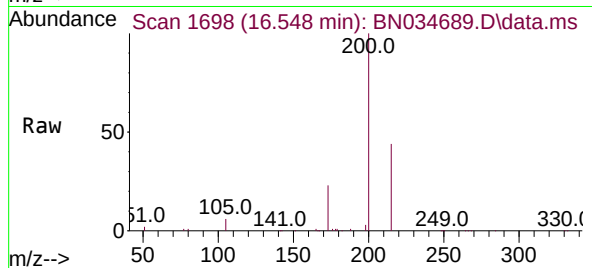
Tgt Ion:200 Resp: 30485

Ion Ratio Lower Upper

200 100

173 23.2 19.7 29.5

215 44.2 35.7 53.5



#24

Pentachlorophenol

Concen: 3.088 ng

RT: 16.721 min Scan# 1712

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

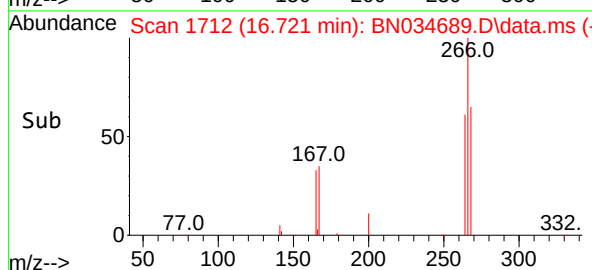
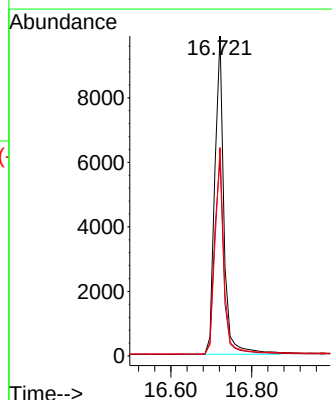
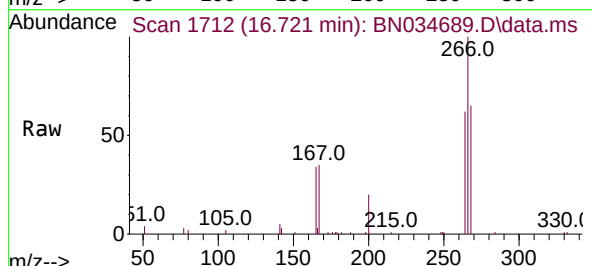
Tgt Ion:266 Resp: 15457

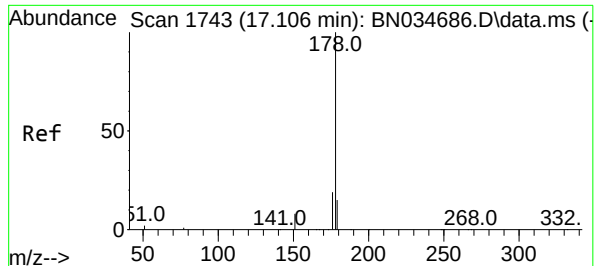
Ion Ratio Lower Upper

266 100

264 62.8 49.4 74.2

268 64.0 50.5 75.7





#25

Phenanthrene

Concen: 3.203 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

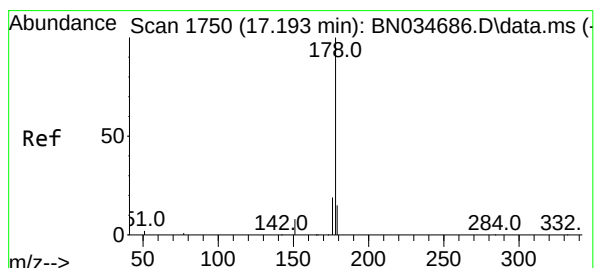
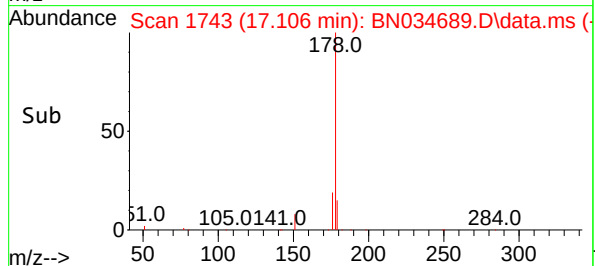
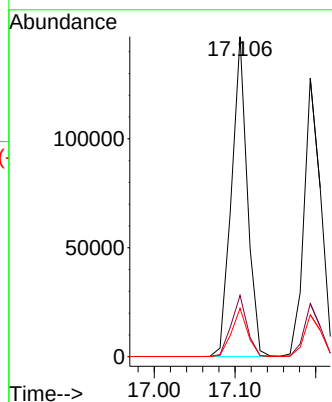
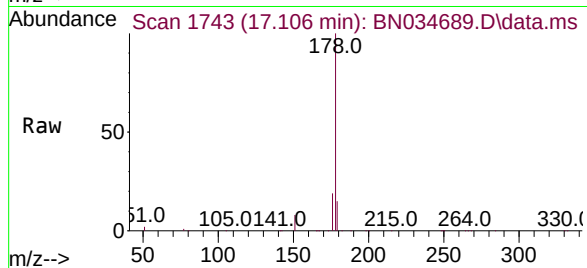
Tgt Ion:178 Resp: 200178

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.0 12.2 18.4



#26

Anthracene

Concen: 3.315 ng

RT: 17.193 min Scan# 1750

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

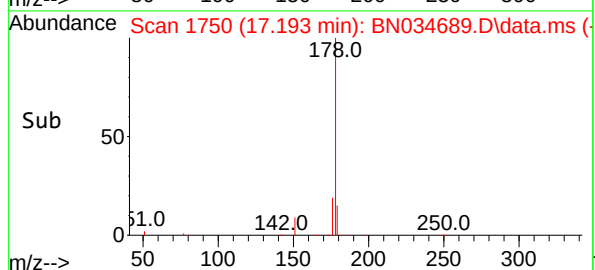
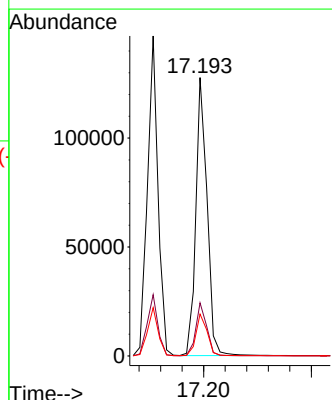
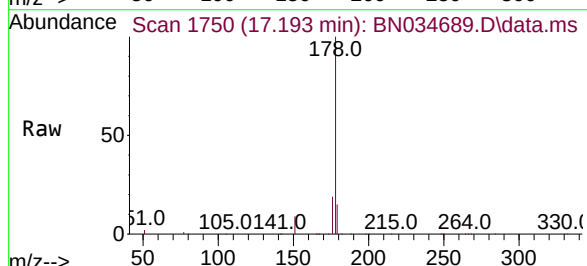
Tgt Ion:178 Resp: 185283

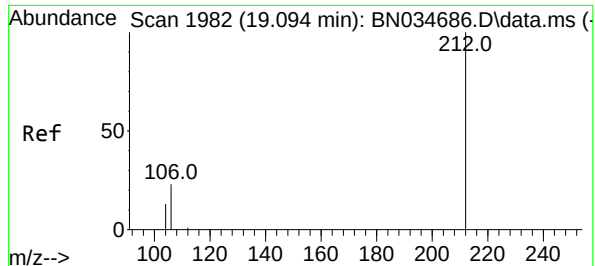
Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 2.983 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

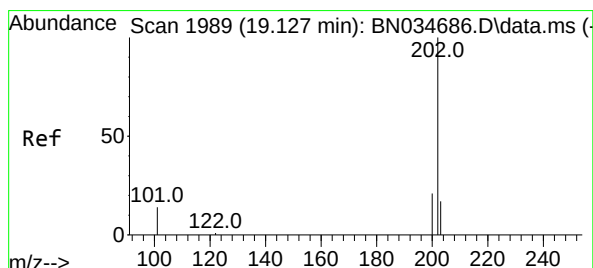
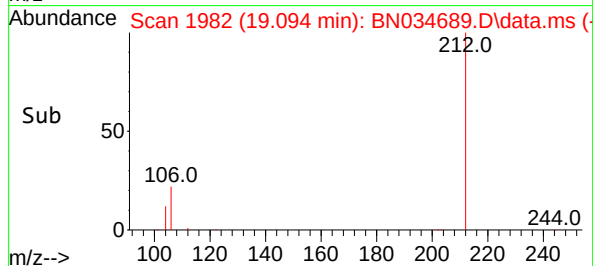
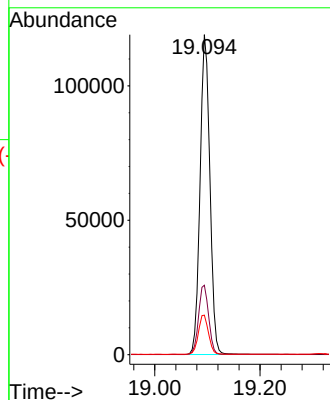
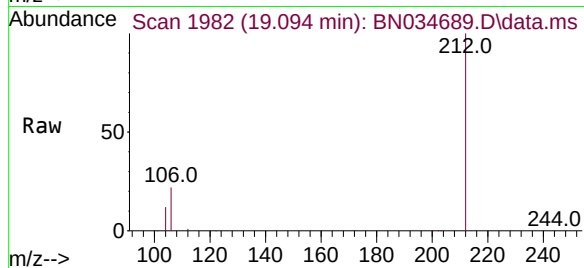
Tgt Ion:212 Resp: 153423

Ion Ratio Lower Upper

212 100

106 22.2 17.8 26.8

104 12.6 10.2 15.4



#28

Fluoranthene

Concen: 3.093 ng

RT: 19.127 min Scan# 1989

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

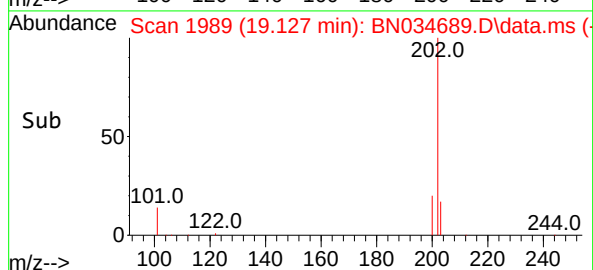
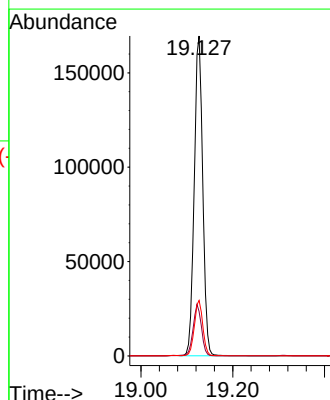
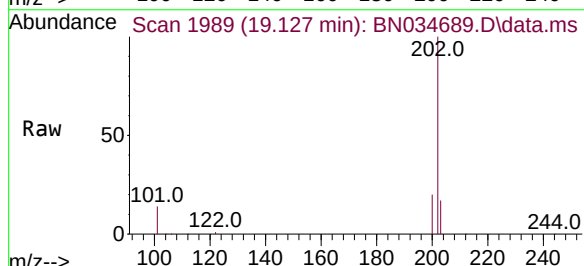
Tgt Ion:202 Resp: 216788

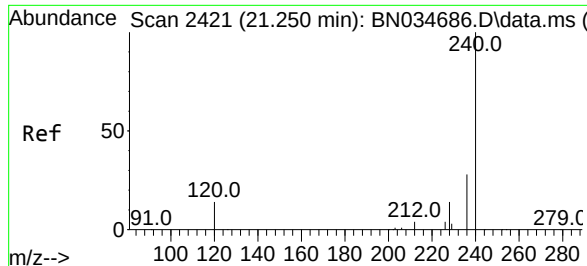
Ion Ratio Lower Upper

202 100

101 15.9 12.8 19.2

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

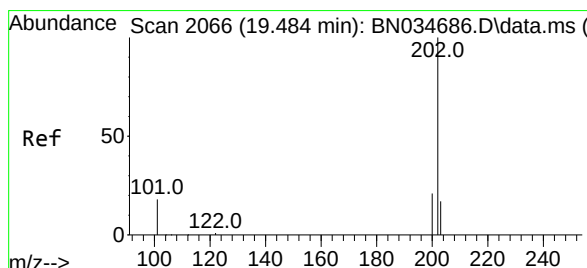
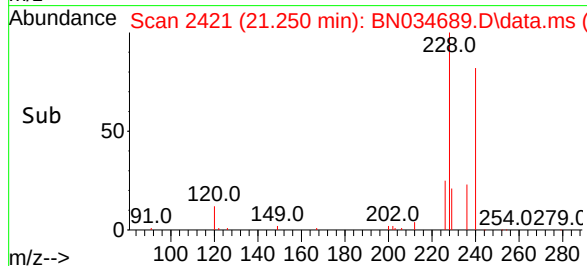
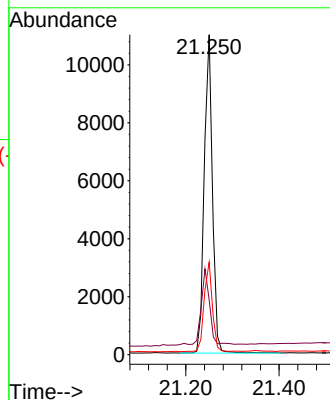
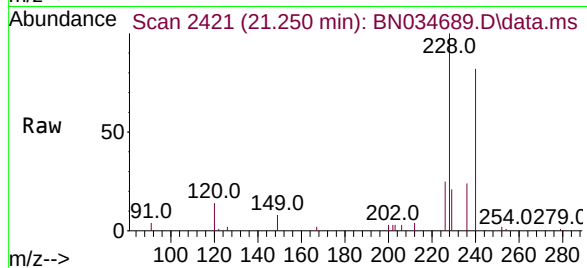
Tgt Ion:240 Resp: 13427

Ion Ratio Lower Upper

240 100

120 17.2 14.2 21.2

236 28.9 23.1 34.7



#30

Pyrene

Concen: 3.649 ng

RT: 19.484 min Scan# 2066

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

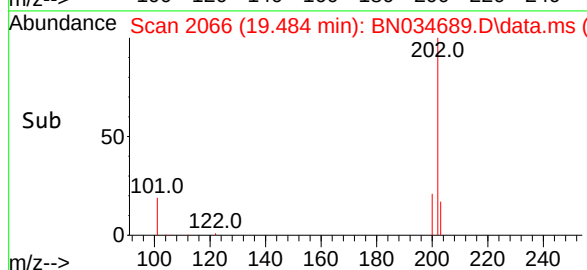
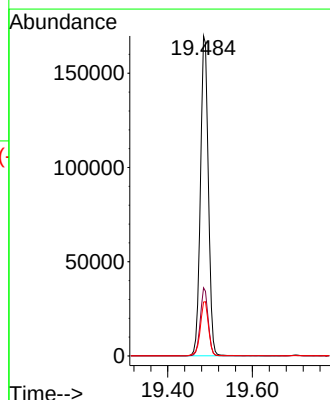
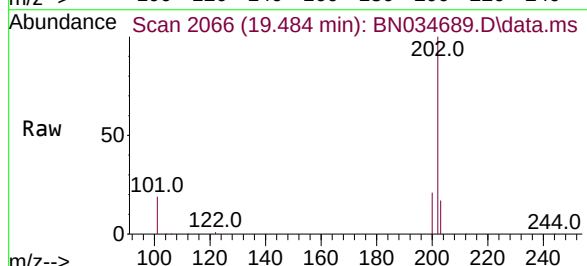
Tgt Ion:202 Resp: 219062

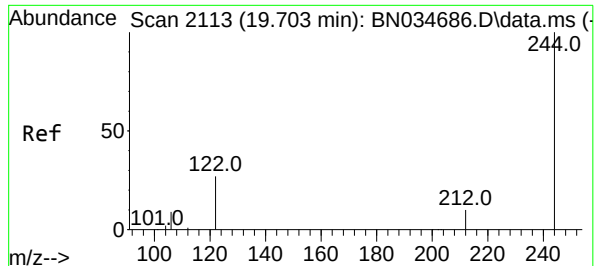
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.6 14.2 21.4

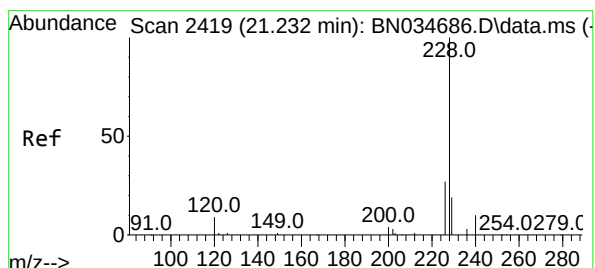
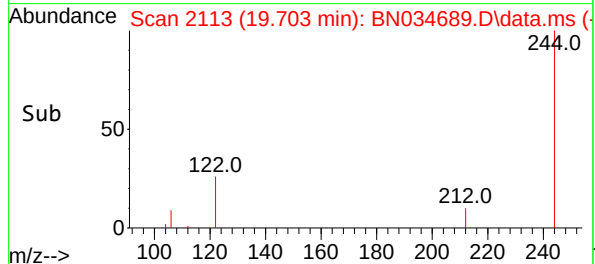
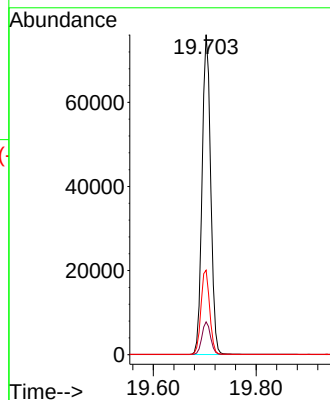
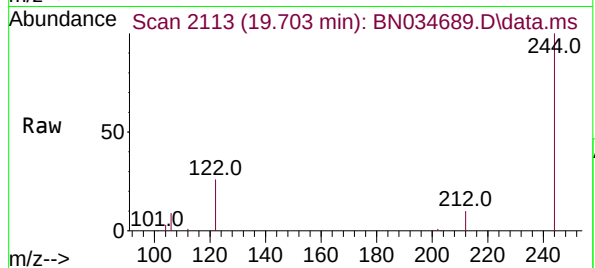




#31
Terphenyl-d14
Concen: 3.389 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

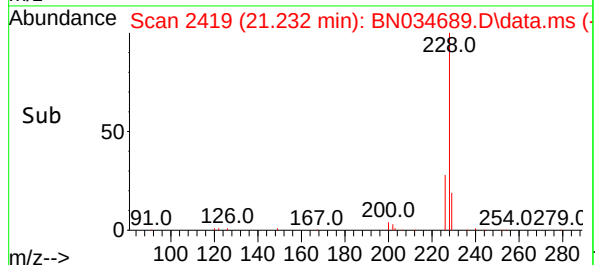
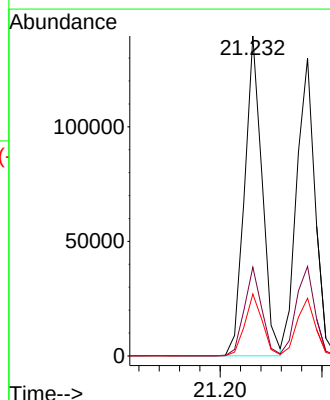
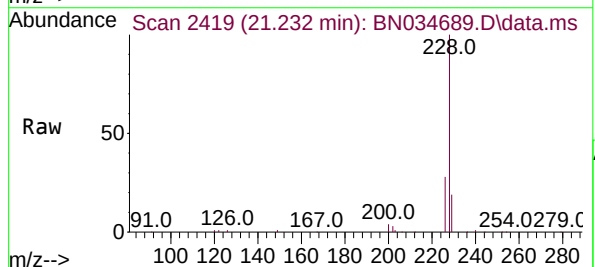
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

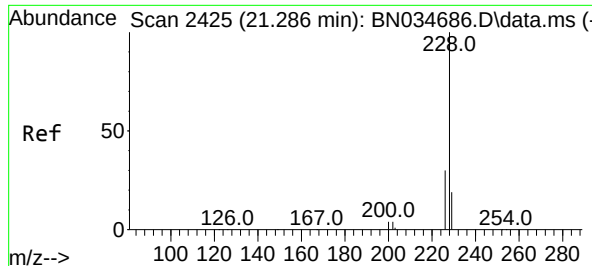
Tgt Ion:244 Resp: 88081
Ion Ratio Lower Upper
244 100
212 10.2 8.6 13.0
122 26.4 22.3 33.5



#32
Benzo(a)anthracene
Concen: 3.259 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

Tgt Ion:228 Resp: 166793
Ion Ratio Lower Upper
228 100
226 27.8 22.0 33.0
229 19.4 15.6 23.4





#33

Chrysene

Concen: 3.250 ng

RT: 21.286 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

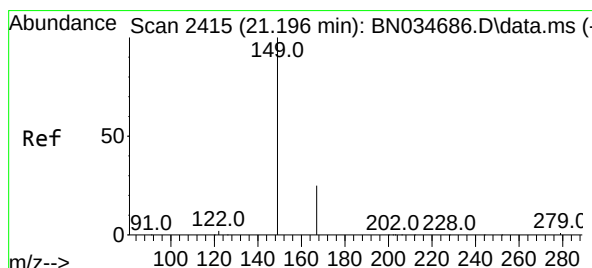
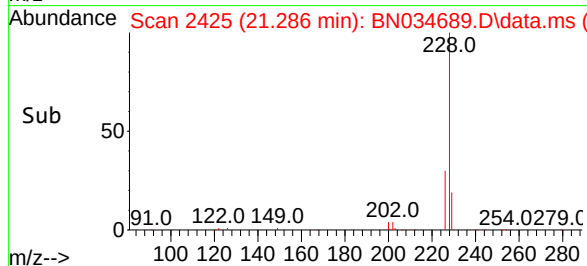
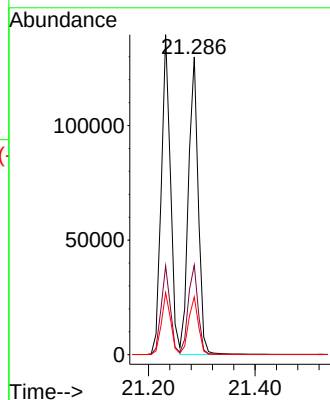
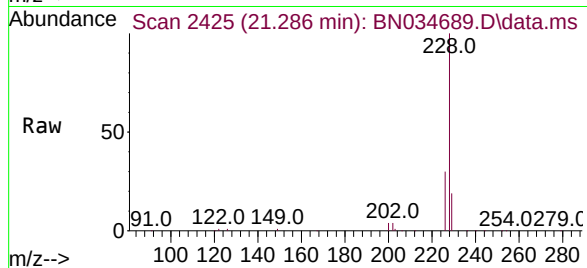
Tgt Ion:228 Resp: 164703

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.819 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

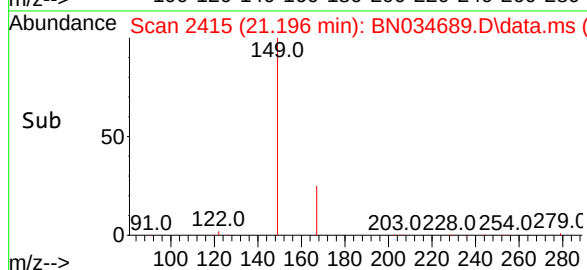
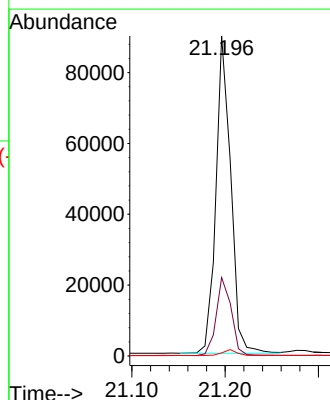
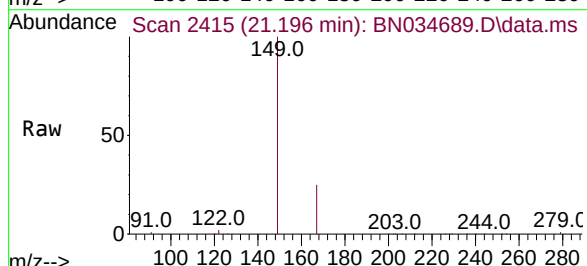
Tgt Ion:149 Resp: 98247

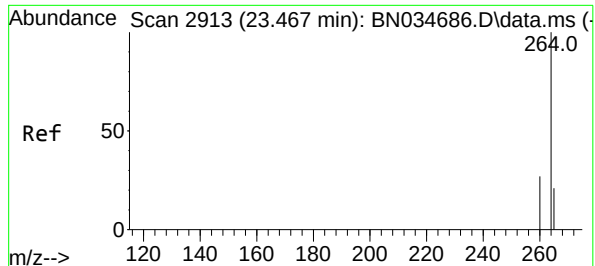
Ion Ratio Lower Upper

149 100

167 25.0 19.7 29.5

279 1.8 1.8 2.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.467 min Scan# 2913

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

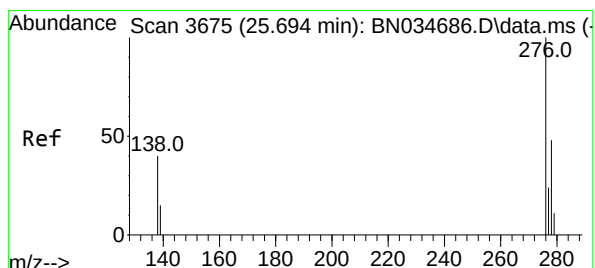
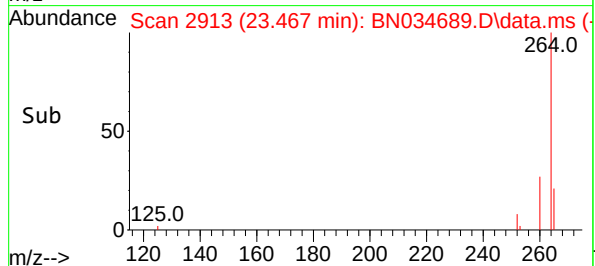
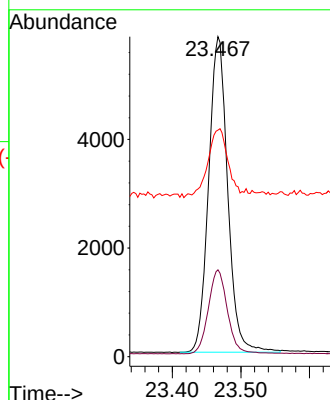
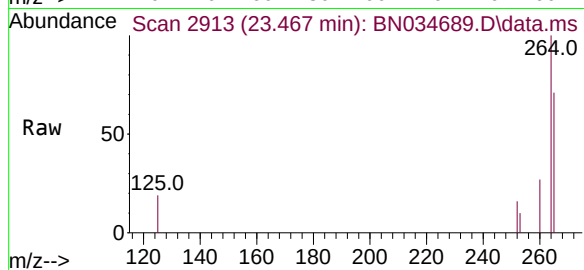
Tgt Ion:264 Resp: 11211

Ion Ratio Lower Upper

264 100

260 27.2 21.9 32.9

265 70.8 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.150 ng

RT: 25.697 min Scan# 3676

Delta R.T. 0.003 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

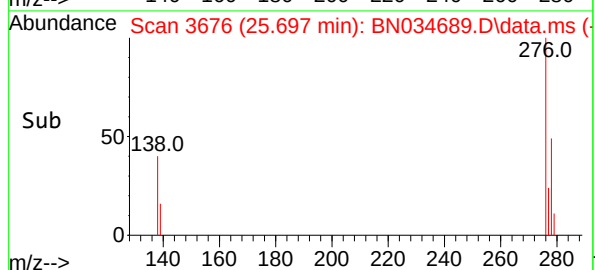
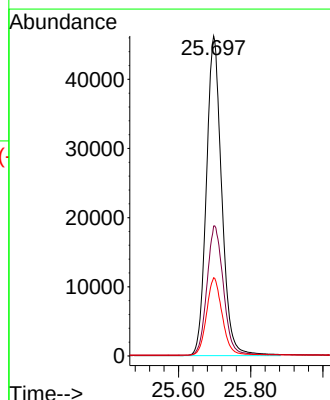
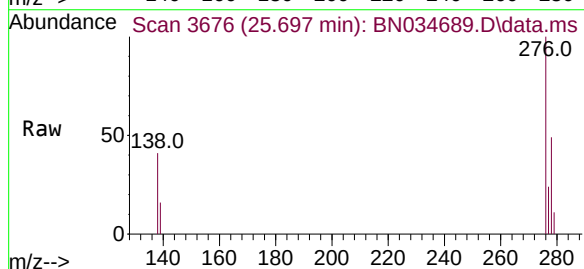
Tgt Ion:276 Resp: 136074

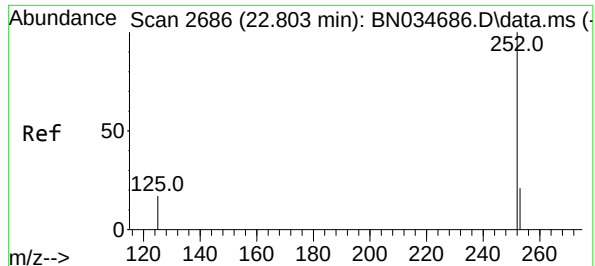
Ion Ratio Lower Upper

276 100

138 43.2 35.1 52.7

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.574 ng

RT: 22.806 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

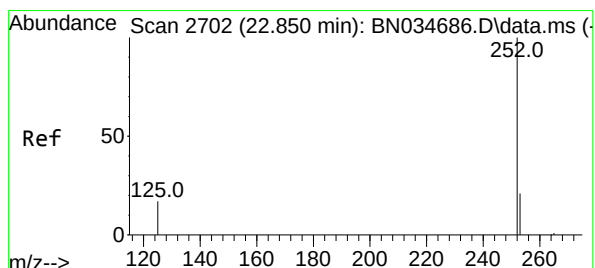
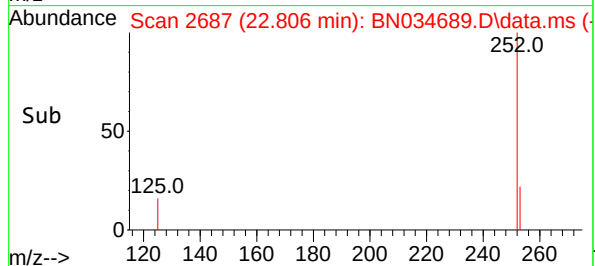
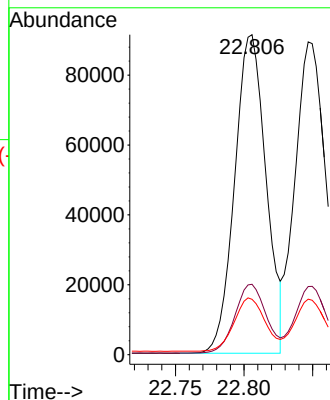
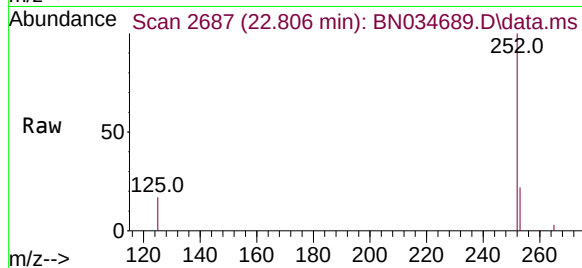
Tgt Ion:252 Resp: 144801

Ion Ratio Lower Upper

252 100

253 22.0 20.0 30.0

125 17.3 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 3.620 ng

RT: 22.847 min Scan# 2701

Delta R.T. -0.003 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

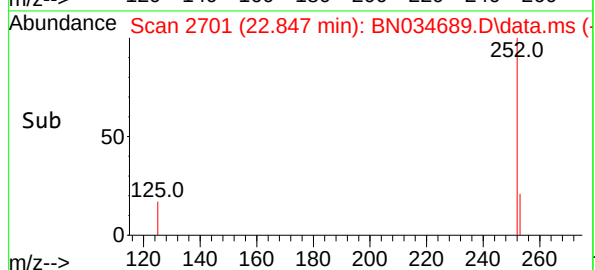
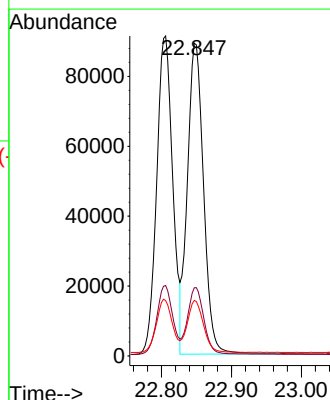
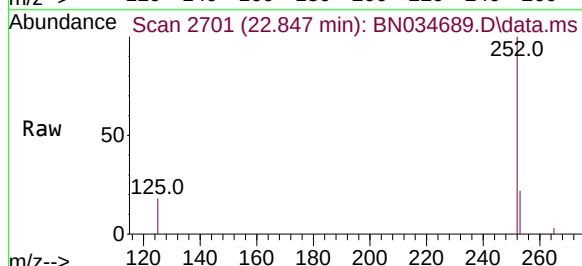
Tgt Ion:252 Resp: 143101

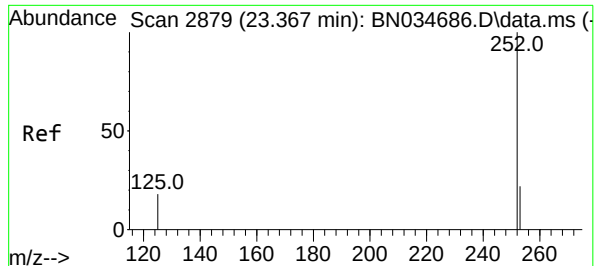
Ion Ratio Lower Upper

252 100

253 21.8 20.6 31.0

125 17.7 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 3.448 ng

RT: 23.370 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

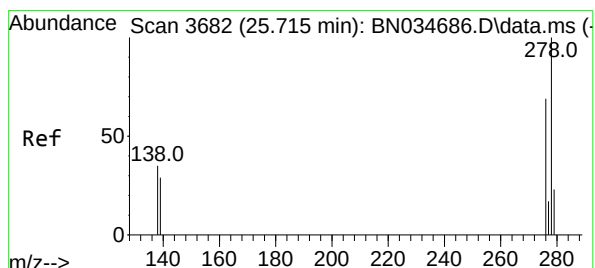
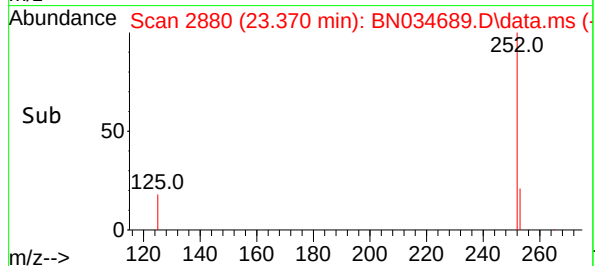
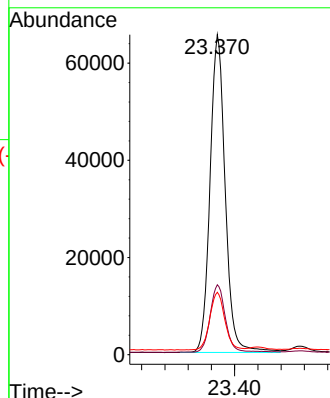
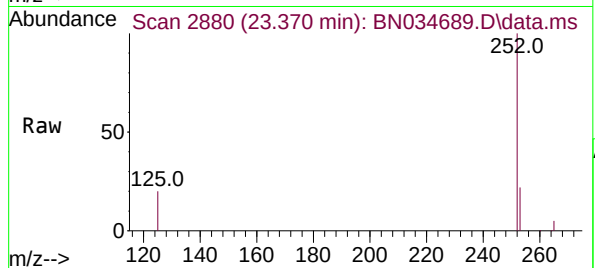
Tgt Ion:252 Resp: 118654

Ion Ratio Lower Upper

252 100

253 21.8 22.2 33.4#

125 19.5 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.175 ng

RT: 25.715 min Scan# 3682

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

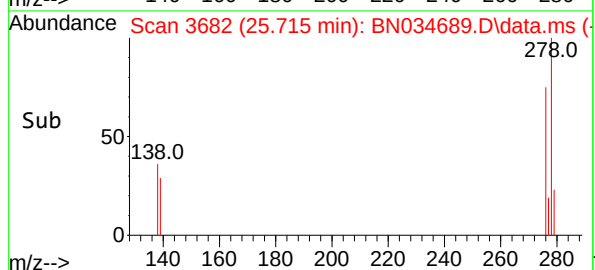
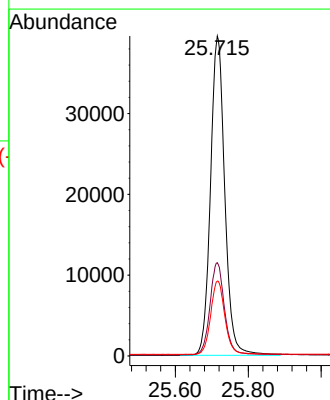
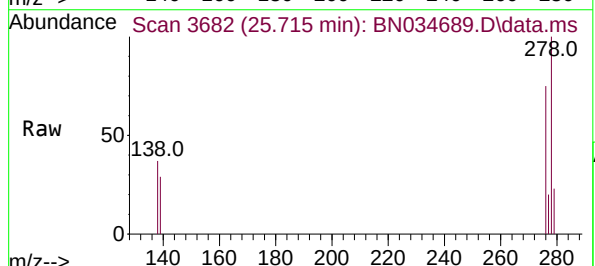
Tgt Ion:278 Resp: 107743

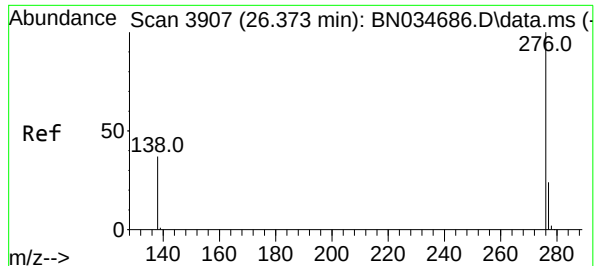
Ion Ratio Lower Upper

278 100

139 29.1 25.4 38.2

279 23.4 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 3.089 ng

RT: 26.373 min Scan# 3907

Delta R.T. 0.000 min

Lab File: BN034689.D

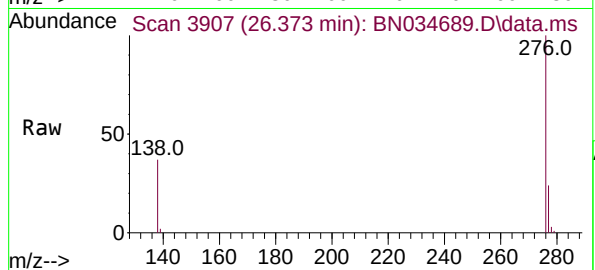
Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



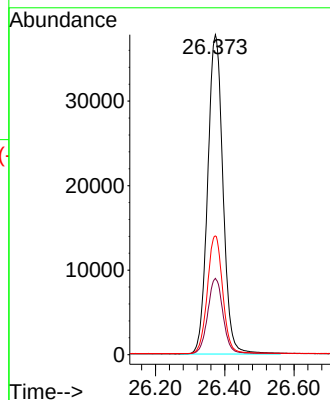
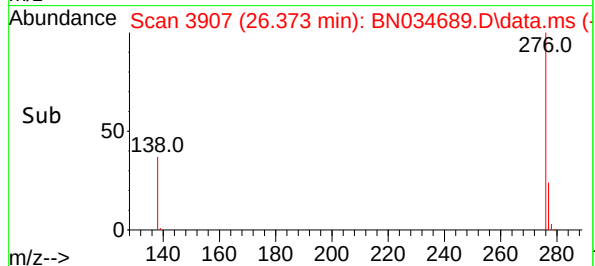
Tgt Ion:276 Resp: 115668

Ion Ratio Lower Upper

276 100

277 23.9 21.3 31.9

138 37.1 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034690.D
 Acq On : 24 Oct 2024 12:48
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Oct 24 13:13:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

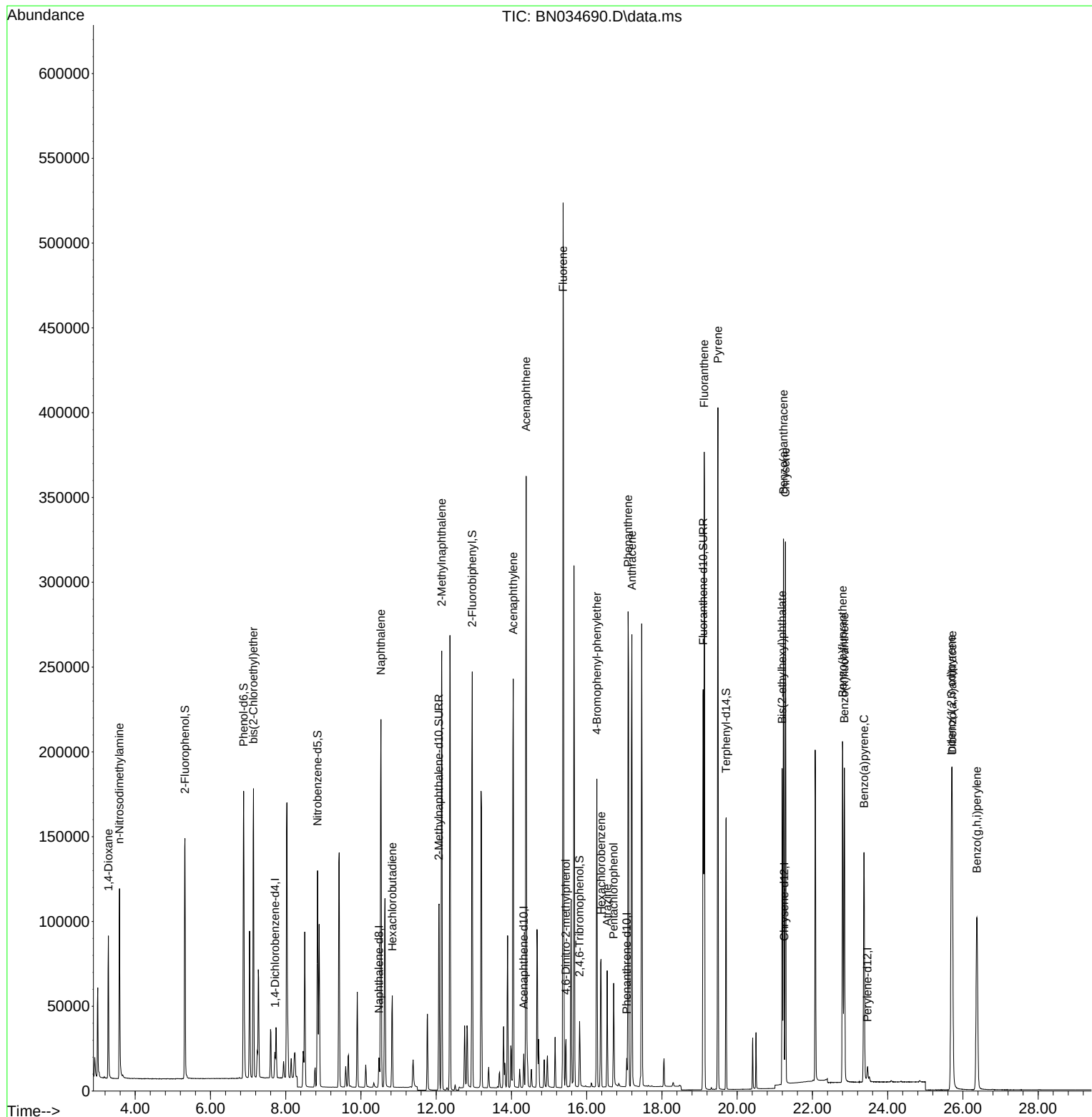
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	7073	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	20368	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	10267	0.400	ng	0.00
19) Phenanthrene-d10	17.064	188	20306	0.400	ng	# 0.00
29) Chrysene-d12	21.248	240	12752	0.400	ng	0.00
35) Perylene-d12	23.464	264	10972	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	104062	4.808	ng	0.00
5) Phenol-d6	6.882	99	141189	5.100	ng	0.00
8) Nitrobenzene-d5	8.846	82	88506	5.246	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	144128	5.026	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	18762	4.310	ng	0.00
15) 2-Fluorobiphenyl	12.957	172	205465	5.077	ng	0.00
27) Fluoranthene-d10	19.097	212	231016	4.647	ng	0.00
31) Terphenyl-d14	19.705	244	130770	5.298	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	42348	4.917	ng	99
3) n-Nitrosodimethylamine	3.581	42	66202	6.357	ng	# 96
6) bis(2-Chloroethyl)ether	7.142	93	107896	5.090	ng	99
9) Naphthalene	10.532	128	280398	4.992	ng	99
10) Hexachlorobutadiene	10.831	225	40523	4.502	ng	# 99
12) 2-Methylnaphthalene	12.147	142	179479	5.055	ng	99
16) Acenaphthylene	14.047	152	264846	5.368	ng	99
17) Acenaphthene	14.390	154	175767	5.223	ng	97
18) Fluorene	15.373	166	213452	5.090	ng	99
20) 4,6-Dinitro-2-methylph...	15.448	198	17103	6.160	ng	# 61
21) 4-Bromophenyl-phenylether	16.269	248	55507	4.998	ng	# 81
22) Hexachlorobenzene	16.381	284	58013	4.706	ng	99
23) Atrazine	16.542	200	45354	4.667	ng	# 92
24) Pentachlorophenol	16.716	266	25315	5.233	ng	99
25) Phenanthrene	17.101	178	308331	5.103	ng	99
26) Anthracene	17.200	178	287167	5.315	ng	100
28) Fluoranthene	19.124	202	322212	4.756	ng	100
30) Pyrene	19.487	202	326483	5.726	ng	100
32) Benzo(a)anthracene	21.230	228	250242	5.148	ng	100
33) Chrysene	21.283	228	244106	5.072	ng	100
34) Bis(2-ethylhexyl)phtha...	21.194	149	164213	4.961	ng	99
36) Indeno(1,2,3-cd)pyrene	25.695	276	222798	5.271	ng	99
37) Benzo(b)fluoranthene	22.801	252	221458	5.585	ng	# 88
38) Benzo(k)fluoranthene	22.847	252	221207	5.717	ng	# 86
39) Benzo(a)pyrene	23.371	252	185096	5.496	ng	# 82
40) Dibenzo(a,h)anthracene	25.716	278	176660	5.319	ng	93
41) Benzo(g,h,i)perylene	26.370	276	189041	5.158	ng	95

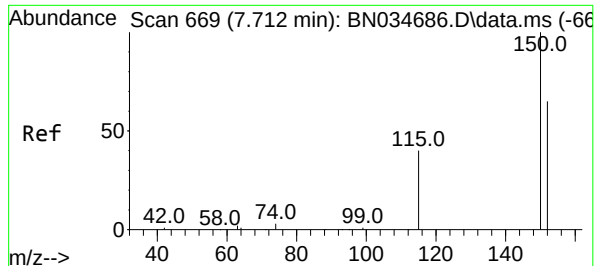
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034690.D
Acq On : 24 Oct 2024 12:48
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Oct 24 13:13:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration

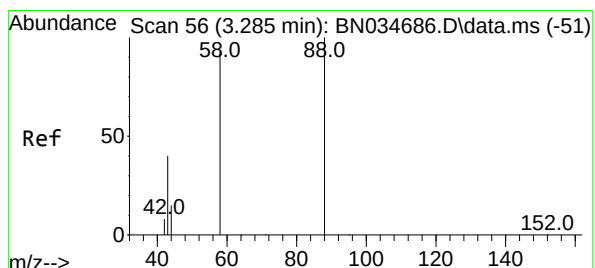
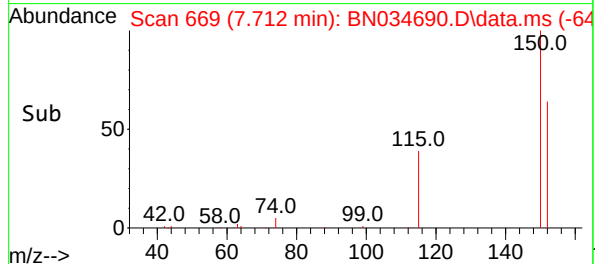
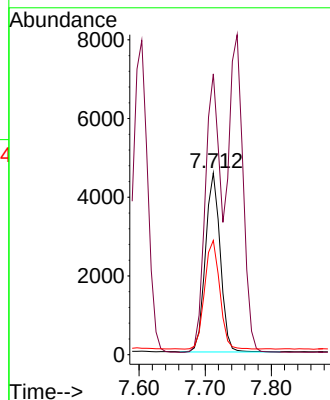
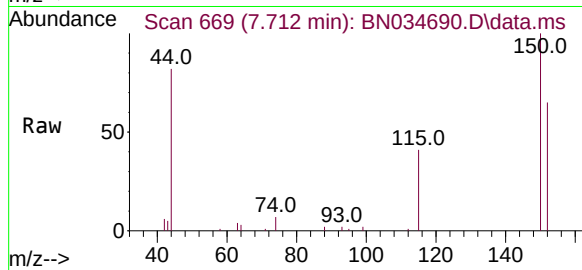




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

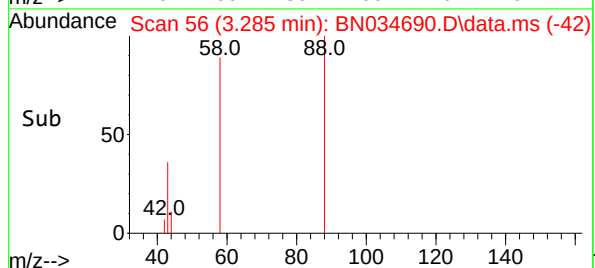
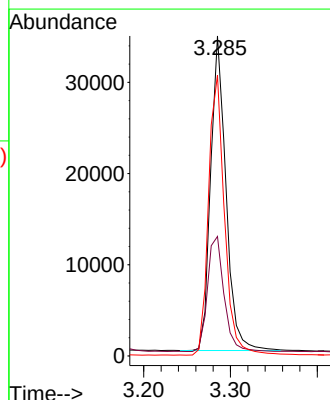
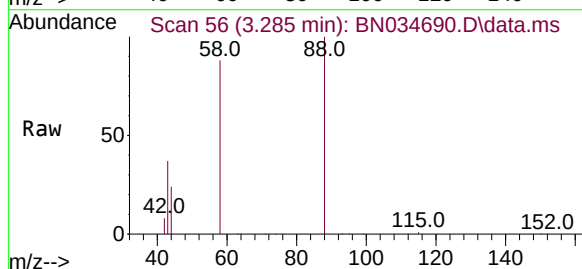
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

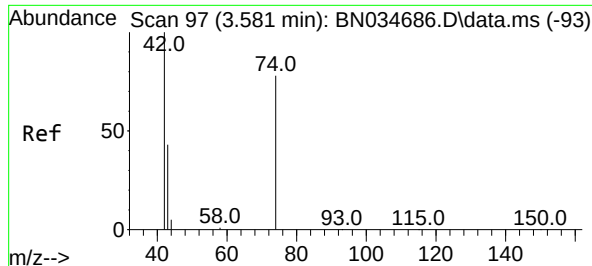
Tgt Ion:152 Resp: 7073
Ion Ratio Lower Upper
152 100
150 154.5 122.7 184.1
115 62.9 51.0 76.6



#2
1,4-Dioxane
Concen: 4.917 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion: 88 Resp: 42348
Ion Ratio Lower Upper
88 100
43 39.3 32.1 48.1
58 92.9 73.7 110.5

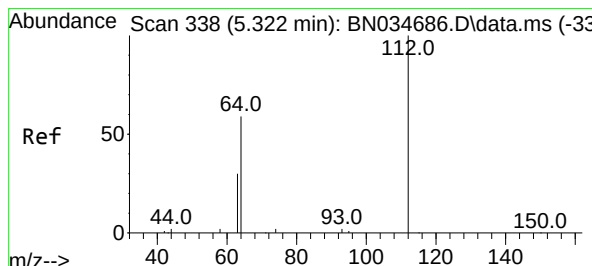
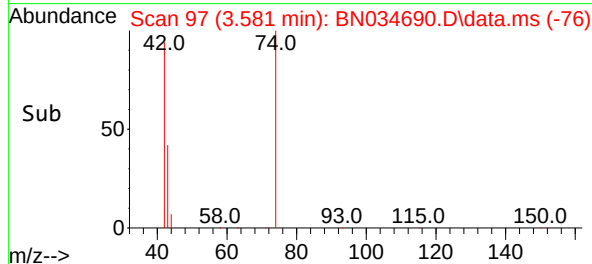
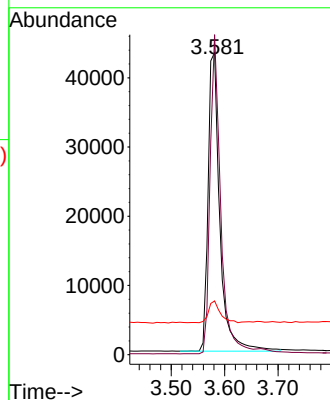
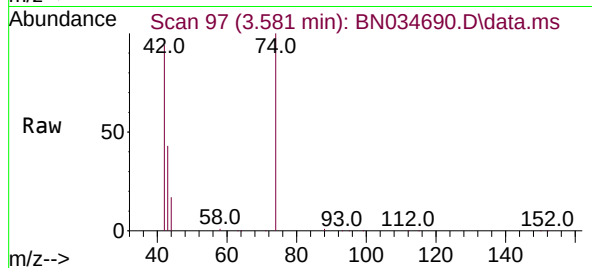




#3
n-Nitrosodimethylamine
Concen: 6.357 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

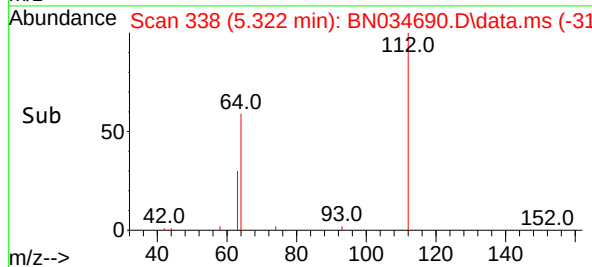
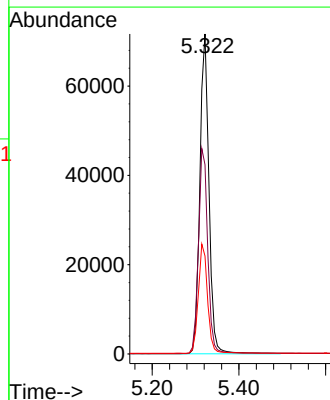
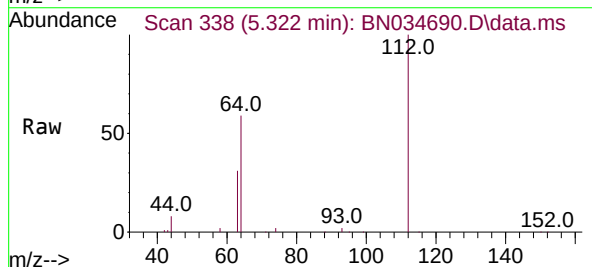
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

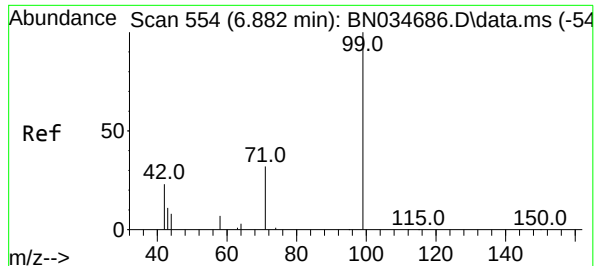
Tgt Ion: 42 Resp: 66202
Ion Ratio Lower Upper
42 100
74 95.6 77.2 115.8
44 7.1 13.4 20.2#



#4
2-Fluorophenol
Concen: 4.808 ng
RT: 5.322 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion: 112 Resp: 104062
Ion Ratio Lower Upper
112 100
64 66.0 53.0 79.6
63 34.7 27.6 41.4

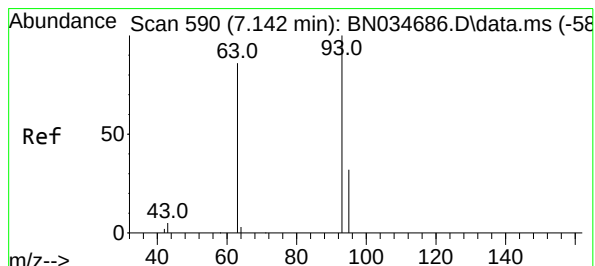
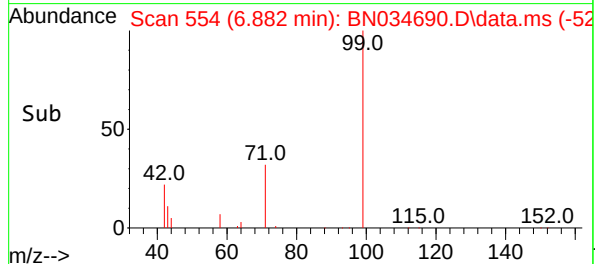
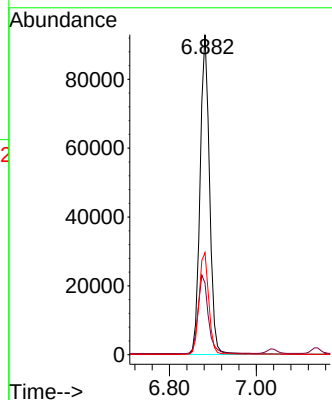
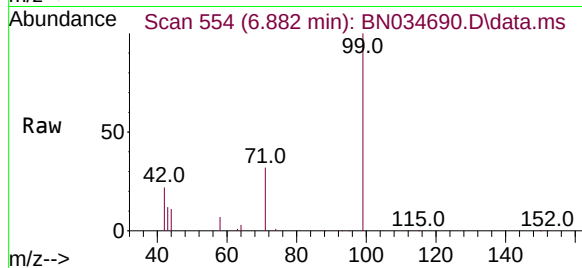




#5
Phenol-d6
Concen: 5.100 ng
RT: 6.882 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

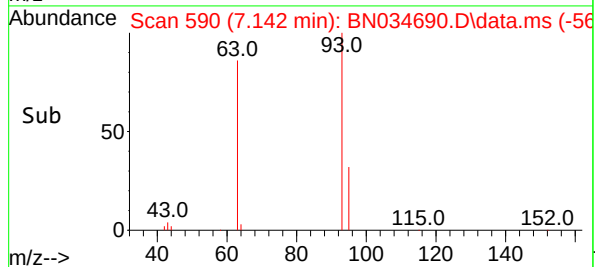
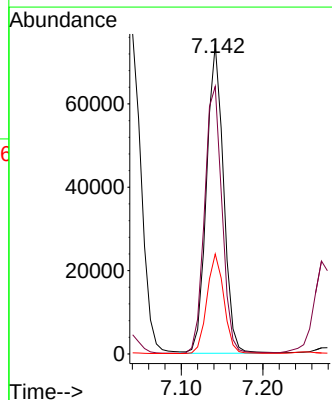
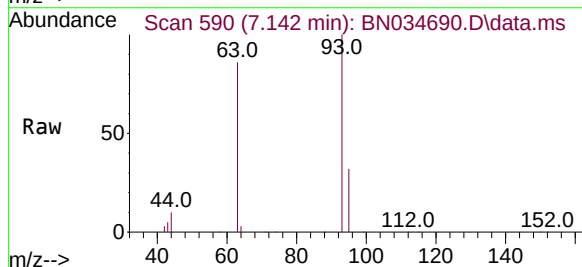
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

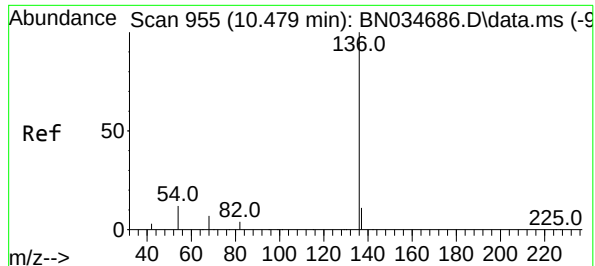
Tgt Ion: 99 Resp: 141189
Ion Ratio Lower Upper
99 100
42 26.5 21.8 32.8
71 32.9 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 5.090 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion: 93 Resp: 107896
Ion Ratio Lower Upper
93 100
63 88.8 71.5 107.3
95 32.1 25.8 38.6

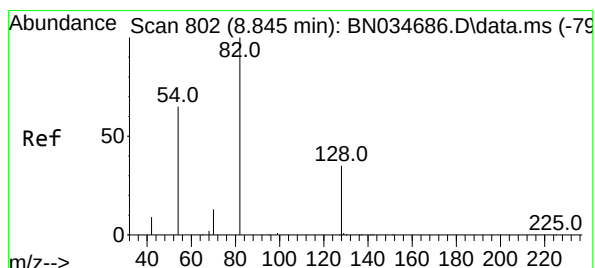
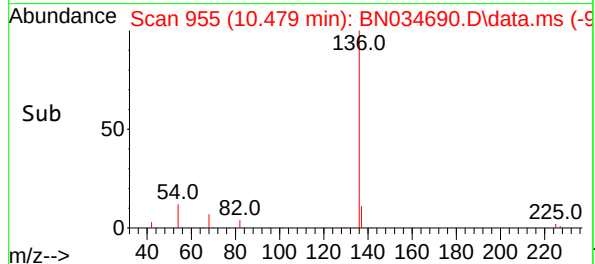
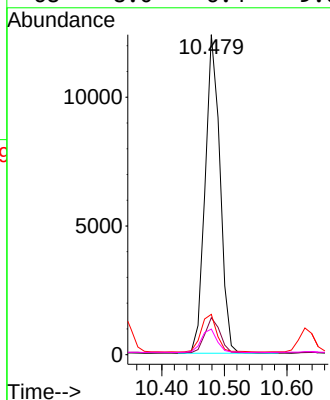
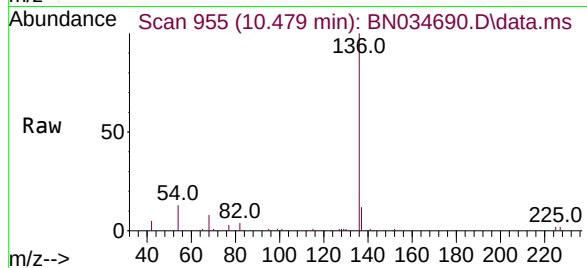




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

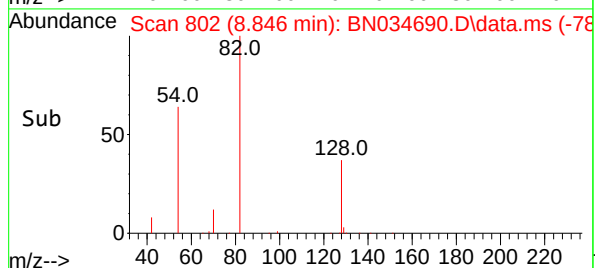
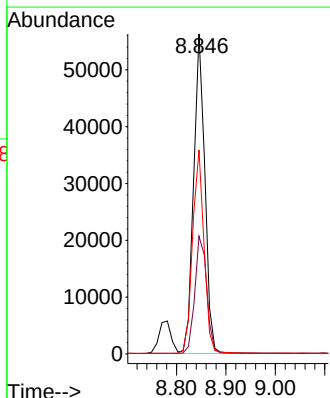
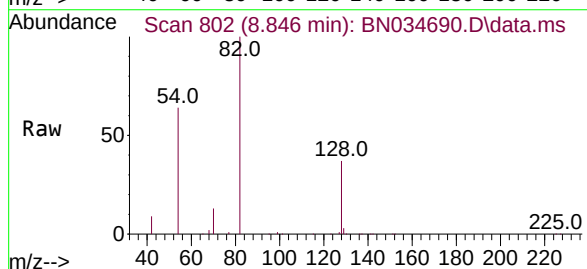
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

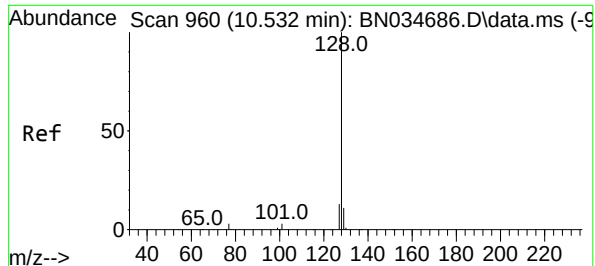
Tgt Ion:	136	Resp:	20368
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	12.6	9.8	14.8
68	8.0	6.4	9.6



#8
Nitrobenzene-d5
Concen: 5.246 ng
RT: 8.846 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:	82	Resp:	88506
Ion	Ratio	Lower	Upper
82	100		
128	36.8	29.7	44.5
54	63.7	53.0	79.6

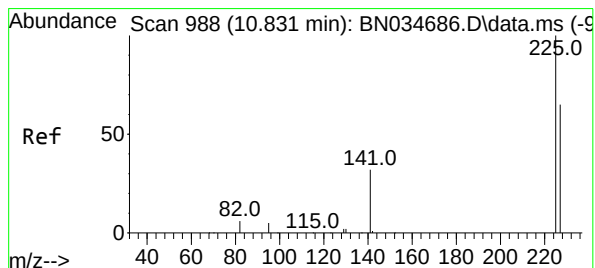
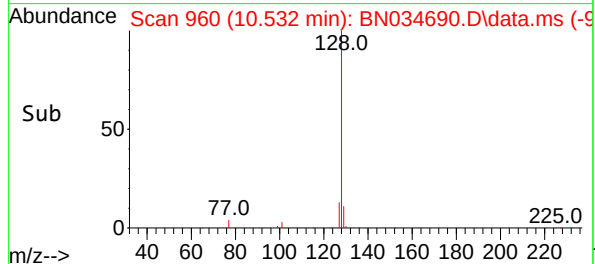
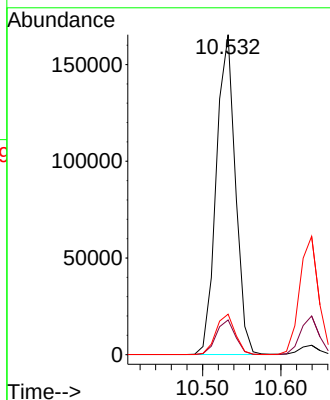
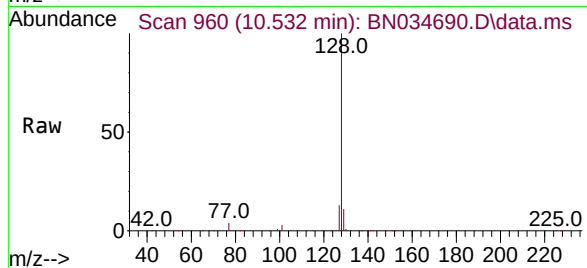




#9
Naphthalene
Concen: 4.992 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

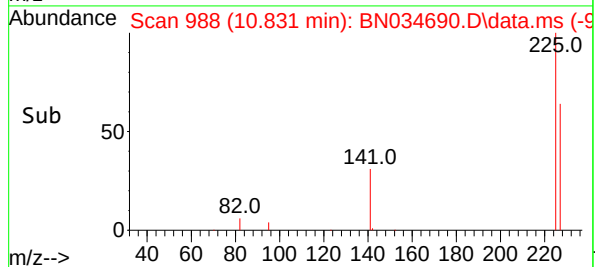
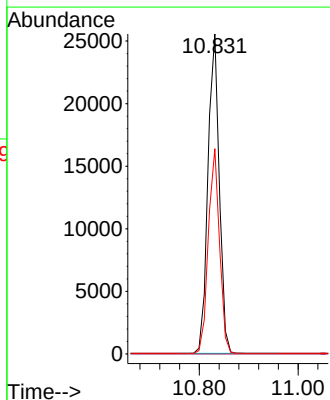
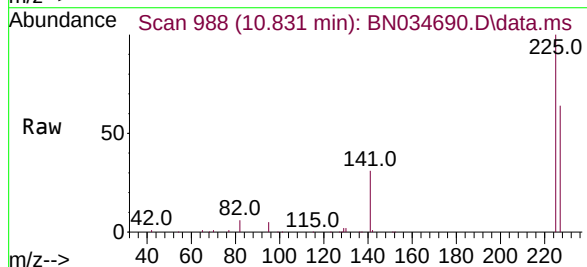
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

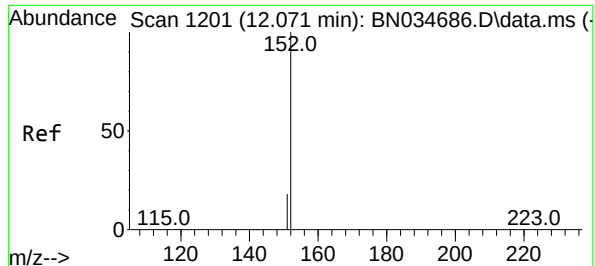
Tgt Ion:128 Resp: 280398
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.7 10.5 15.7



#10
Hexachlorobutadiene
Concen: 4.502 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:225 Resp: 40523
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.4 77.0

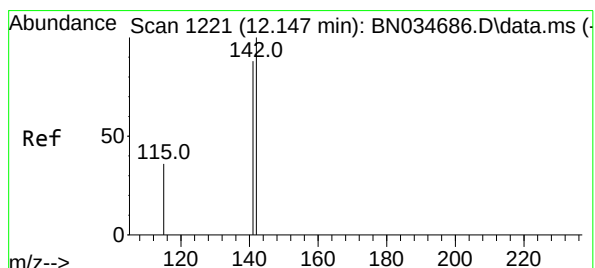
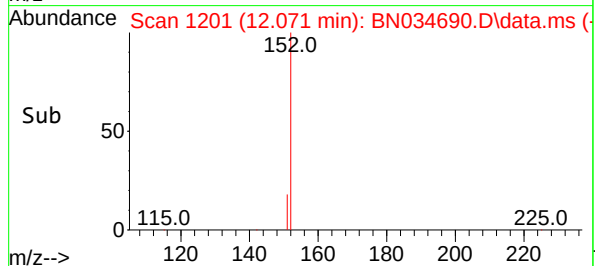
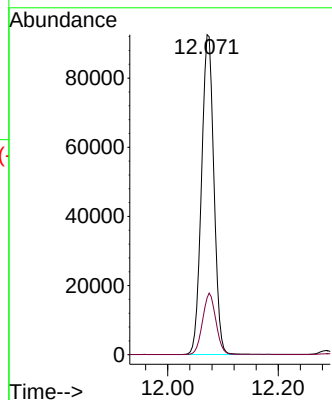
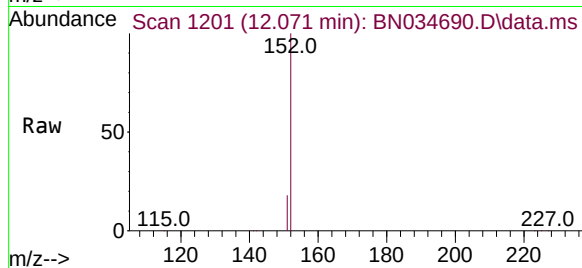




#11
2-Methylnaphthalene-d10
Concen: 5.026 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

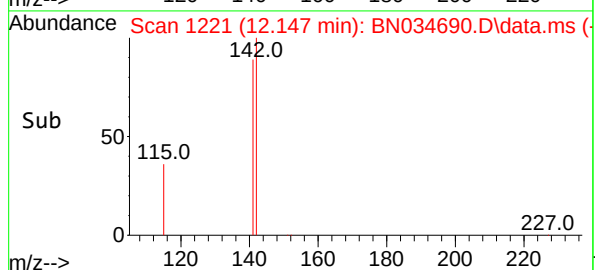
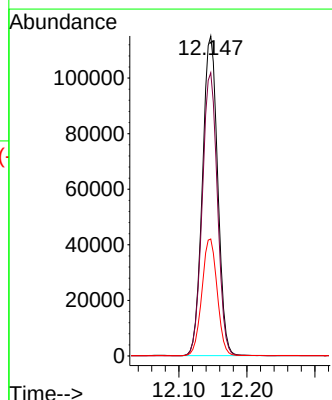
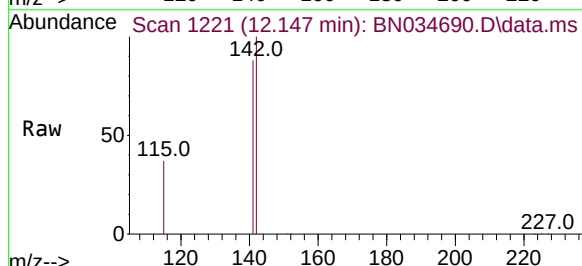
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

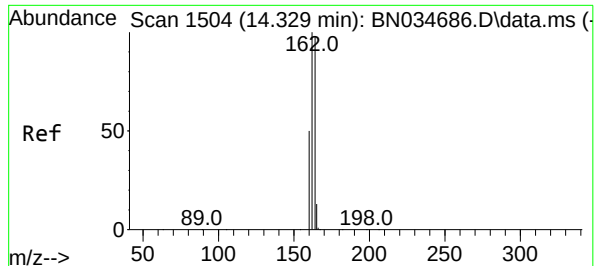
Tgt Ion:152 Resp: 144128
Ion Ratio Lower Upper
152 100
151 20.6 16.7 25.1



#12
2-Methylnaphthalene
Concen: 5.055 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:142 Resp: 179479
Ion Ratio Lower Upper
142 100
141 88.5 70.4 105.6
115 36.6 29.8 44.6

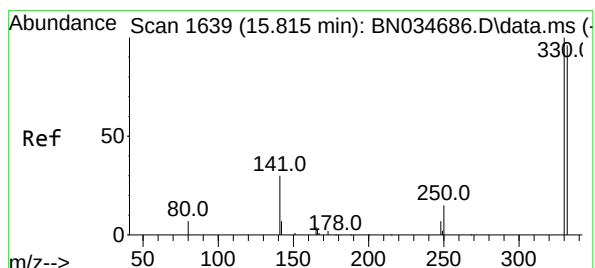
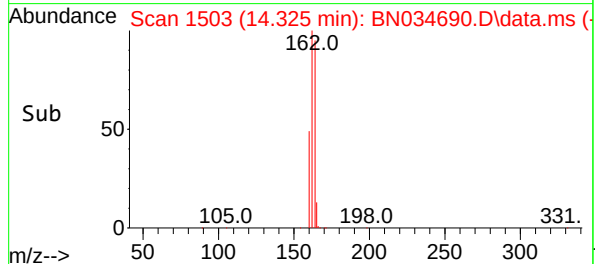
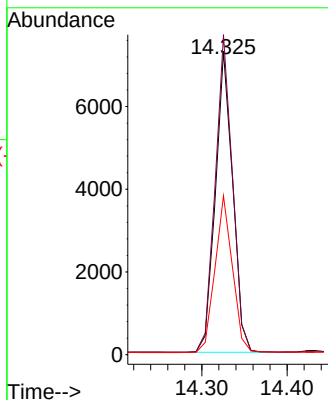
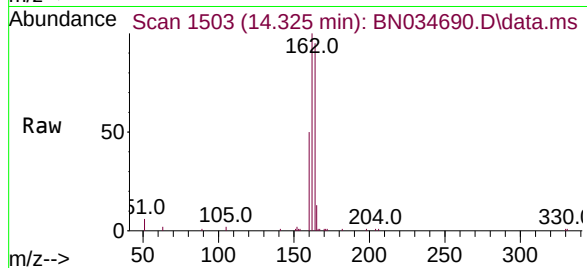




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

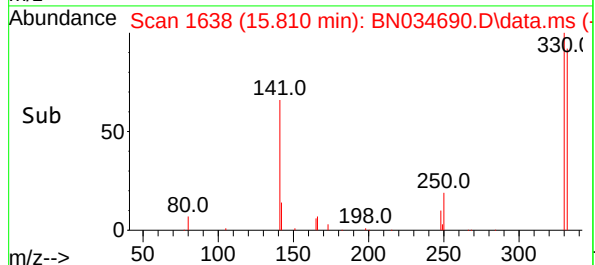
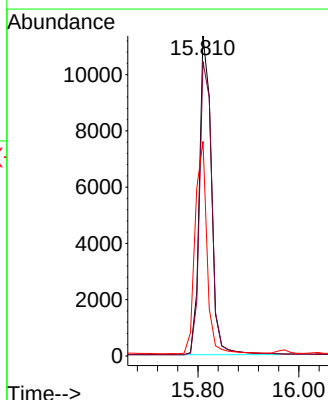
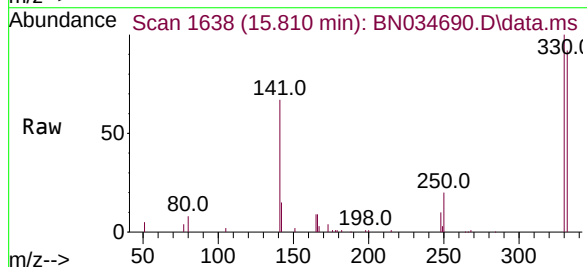
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

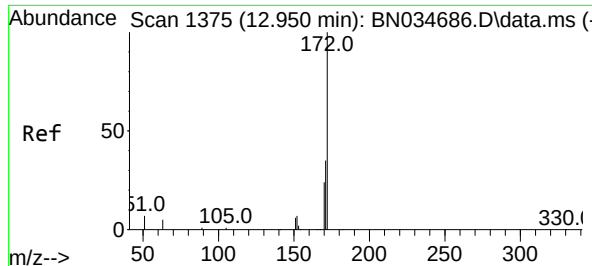
Tgt Ion:164 Resp: 10267
Ion Ratio Lower Upper
164 100
162 105.4 81.4 122.0
160 52.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 4.310 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:330 Resp: 18762
Ion Ratio Lower Upper
330 100
332 95.4 76.6 115.0
141 65.7 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 5.077 ng

RT: 12.957 min Scan# 1375

Delta R.T. 0.007 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

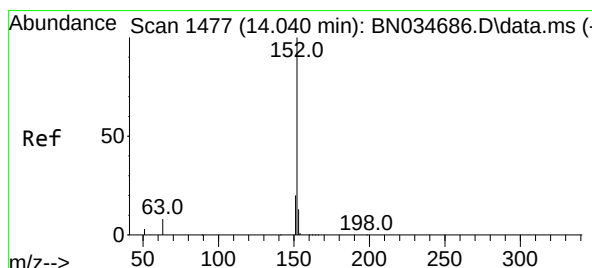
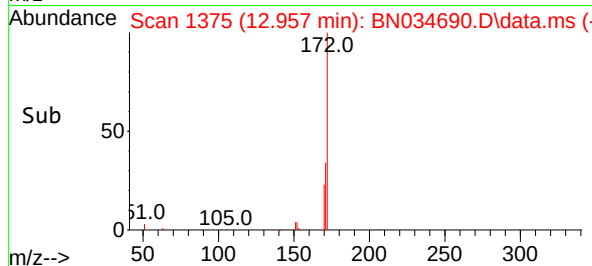
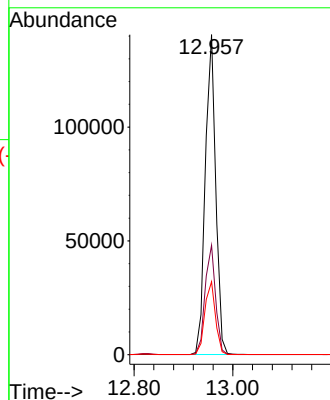
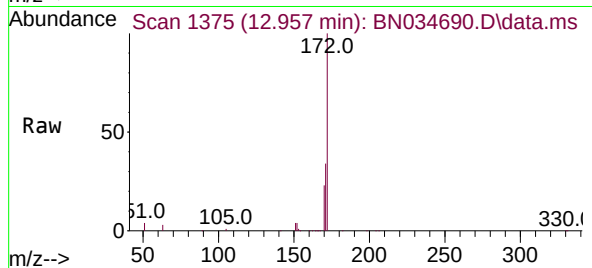
Tgt Ion:172 Resp: 205465

Ion Ratio Lower Upper

172 100

171 34.2 28.3 42.5

170 22.8 19.8 29.6



#16

Acenaphthylene

Concen: 5.368 ng

RT: 14.047 min Scan# 1477

Delta R.T. 0.007 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

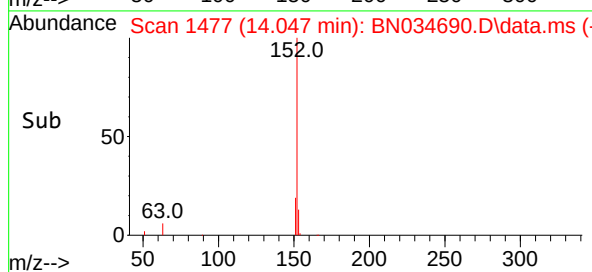
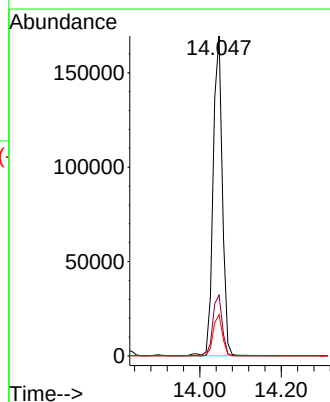
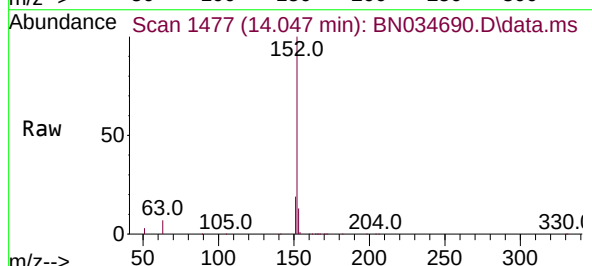
Tgt Ion:152 Resp: 264846

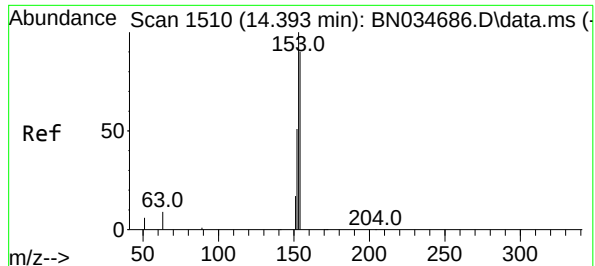
Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

153 12.9 10.6 15.8

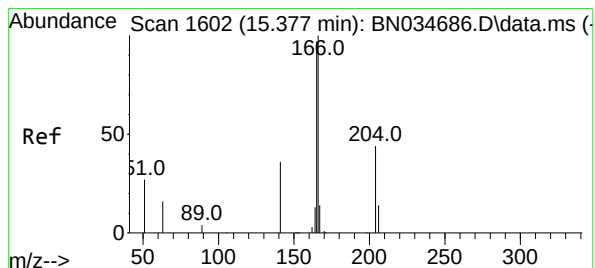
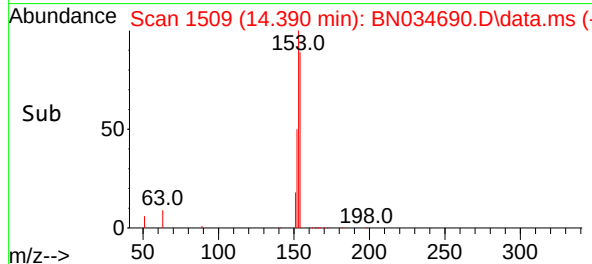
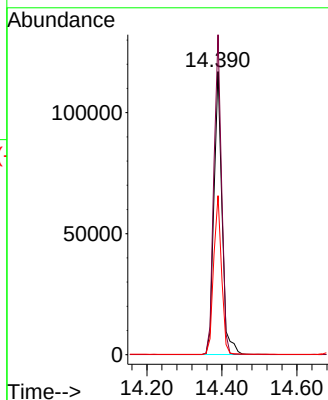
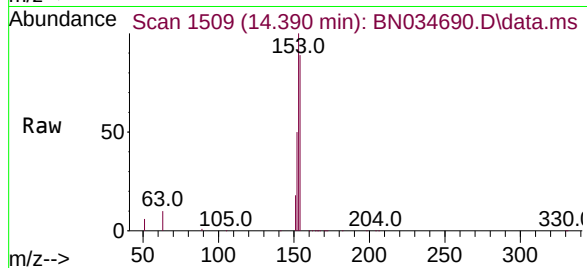




#17
Acenaphthene
Concen: 5.223 ng
RT: 14.390 min Scan# 1510
Delta R.T. -0.004 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

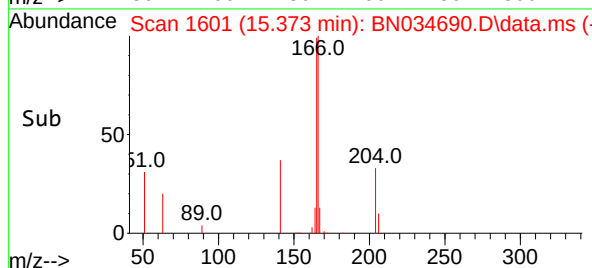
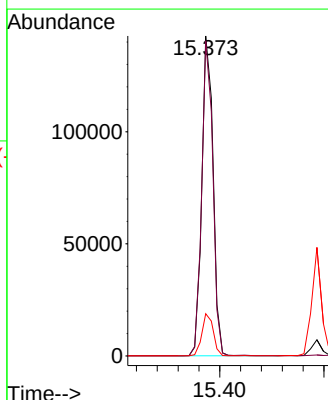
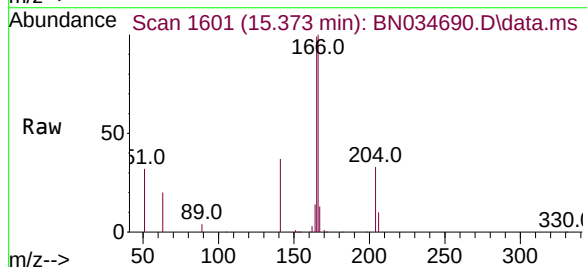
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

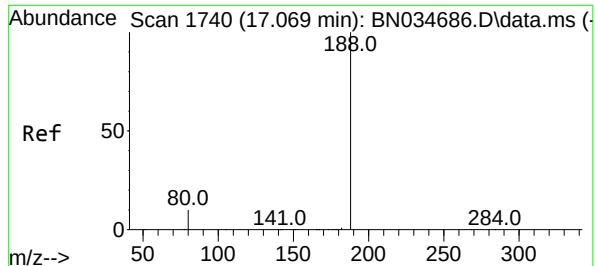
Tgt Ion:154 Resp: 175767
Ion Ratio Lower Upper
154 100
153 108.2 88.2 132.2
152 54.7 46.9 70.3



#18
Fluorene
Concen: 5.090 ng
RT: 15.373 min Scan# 1601
Delta R.T. -0.004 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:166 Resp: 213452
Ion Ratio Lower Upper
166 100
165 97.4 78.8 118.2
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.064 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

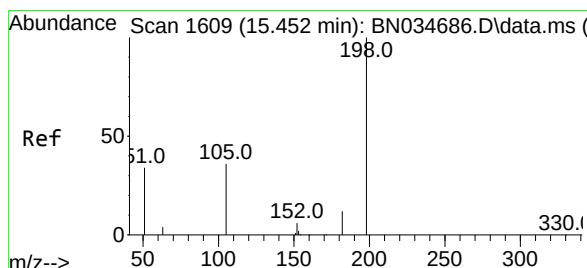
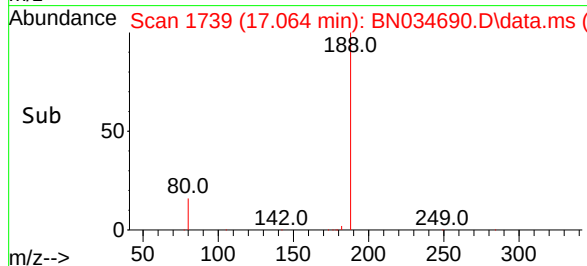
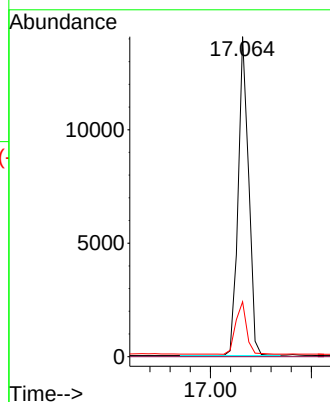
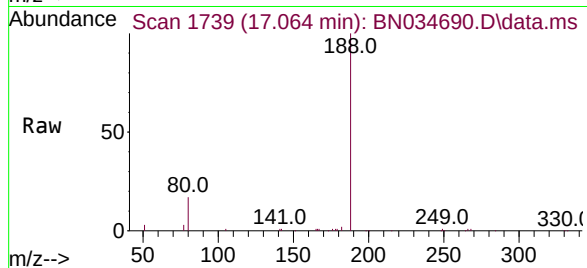
Tgt Ion:188 Resp: 20306

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.1 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.160 ng

RT: 15.448 min Scan# 1608

Delta R.T. -0.004 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

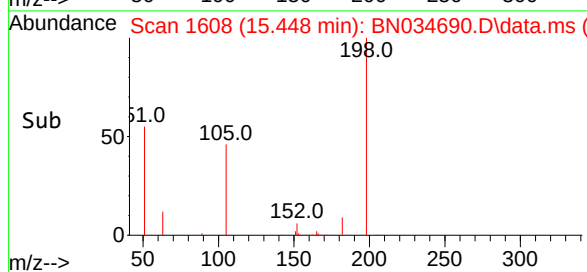
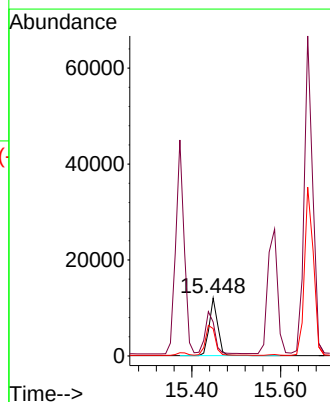
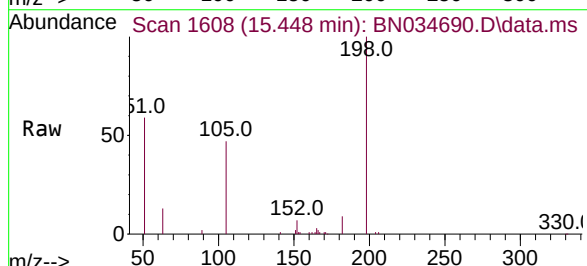
Tgt Ion:198 Resp: 17103

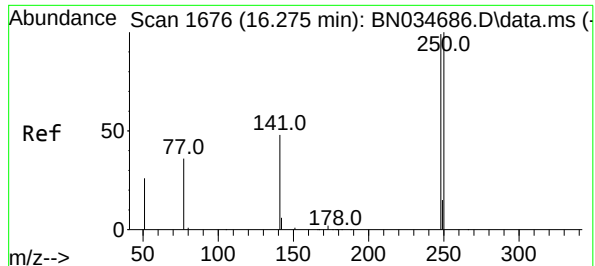
Ion Ratio Lower Upper

198 100

51 58.7 91.8 137.8#

105 47.2 44.3 66.5

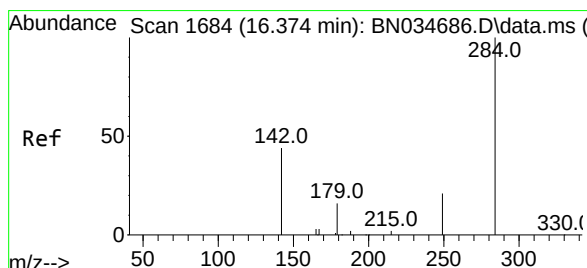
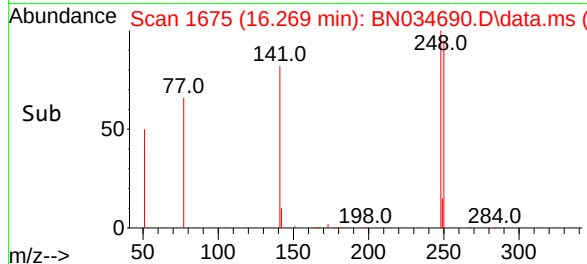
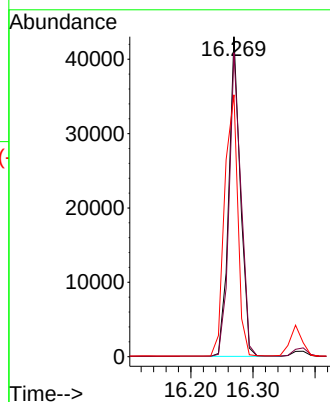
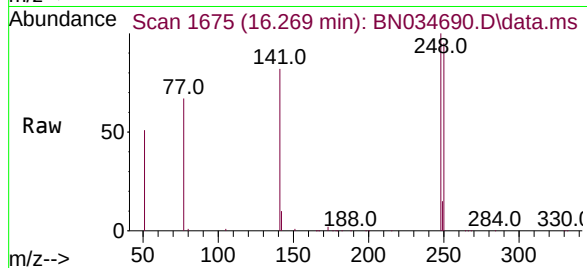




#21
4-Bromophenyl-phenylether
Concen: 4.998 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

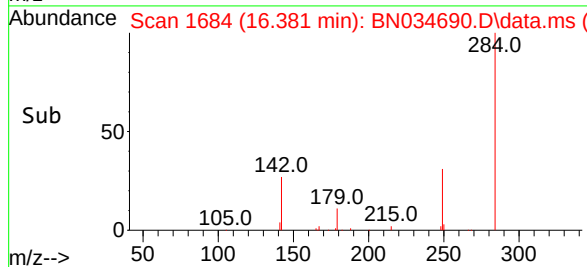
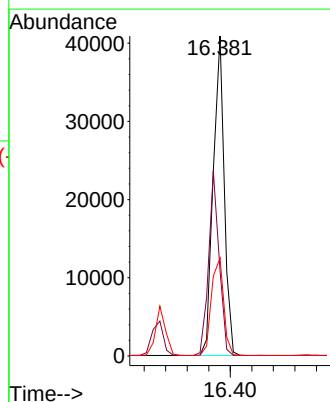
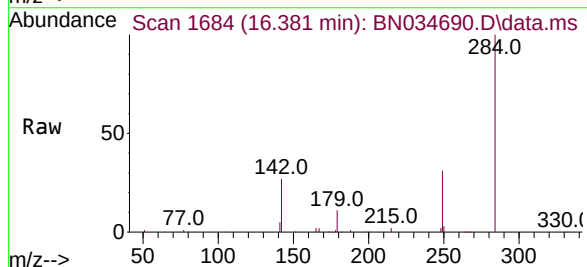
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

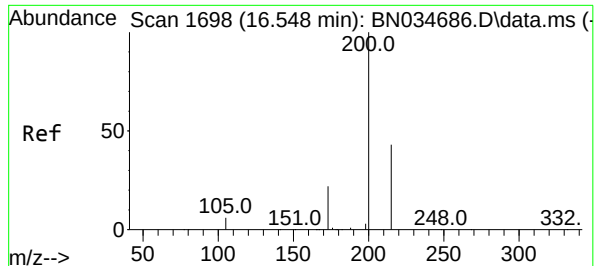
Tgt Ion:248 Resp: 55507
Ion Ratio Lower Upper
248 100
250 95.0 80.9 121.3
141 81.9 40.5 60.7#



#22
Hexachlorobenzene
Concen: 4.706 ng
RT: 16.381 min Scan# 1684
Delta R.T. 0.007 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:284 Resp: 58013
Ion Ratio Lower Upper
284 100
142 55.3 43.6 65.4
249 33.7 26.6 40.0

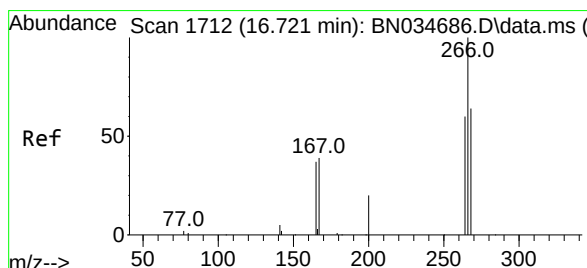
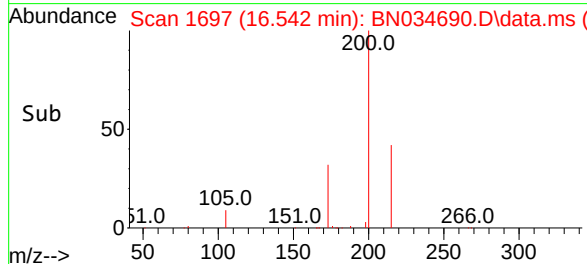
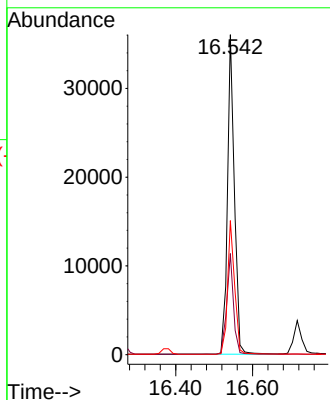
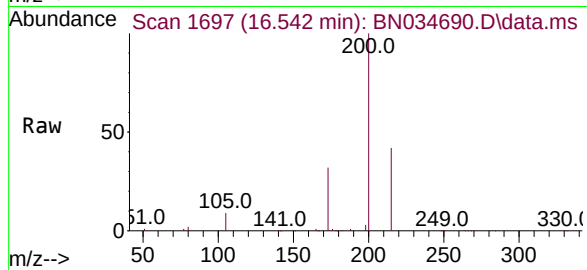




#23
Atrazine
Concen: 4.667 ng
RT: 16.542 min Scan# 1698
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

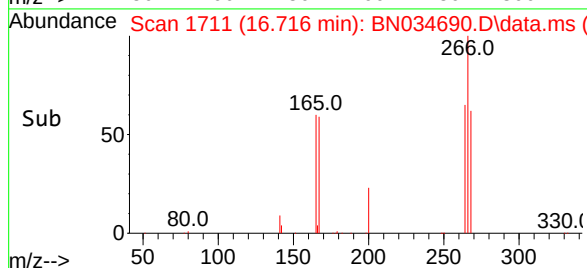
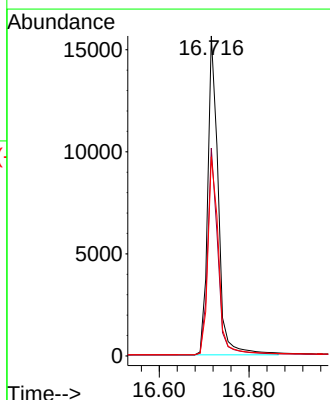
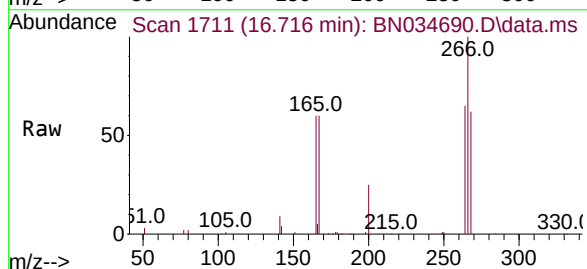
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

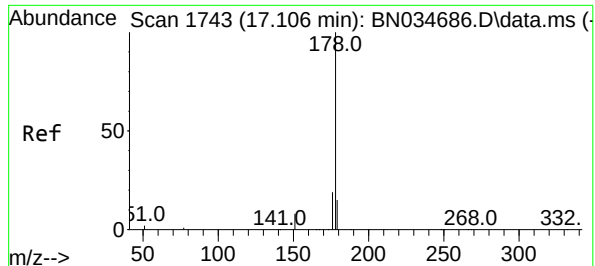
Tgt Ion:200 Resp: 45354
Ion Ratio Lower Upper
200 100
173 31.6 19.7 29.5#
215 41.9 35.7 53.5



#24
Pentachlorophenol
Concen: 5.233 ng
RT: 16.716 min Scan# 1711
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:266 Resp: 25315
Ion Ratio Lower Upper
266 100
264 63.1 49.4 74.2
268 63.1 50.5 75.7

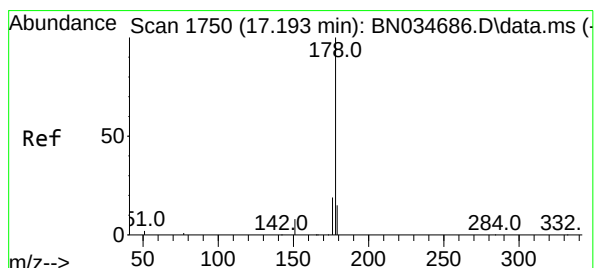
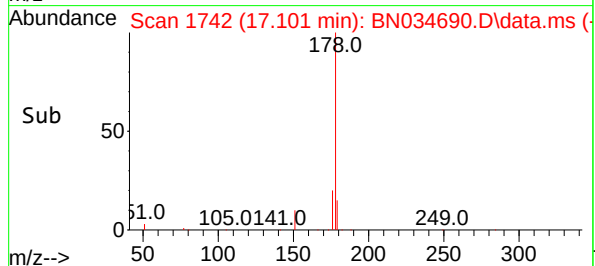
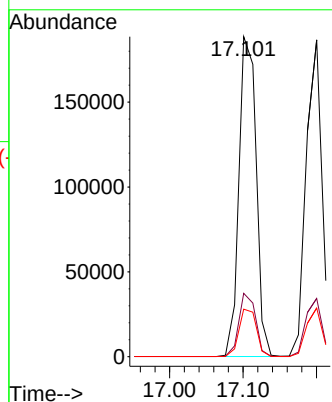
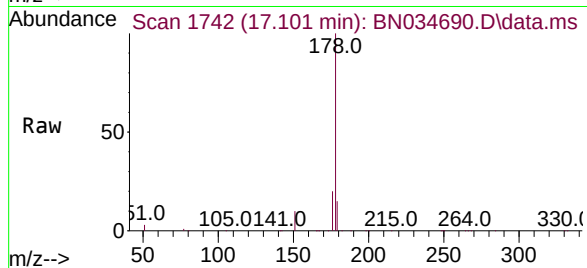




#25
Phenanthrene
Concen: 5.103 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

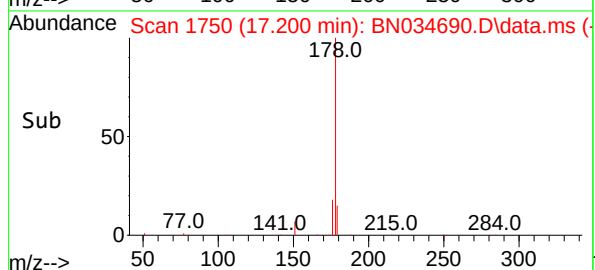
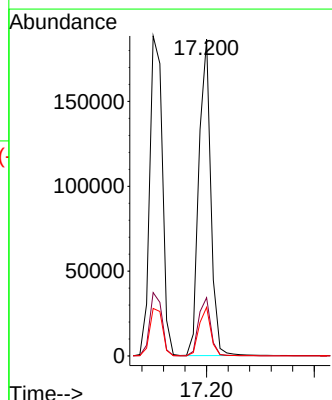
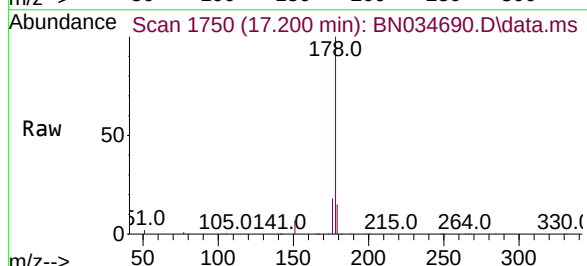
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

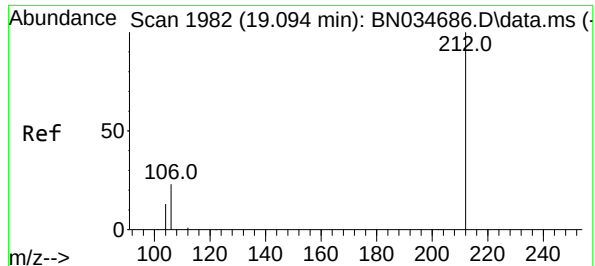
Tgt Ion:178 Resp: 308331
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.0 12.2 18.4



#26
Anthracene
Concen: 5.315 ng
RT: 17.200 min Scan# 1750
Delta R.T. 0.007 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:178 Resp: 287167
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 4.647 ng

RT: 19.097 min Scan# 1982

Delta R.T. 0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

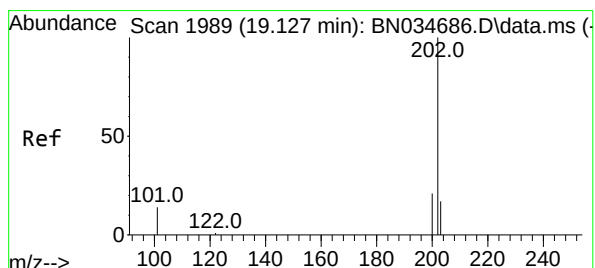
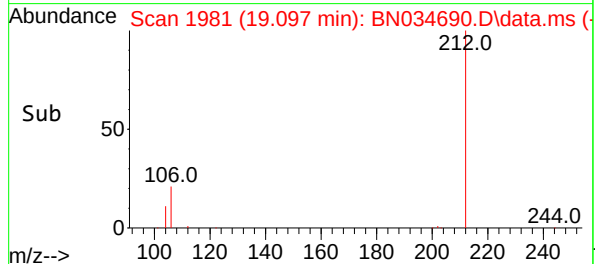
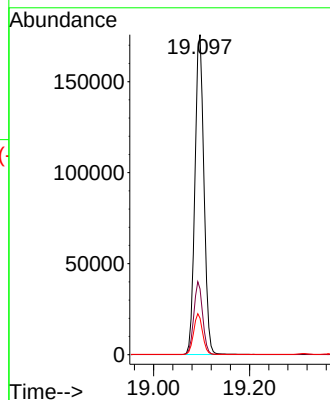
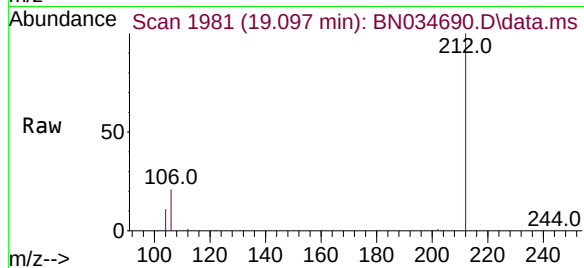
Tgt Ion:212 Resp: 231016

Ion Ratio Lower Upper

212 100

106 22.3 17.8 26.8

104 12.6 10.2 15.4



#28

Fluoranthene

Concen: 4.756 ng

RT: 19.124 min Scan# 1987

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

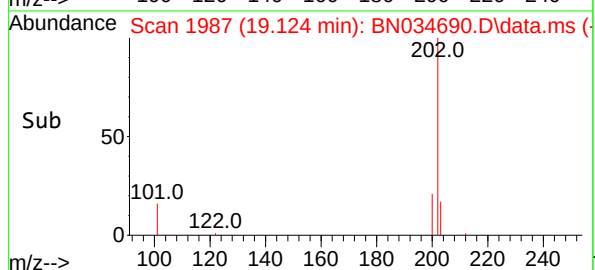
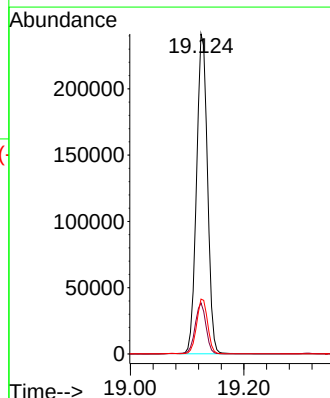
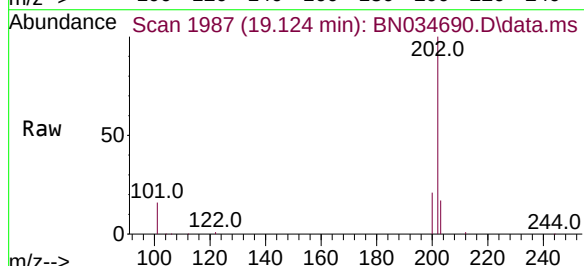
Tgt Ion:202 Resp: 322212

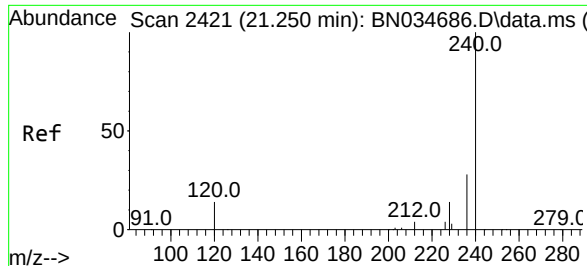
Ion Ratio Lower Upper

202 100

101 15.9 12.8 19.2

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.248 min Scan# 2419

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

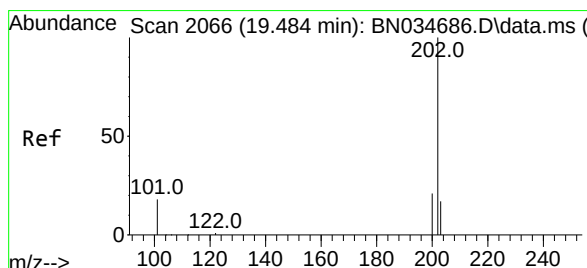
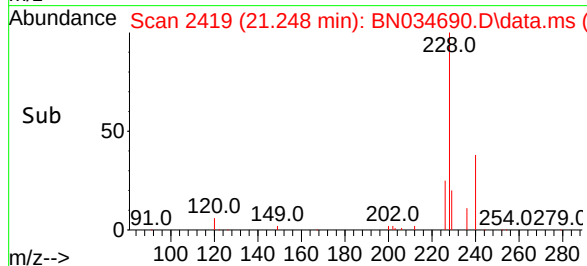
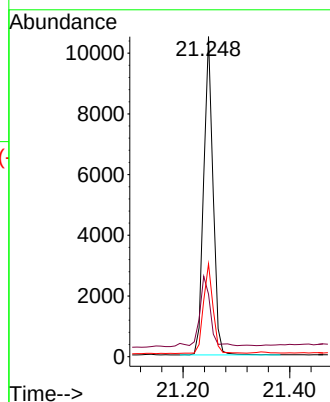
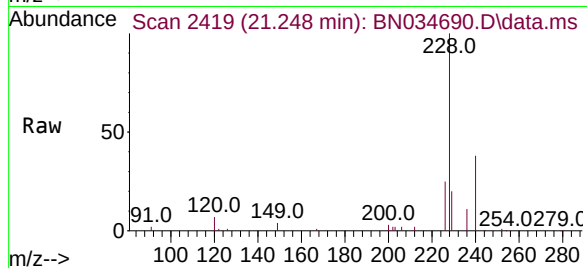
Tgt Ion:240 Resp: 12752

Ion Ratio Lower Upper

240 100

120 19.6 14.2 21.2

236 29.0 23.1 34.7



#30

Pyrene

Concen: 5.726 ng

RT: 19.487 min Scan# 2065

Delta R.T. 0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

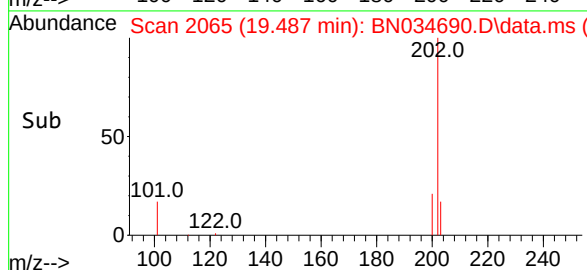
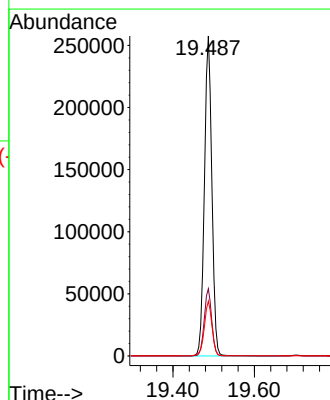
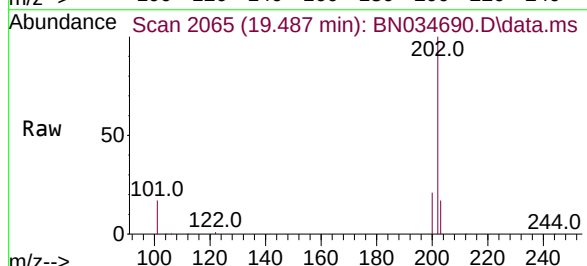
Tgt Ion:202 Resp: 326483

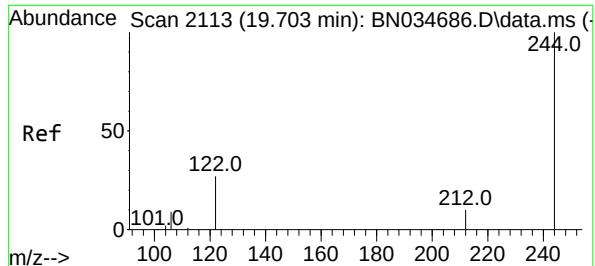
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

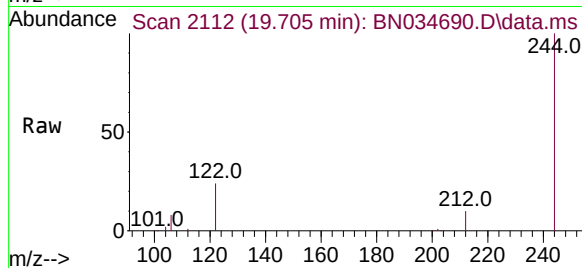
203 17.6 14.2 21.4



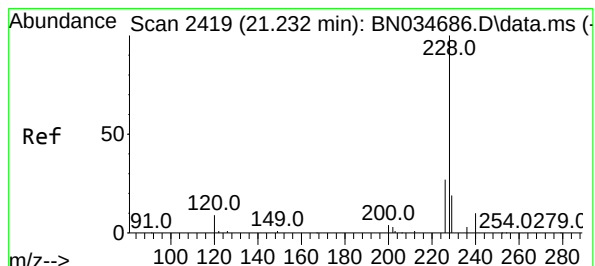
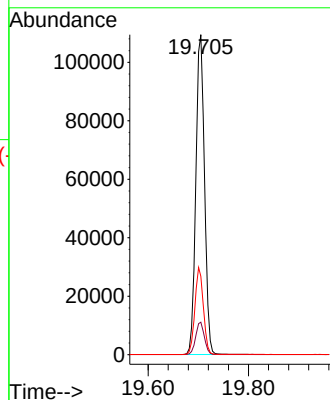
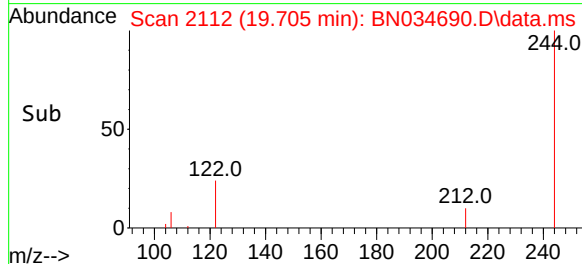


#31
Terphenyl-d14
Concen: 5.298 ng
RT: 19.705 min Scan# 2112
Delta R.T. 0.002 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

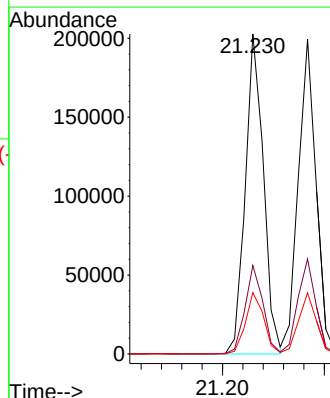
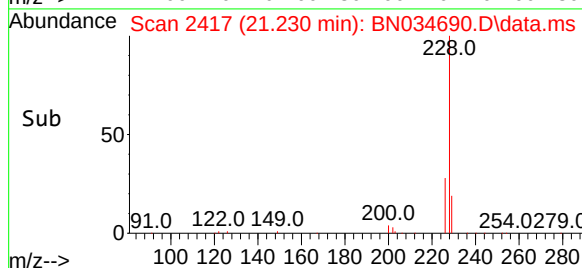
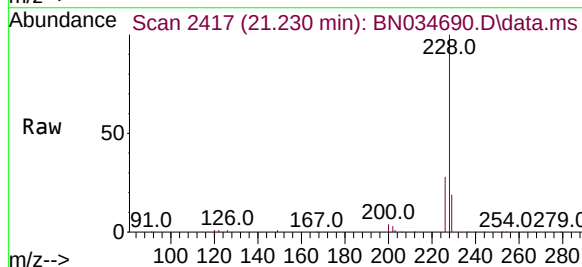


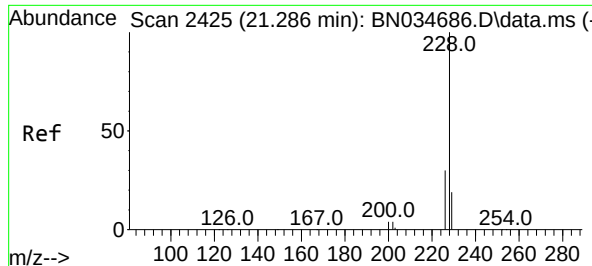
Tgt Ion:244 Resp: 130770
Ion Ratio Lower Upper
244 100
212 10.1 8.6 13.0
122 24.5 22.3 33.5



#32
Benzo(a)anthracene
Concen: 5.148 ng
RT: 21.230 min Scan# 2417
Delta R.T. -0.002 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

Tgt Ion:228 Resp: 250242
Ion Ratio Lower Upper
228 100
226 27.6 22.0 33.0
229 19.1 15.6 23.4





#33

Chrysene

Concen: 5.072 ng

RT: 21.283 min Scan# 2425

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

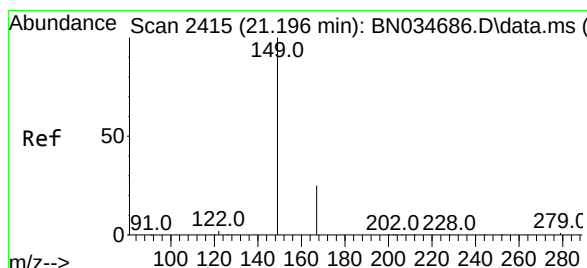
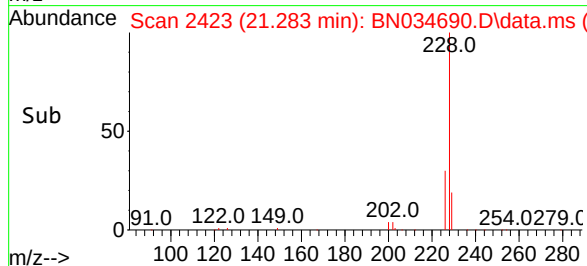
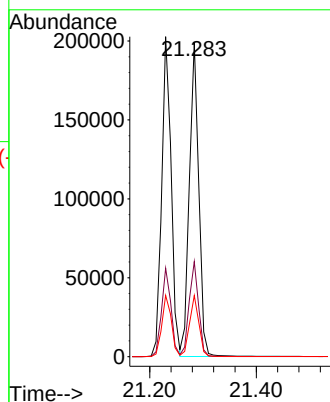
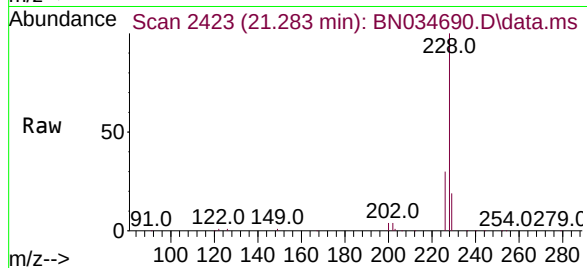
Tgt Ion:228 Resp: 244106

Ion Ratio Lower Upper

228 100

226 30.2 24.1 36.1

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.961 ng

RT: 21.194 min Scan# 2413

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

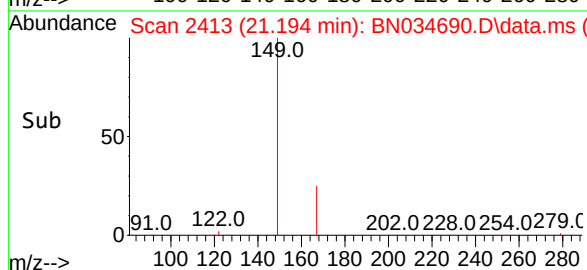
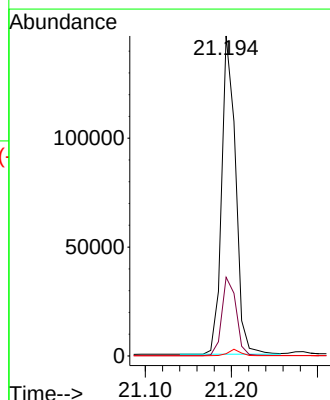
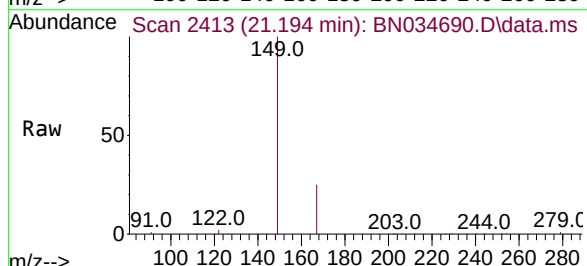
Tgt Ion:149 Resp: 164213

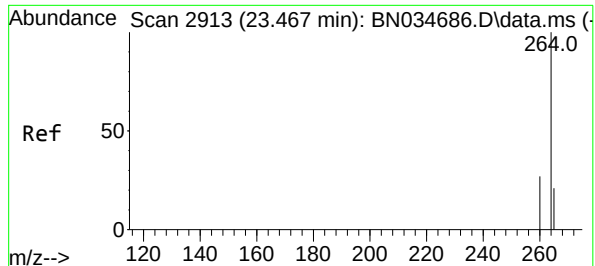
Ion Ratio Lower Upper

149 100

167 25.1 19.7 29.5

279 1.8 1.8 2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.464 min Scan# 2911

Delta R.T. -0.002 min

Lab File: BN034690.D

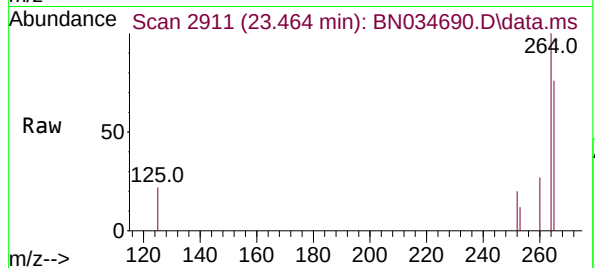
Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



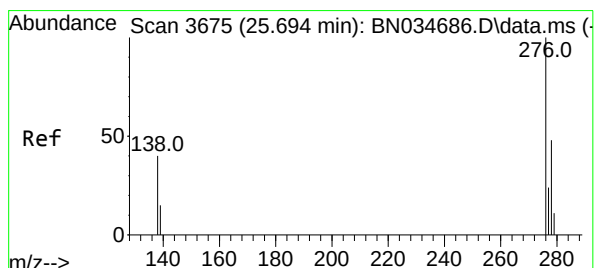
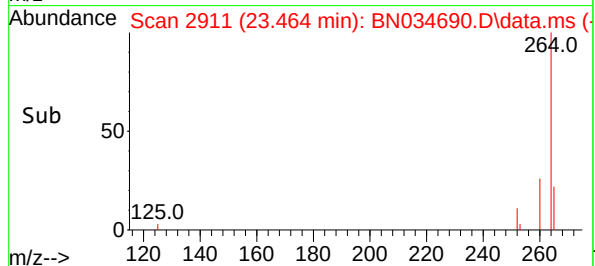
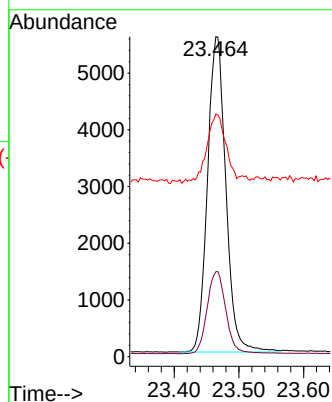
Tgt Ion:264 Resp: 10972

Ion Ratio Lower Upper

264 100

260 26.6 21.9 32.9

265 75.9 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.271 ng

RT: 25.695 min Scan# 3674

Delta R.T. 0.001 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

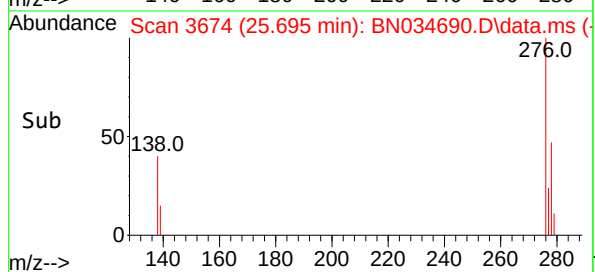
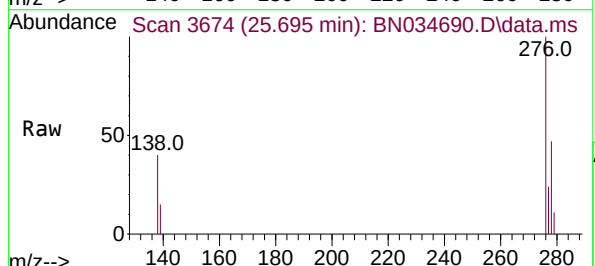
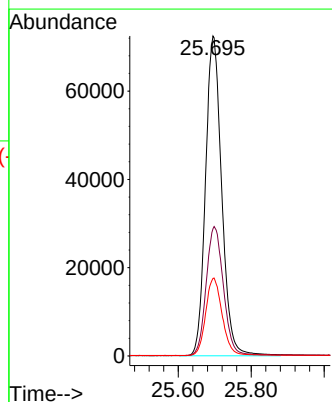
Tgt Ion:276 Resp: 222798

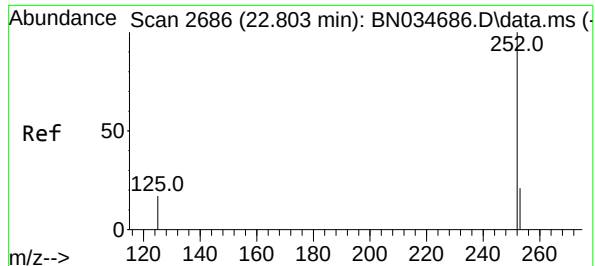
Ion Ratio Lower Upper

276 100

138 43.1 35.1 52.7

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 5.585 ng

RT: 22.801 min Scan# 2

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

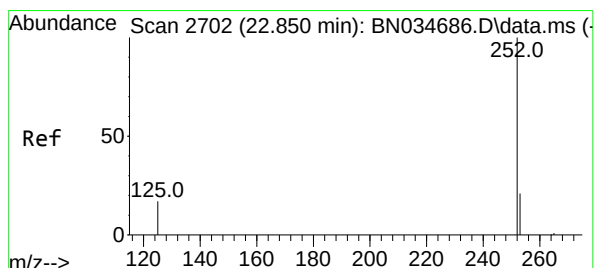
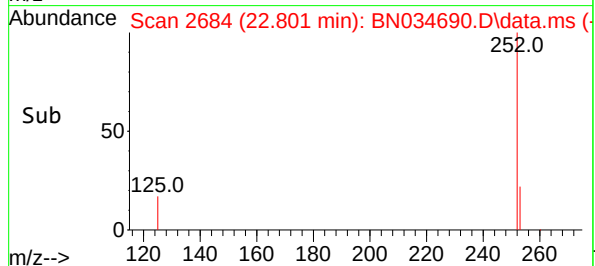
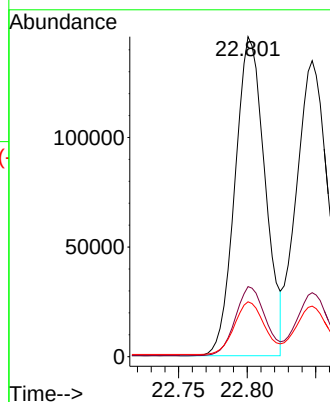
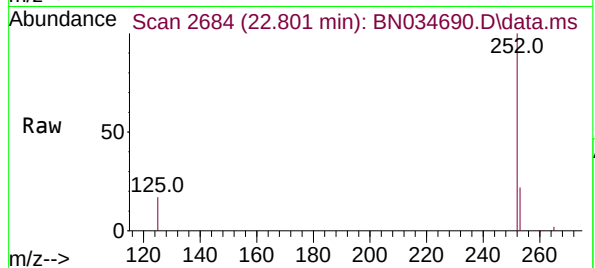
Tgt Ion:252 Resp: 221458

Ion Ratio Lower Upper

252 100

253 21.9 20.0 30.0

125 17.2 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 5.717 ng

RT: 22.847 min Scan# 2700

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

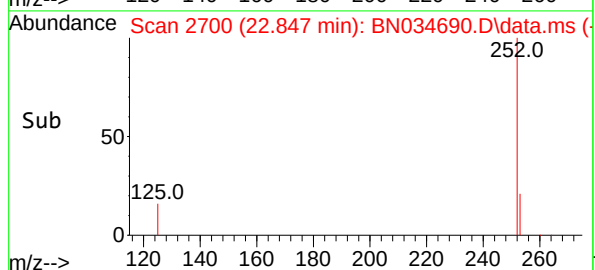
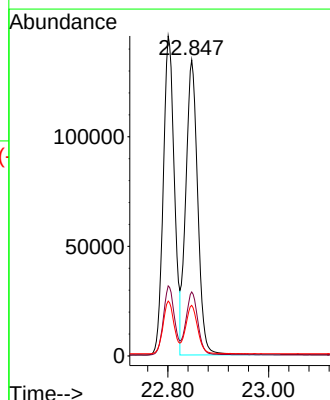
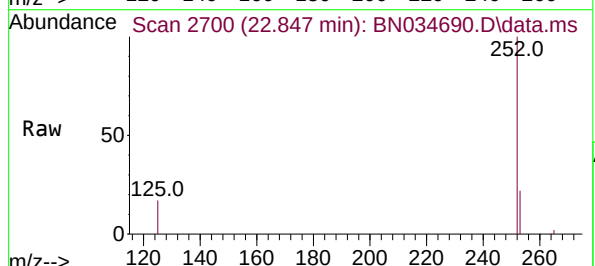
Tgt Ion:252 Resp: 221207

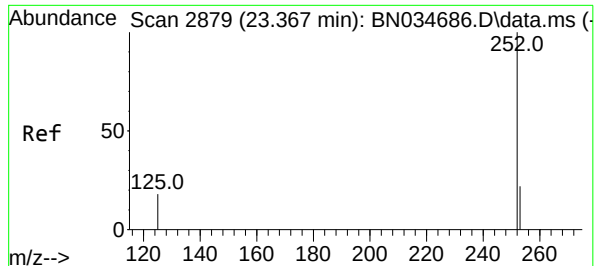
Ion Ratio Lower Upper

252 100

253 21.6 20.6 31.0

125 17.1 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 5.496 ng

RT: 23.371 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

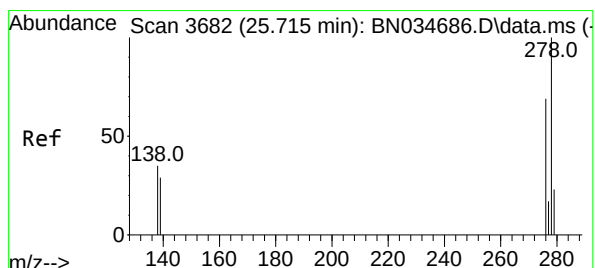
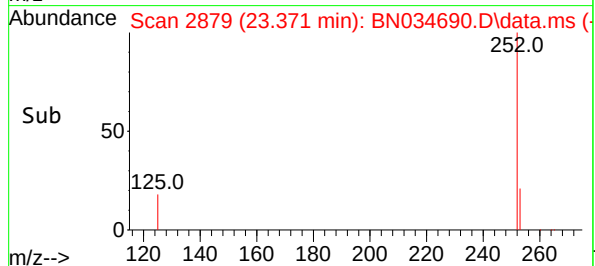
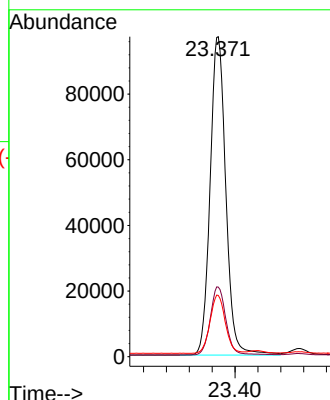
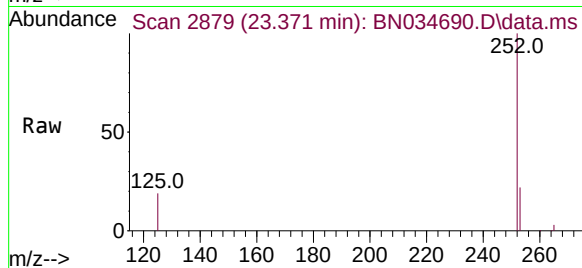
Tgt Ion:252 Resp: 185096

Ion Ratio Lower Upper

252 100

253 21.8 22.2 33.4#

125 19.1 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 5.319 ng

RT: 25.716 min Scan# 3681

Delta R.T. 0.001 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

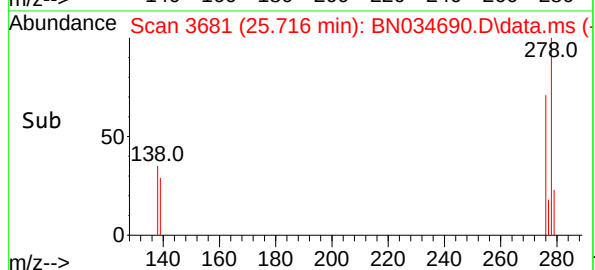
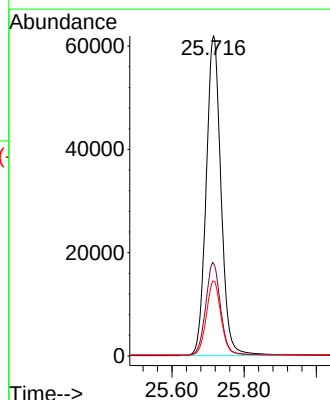
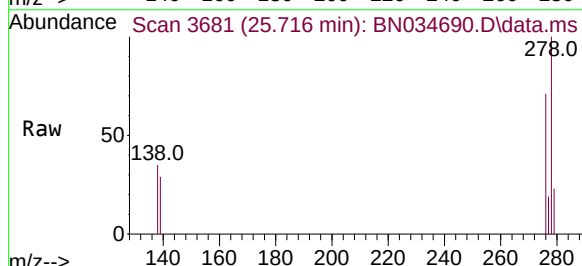
Tgt Ion:278 Resp: 176660

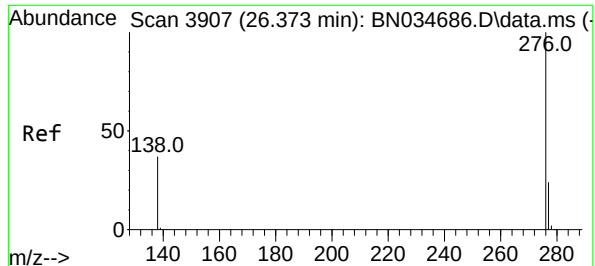
Ion Ratio Lower Upper

278 100

139 28.9 25.4 38.2

279 23.4 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 5.158 ng

RT: 26.370 min Scan# 3905

Delta R.T. -0.002 min

Lab File: BN034690.D

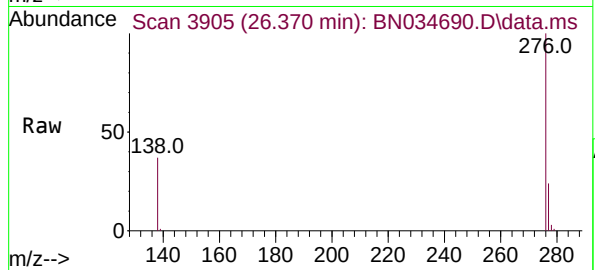
Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



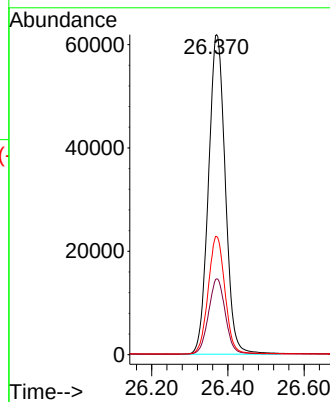
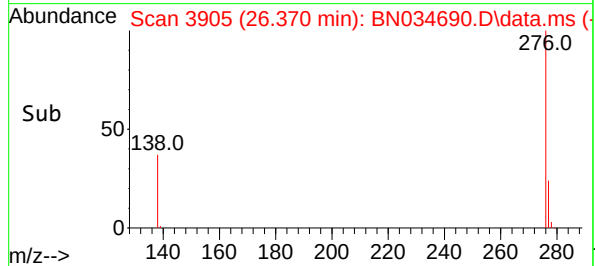
Tgt Ion:276 Resp: 189041

Ion Ratio Lower Upper

276 100

277 23.7 21.3 31.9

138 36.9 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034691.D
 Acq On : 24 Oct 2024 14:14
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024

Quant Time: Oct 24 14:43:51 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 24 13:17:02 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	6674	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19848	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	10372	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	21015	0.400	ng	0.00
29) Chrysene-d12	21.250	240	12401	0.400	ng	0.00
35) Perylene-d12	23.466	264	10594	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.314	112	7964	0.401	ng	0.00
5) Phenol-d6	6.882	99	10366	0.396	ng	0.00
8) Nitrobenzene-d5	8.845	82	5758	0.346	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	9741	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	1099	0.343	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	14035	0.341	ng	0.00
27) Fluoranthene-d10	19.094	212	16566	0.350	ng	0.00
31) Terphenyl-d14	19.703	244	9400	0.371	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	3154	0.355	ng	100
3) n-Nitrosodimethylamine	3.581	42	4576	0.354	ng	# 97
6) bis(2-Chloroethyl)ether	7.141	93	7850	0.369	ng	99
9) Naphthalene	10.532	128	19666	0.358	ng	100
10) Hexachlorobutadiene	10.831	225	2964	0.360	ng	# 99
12) 2-Methylnaphthalene	12.143	142	12146	0.356	ng	98
16) Acenaphthylene	14.040	152	16384	0.329	ng	99
17) Acenaphthene	14.382	154	11510	0.335	ng	99
18) Fluorene	15.377	166	14579	0.344	ng	99
20) 4,6-Dinitro-2-methylph...	15.451	198	947	0.324	ng	88
21) 4-Bromophenyl-phenylether	16.275	248	3884	0.347	ng	98
22) Hexachlorobenzene	16.374	284	4355	0.358	ng	98
23) Atrazine	16.548	200	2928	0.333	ng	99
24) Pentachlorophenol	16.721	266	1463	0.340	ng	98
25) Phenanthrene	17.106	178	22550	0.357	ng	100
26) Anthracene	17.193	178	19340	0.345	ng	100
28) Fluoranthene	19.127	202	22945	0.348	ng	100
30) Pyrene	19.489	202	23297	0.366	ng	100
32) Benzo(a)anthracene	21.232	228	16543	0.349	ng	99
33) Chrysene	21.286	228	17696	0.361	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	8661m	0.322	ng	
36) Indeno(1,2,3-cd)pyrene	25.697	276	14157	0.347	ng	100
37) Benzo(b)fluoranthene	22.803	252	15350	0.363	ng	99
38) Benzo(k)fluoranthene	22.850	252	14742	0.353	ng	99
39) Benzo(a)pyrene	23.373	252	12054	0.355	ng	99
40) Dibenzo(a,h)anthracene	25.718	278	11142	0.346	ng	99
41) Benzo(g,h,i)perylene	26.373	276	12576	0.354	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034691.D
 Acq On : 24 Oct 2024 14:14
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024

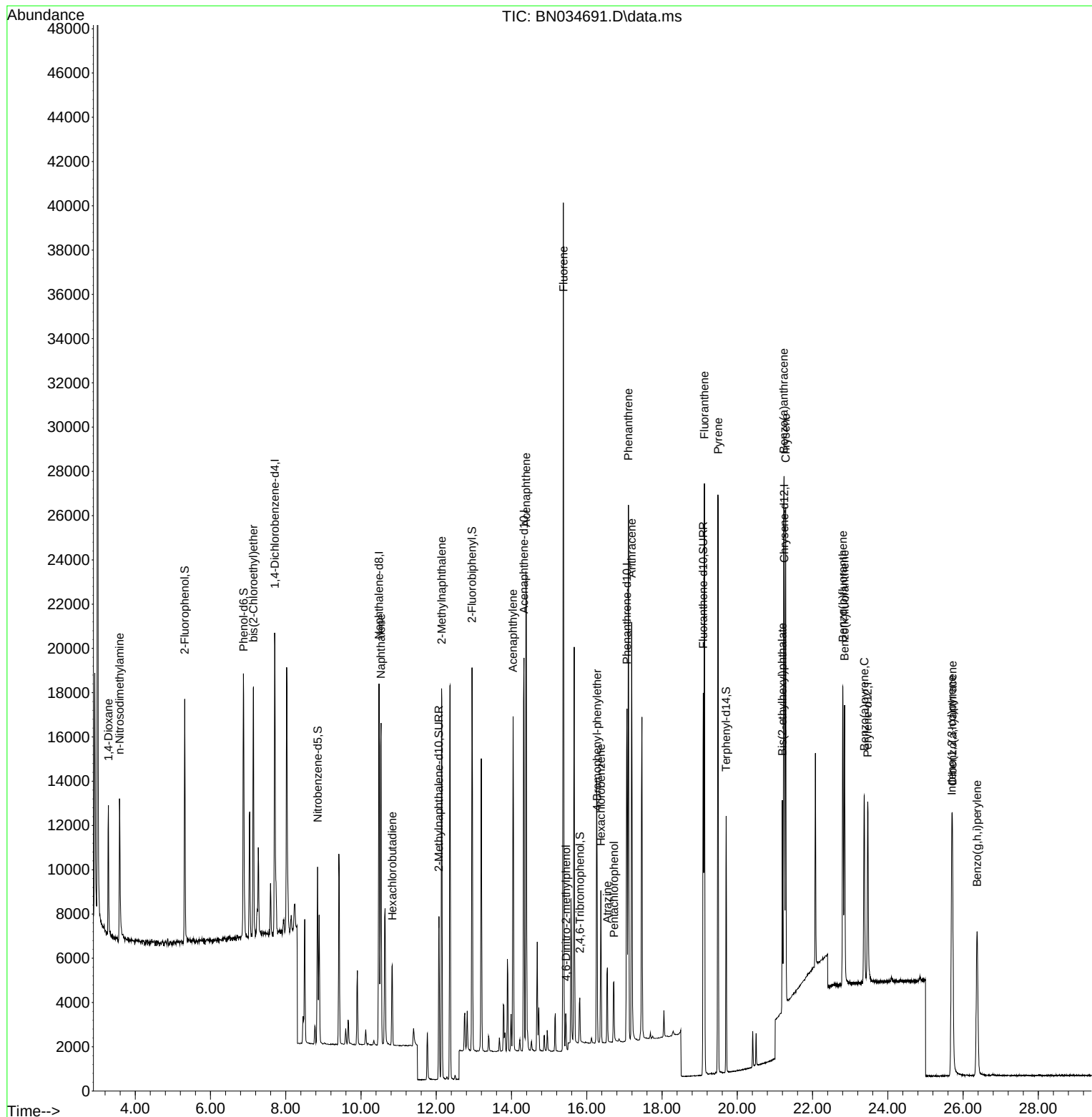
Quant Time: Oct 24 14:43:51 2024

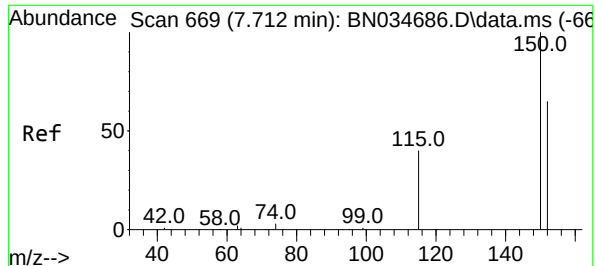
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 24 13:17:02 2024

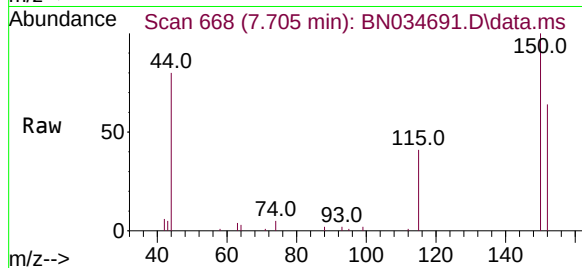
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.705 min Scan# 669
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

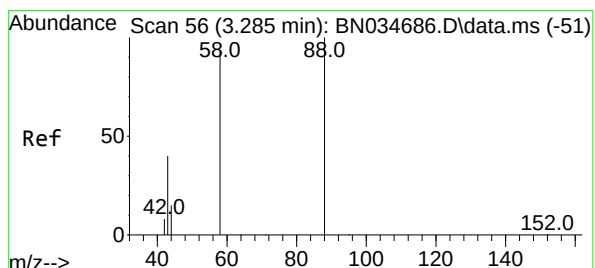
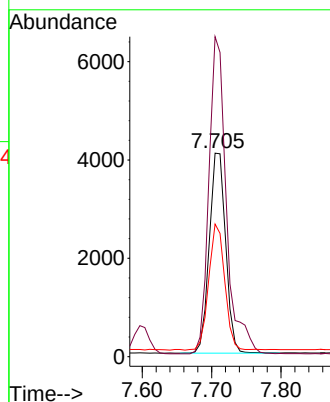
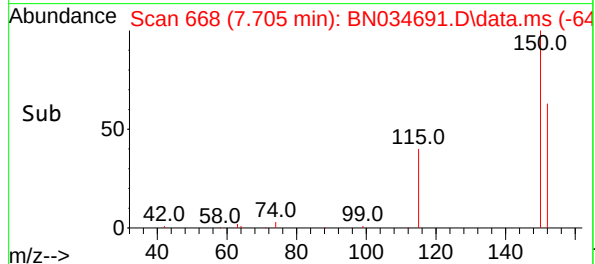
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion: 152 Resp: 6674
Ion Ratio Lower Upper
152 100
150 157.2 122.7 184.1
115 65.2 51.0 76.6

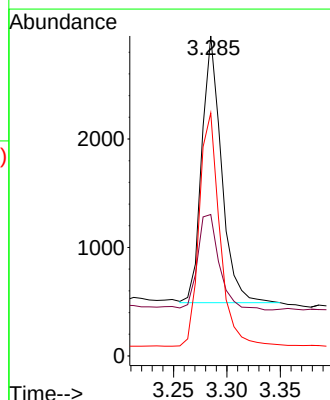
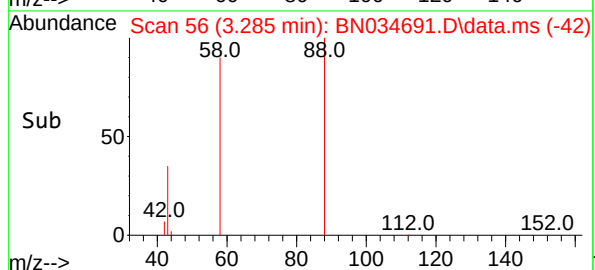
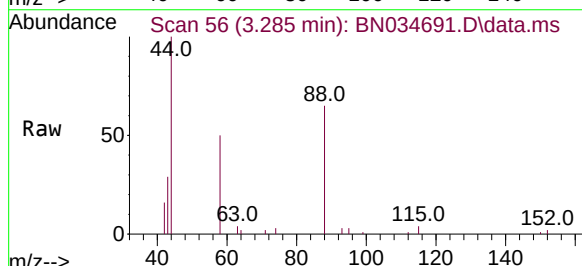
Manual Integrations
APPROVED

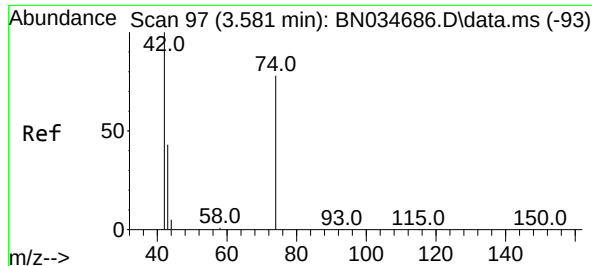
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#2
1,4-Dioxane
Concen: 0.355 ng
RT: 3.285 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion: 88 Resp: 3154
Ion Ratio Lower Upper
88 100
43 39.5 32.1 48.1
58 91.9 73.7 110.5





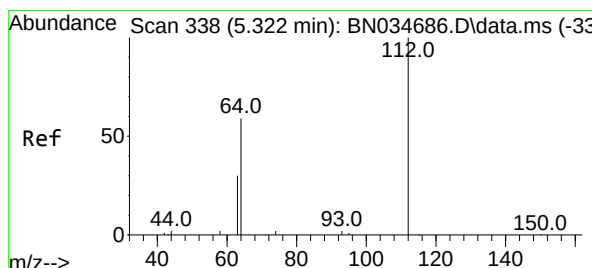
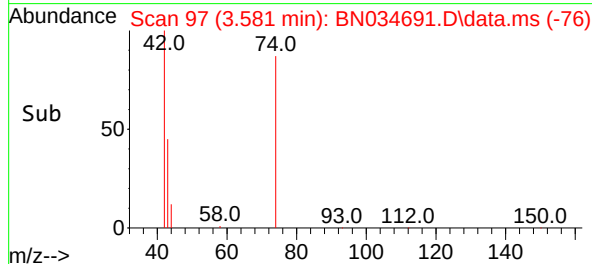
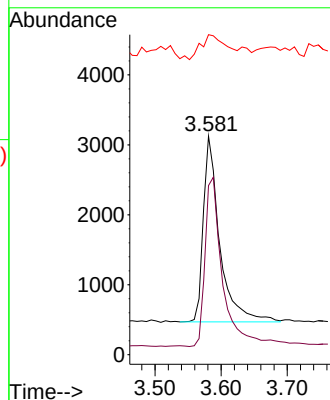
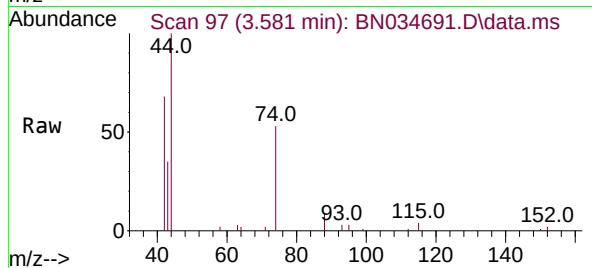
#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.581 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

Tgt Ion: 42 Resp: 4570
Ion Ratio Lower Upper
42 100
74 98.6 77.2 115.8
44 20.5 13.4 20.2

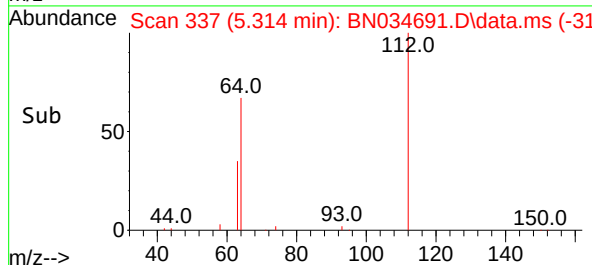
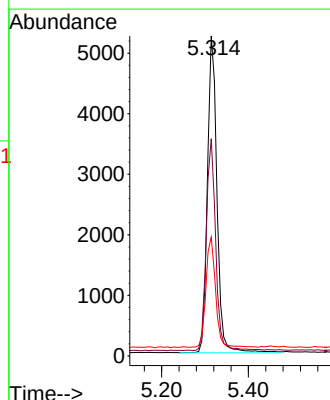
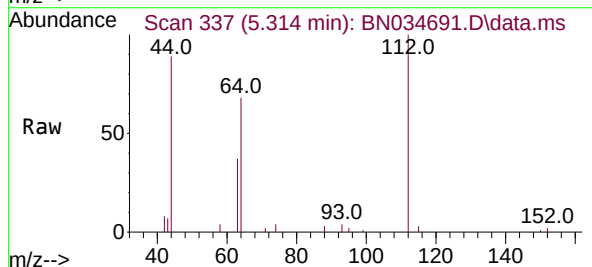
Manual Integrations
APPROVED

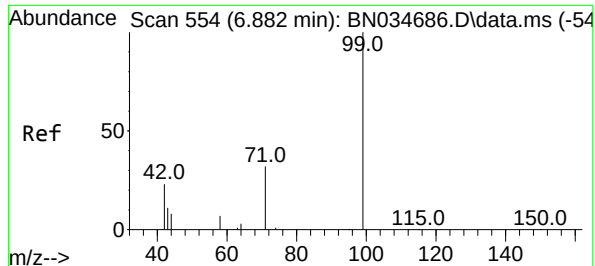
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 5.314 min Scan# 337
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:112 Resp: 7964
Ion Ratio Lower Upper
112 100
64 66.0 53.0 79.6
63 35.2 27.6 41.4





#5
Phenol-d6
Concen: 0.396 ng
RT: 6.882 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

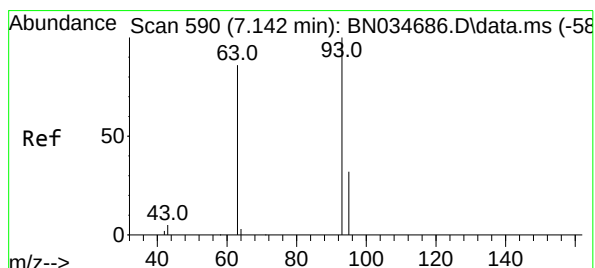
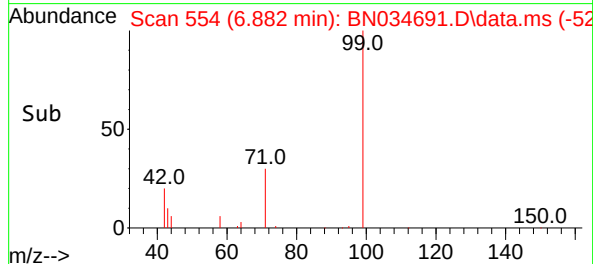
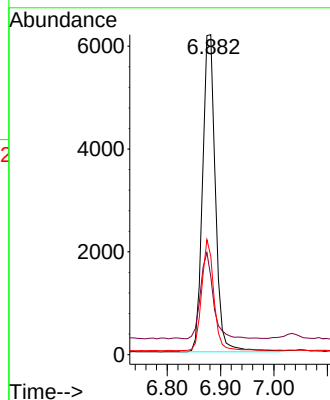
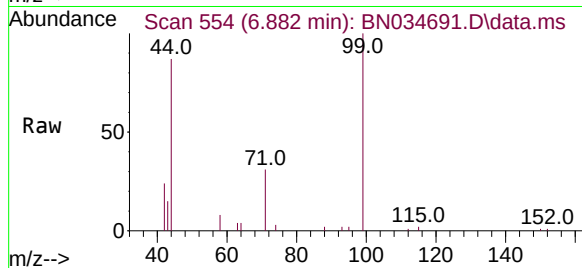
ClientSampleId :

ICVBN102424

Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.0	21.8	32.8
71	33.3	26.6	40.0

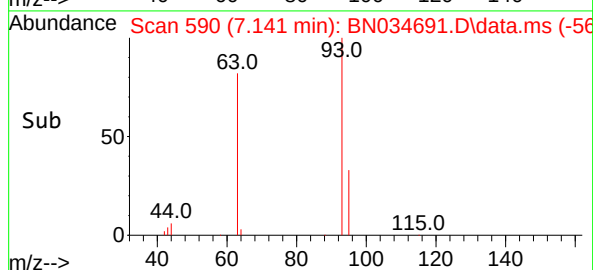
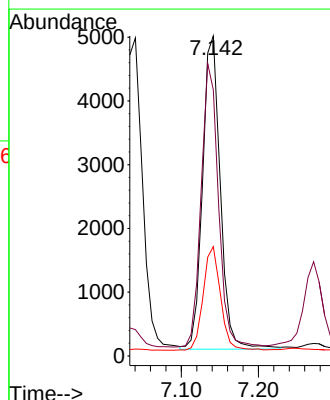
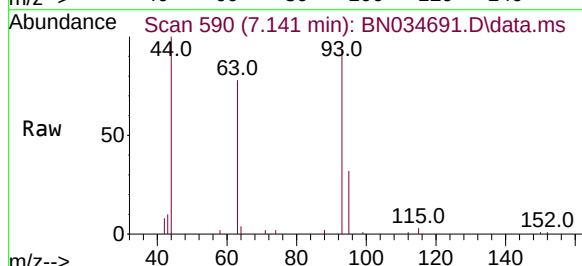
Manual Integrations
APPROVED

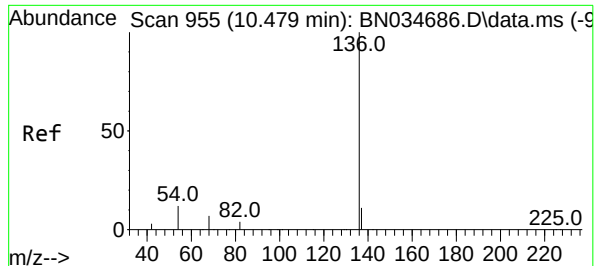
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.141 min Scan# 590
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.8	71.5	107.3
95	32.2	25.8	38.6





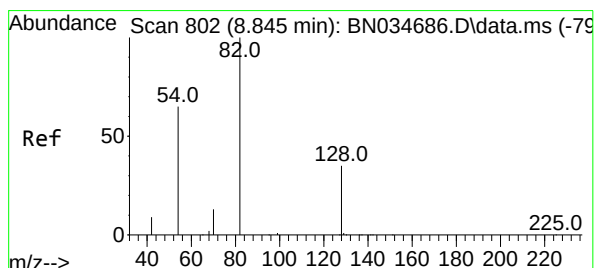
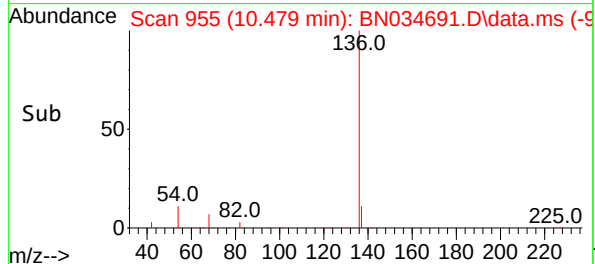
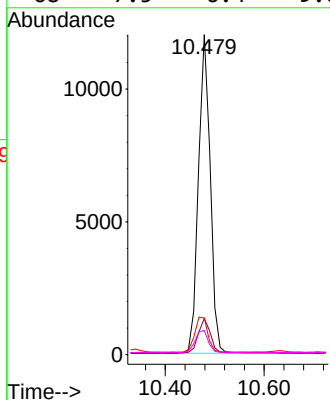
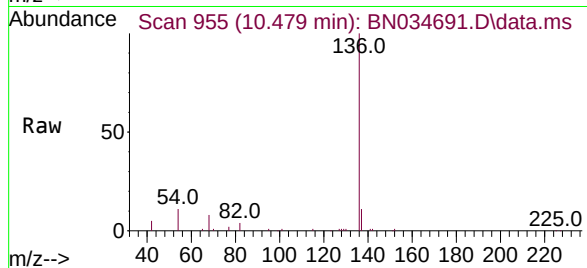
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

Tgt Ion:	136	Resp:	1984
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	11.4	9.8	14.8
68	7.5	6.4	9.6

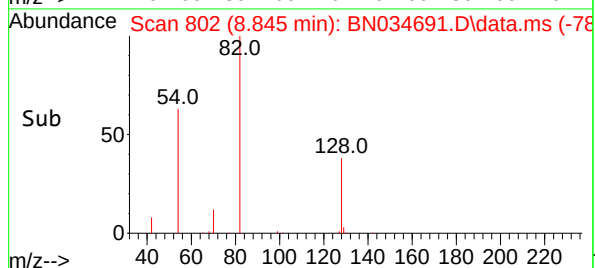
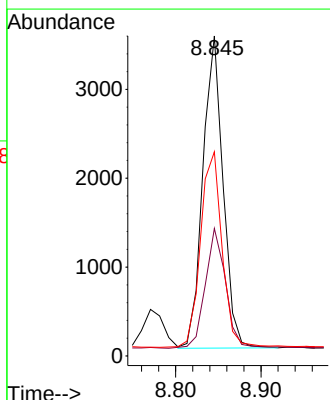
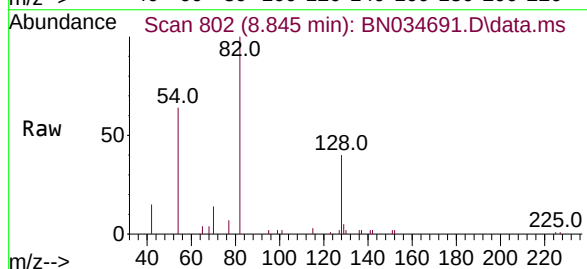
Manual Integrations
APPROVED

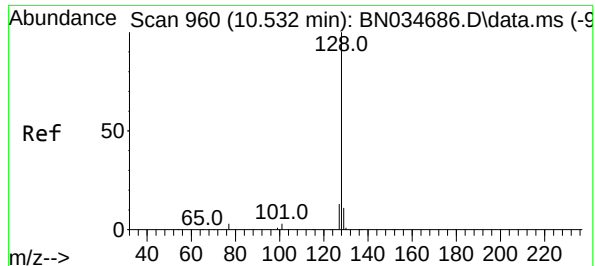
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:	82	Resp:	5758
Ion Ratio	Lower	Upper	
82	100		
128	39.9	29.7	44.5
54	63.8	53.0	79.6





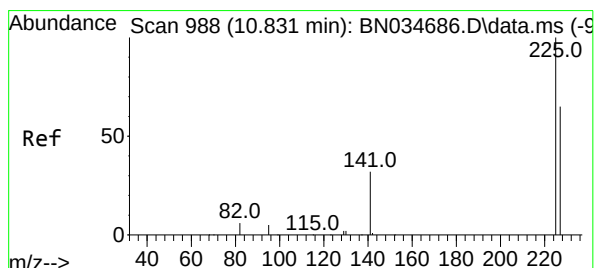
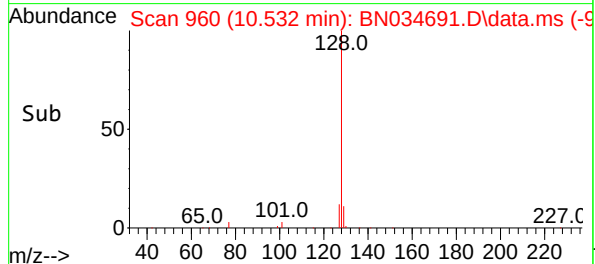
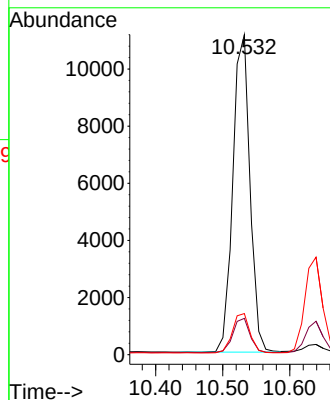
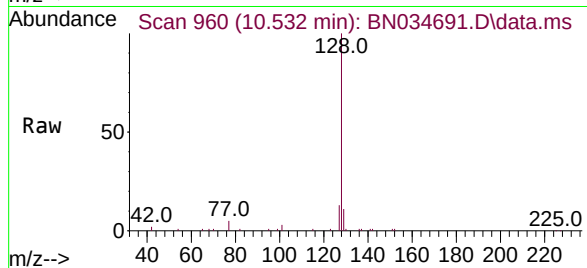
#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

Tgt Ion:128 Resp: 1966
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 12.8 10.5 15.7

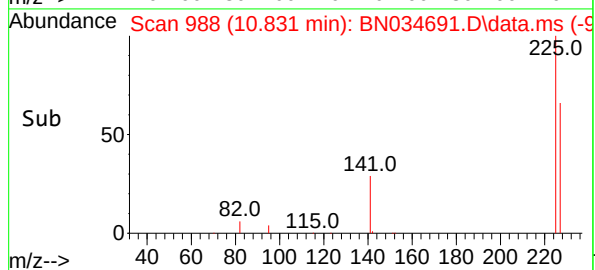
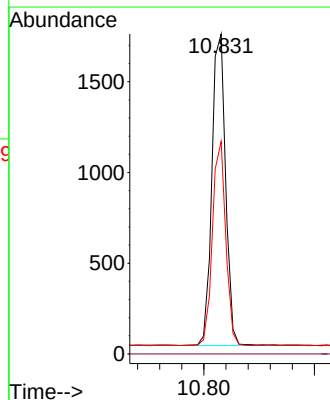
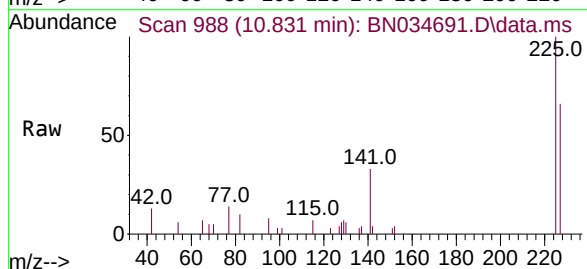
Manual Integrations
APPROVED

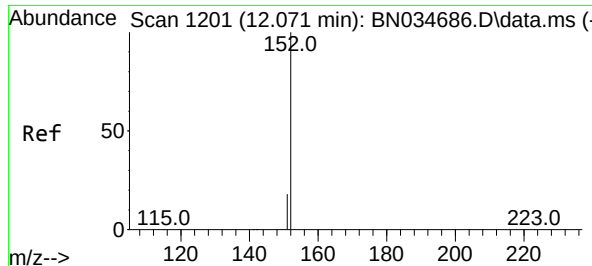
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.831 min Scan# 988
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

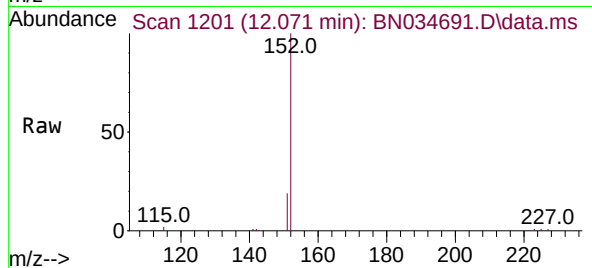
Tgt Ion:225 Resp: 2964
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.4 77.0





#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

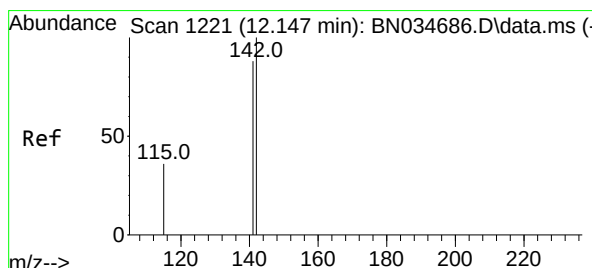
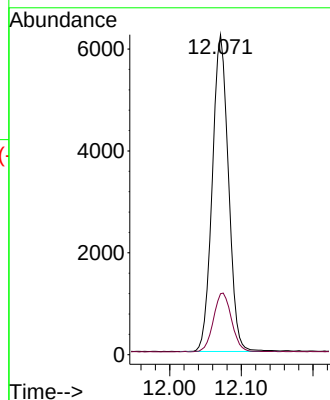
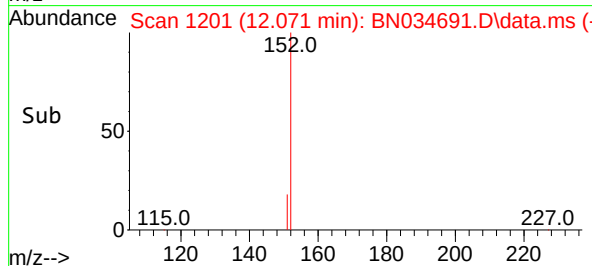
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



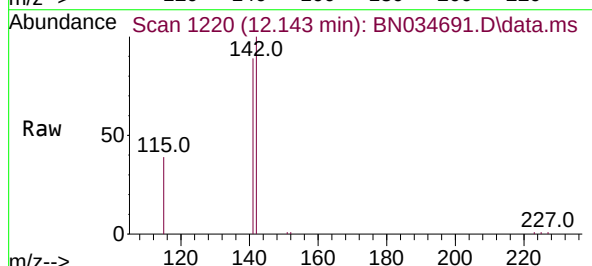
Tgt Ion:152 Resp: 974
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1

Manual Integrations
APPROVED

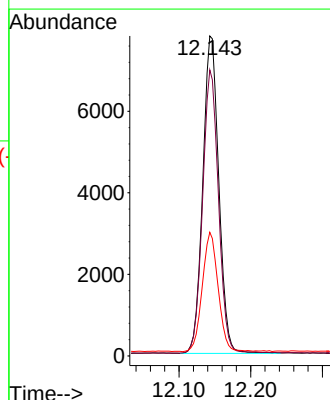
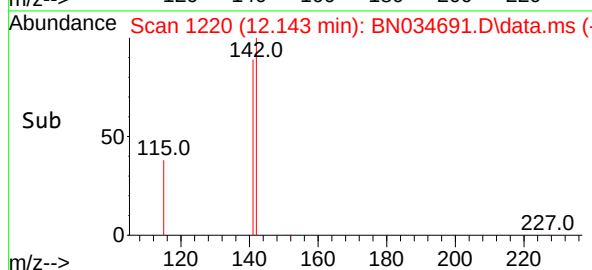
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024

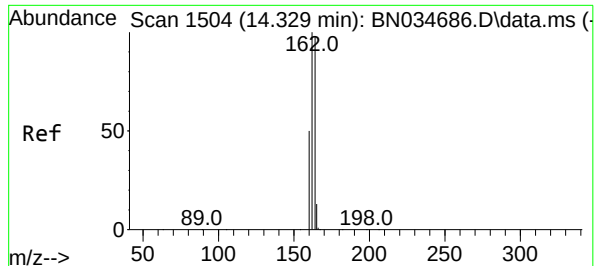


#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14



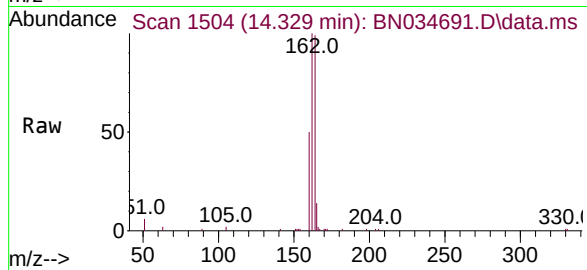
Tgt Ion:142 Resp: 12146
Ion Ratio Lower Upper
142 100
141 89.4 70.4 105.6
115 38.7 29.8 44.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

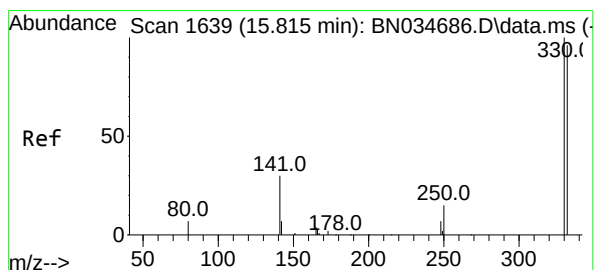
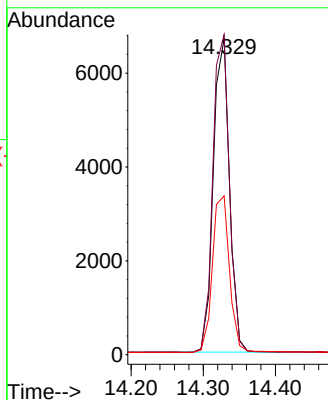
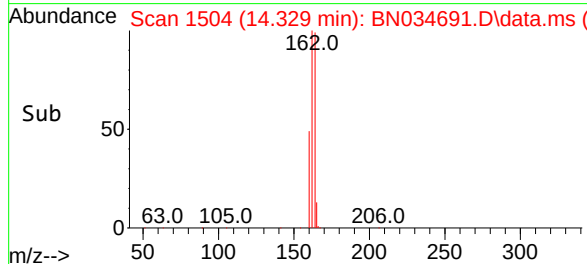
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



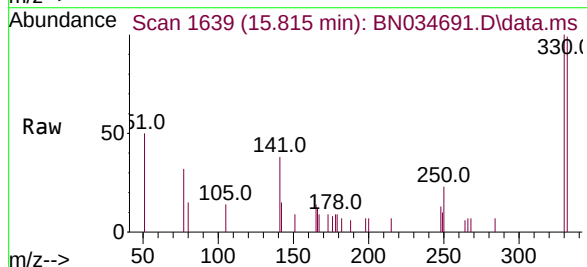
Tgt Ion:164 Resp: 10372
Ion Ratio Lower Upper
164 100
162 101.1 81.4 122.0
160 50.2 40.6 61.0

Manual Integrations
APPROVED

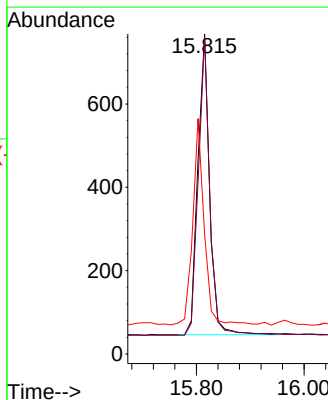
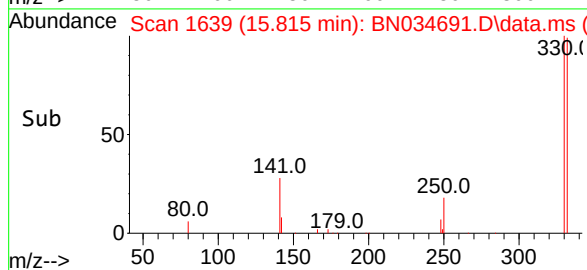
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024

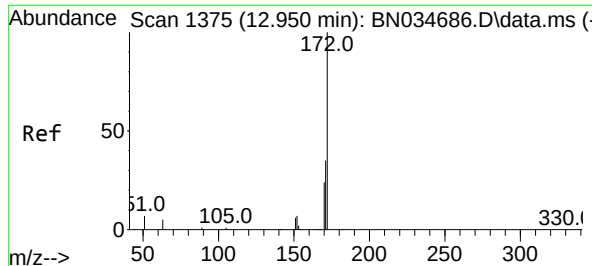


#14
2,4,6-Tribromophenol
Concen: 0.343 ng
RT: 15.815 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14



Tgt Ion:330 Resp: 1099
Ion Ratio Lower Upper
330 100
332 96.5 76.6 115.0
141 66.2 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 0.341 ng

RT: 12.950 min Scan# 1375

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

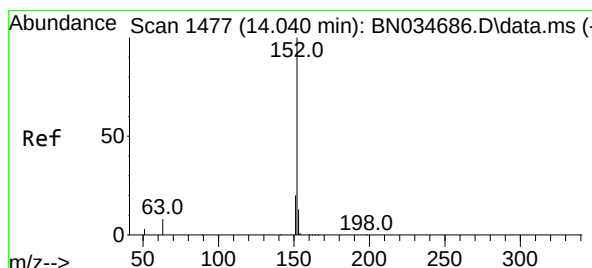
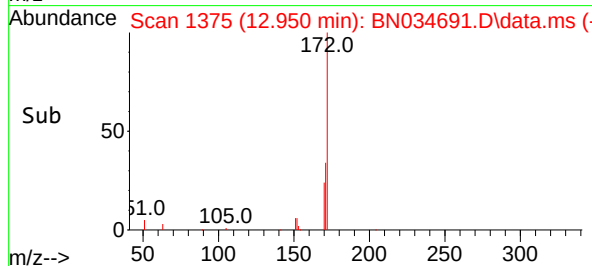
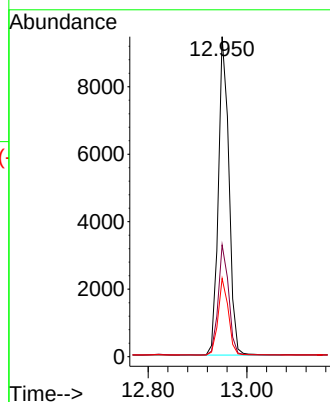
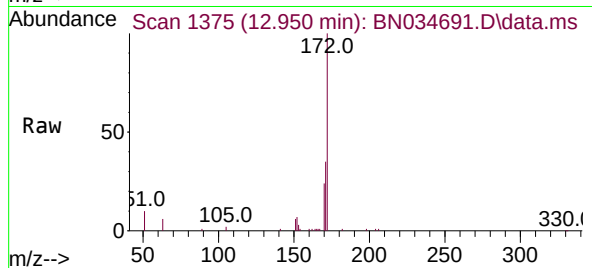
ICVBN102424

Tgt Ion:	172	Resp:	1403
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.3	42.5
170	24.5	19.8	29.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#16

Acenaphthylene

Concen: 0.329 ng

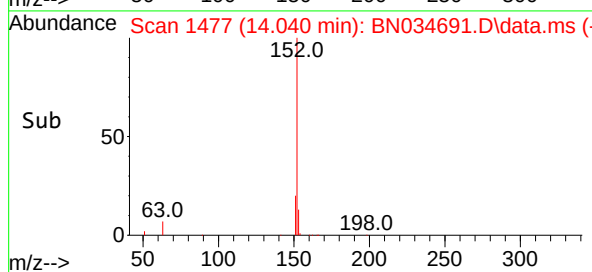
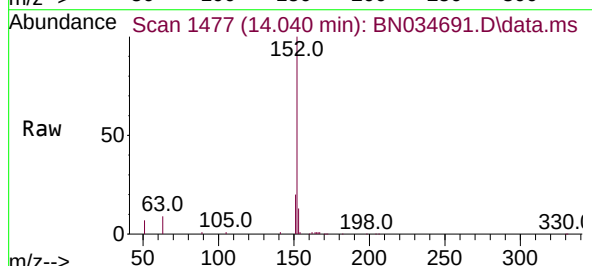
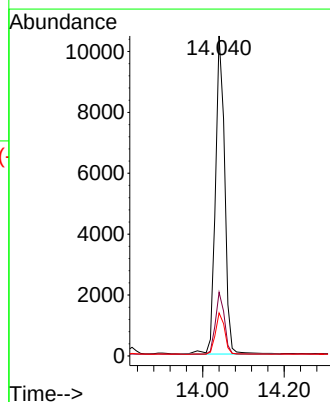
RT: 14.040 min Scan# 1477

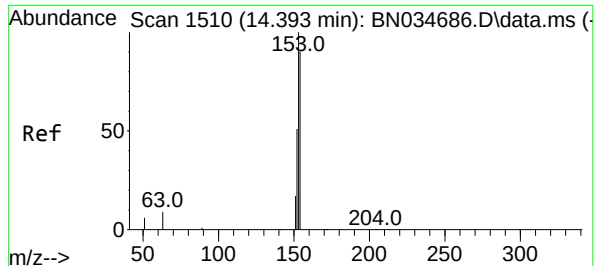
Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

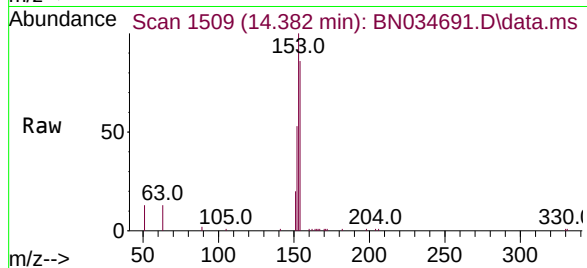
Tgt Ion:	152	Resp:	16384
Ion Ratio	Lower	Upper	
152	100		
151	19.0	15.6	23.4
153	13.1	10.6	15.8





#17
Acenaphthene
Concen: 0.335 ng
RT: 14.382 min Scan# 1510
Delta R.T. -0.011 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

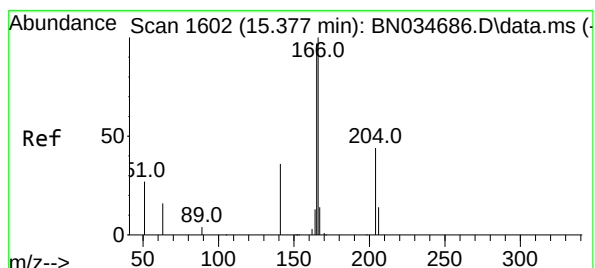
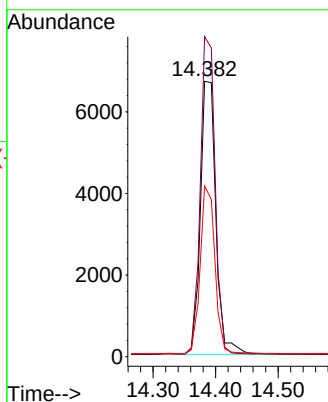
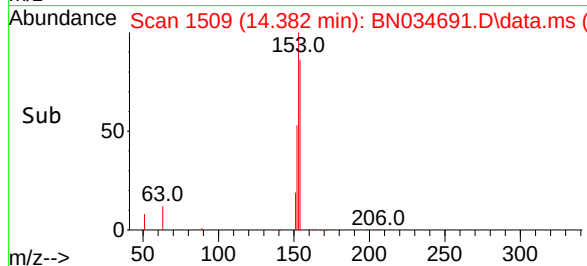
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion:154 Resp: 11510
Ion Ratio Lower Upper
154 100
153 111.6 88.2 132.2
152 58.6 46.9 70.3

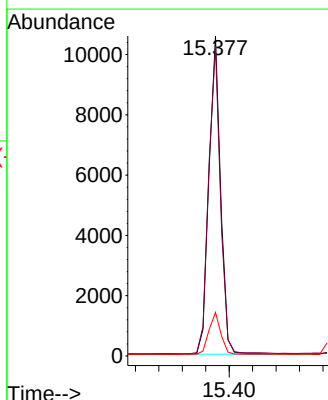
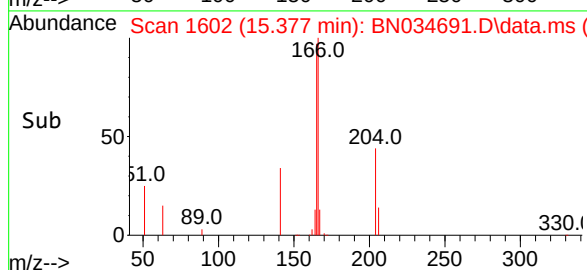
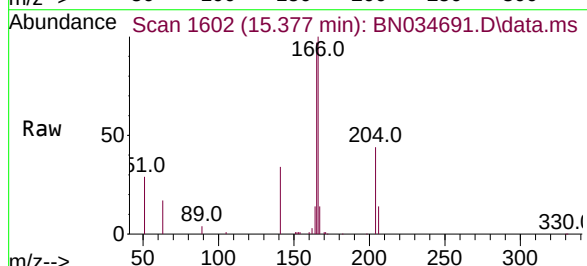
Manual Integrations
APPROVED

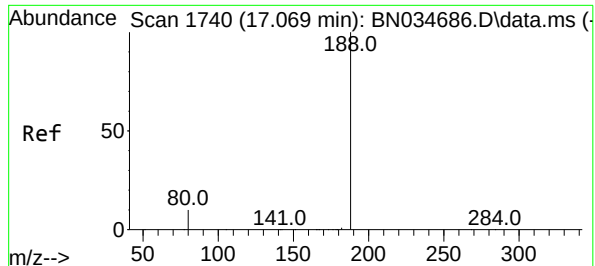
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#18
Fluorene
Concen: 0.344 ng
RT: 15.377 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:166 Resp: 14579
Ion Ratio Lower Upper
166 100
165 99.0 78.8 118.2
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

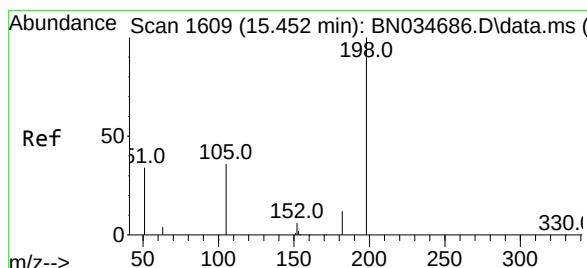
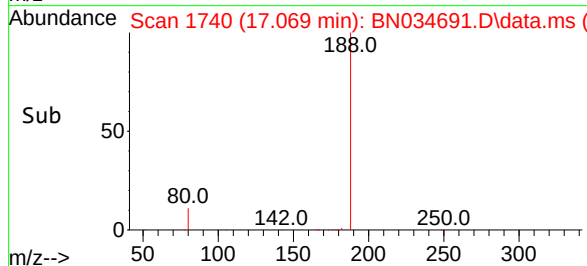
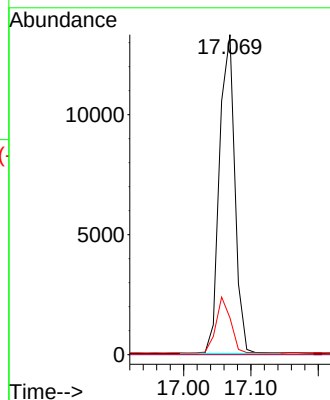
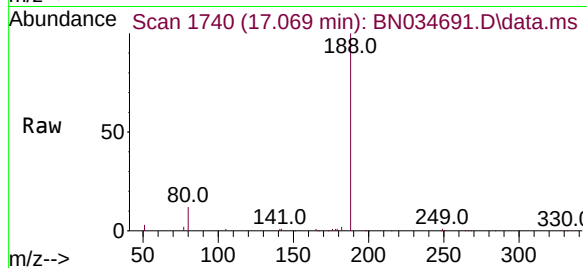
ICVBN102424

Tgt Ion:188	Resp:	2101
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	11.5	13.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.324 ng

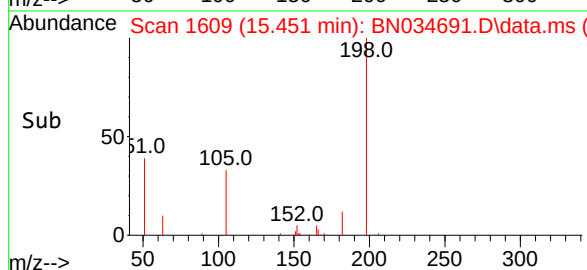
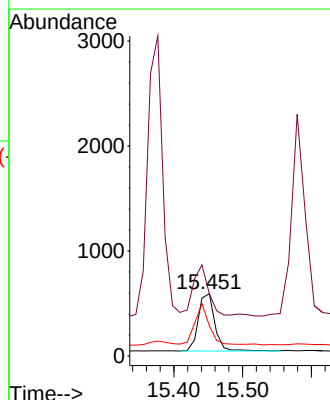
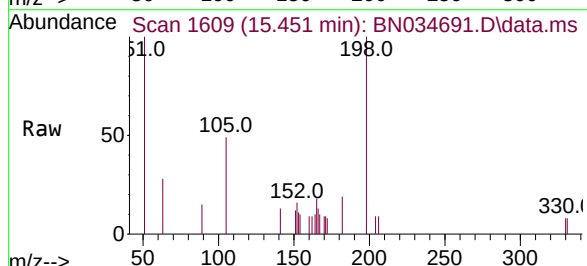
RT: 15.451 min Scan# 1609

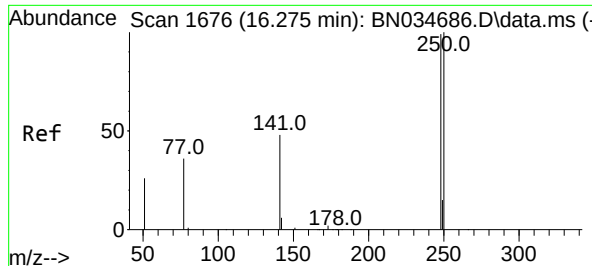
Delta R.T. -0.001 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Tgt Ion:198	Resp:	947
Ion Ratio	Lower	Upper
198	100	
51	100.2	91.8
105	48.7	44.3





#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

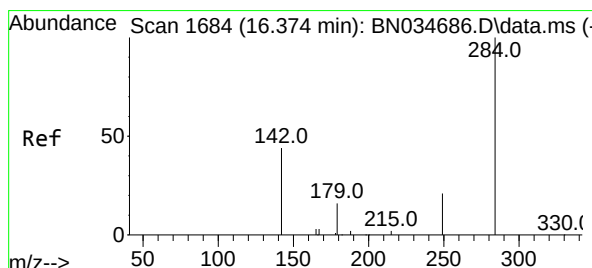
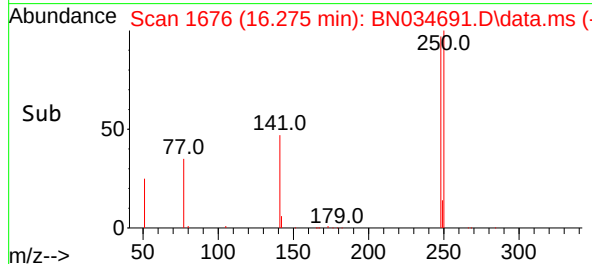
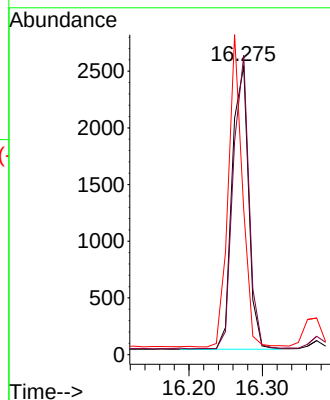
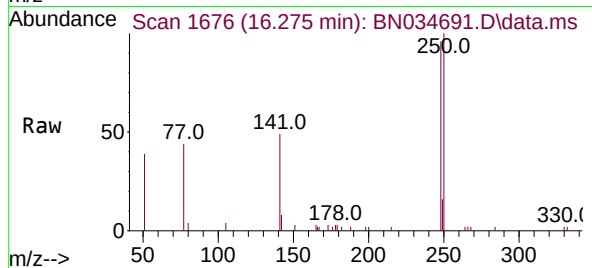
ClientSampleId :

ICVBN102424

Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.8	80.9	121.3
141	50.3	40.5	60.7

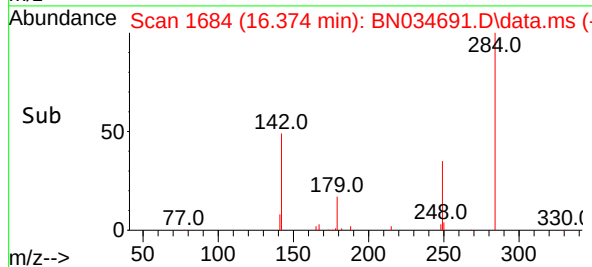
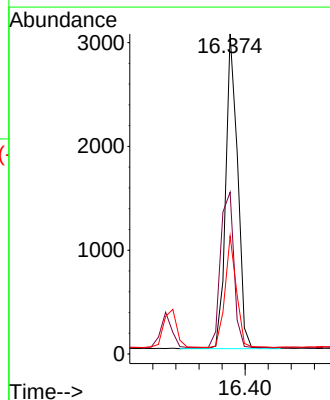
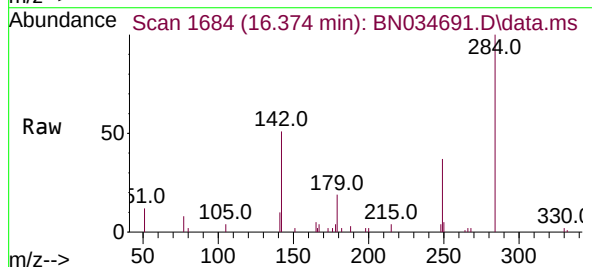
Manual Integrations
APPROVED

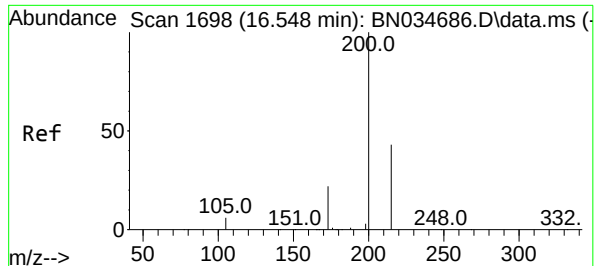
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#22
Hexachlorobenzene
Concen: 0.358 ng
RT: 16.374 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.6	43.6	65.4
249	34.2	26.6	40.0





#23

Atrazine

Concen: 0.333 ng

RT: 16.548 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

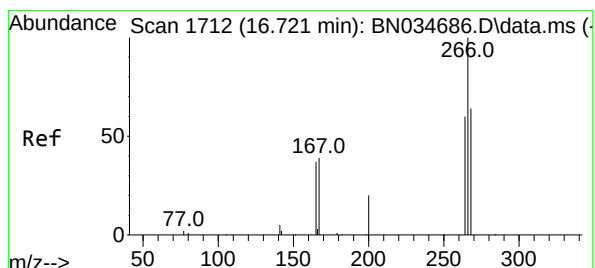
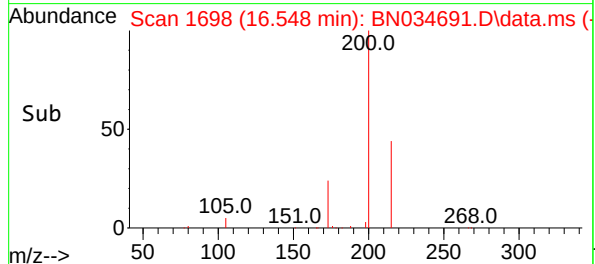
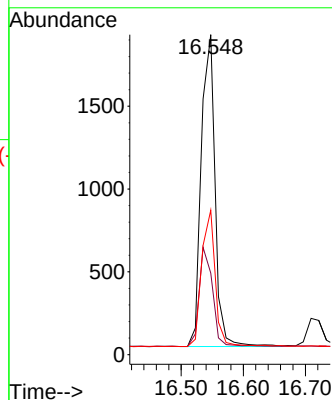
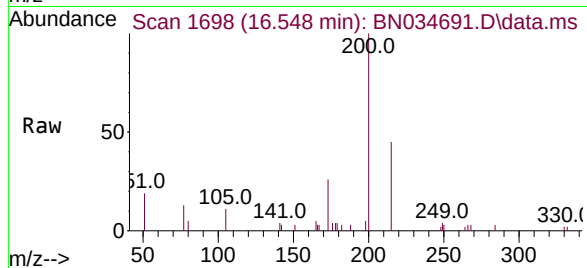
Tgt Ion:	200	Resp:	2928
Ion Ratio	Lower	Upper	
200	100		
173	25.5	19.7	29.5
215	45.1	35.7	53.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#24

Pentachlorophenol

Concen: 0.340 ng

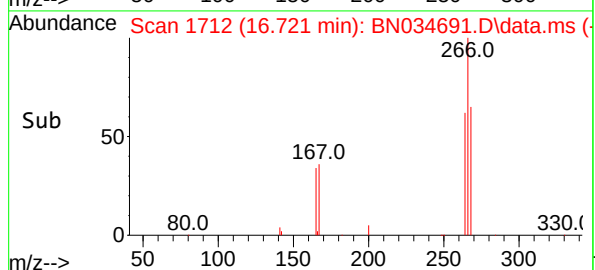
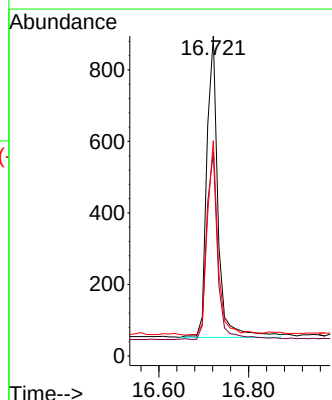
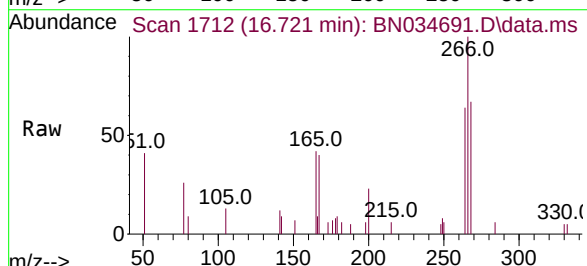
RT: 16.721 min Scan# 1712

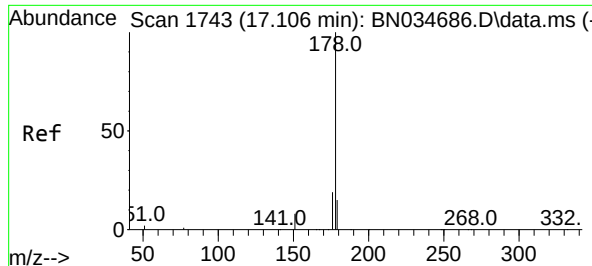
Delta R.T. 0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

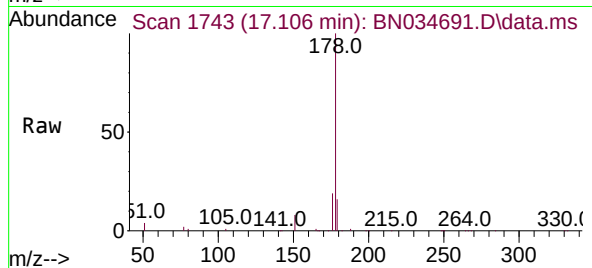
Tgt Ion:	266	Resp:	1463
Ion Ratio	Lower	Upper	
266	100		
264	61.6	49.4	74.2
268	61.0	50.5	75.7





#25
Phenanthrene
Concen: 0.357 ng
RT: 17.106 min Scan# 1743
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

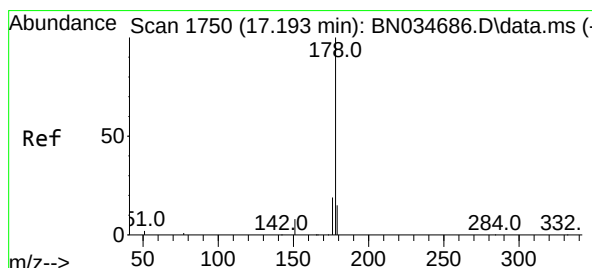
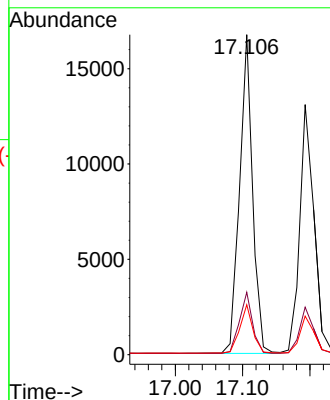
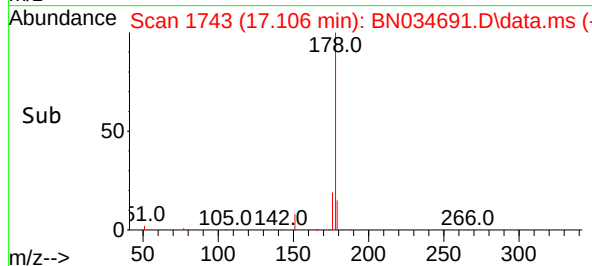
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion:178 Resp: 22550
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.2 18.4

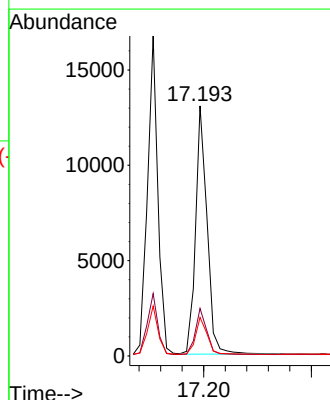
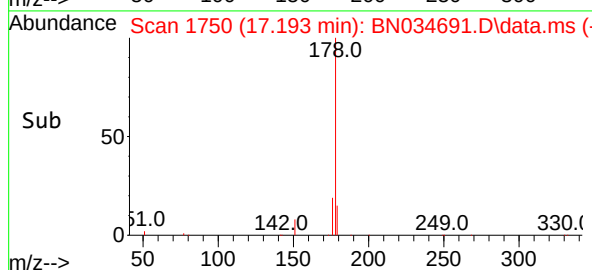
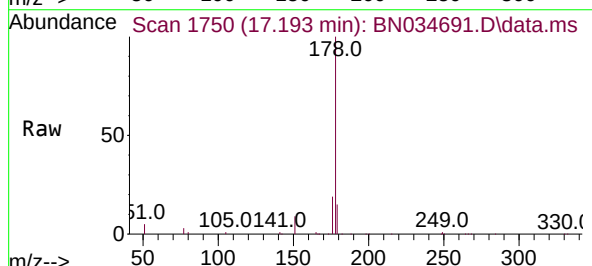
Manual Integrations
APPROVED

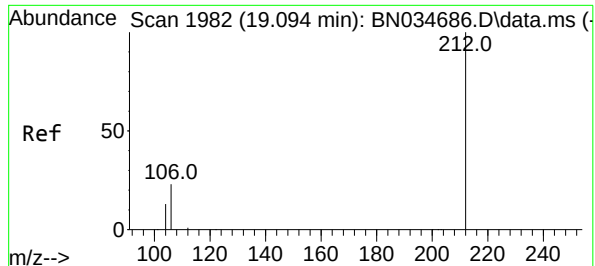
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#26
Anthracene
Concen: 0.345 ng
RT: 17.193 min Scan# 1750
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:178 Resp: 19340
Ion Ratio Lower Upper
178 100
176 18.5 14.9 22.3
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.350 ng

RT: 19.094 min Scan# 1982

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

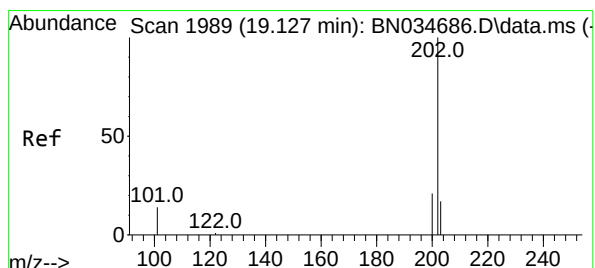
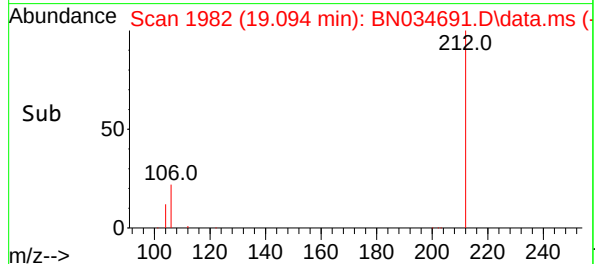
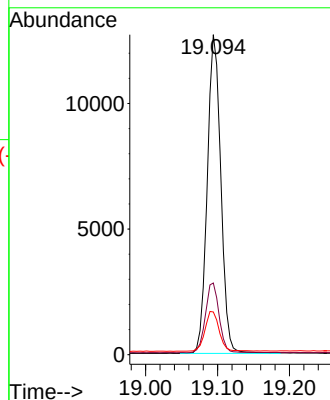
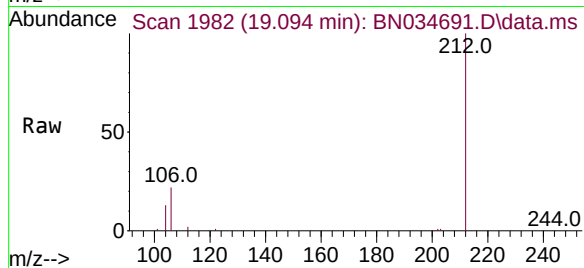
ICVBN102424

Tgt Ion:	212	Resp:	1656
Ion Ratio	Lower	Upper	
212	100		
106	22.2	17.8	26.8
104	13.1	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#28

Fluoranthene

Concen: 0.348 ng

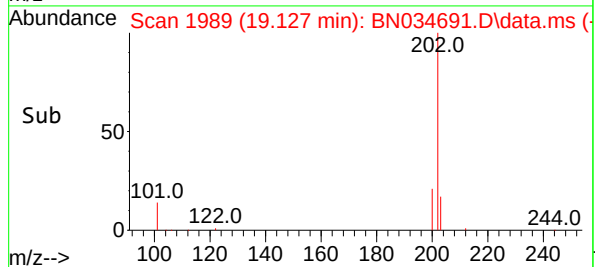
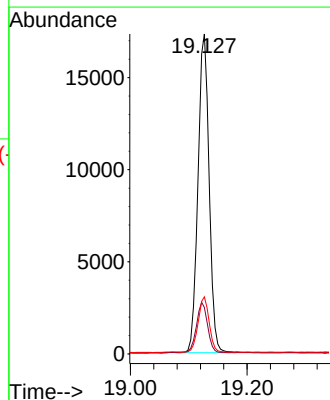
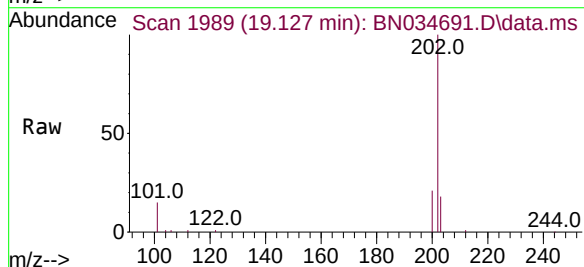
RT: 19.127 min Scan# 1989

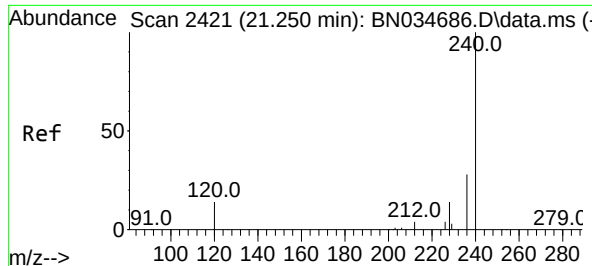
Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Tgt Ion:	202	Resp:	22945
Ion Ratio	Lower	Upper	
202	100		
101	16.0	12.8	19.2
203	17.1	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

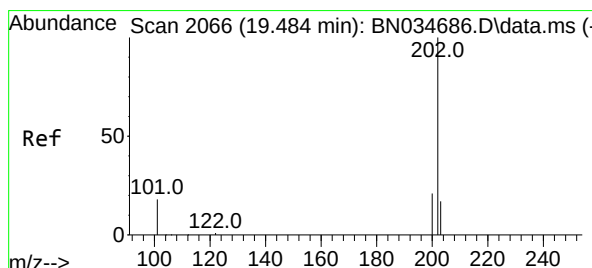
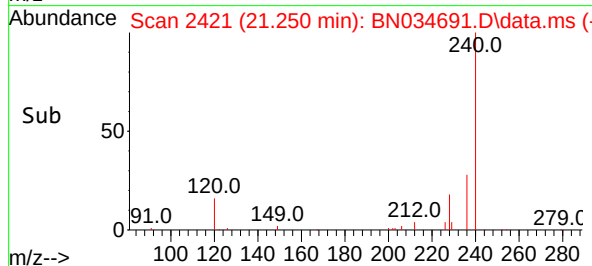
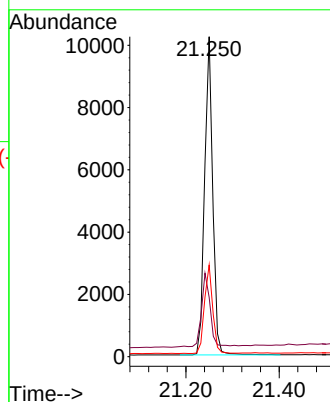
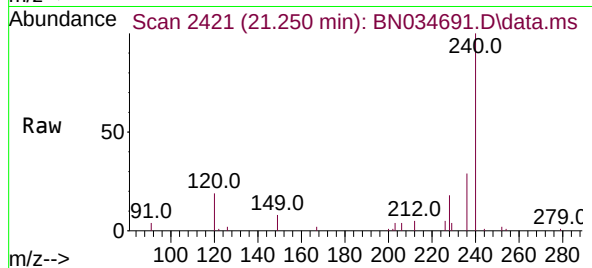
ClientSampleId :

ICVBN102424

Tgt Ion:	240	Resp:	1240
Ion Ratio	Lower	Upper	
240	100		
120	18.6	14.2	21.2
236	28.6	23.1	34.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#30

Pyrene

Concen: 0.366 ng

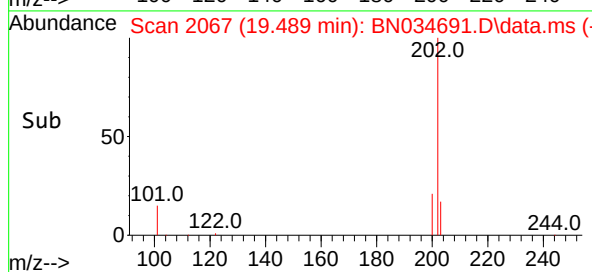
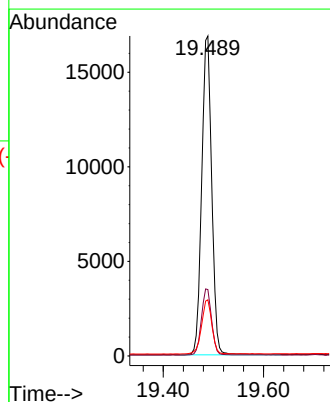
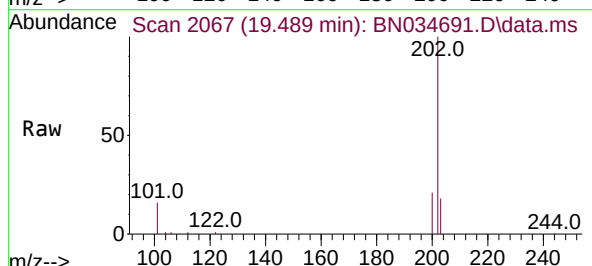
RT: 19.489 min Scan# 2067

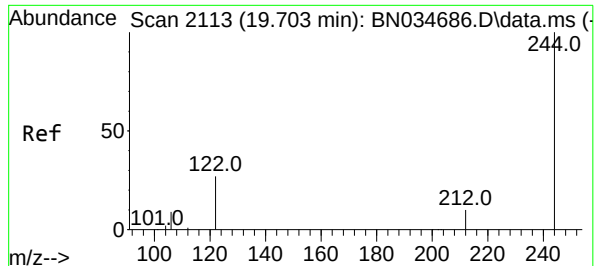
Delta R.T. 0.005 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

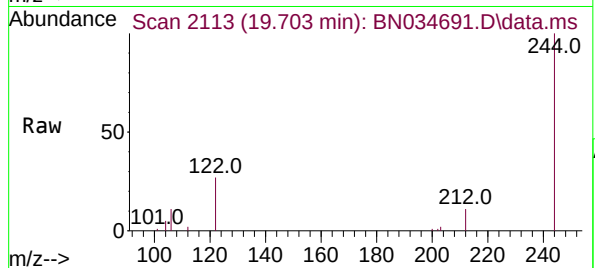
Tgt Ion:	202	Resp:	23297
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	25.0
203	17.7	14.2	21.4





#31
Terphenyl-d14
Concen: 0.371 ng
RT: 19.703 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

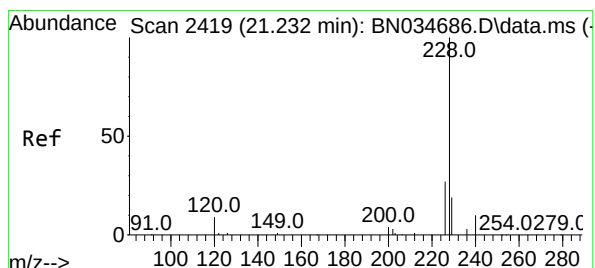
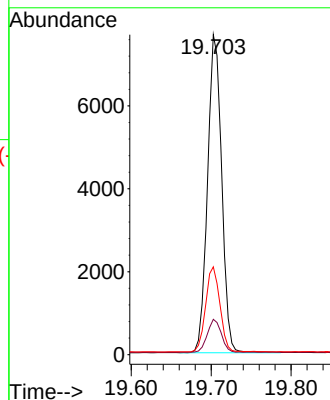
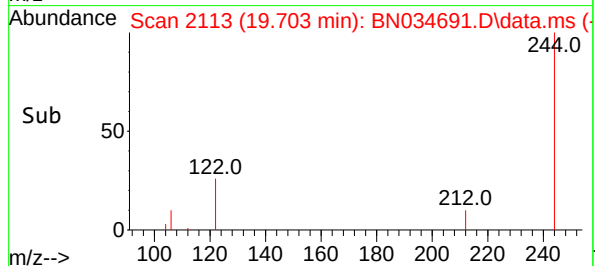
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion:244 Resp: 9400
Ion Ratio Lower Upper
244 100
212 11.1 8.6 13.0
122 27.4 22.3 33.5

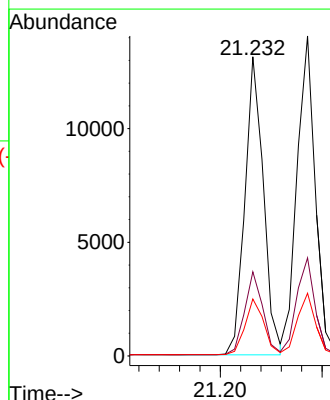
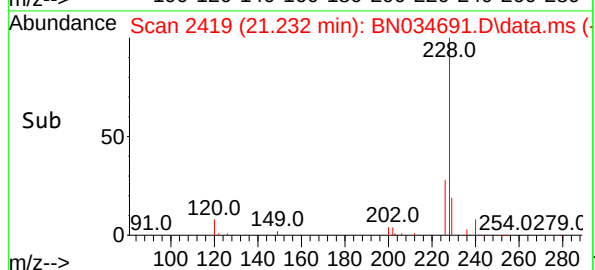
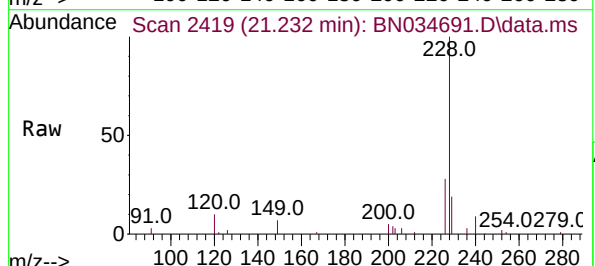
Manual Integrations
APPROVED

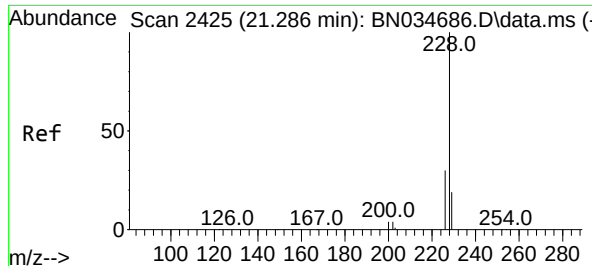
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#32
Benzo(a)anthracene
Concen: 0.349 ng
RT: 21.232 min Scan# 2419
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:228 Resp: 16543
Ion Ratio Lower Upper
228 100
226 28.1 22.0 33.0
229 19.1 15.6 23.4





#33

Chrysene

Concen: 0.361 ng

RT: 21.286 min Scan# 2425

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

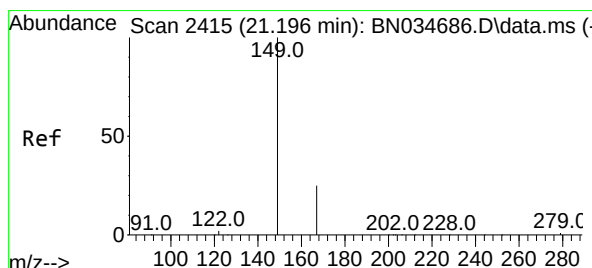
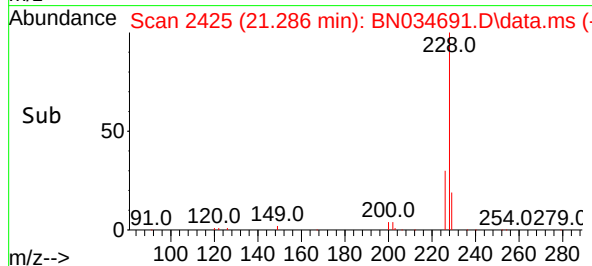
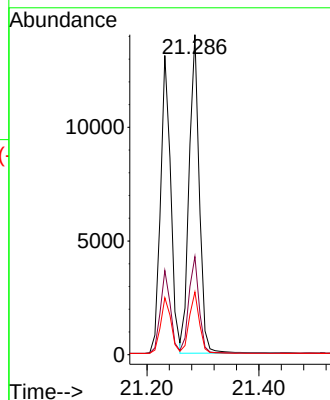
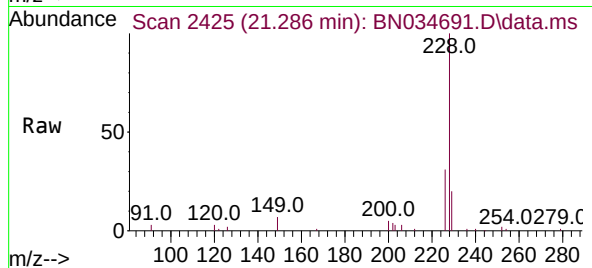
ICVBN102424

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	19.6	15.8	23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.322 ng m

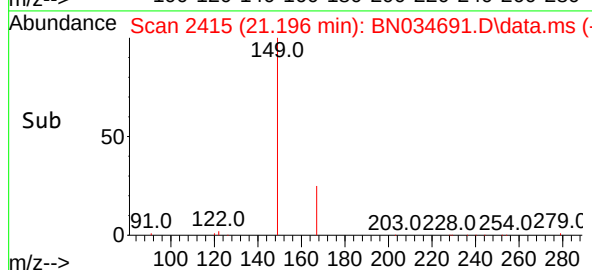
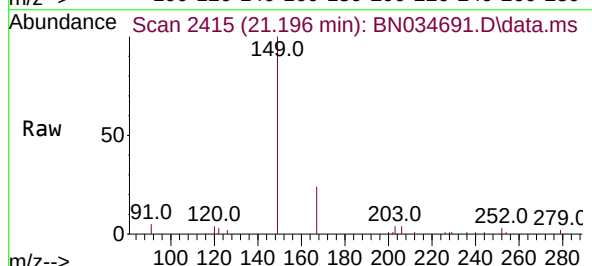
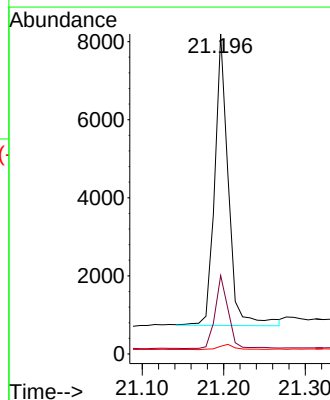
RT: 21.196 min Scan# 2415

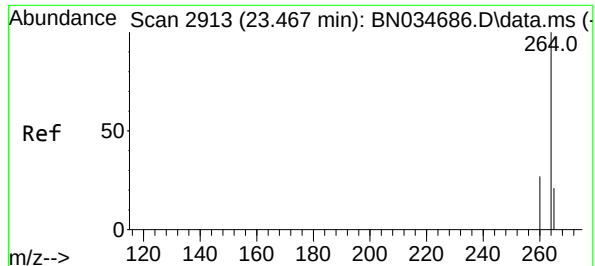
Delta R.T. 0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.9	19.7	29.5
279	2.2	1.8	2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.466 min Scan# 2913

Delta R.T. -0.000 min

Lab File: BN034691.D

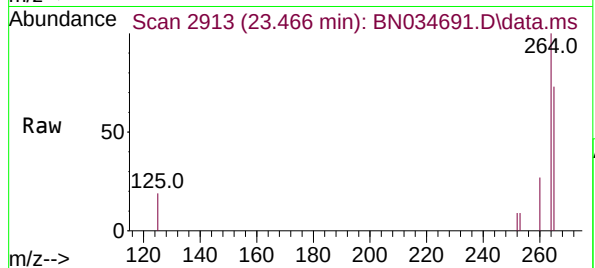
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

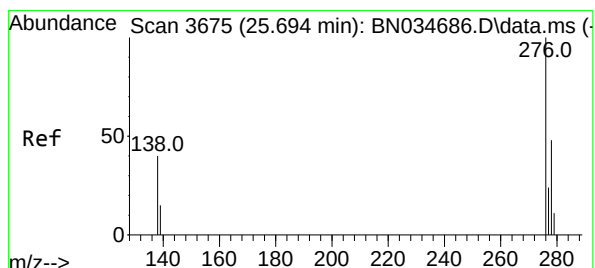
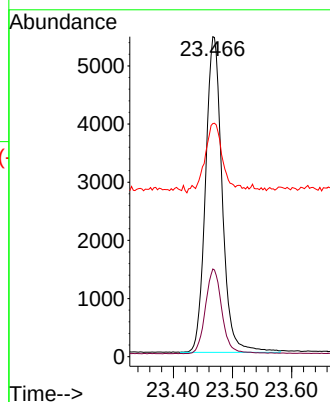
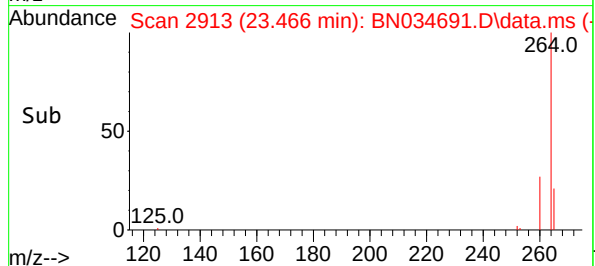


Tgt Ion:	264	Resp:	10594
Ion Ratio	Lower	Upper	
264	100		
260	27.4	21.9	32.9
265	72.9	60.6	91.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#36

Indeno(1,2,3-cd)pyrene

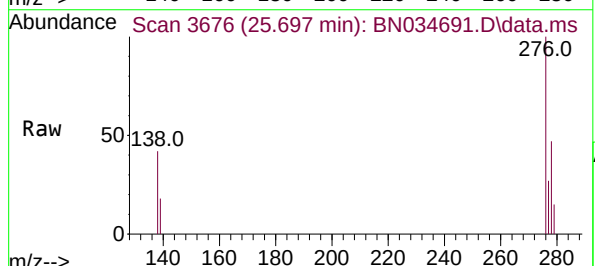
Concen: 0.347 ng

RT: 25.697 min Scan# 3676

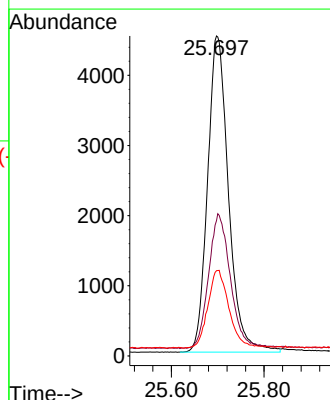
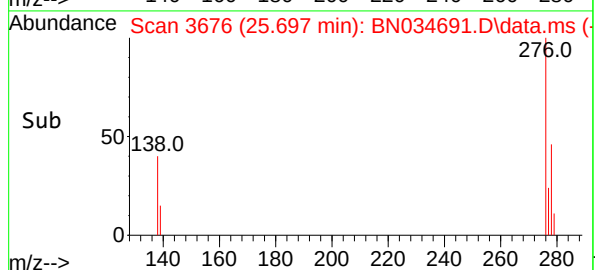
Delta R.T. 0.003 min

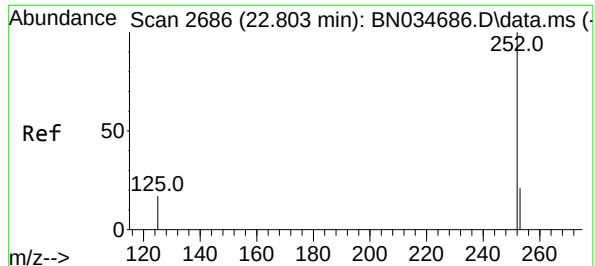
Lab File: BN034691.D

Acq: 24 Oct 2024 14:14



Tgt Ion:	276	Resp:	14157
Ion Ratio	Lower	Upper	
276	100		
138	43.9	35.1	52.7
277	25.2	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.363 ng

RT: 22.803 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

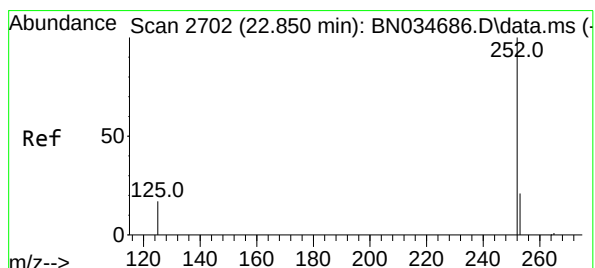
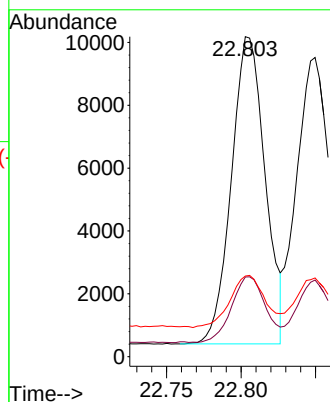
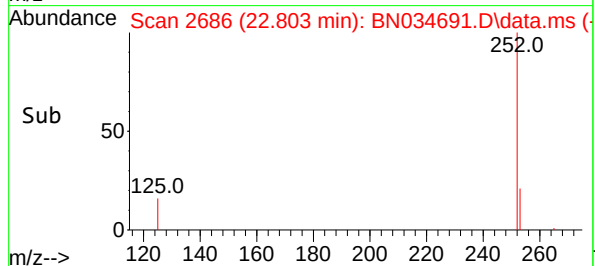
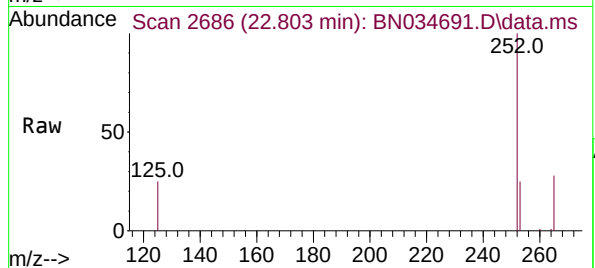
ICVBN102424

Tgt Ion:	252	Resp:	15350
Ion Ratio	Lower	Upper	
252	100		
253	24.9	20.0	30.0
125	25.2	20.9	31.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.353 ng

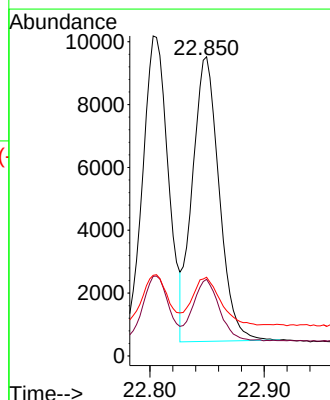
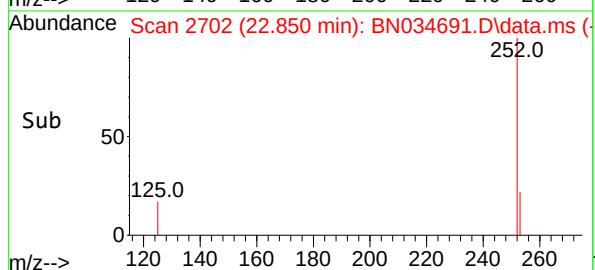
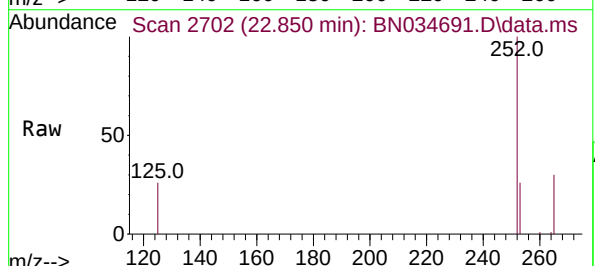
RT: 22.850 min Scan# 2702

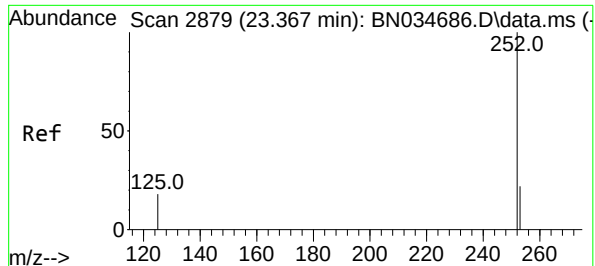
Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Tgt Ion:	252	Resp:	14742
Ion Ratio	Lower	Upper	
252	100		
253	25.6	20.6	31.0
125	26.3	21.6	32.4





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.373 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

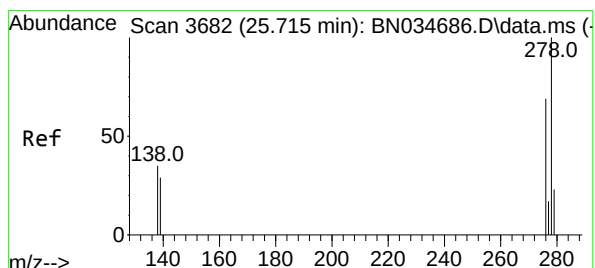
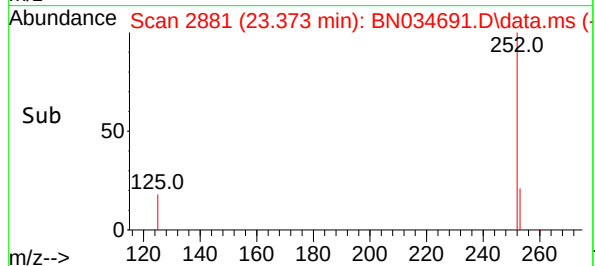
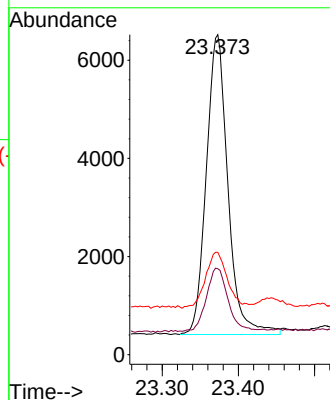
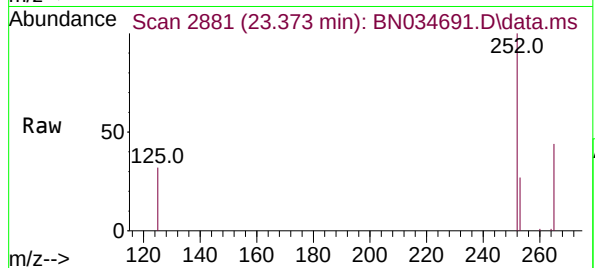
ICVBN102424

Tgt Ion:	252	Resp:	12054
Ion Ratio	Lower	Upper	
252	100		
253	26.9	22.2	33.4
125	32.0	26.0	39.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.346 ng

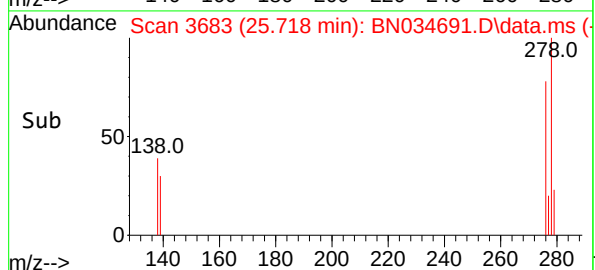
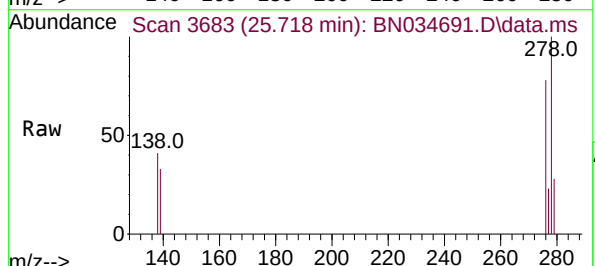
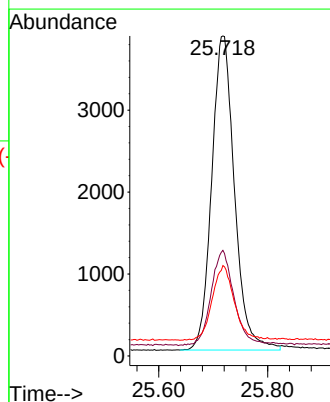
RT: 25.718 min Scan# 3683

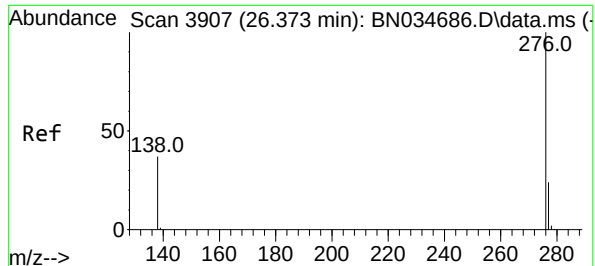
Delta R.T. 0.003 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Tgt Ion:	278	Resp:	11142
Ion Ratio	Lower	Upper	
278	100		
139	33.0	25.4	38.2
279	28.2	22.4	33.6





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.373 min Scan# 3907

Delta R.T. -0.000 min

Lab File: BN034691.D

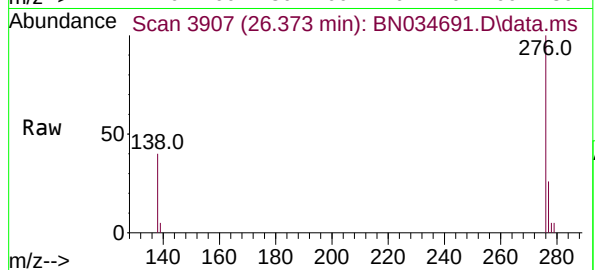
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424



Tgt Ion:276 Resp: 12570

Ion Ratio Lower Upper

276 100

277 25.5 21.3 31.9

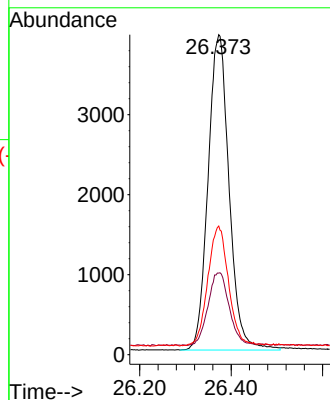
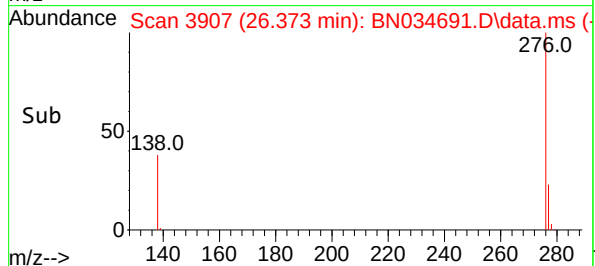
138 40.2 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034691.D
Acq On : 24 Oct 2024 14:14
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

Quant Time: Oct 24 14:43:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 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	106	0.00
2	1,4-Dioxane	0.532	0.473	11.1	103	0.00
3	n-Nitrosodimethylamine	0.775	0.686	11.5	103	0.00
4 S	2-Fluorophenol	1.189	1.193	-0.3	118	0.00
5 S	Phenol-d6	1.568	1.553	1.0	118	0.00
6	bis(2-Chloroethyl)ether	1.274	1.176	7.7	109	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.336	0.290	13.7	106	0.00
9	Naphthalene	1.107	0.991	10.5	108	0.00
10	Hexachlorobutadiene	0.166	0.149	10.2	107	0.00
11 SURR	2-Methylnaphthalene-d10	0.550	0.491	10.7	109	0.00
12	2-Methylnaphthalene	0.687	0.612	10.9	109	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.124	0.106	14.5	123	0.00
15 S	2-Fluorobiphenyl	1.590	1.353	14.9	109	0.00
16	Acenaphthylene	1.921	1.580	17.8	111	0.00
17	Acenaphthene	1.324	1.110	16.2	110	-0.01
18	Fluorene	1.634	1.406	14.0	113	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	116	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.045	19.6	122	0.00
21	4-Bromophenyl-phenylether	0.213	0.185	13.1	112	0.00
22	Hexachlorobenzene	0.231	0.207	10.4	113	0.00
23	Atrazine	0.168	0.139	17.3	115	0.00
24	Pentachlorophenol	0.082	0.070	14.6	126	0.00
25	Phenanthrene	1.202	1.073	10.7	116	0.00
26	Anthracene	1.067	0.920	13.8	114	0.00
27 SURR	Fluoranthene-d10	0.901	0.788	12.5	116	0.00
28	Fluoranthene	1.253	1.092	12.8	116	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	2.055	1.879	8.6	117	0.00
31 S	Terphenyl-d14	0.817	0.758	7.2	120	0.00
32	Benzo(a)anthracene	1.528	1.334	12.7	113	0.00
33	Chrysene	1.581	1.427	9.7	116	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	0.698	19.5	113	0.00
35 I	Perylene-d12	1.000	1.000	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.336	13.3	104	0.00
37	Benzo(b)fluoranthene	1.597	1.449	9.3	108	0.00
38	Benzo(k)fluoranthene	1.576	1.392	11.7	111	0.00
39 C	Benzo(a)pyrene	1.282	1.138	11.2	109	0.00
40	Dibenzo(a,h)anthracene	1.215	1.052	13.4	104	0.00
41	Benzo(g,h,i)perylene	1.340	1.187	11.4	104	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034691.D
Acq On : 24 Oct 2024 14:14
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

Quant Time: Oct 24 14:43:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 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	106	0.00
2	1,4-Dioxane	0.400	0.355	11.3	103	0.00
3	n-Nitrosodimethylamine	0.400	0.354	11.5	103	0.00
4 S	2-Fluorophenol	0.400	0.401	-0.3	118	0.00
5 S	Phenol-d6	0.400	0.396	1.0	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.369	7.8	109	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.346	13.5	106	0.00
9	Naphthalene	0.400	0.358	10.5	108	0.00
10	Hexachlorobutadiene	0.400	0.360	10.0	107	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	109	0.00
12	2-Methylnaphthalene	0.400	0.356	11.0	109	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.400	0.343	14.2	123	0.00
15 S	2-Fluorobiphenyl	0.400	0.341	14.8	109	0.00
16	Acenaphthylene	0.400	0.329	17.8	111	0.00
17	Acenaphthene	0.400	0.335	16.3	110	-0.01
18	Fluorene	0.400	0.344	14.0	113	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	116	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.324	19.0	122	0.00
21	4-Bromophenyl-phenylether	0.400	0.347	13.3	112	0.00
22	Hexachlorobenzene	0.400	0.358	10.5	113	0.00
23	Atrazine	0.400	0.333	16.8	115	0.00
24	Pentachlorophenol	0.400	0.340	15.0	126	0.00
25	Phenanthrene	0.400	0.357	10.8	116	0.00
26	Anthracene	0.400	0.345	13.8	114	0.00
27 SURR	Fluoranthene-d10	0.400	0.350	12.5	116	0.00
28	Fluoranthene	0.400	0.348	13.0	116	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.366	8.5	117	0.00
31 S	Terphenyl-d14	0.400	0.371	7.3	120	0.00
32	Benzo(a)anthracene	0.400	0.349	12.8	113	0.00
33	Chrysene	0.400	0.361	9.8	116	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	113	0.00
35 I	Perylene-d12	0.400	0.400	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.347	13.3	104	0.00
37	Benzo(b)fluoranthene	0.400	0.363	9.3	108	0.00
38	Benzo(k)fluoranthene	0.400	0.353	11.8	111	0.00
39 C	Benzo(a)pyrene	0.400	0.355	11.3	109	0.00
40	Dibenzo(a,h)anthracene	0.400	0.346	13.5	104	0.00
41	Benzo(g,h,i)perylene	0.400	0.354	11.5	104	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.: P4550 SAS No.: P4550 SDG No.: P4550

Instrument ID: BNA_N Calibration Date/Time: 10/25/2024 09:46

Lab File ID: BN034721.D Init. Calib. Date(s): 10/24/2024 10/24/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:11 12:48

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.550	0.491		-10.7	20.0
Fluoranthene-d10	0.901	0.834		-7.4	20.0
2-Fluorophenol	1.189	1.280		7.7	20.0
Phenol-d6	1.568	1.733		10.5	20.0
Nitrobenzene-d5	0.336	0.300		-10.7	20.0
2-Fluorobiphenyl	1.590	1.396		-12.2	20.0
2,4,6-Tribromophenol	0.124	0.119		-4.0	20.0
Terphenyl-d14	0.817	0.690		-15.5	20.0
1,4-Dioxane	0.532	0.460		-13.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034721.D
 Acq On : 25 Oct 2024 09:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 10:44:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 13:17:02 2024
 Response via : Initial Calibration

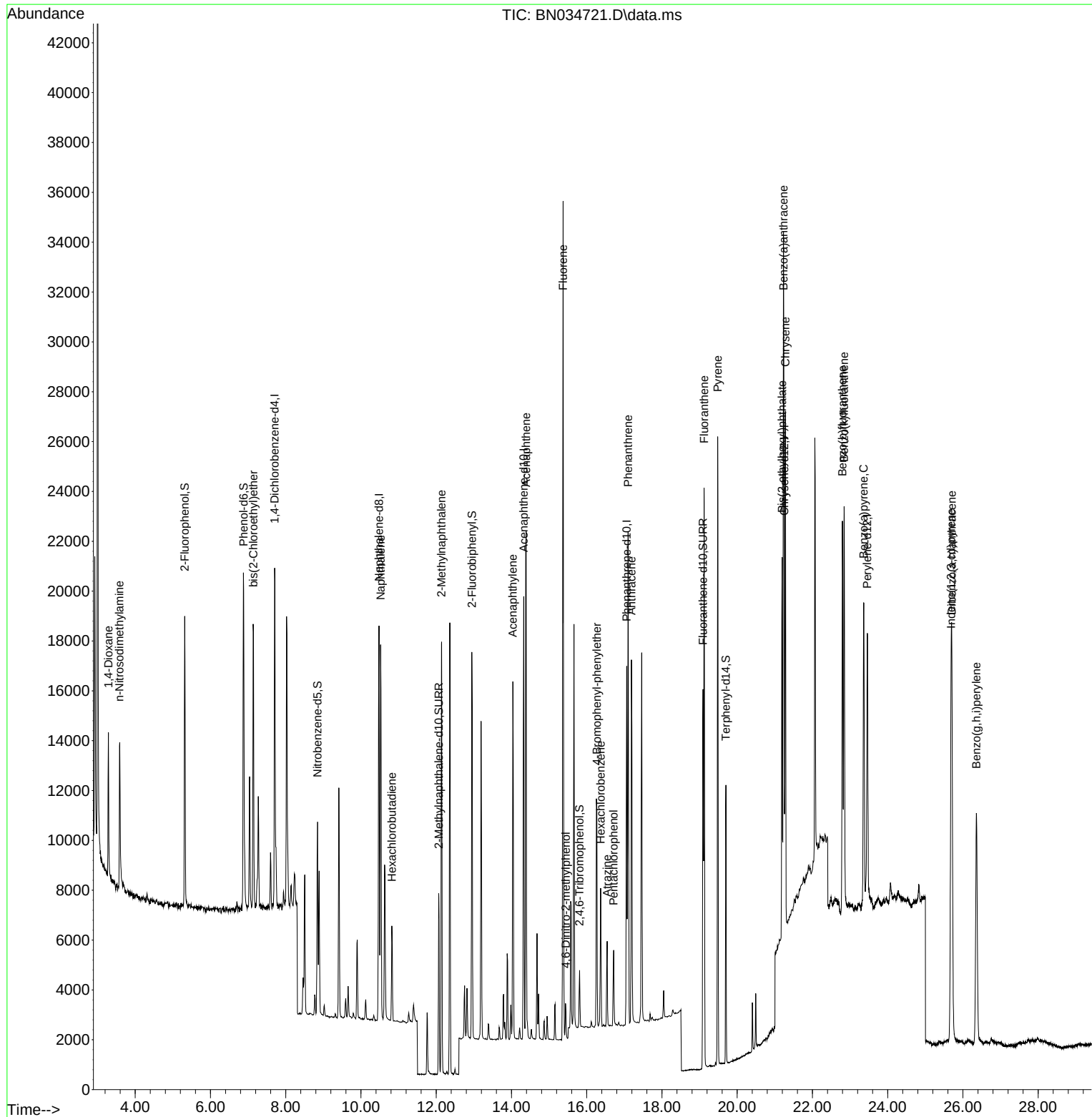
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	6565	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19566	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	9604	0.400	ng	0.00
19) Phenanthrene-d10	17.064	188	17577	0.400	ng	0.00
29) Chrysene-d12	21.248	240	13068	0.400	ng	0.00
35) Perylene-d12	23.459	264	14018	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.314	112	8404	0.431	ng	0.00
5) Phenol-d6	6.882	99	11379	0.442	ng	0.00
8) Nitrobenzene-d5	8.845	82	5869	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	12.067	152	9607	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	1142	0.384	ng	0.00
15) 2-Fluorobiphenyl	12.946	172	13407	0.351	ng	0.00
27) Fluoranthene-d10	19.092	212	14664	0.370	ng	0.00
31) Terphenyl-d14	19.700	244	9017	0.338	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	3018	0.345	ng	97
3) n-Nitrosodimethylamine	3.581	42	4242	0.334	ng	# 91
6) bis(2-Chloroethyl)ether	7.142	93	7827	0.374	ng	99
9) Naphthalene	10.522	128	19690	0.364	ng	99
10) Hexachlorobutadiene	10.821	225	2852	0.351	ng	# 99
12) 2-Methylnaphthalene	12.143	142	12083	0.360	ng	99
16) Acenaphthylene	14.037	152	15625	0.339	ng	99
17) Acenaphthene	14.389	154	10877	0.342	ng	99
18) Fluorene	15.373	166	12726	0.324	ng	99
20) 4,6-Dinitro-2-methylph...	15.448	198	824	0.337	ng	98
21) 4-Bromophenyl-phenylether	16.269	248	3420	0.365	ng	96
22) Hexachlorobenzene	16.368	284	3624	0.357	ng	98
23) Atrazine	16.542	200	2675	0.363	ng	98
24) Pentachlorophenol	16.716	266	1357	0.378	ng	98
25) Phenanthrene	17.101	178	19007	0.360	ng	100
26) Anthracene	17.188	178	16769	0.358	ng	100
28) Fluoranthene	19.120	202	20290	0.368	ng	99
30) Pyrene	19.482	202	21115	0.315	ng	99
32) Benzo(a)anthracene	21.230	228	18695	0.374	ng	99
33) Chrysene	21.283	228	18028	0.349	ng	99
34) Bis(2-ethylhexyl)phtha...	21.194	149	15075	0.532	ng	100
36) Indeno(1,2,3-cd)pyrene	25.683	276	19938	0.369	ng	99
37) Benzo(b)fluoranthene	22.798	252	18466	0.330	ng	# 86
38) Benzo(k)fluoranthene	22.842	252	17979	0.326	ng	# 84
39) Benzo(a)pyrene	23.362	252	16295	0.363	ng	# 83
40) Dibenzo(a,h)anthracene	25.707	278	15708	0.369	ng	# 84
41) Benzo(g,h,i)perylene	26.359	276	17122	0.365	ng	92

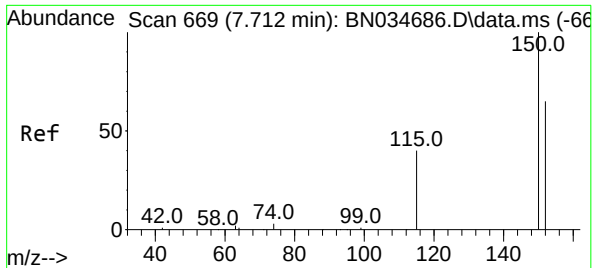
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034721.D
Acq On : 25 Oct 2024 09:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 25 10:44:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration

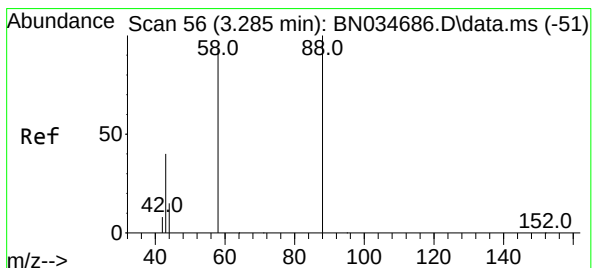
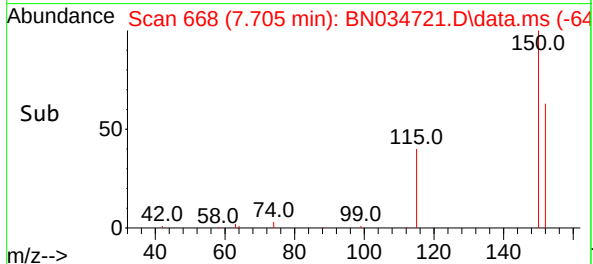
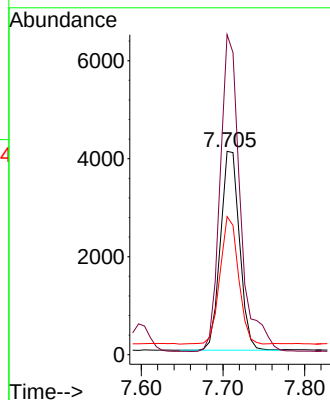
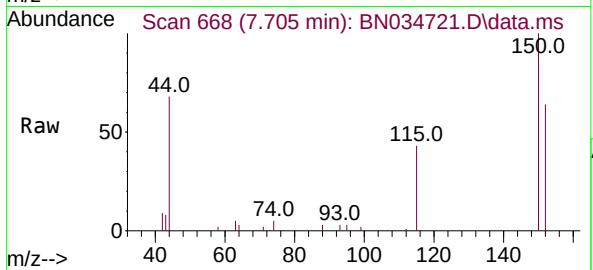




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.705 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

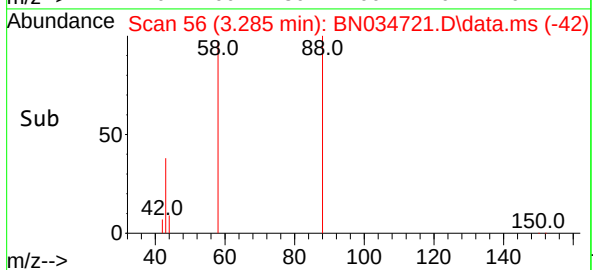
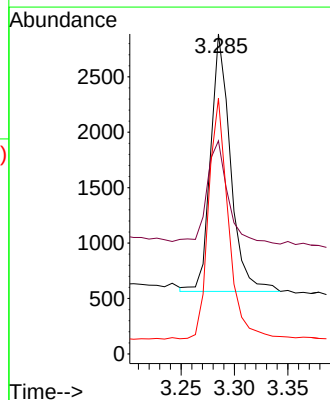
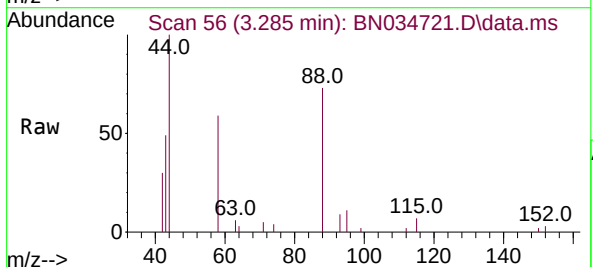
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6565
Ion Ratio Lower Upper
152 100
150 157.4 122.7 184.1
115 67.9 51.0 76.6

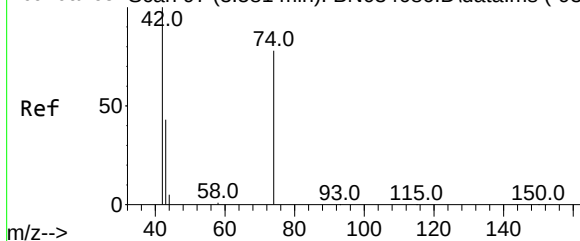


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion: 88 Resp: 3018
Ion Ratio Lower Upper
88 100
43 42.9 32.1 48.1
58 94.3 73.7 110.5



Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



#3

n-Nitrosodimethylamine

Concen: 0.334 ng

RT: 3.581 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

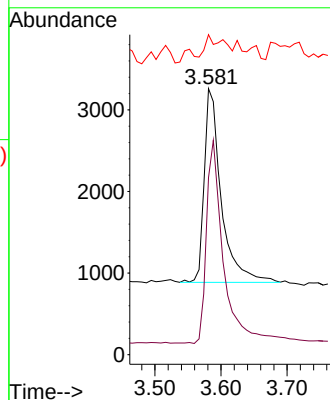
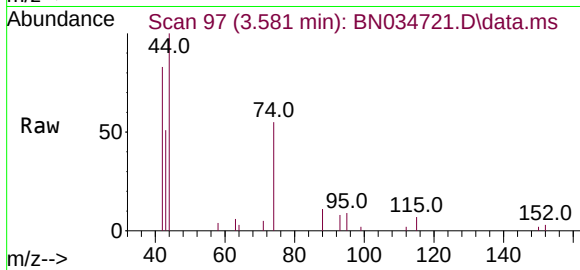
Tgt Ion: 42 Resp: 4242

Ion Ratio Lower Upper

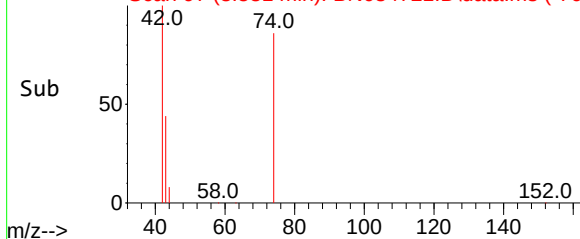
42 100

74 104.9 77.2 115.8

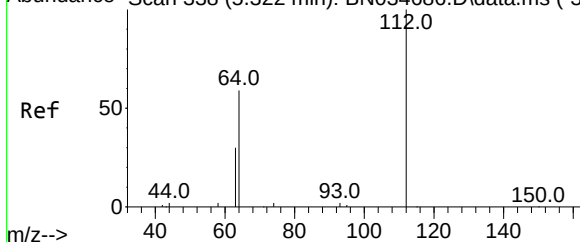
44 11.5 13.4 20.2#



Abundance Scan 97 (3.581 min): BN034721.D\data.ms (-76)



Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



#4

2-Fluorophenol

Concen: 0.431 ng

RT: 5.314 min Scan# 337

Delta R.T. -0.007 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

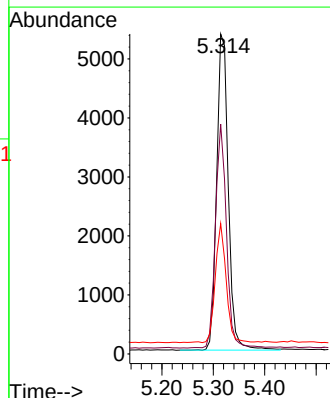
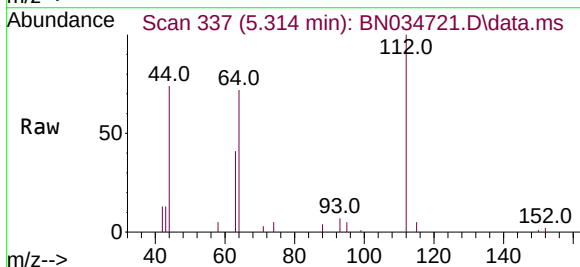
Tgt Ion: 112 Resp: 8404

Ion Ratio Lower Upper

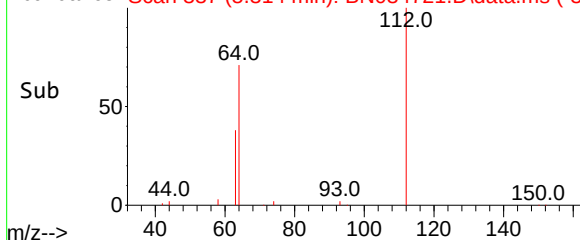
112 100

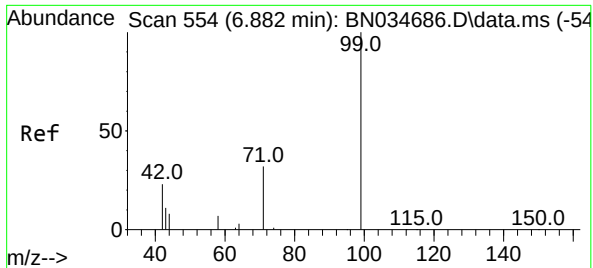
64 67.2 53.0 79.6

63 34.9 27.6 41.4



Abundance Scan 337 (5.314 min): BN034721.D\data.ms (-31)

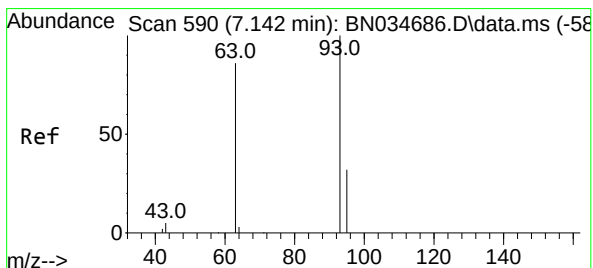
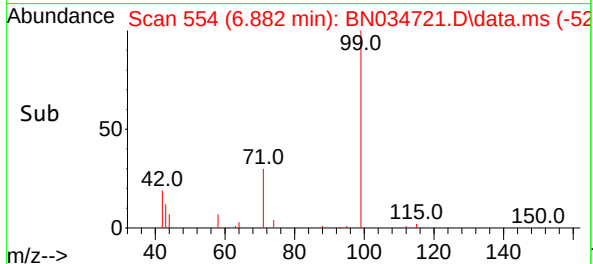
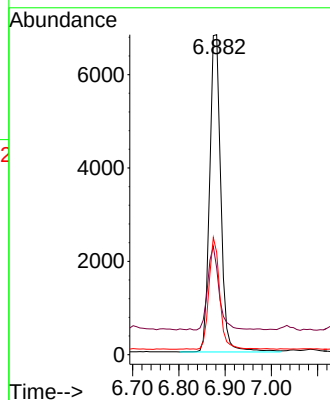
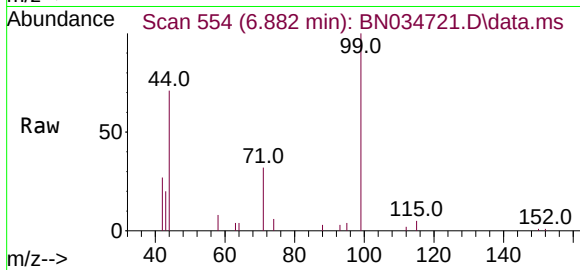




#5
Phenol-d6
Concen: 0.442 ng
RT: 6.882 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

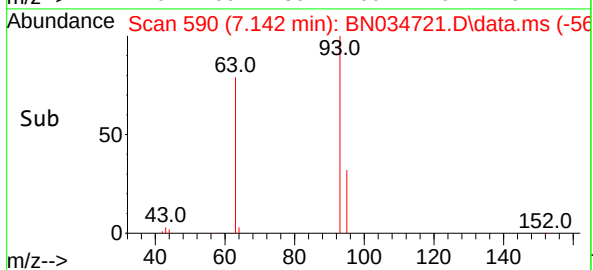
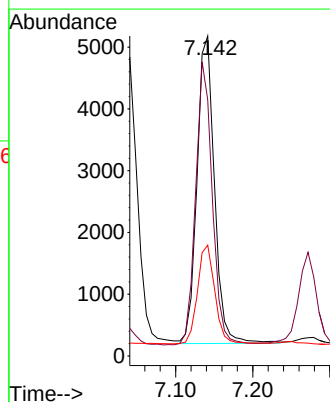
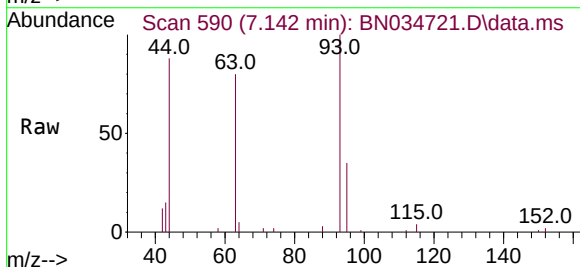
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

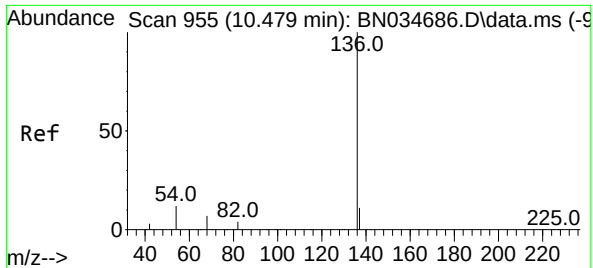
Tgt Ion: 99 Resp: 11379
Ion Ratio Lower Upper
99 100
42 26.5 21.8 32.8
71 33.6 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion: 93 Resp: 7827
Ion Ratio Lower Upper
93 100
63 88.1 71.5 107.3
95 32.2 25.8 38.6

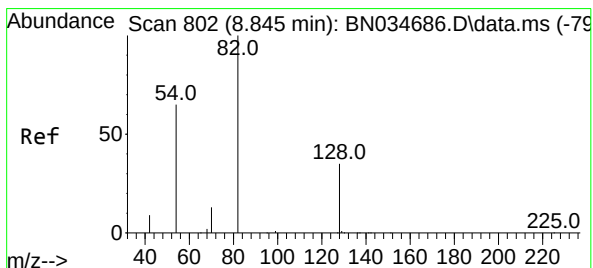
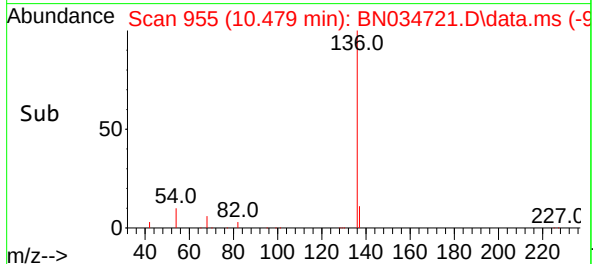
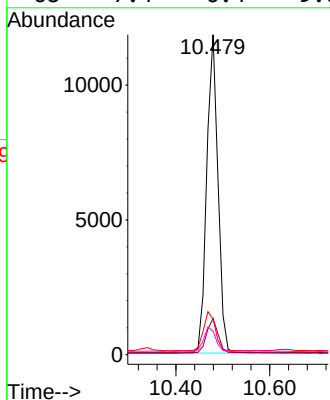
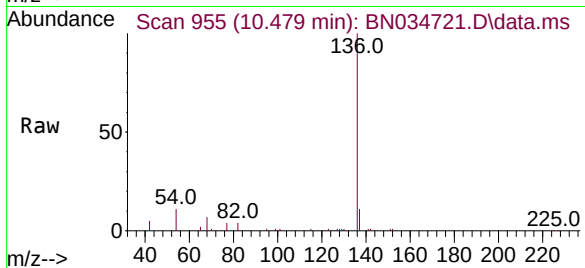




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

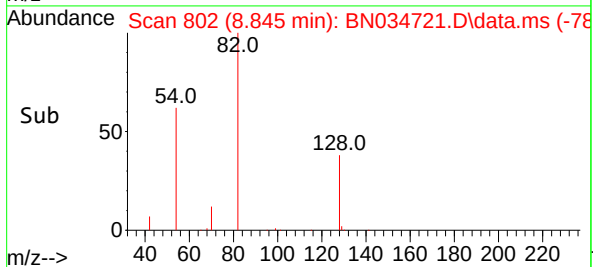
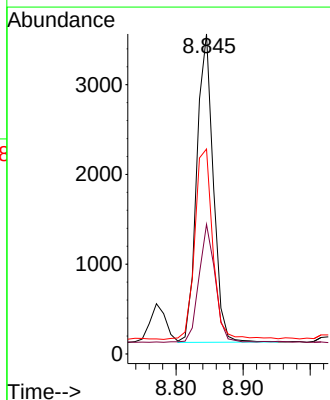
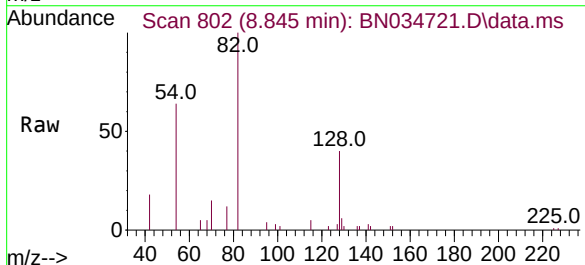
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

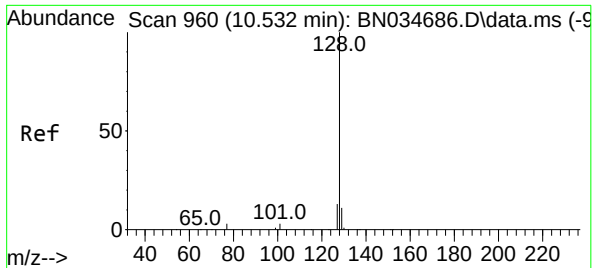
Tgt Ion:	136	Resp:	19566
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	11.0	9.8	14.8
68	7.4	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:	82	Resp:	5869
Ion	Ratio	Lower	Upper
82	100		
128	40.5	29.7	44.5
54	64.0	53.0	79.6

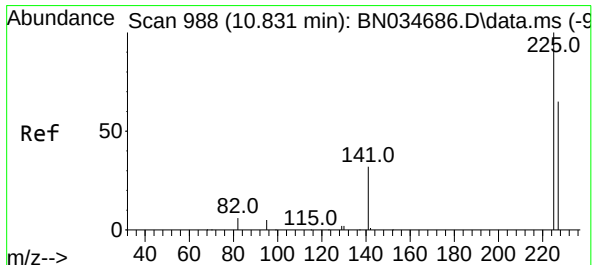
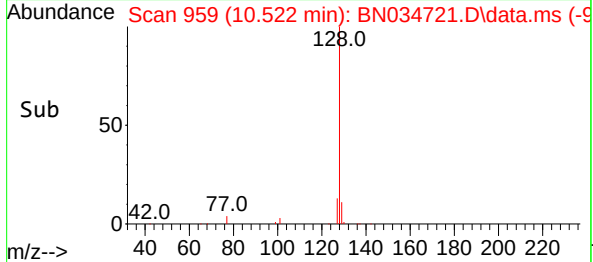
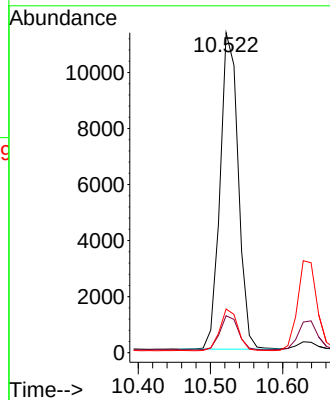
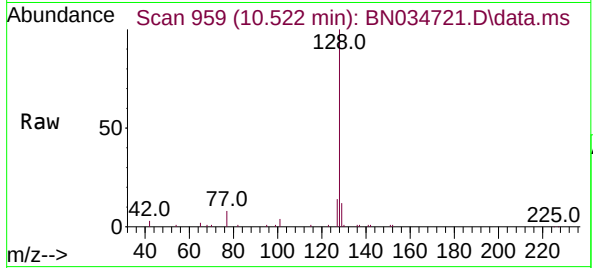




#9
Naphthalene
Concen: 0.364 ng
RT: 10.522 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

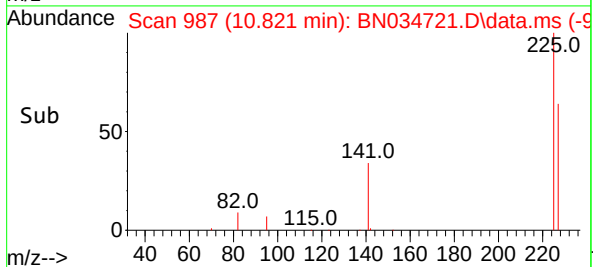
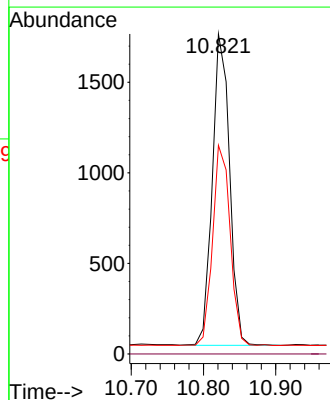
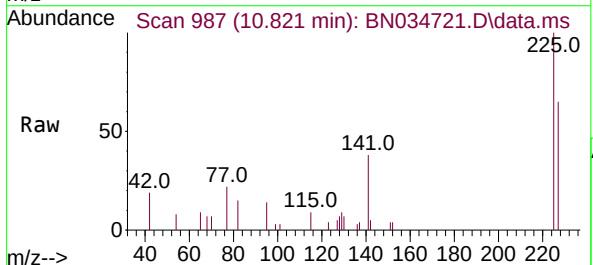
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

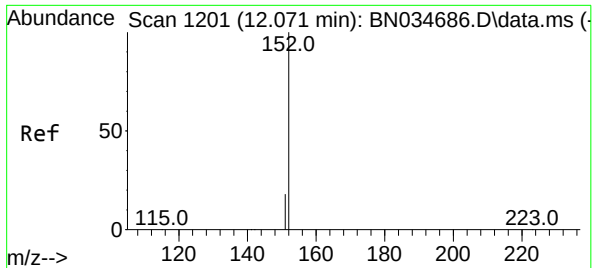
Tgt Ion:128 Resp: 19690
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 13.7 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.821 min Scan# 987
Delta R.T. -0.011 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:225 Resp: 2852
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.4 77.0

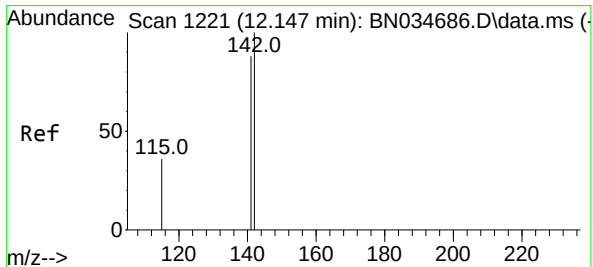
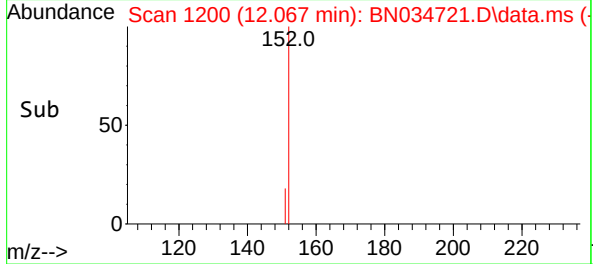
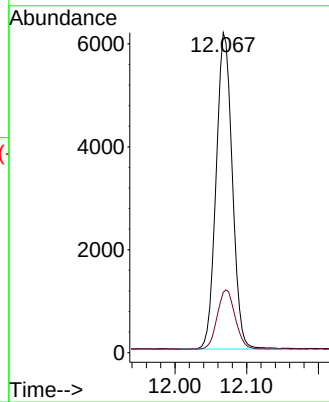
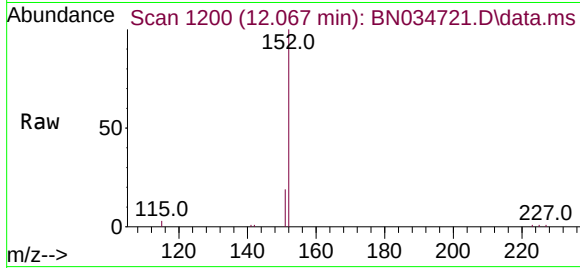




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.067 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

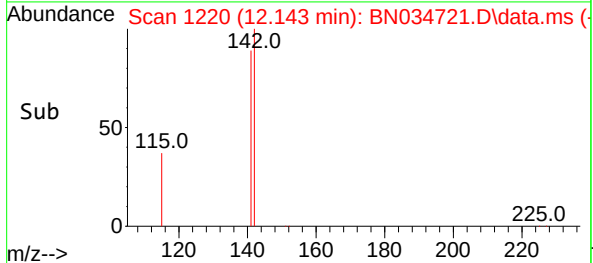
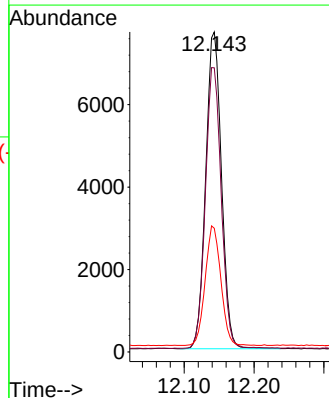
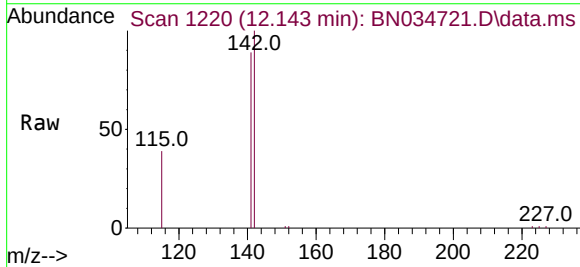
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

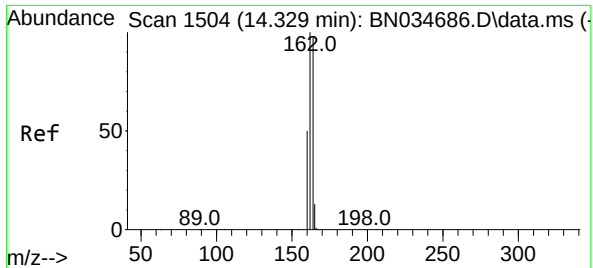
Tgt Ion:152 Resp: 9607
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.360 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:142 Resp: 12083
Ion Ratio Lower Upper
142 100
141 88.8 70.4 105.6
115 38.7 29.8 44.6

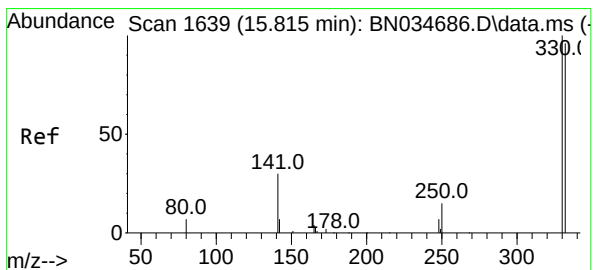
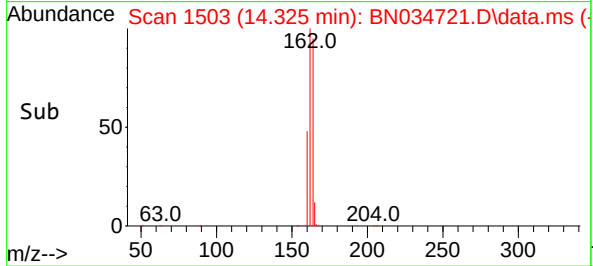
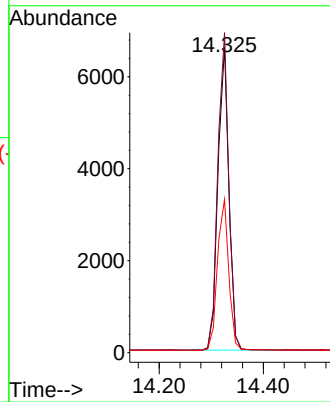
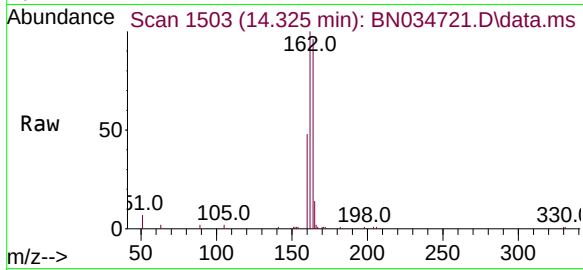




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1504
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

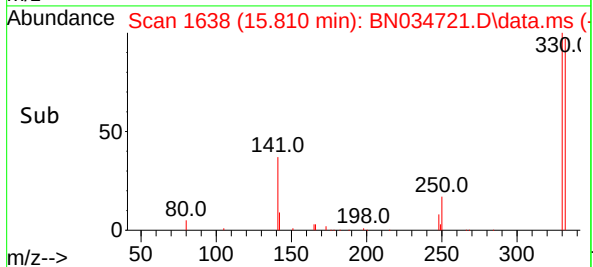
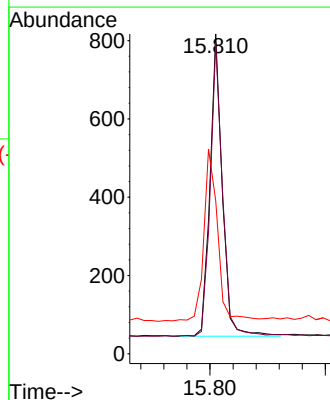
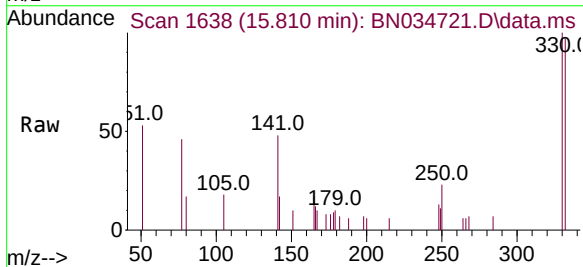
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

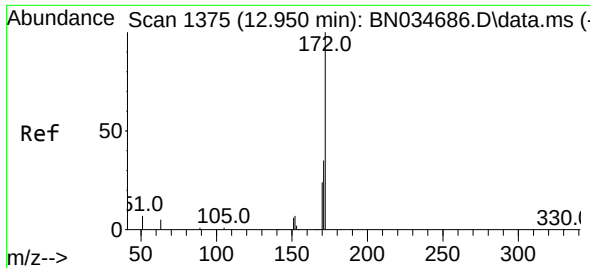
Tgt Ion:164 Resp: 9604
Ion Ratio Lower Upper
164 100
162 104.7 81.4 122.0
160 50.2 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:330 Resp: 1142
Ion Ratio Lower Upper
330 100
332 97.1 76.6 115.0
141 63.8 54.6 81.8

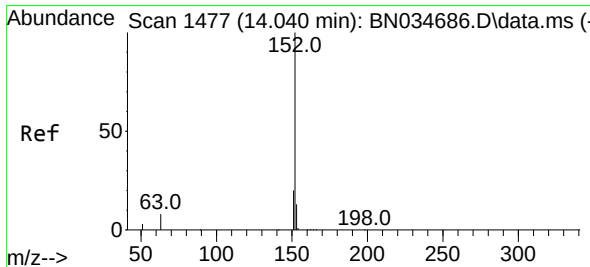
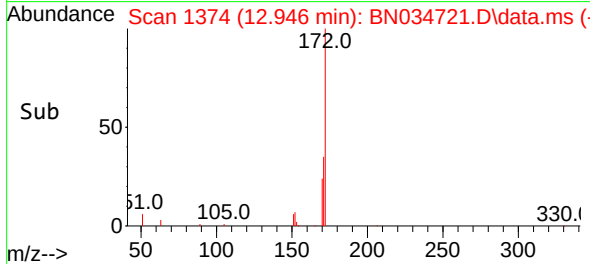
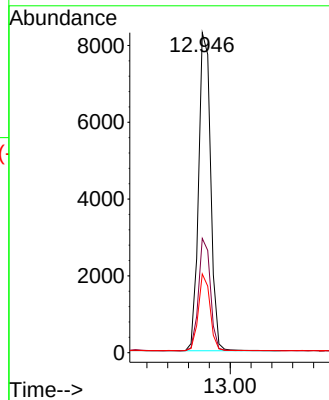
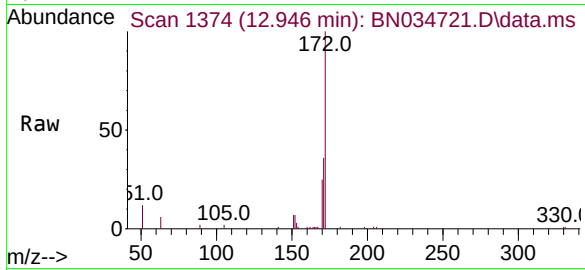




#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.946 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

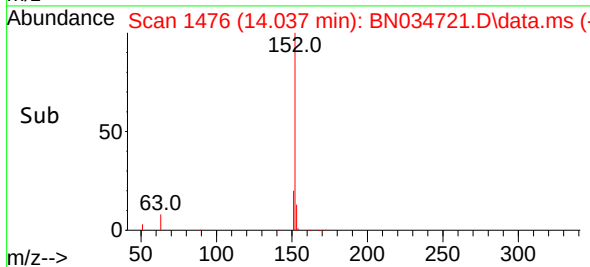
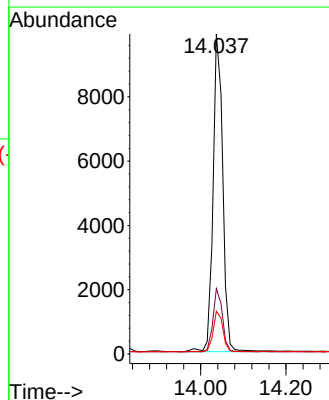
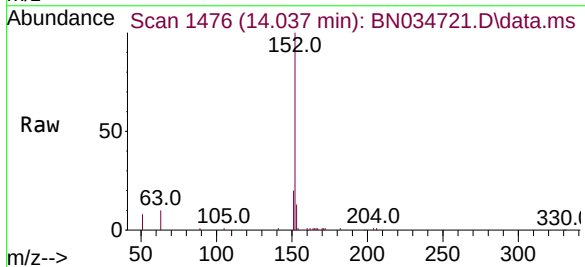
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

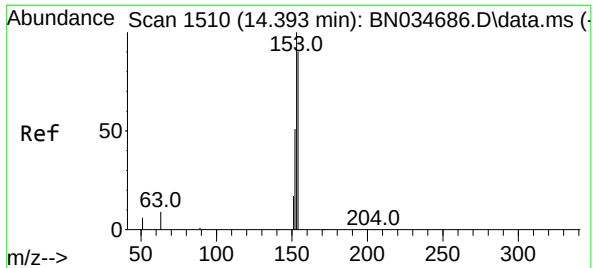
Tgt Ion:	172	Resp:	13407
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.3	42.5
170	24.6	19.8	29.6



#16
Acenaphthylene
Concen: 0.339 ng
RT: 14.037 min Scan# 1476
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:	152	Resp:	15625
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.6	23.4
153	12.8	10.6	15.8

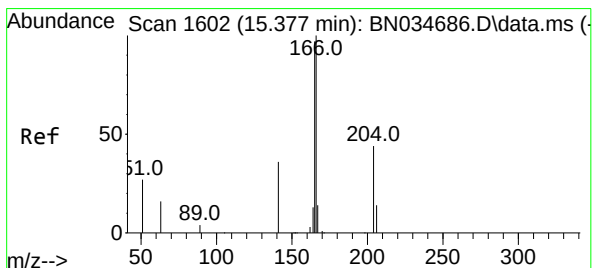
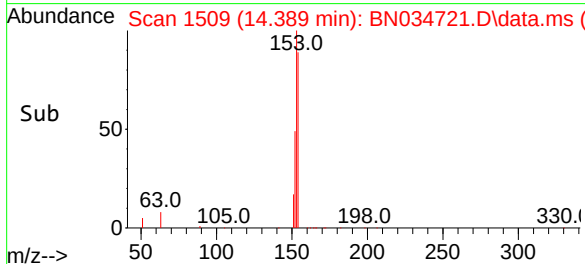
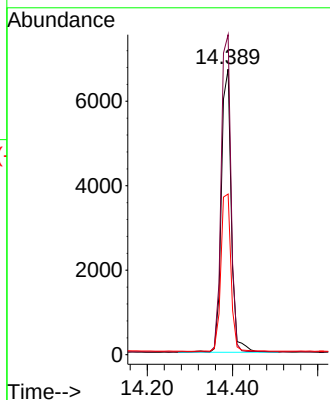
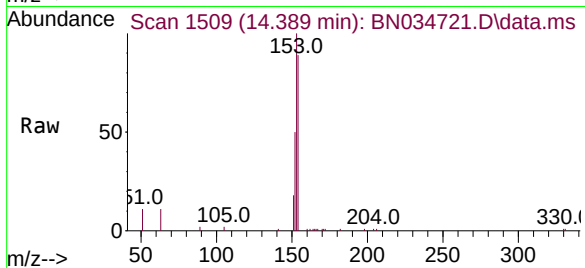




#17
Acenaphthene
Concen: 0.342 ng
RT: 14.389 min Scan# 1509
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

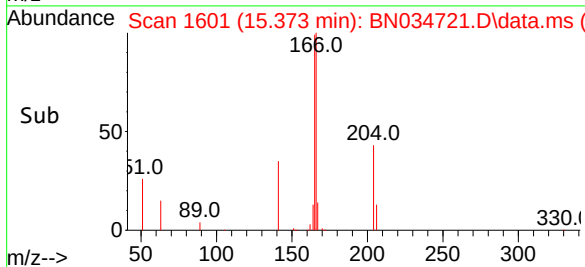
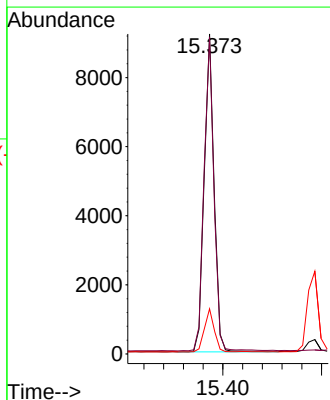
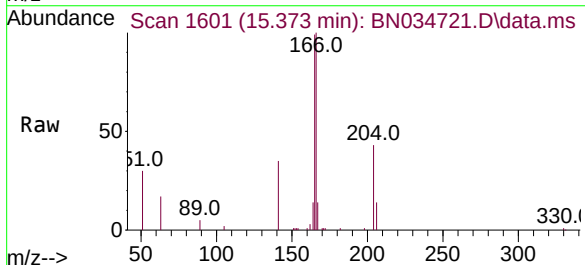
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

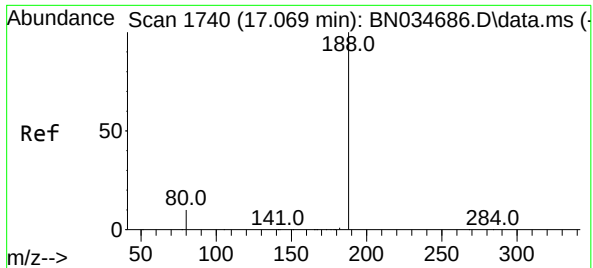
Tgt Ion:154 Resp: 10877
Ion Ratio Lower Upper
154 100
153 110.3 88.2 132.2
152 56.4 46.9 70.3



#18
Fluorene
Concen: 0.324 ng
RT: 15.373 min Scan# 1601
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:166 Resp: 12726
Ion Ratio Lower Upper
166 100
165 99.3 78.8 118.2
167 13.5 10.6 16.0

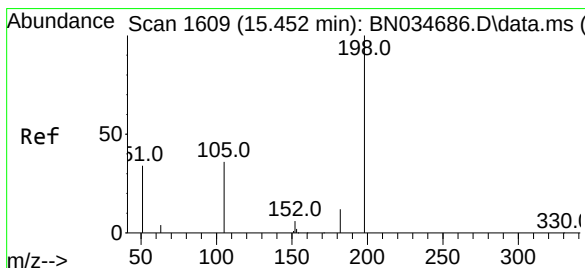
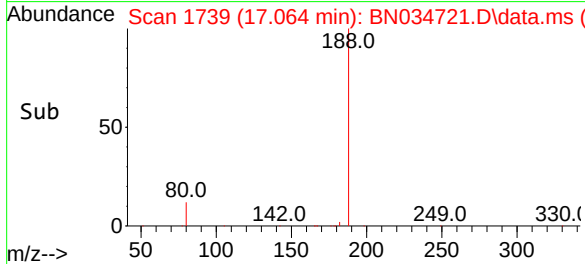
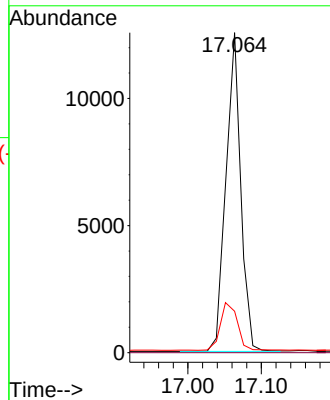
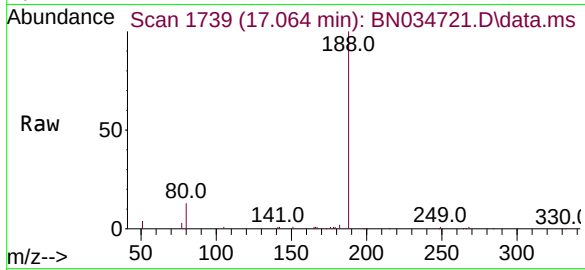




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.064 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

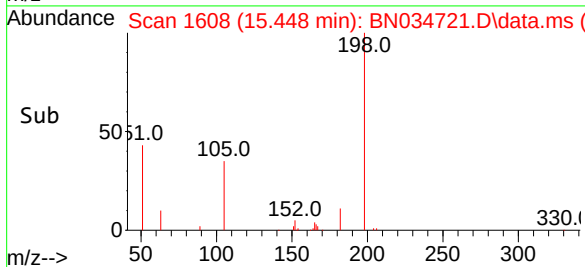
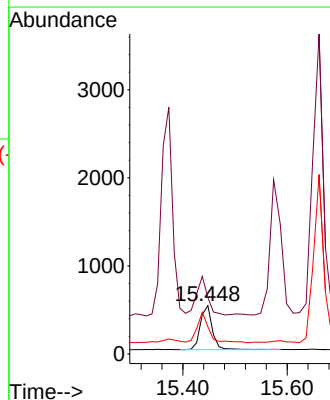
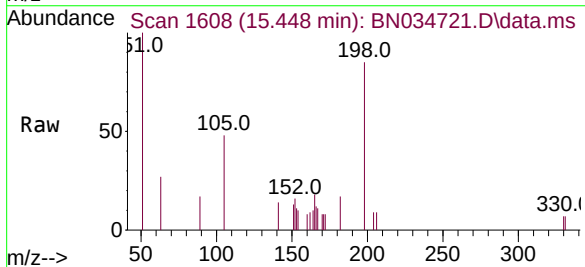
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

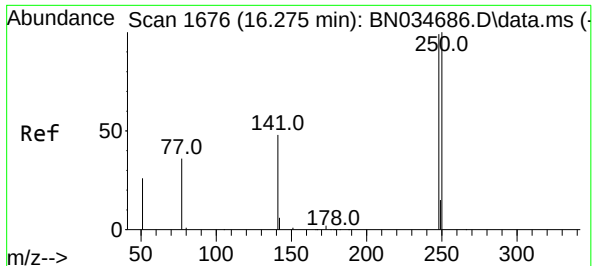
Tgt Ion:188	Resp:	17577
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.9	8.9 13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.337 ng
RT: 15.448 min Scan# 1608
Delta R.T. -0.004 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:198	Resp:	824
Ion Ratio	Lower	Upper
198	100	
51	117.2	91.8 137.8
105	56.4	44.3 66.5

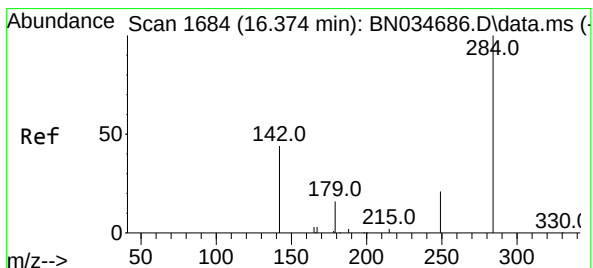
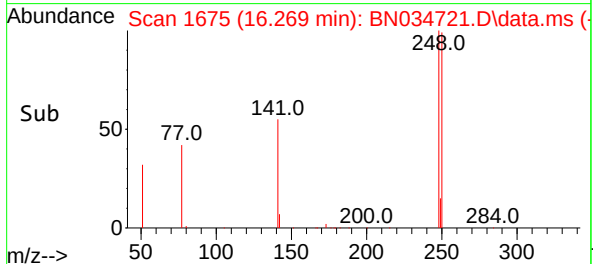
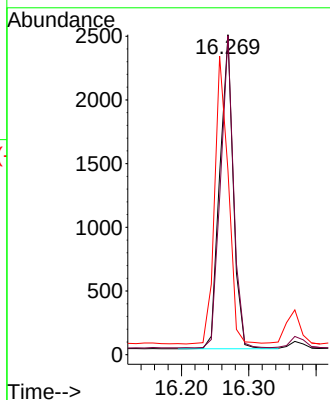
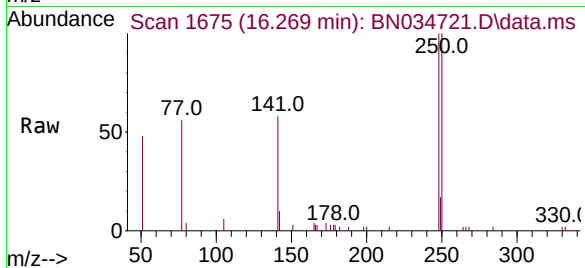




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

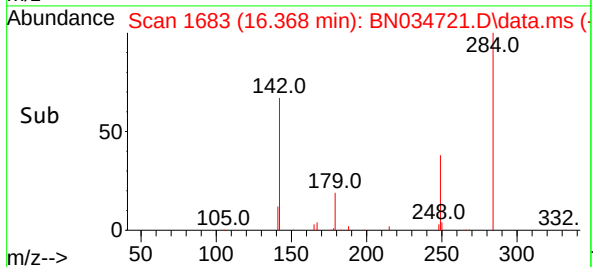
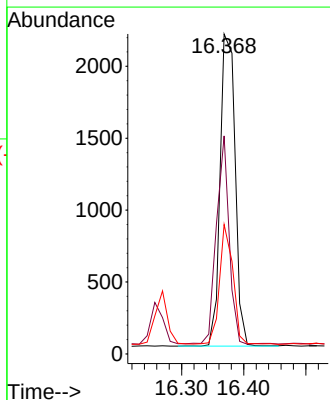
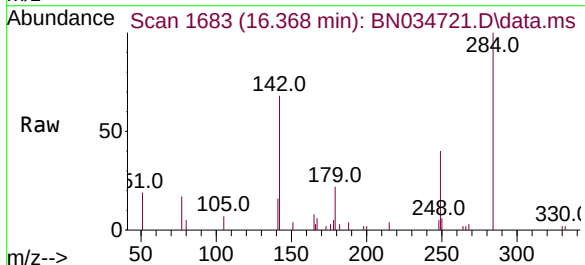
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

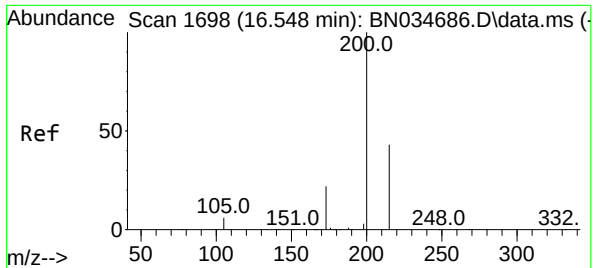
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.7	80.9	121.3
141	57.6	40.5	60.7



#22
Hexachlorobenzene
Concen: 0.357 ng
RT: 16.368 min Scan# 1683
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.3	43.6	65.4
249	34.7	26.6	40.0

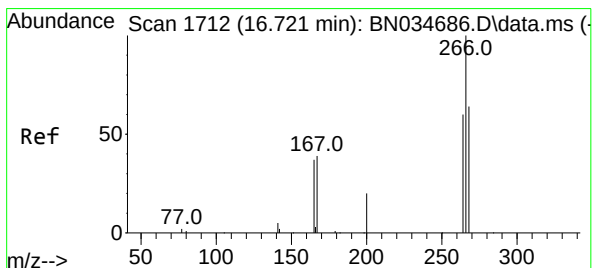
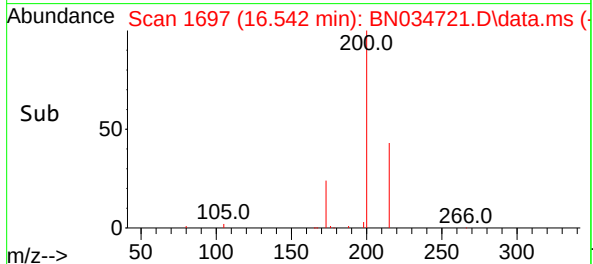
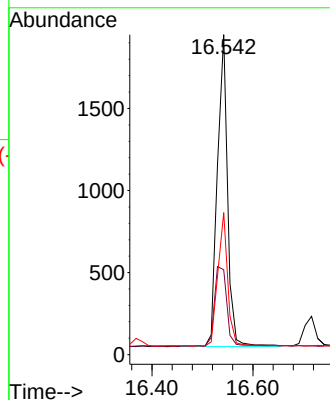
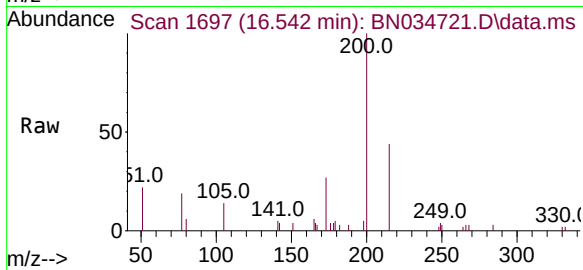




#23
Atrazine
Concen: 0.363 ng
RT: 16.542 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

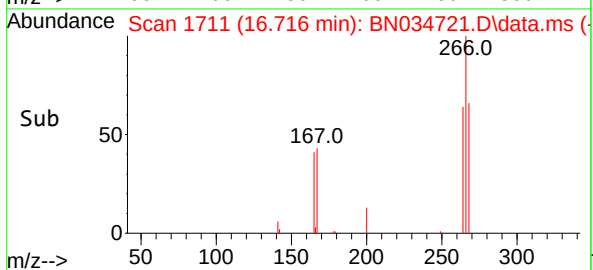
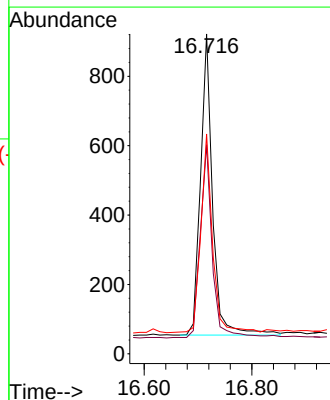
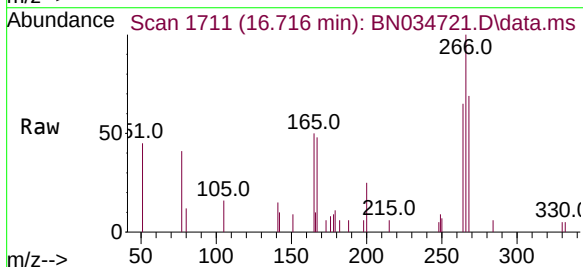
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

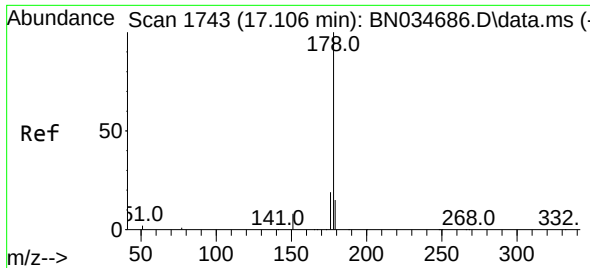
Tgt Ion	200	Resp:	2675
Ion Ratio	Lower	Upper	
200	100		
173	26.5	19.7	29.5
215	44.4	35.7	53.5



#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.716 min Scan# 1711
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion	266	Resp:	1357
Ion Ratio	Lower	Upper	
266	100		
264	64.4	49.4	74.2
268	64.0	50.5	75.7

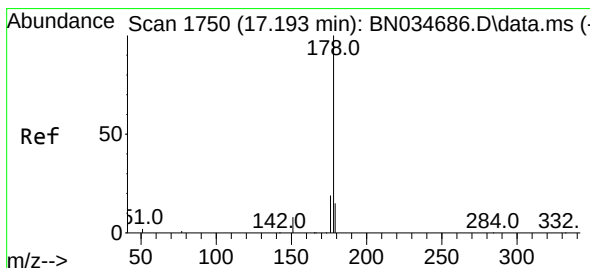
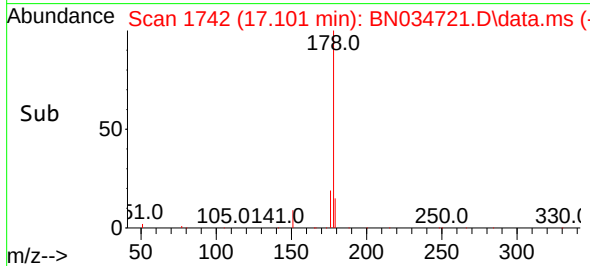
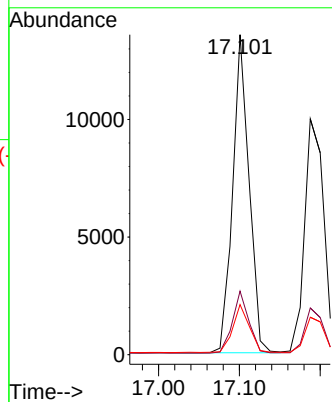
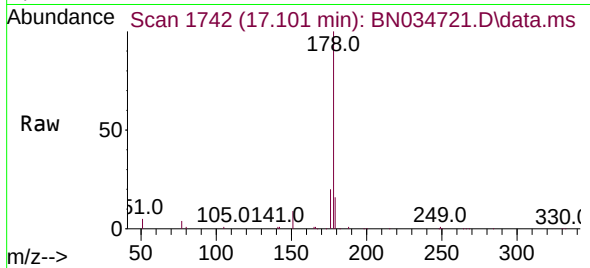




#25
Phenanthrene
Concen: 0.360 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

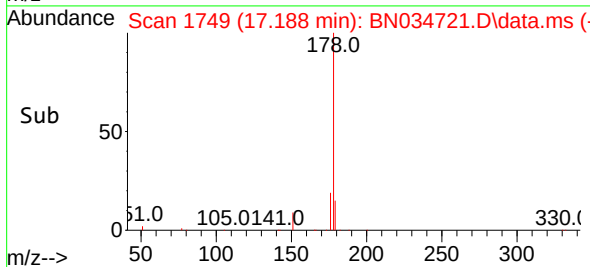
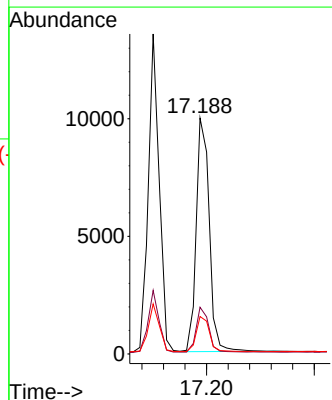
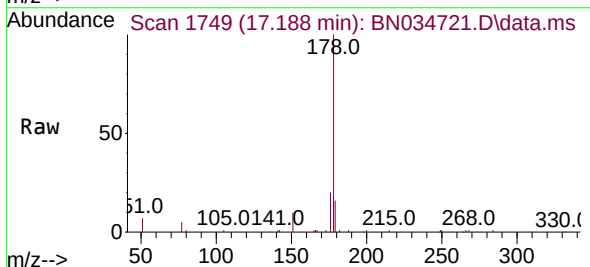
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

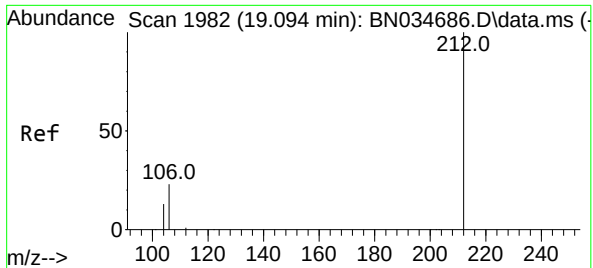
Tgt Ion:178 Resp: 19007
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.358 ng
RT: 17.188 min Scan# 1749
Delta R.T. -0.005 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:178 Resp: 16769
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.0 12.2 18.2

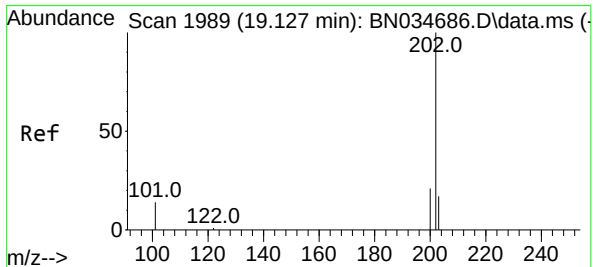
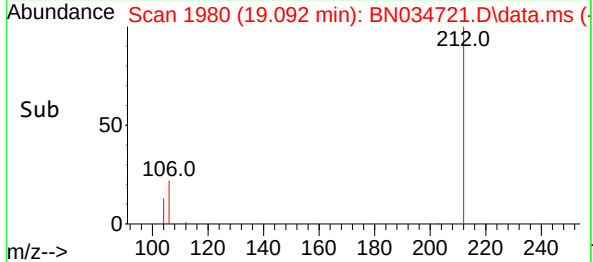
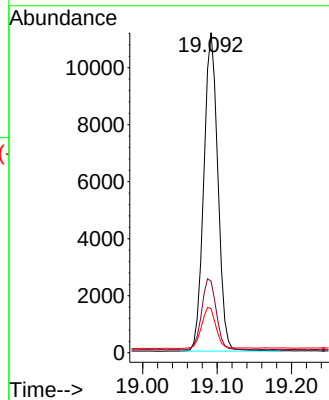
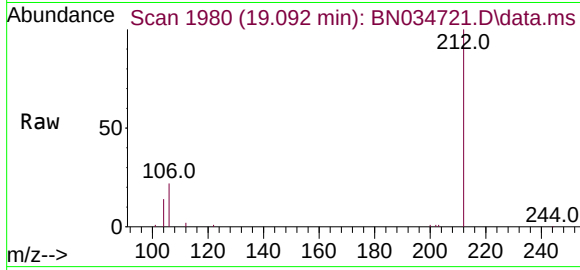




#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.092 min Scan# 1980
Delta R.T. -0.002 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

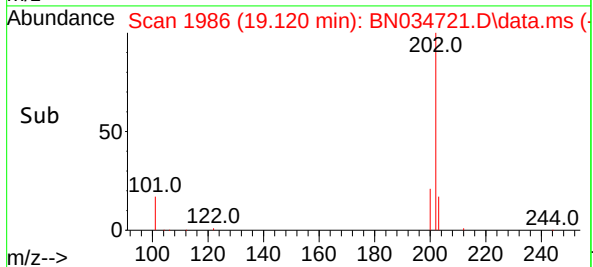
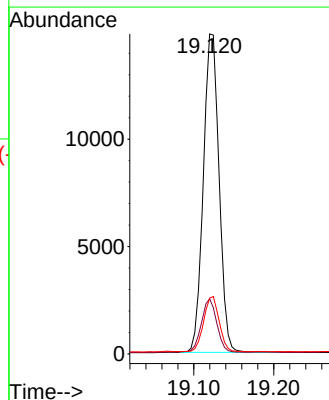
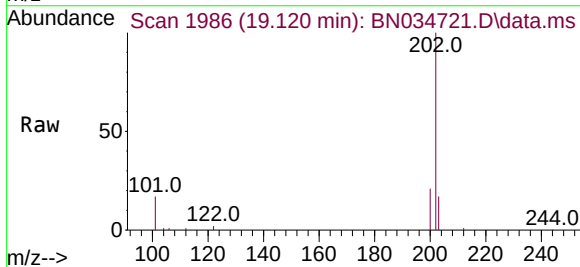
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

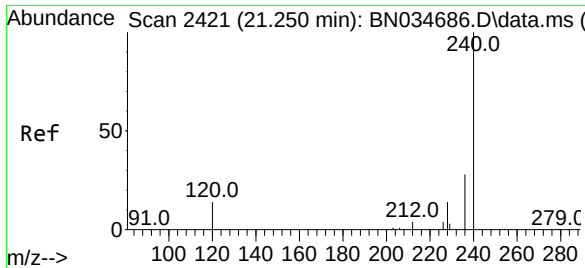
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.1	17.8	26.8
104	13.0	10.2	15.4



#28
Fluoranthene
Concen: 0.368 ng
RT: 19.120 min Scan# 1986
Delta R.T. -0.007 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.8	19.2
203	17.0	13.5	20.3

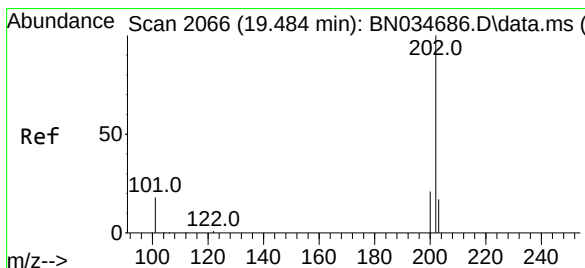
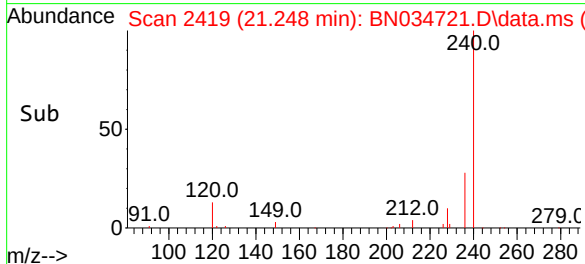
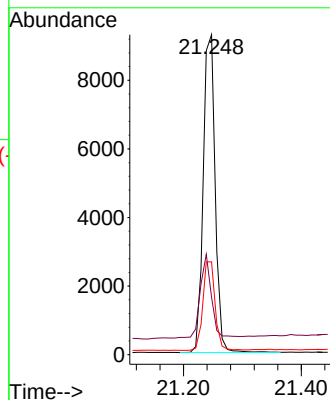
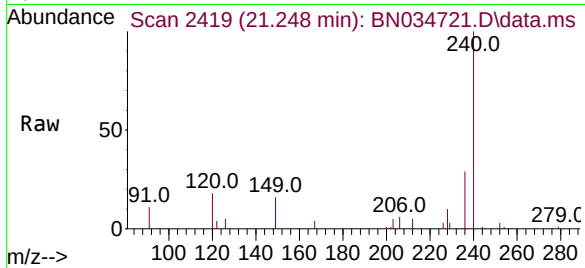




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.248 min Scan# 2419
Delta R.T. -0.002 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

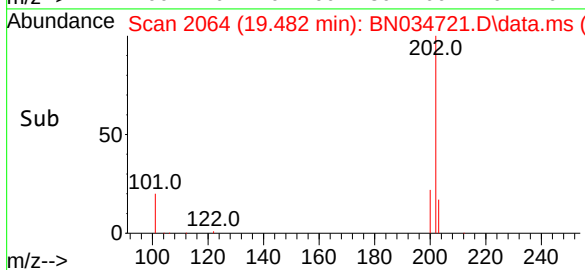
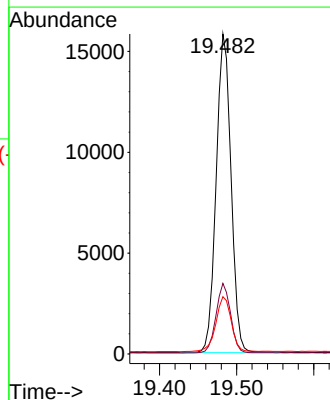
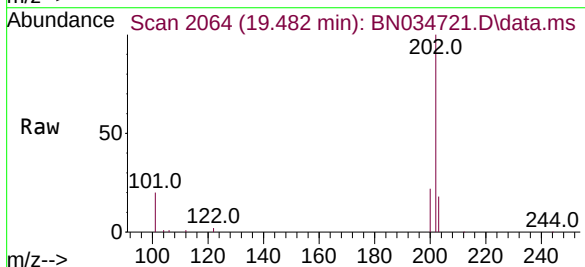
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

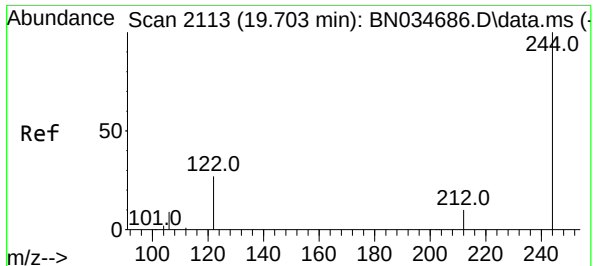
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.9	14.2	21.2
236	29.0	23.1	34.7



#30
Pyrene
Concen: 0.315 ng
RT: 19.482 min Scan# 2064
Delta R.T. -0.002 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.6	25.0
203	18.0	14.2	21.4

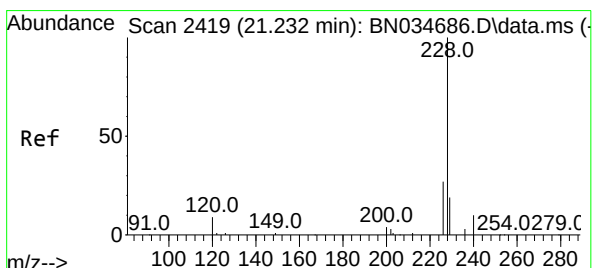
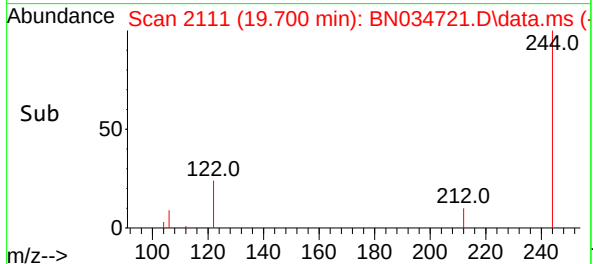
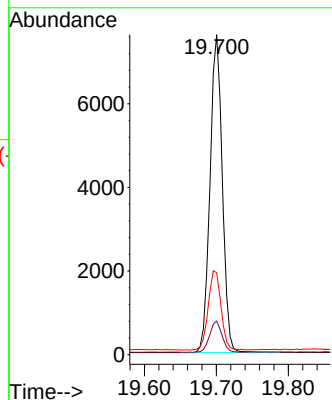
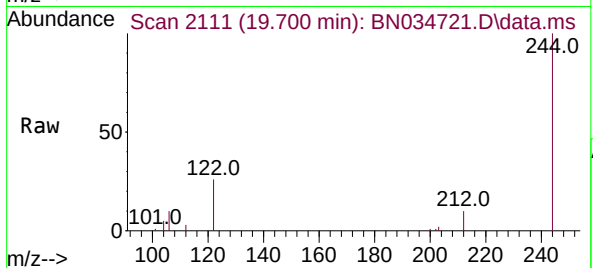




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.700 min Scan# 2113
Delta R.T. -0.002 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

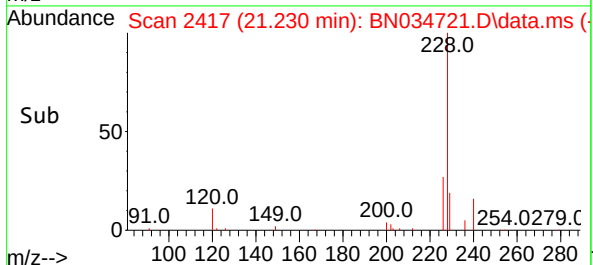
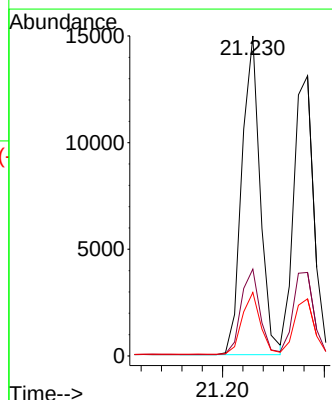
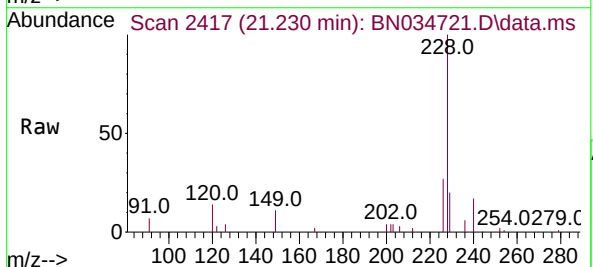
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

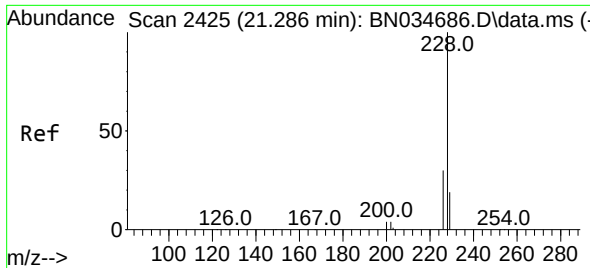
Tgt Ion:244 Resp: 9017
Ion Ratio Lower Upper
244 100
212 10.5 8.6 13.0
122 25.6 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.230 min Scan# 2417
Delta R.T. -0.002 min
Lab File: BN034721.D
Acq: 25 Oct 2024 09:46

Tgt Ion:228 Resp: 18695
Ion Ratio Lower Upper
228 100
226 27.1 22.0 33.0
229 19.8 15.6 23.4





#33

Chrysene

Concen: 0.349 ng

RT: 21.283 min Scan# 2425

Delta R.T. -0.002 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

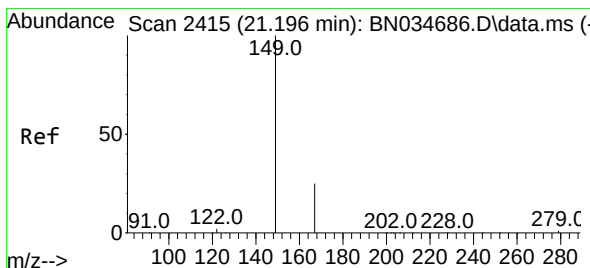
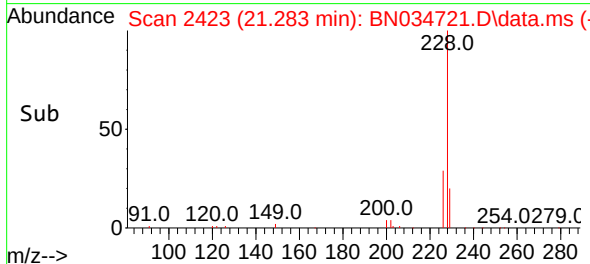
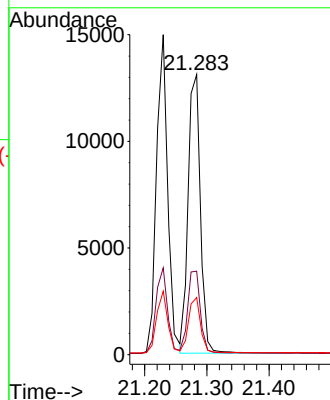
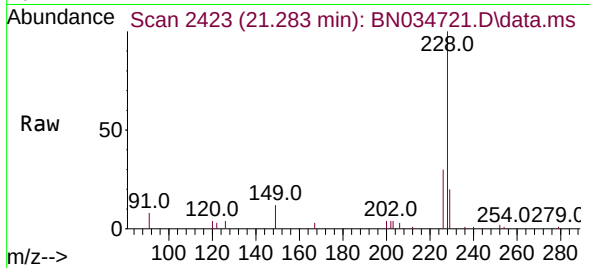
Tgt Ion:228 Resp: 18028

Ion Ratio Lower Upper

228 100

226 29.8 24.1 36.1

229 20.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.532 ng

RT: 21.194 min Scan# 2413

Delta R.T. -0.002 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

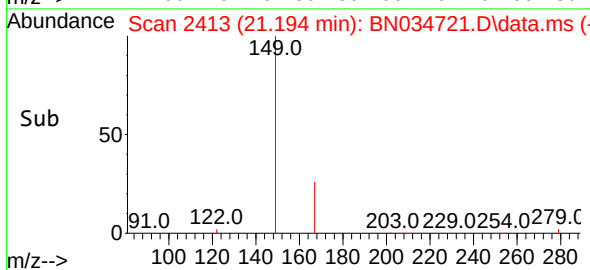
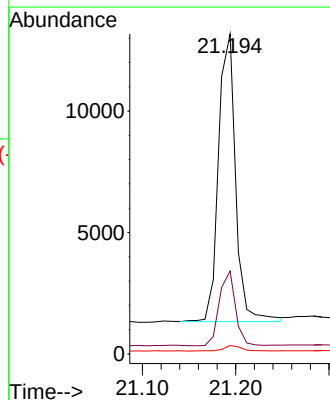
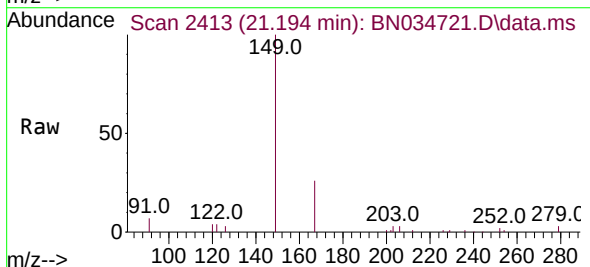
Tgt Ion:149 Resp: 15075

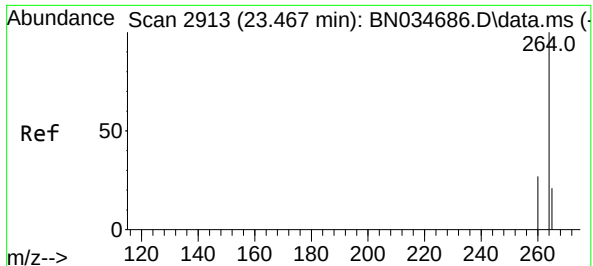
Ion Ratio Lower Upper

149 100

167 24.5 19.7 29.5

279 2.0 1.8 2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.459 min Scan# 2913

Delta R.T. -0.008 min

Lab File: BN034721.D

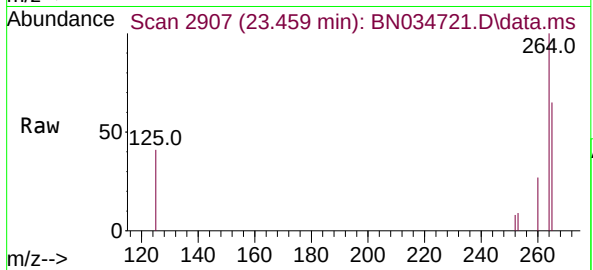
Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



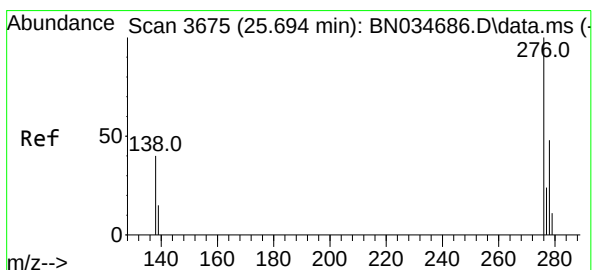
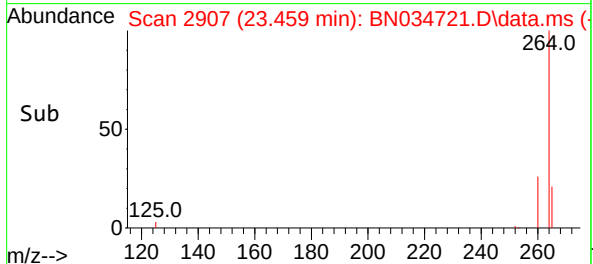
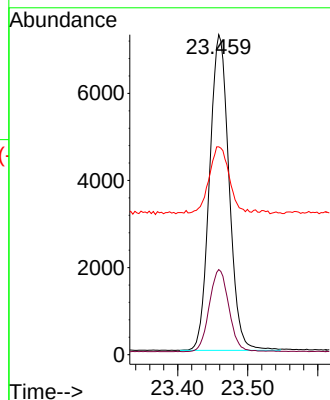
Tgt Ion:264 Resp: 14018

Ion Ratio Lower Upper

264 100

260 26.6 21.9 32.9

265 65.0 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.369 ng

RT: 25.683 min Scan# 3668

Delta R.T. -0.011 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

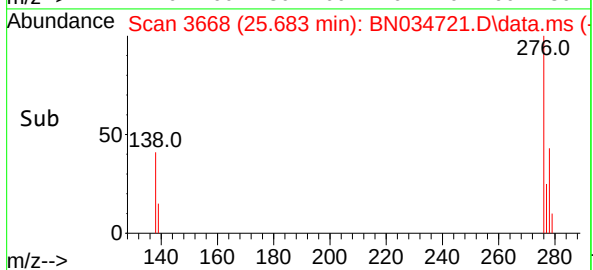
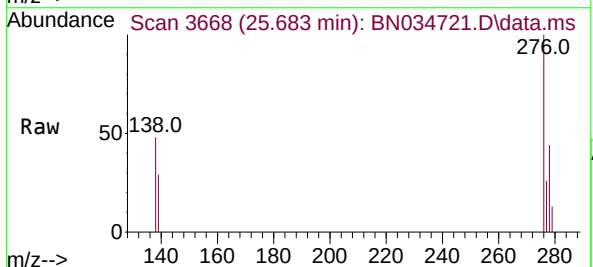
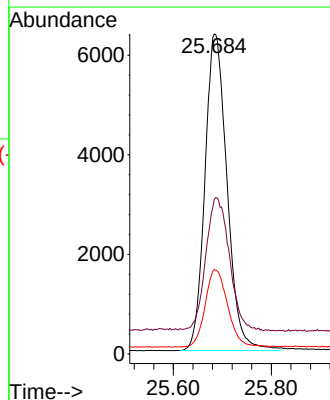
Tgt Ion:276 Resp: 19938

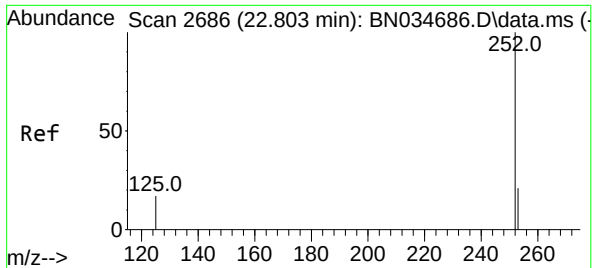
Ion Ratio Lower Upper

276 100

138 45.0 35.1 52.7

277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.330 ng

RT: 22.798 min Scan# 2681

Delta R.T. -0.005 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

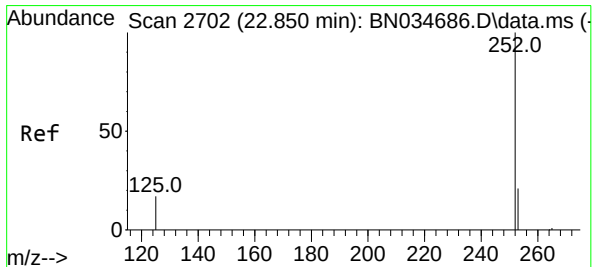
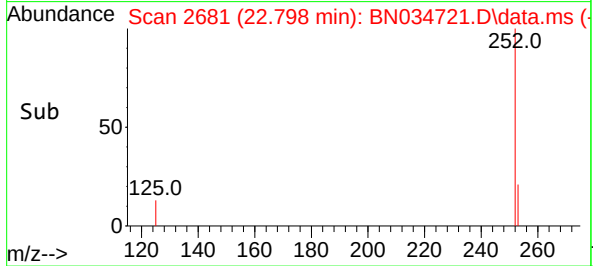
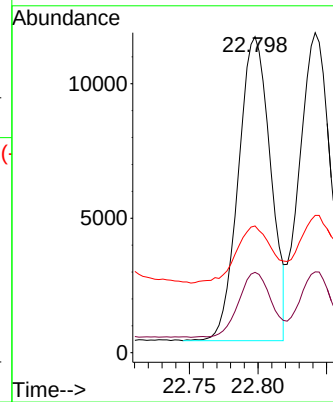
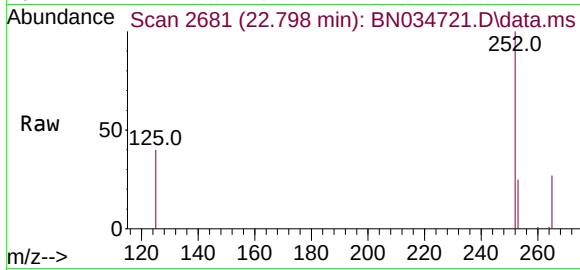
Tgt Ion:252 Resp: 18466

Ion Ratio Lower Upper

252 100

253 25.4 20.0 30.0

125 40.1 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 0.326 ng

RT: 22.842 min Scan# 2696

Delta R.T. -0.008 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

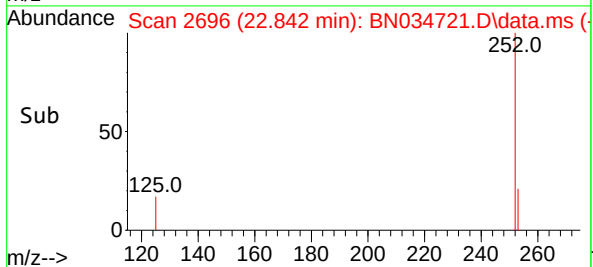
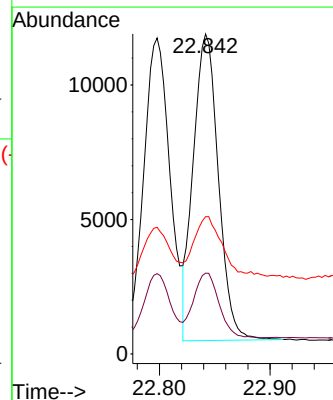
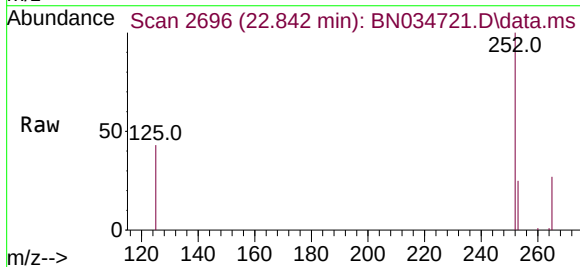
Tgt Ion:252 Resp: 17979

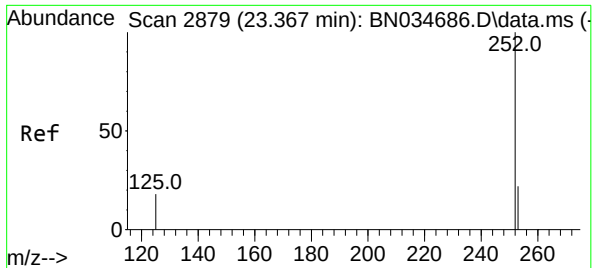
Ion Ratio Lower Upper

252 100

253 25.2 20.6 31.0

125 42.9 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 23.362 min Scan# 21

Delta R.T. -0.005 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

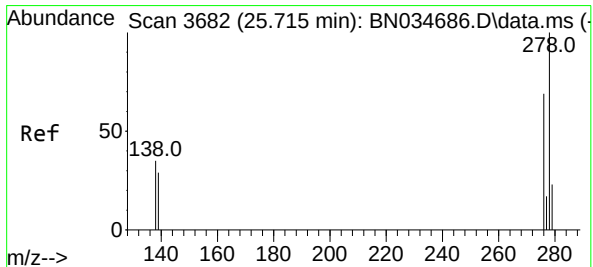
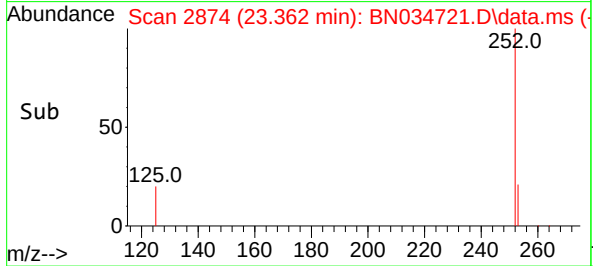
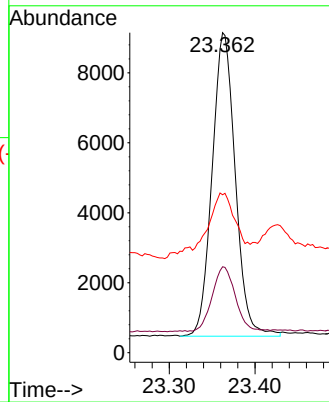
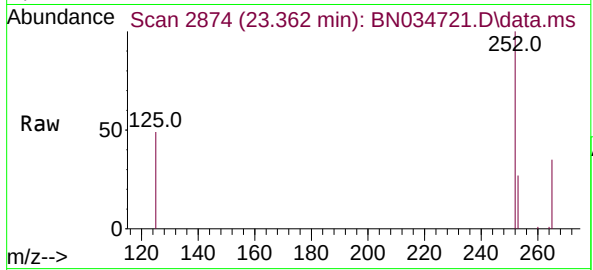
Tgt Ion:252 Resp: 16295

Ion Ratio Lower Upper

252 100

253 26.8 22.2 33.4

125 49.4 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.369 ng

RT: 25.707 min Scan# 3676

Delta R.T. -0.008 min

Lab File: BN034721.D

Acq: 25 Oct 2024 09:46

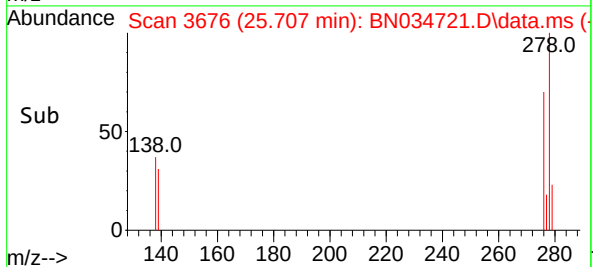
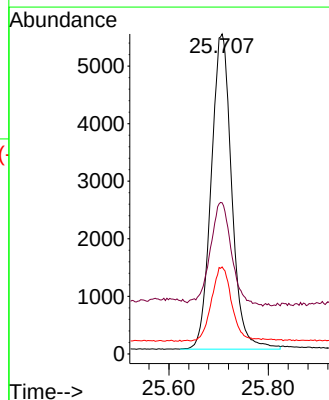
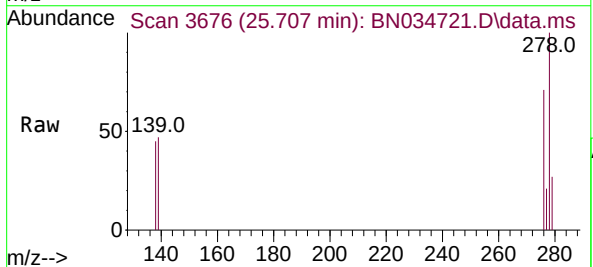
Tgt Ion:278 Resp: 15708

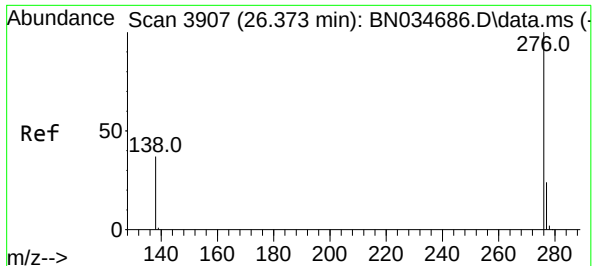
Ion Ratio Lower Upper

278 100

139 47.3 25.4 38.2#

279 27.2 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.365 ng

RT: 26.359 min Scan# 3899

Delta R.T. -0.014 min

Lab File: BN034721.D

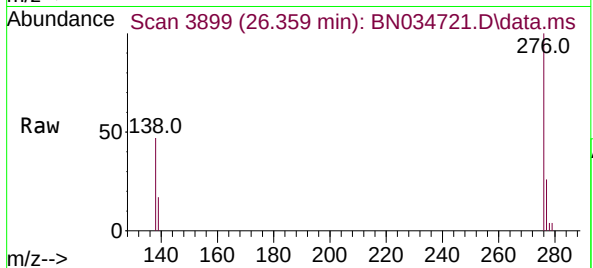
Acq: 25 Oct 2024 09:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



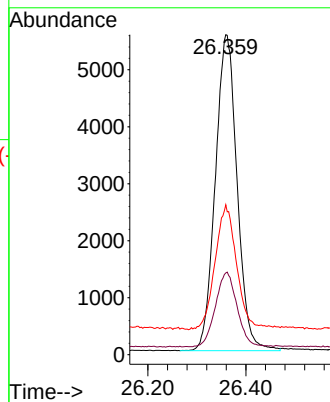
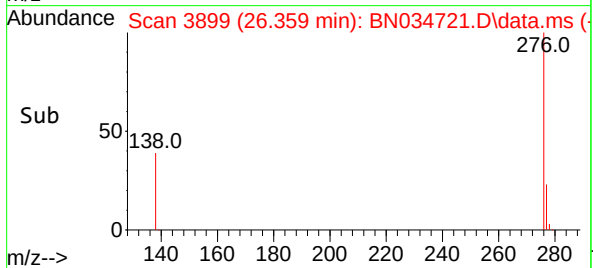
Tgt Ion:276 Resp: 17122

Ion Ratio Lower Upper

276 100

277 25.6 21.3 31.9

138 46.9 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034721.D
Acq On : 25 Oct 2024 09:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 25 10:44:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 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	0.532	0.460	13.5	98	0.00
3	n-Nitrosodimethylamine	0.775	0.646	16.6	95	0.00
4 S	2-Fluorophenol	1.189	1.280	-7.7	124	0.00
5 S	Phenol-d6	1.568	1.733	-10.5	130	0.00
6	bis(2-Chloroethyl)ether	1.274	1.192	6.4	109	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.336	0.300	10.7	108	0.00
9	Naphthalene	1.107	1.006	9.1	108	-0.01
10	Hexachlorobutadiene	0.166	0.146	12.0	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.550	0.491	10.7	108	0.00
12	2-Methylnaphthalene	0.687	0.618	10.0	109	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.124	0.119	4.0	127	0.00
15 S	2-Fluorobiphenyl	1.590	1.396	12.2	104	0.00
16	Acenaphthylene	1.921	1.627	15.3	106	0.00
17	Acenaphthene	1.324	1.133	14.4	104	0.00
18	Fluorene	1.634	1.325	18.9	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.047	16.1	106	0.00
21	4-Bromophenyl-phenylether	0.213	0.195	8.5	99	0.00
22	Hexachlorobenzene	0.231	0.206	10.8	94	0.00
23	Atrazine	0.168	0.152	9.5	105	0.00
24	Pentachlorophenol	0.082	0.077	6.1	117	0.00
25	Phenanthrene	1.202	1.081	10.1	98	0.00
26	Anthracene	1.067	0.954	10.6	99	0.00
27 SURR	Fluoranthene-d10	0.901	0.834	7.4	103	0.00
28	Fluoranthene	1.253	1.154	7.9	102	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	123	0.00
30	Pyrene	2.055	1.616	21.4	106	0.00
31 S	Terphenyl-d14	0.817	0.690	15.5	115	0.00
32	Benzo(a)anthracene	1.528	1.431	6.3	128	0.00
33	Chrysene	1.581	1.380	12.7	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	1.154	-33.1#	196#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	146	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.422	7.7	147	-0.01
37	Benzo(b)fluoranthene	1.597	1.317	17.5	130	0.00
38	Benzo(k)fluoranthene	1.576	1.283	18.6	135	0.00
39 C	Benzo(a)pyrene	1.282	1.162	9.4	147	0.00
40	Dibenzo(a,h)anthracene	1.215	1.121	7.7	147	0.00
41	Benzo(g,h,i)perylene	1.340	1.221	8.9	141	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034721.D
Acq On : 25 Oct 2024 09:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 25 10:44:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 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	0.345	13.8	98	0.00
3	n-Nitrosodimethylamine	0.400	0.334	16.5	95	0.00
4 S	2-Fluorophenol	0.400	0.431	-7.7	124	0.00
5 S	Phenol-d6	0.400	0.442	-10.5	130	0.00
6	bis(2-Chloroethyl)ether	0.400	0.374	6.5	109	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	108	0.00
9	Naphthalene	0.400	0.364	9.0	108	-0.01
10	Hexachlorobutadiene	0.400	0.351	12.3	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	108	0.00
12	2-Methylnaphthalene	0.400	0.360	10.0	109	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.400	0.384	4.0	127	0.00
15 S	2-Fluorobiphenyl	0.400	0.351	12.3	104	0.00
16	Acenaphthylene	0.400	0.339	15.3	106	0.00
17	Acenaphthene	0.400	0.342	14.5	104	0.00
18	Fluorene	0.400	0.324	19.0	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.337	15.8	106	0.00
21	4-Bromophenyl-phenylether	0.400	0.365	8.8	99	0.00
22	Hexachlorobenzene	0.400	0.357	10.8	94	0.00
23	Atrazine	0.400	0.363	9.3	105	0.00
24	Pentachlorophenol	0.400	0.378	5.5	117	0.00
25	Phenanthrene	0.400	0.360	10.0	98	0.00
26	Anthracene	0.400	0.358	10.5	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.370	7.5	103	0.00
28	Fluoranthene	0.400	0.368	8.0	102	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	123	0.00
30	Pyrene	0.400	0.315	21.3	106	0.00
31 S	Terphenyl-d14	0.400	0.338	15.5	115	0.00
32	Benzo(a)anthracene	0.400	0.374	6.5	128	0.00
33	Chrysene	0.400	0.349	12.8	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.532	-33.0#	196	0.00
35 I	Perylene-d12	0.400	0.400	0.0	146	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.369	7.8	147	-0.01
37	Benzo(b)fluoranthene	0.400	0.330	17.5	130	0.00
38	Benzo(k)fluoranthene	0.400	0.326	18.5	135	0.00
39 C	Benzo(a)pyrene	0.400	0.363	9.3	147	0.00
40	Dibenzo(a,h)anthracene	0.400	0.369	7.8	147	0.00
41	Benzo(g,h,i)perylene	0.400	0.365	8.8	141	-0.01

(#) = 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.: P4550 SAS No.: P4550 SDG No.: P4550

Instrument ID: BNA_N Calibration Date/Time: 10/25/2024 20:41

Lab File ID: BN034732.D Init. Calib. Date(s): 10/24/2024 10/24/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:11 12:48

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.550	0.499		-9.3	50.0
Fluoranthene-d10	0.901	0.778		-13.7	50.0
2-Fluorophenol	1.189	1.284		8.0	50.0
Phenol-d6	1.568	1.673		6.7	50.0
Nitrobenzene-d5	0.336	0.311		-7.4	50.0
2-Fluorobiphenyl	1.590	1.375		-13.5	50.0
2,4,6-Tribromophenol	0.124	0.129		4.0	50.0
Terphenyl-d14	0.817	0.831		1.7	50.0
1,4-Dioxane	0.532	0.481		-9.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034732.D
 Acq On : 25 Oct 2024 20:41
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 25 22:43:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 25 22:11:36 2024
 Response via : Initial Calibration

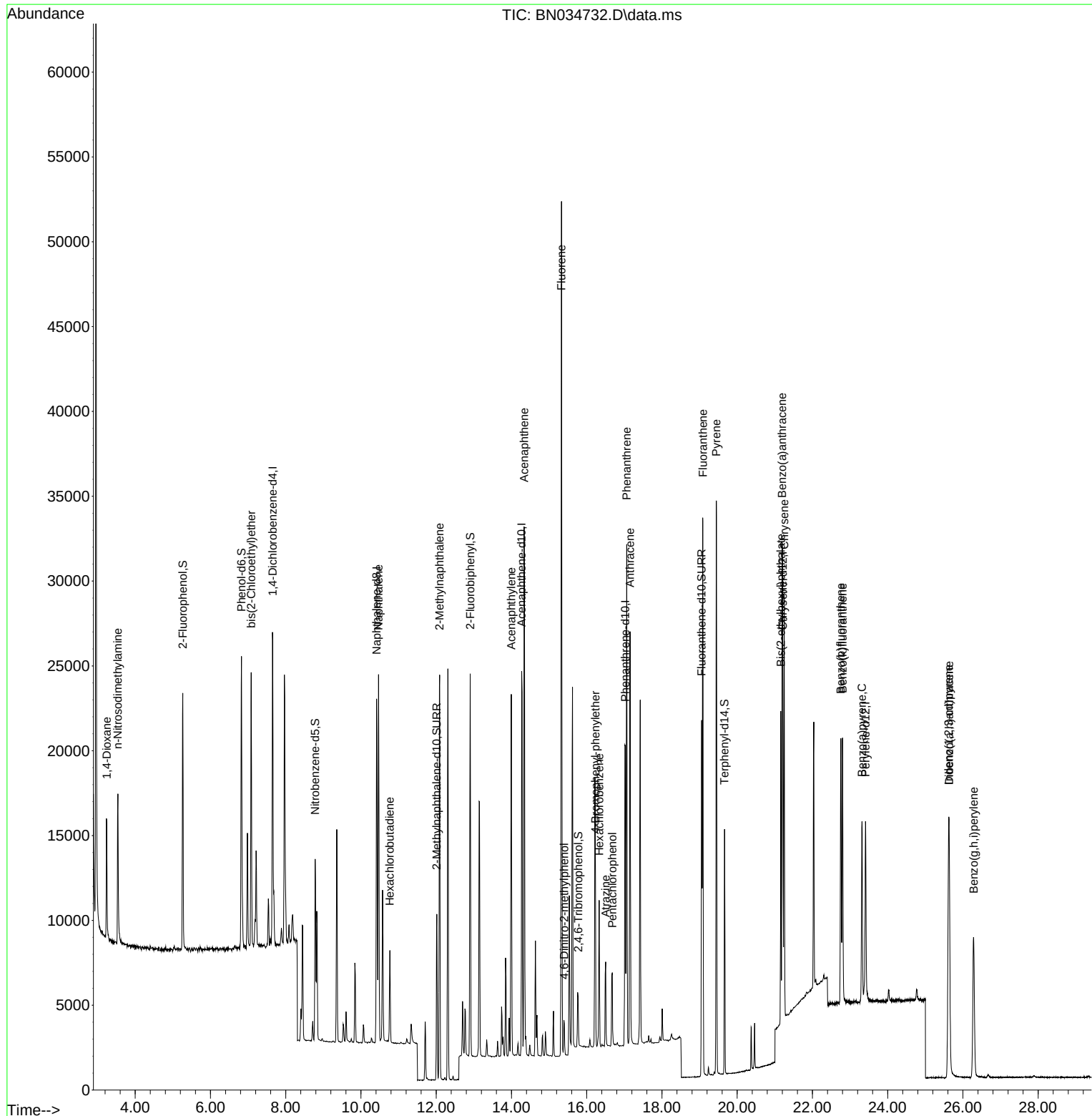
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8703	0.400	ng	-0.06
7) Naphthalene-d8	10.415	136	25971	0.400	ng	#-0.06
13) Acenaphthene-d10	14.272	164	13484	0.400	ng	-0.06
19) Phenanthrene-d10	17.026	188	25916	0.400	ng	-0.04
29) Chrysene-d12	21.212	240	13865	0.400	ng	-0.04
35) Perylene-d12	23.412	264	12945	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	11176	0.432	ng	-0.06
5) Phenol-d6	6.824	99	14560	0.427	ng	-0.06
8) Nitrobenzene-d5	8.781	82	8064	0.370	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	12963	0.363	ng	-0.06
14) 2,4,6-Tribromophenol	15.773	330	1738	0.417	ng	-0.04
15) 2-Fluorobiphenyl	12.903	172	18535	0.346	ng	-0.05
27) Fluoranthene-d10	19.055	212	20172	0.346	ng	-0.04
31) Terphenyl-d14	19.663	244	11526	0.407	ng	-0.04
Target Compounds						
2) 1,4-Dioxane	3.242	88	4182	0.361	ng	99
3) n-Nitrosodimethylamine	3.538	42	5887	0.349	ng	# 90
6) bis(2-Chloroethyl)ether	7.084	93	10361	0.374	ng	98
9) Naphthalene	10.468	128	26161	0.364	ng	100
10) Hexachlorobutadiene	10.767	225	3881	0.360	ng	# 99
12) 2-Methylnaphthalene	12.090	142	16236	0.364	ng	100
16) Acenaphthylene	13.994	152	21659	0.334	ng	99
17) Acenaphthene	14.336	154	15327	0.343	ng	99
18) Fluorene	15.330	166	18945	0.344	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	1194	0.331	ng	# 84
21) 4-Bromophenyl-phenylether	16.232	248	5089	0.368	ng	93
22) Hexachlorobenzene	16.331	284	5412	0.361	ng	99
23) Atrazine	16.505	200	4155	0.383	ng	99
24) Pentachlorophenol	16.679	266	2169	0.409	ng	100
25) Phenanthrene	17.064	178	28002	0.360	ng	100
26) Anthracene	17.150	178	24377	0.353	ng	100
28) Fluoranthene	19.087	202	28255	0.348	ng	99
30) Pyrene	19.445	202	28410	0.399	ng	100
32) Benzo(a)anthracene	21.194	228	19350	0.365	ng	100
33) Chrysene	21.248	228	19781	0.361	ng	100
34) Bis(2-ethylhexyl)phtha...	21.158	149	15745	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.619	276	17779	0.357	ng	99
37) Benzo(b)fluoranthene	22.754	252	18264	0.353	ng	100
38) Benzo(k)fluoranthene	22.801	252	17879	0.351	ng	99
39) Benzo(a)pyrene	23.315	252	14600	0.352	ng	97
40) Dibenzo(a,h)anthracene	25.634	278	14173	0.360	ng	97
41) Benzo(g,h,i)perylene	26.286	276	15303	0.353	ng	97

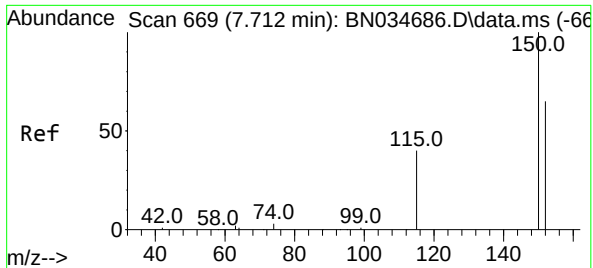
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034732.D
Acq On : 25 Oct 2024 20:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

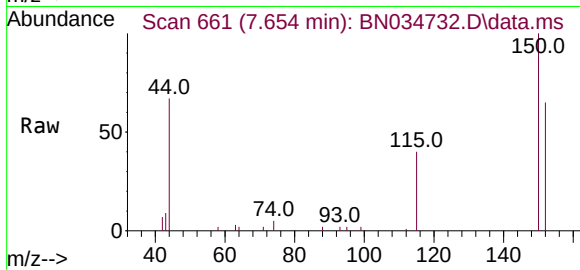
Quant Time: Oct 25 22:43:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration



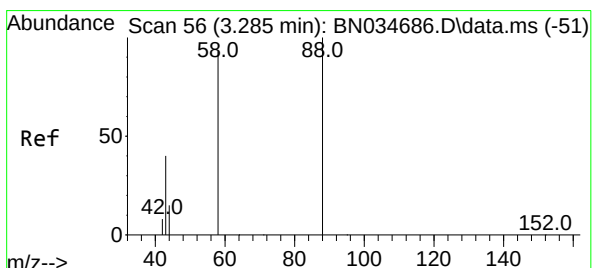
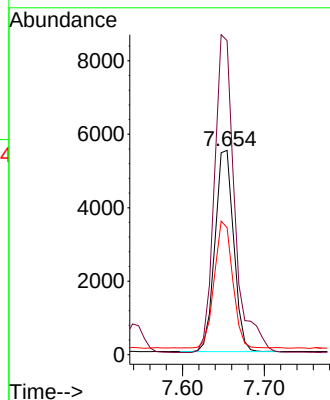
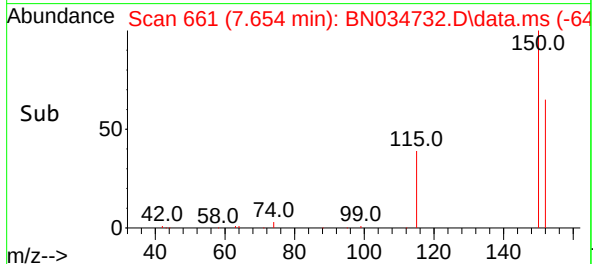


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 60
Delta R.T. -0.058 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

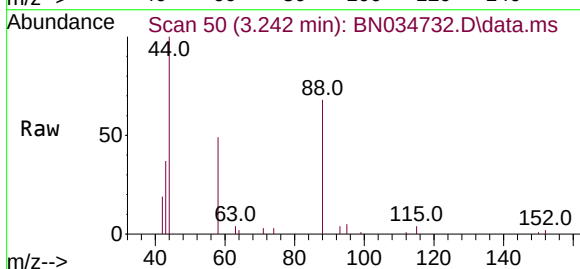
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



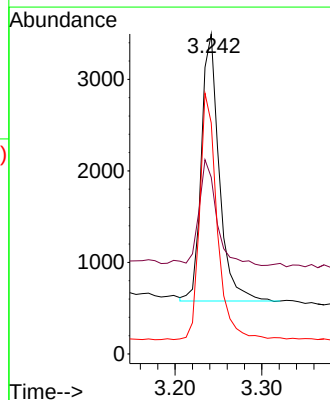
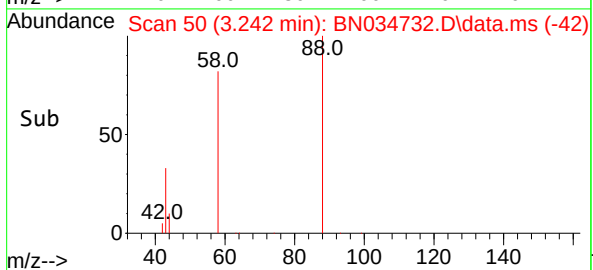
Tgt Ion:152 Resp: 8703
Ion Ratio Lower Upper
152 100
150 153.7 122.7 184.1
115 62.2 51.0 76.6



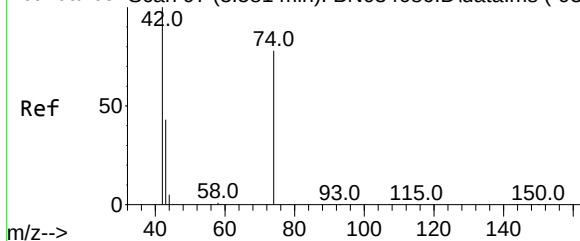
#2
1,4-Dioxane
Concen: 0.361 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41



Tgt Ion: 88 Resp: 4182
Ion Ratio Lower Upper
88 100
43 40.9 32.1 48.1
58 90.9 73.7 110.5



Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



#3

n-Nitrosodimethylamine

Concen: 0.349 ng

RT: 3.538 min Scan# 91

Delta R.T. -0.043 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 5887

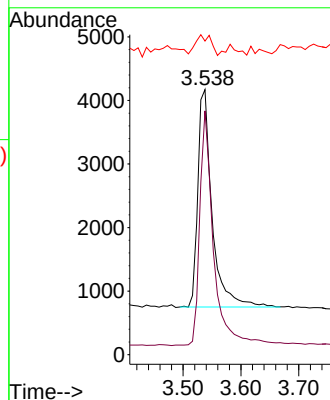
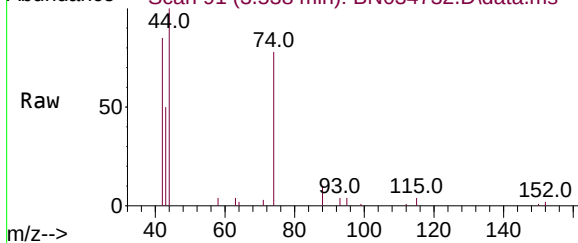
Ion Ratio Lower Upper

42 100

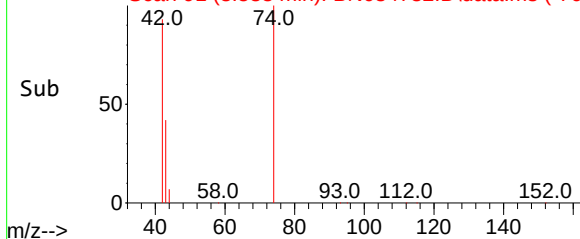
74 104.8 77.2 115.8

44 10.2 13.4 20.2#

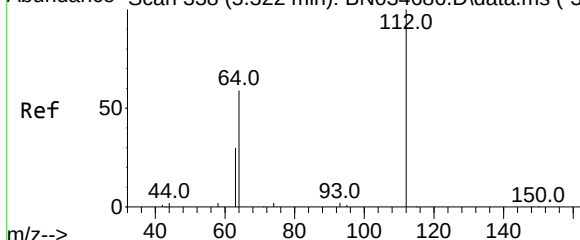
Abundance Scan 91 (3.538 min): BN034732.D\data.ms



Abundance Scan 91 (3.538 min): BN034732.D\data.ms (-76)



Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



#4

2-Fluorophenol

Concen: 0.432 ng

RT: 5.264 min Scan# 330

Delta R.T. -0.058 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

Tgt Ion: 112 Resp: 11176

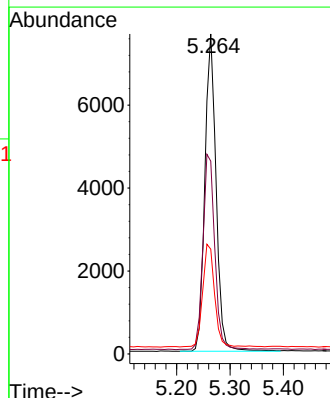
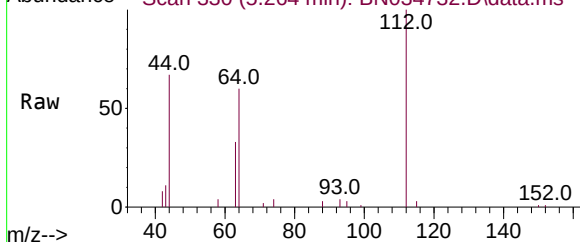
Ion Ratio Lower Upper

112 100

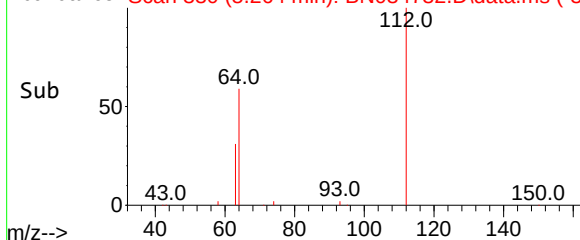
64 65.2 53.0 79.6

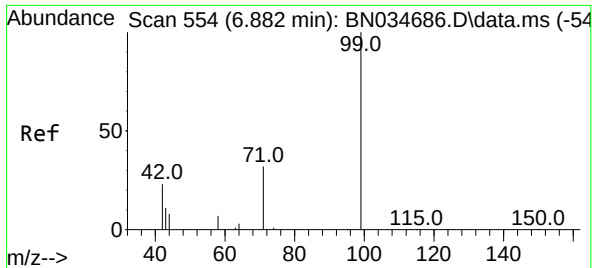
63 34.2 27.6 41.4

Abundance Scan 330 (5.264 min): BN034732.D\data.ms



Abundance Scan 330 (5.264 min): BN034732.D\data.ms (-31)

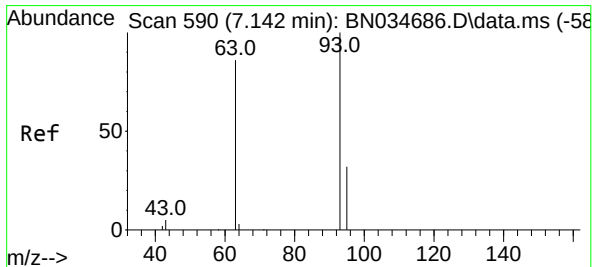
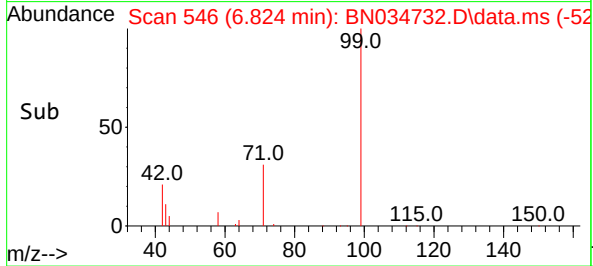
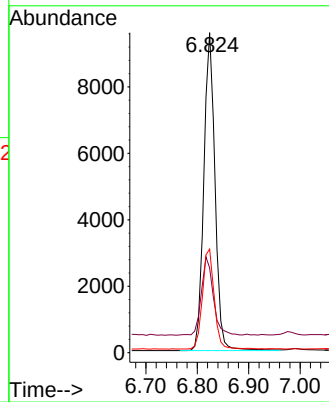
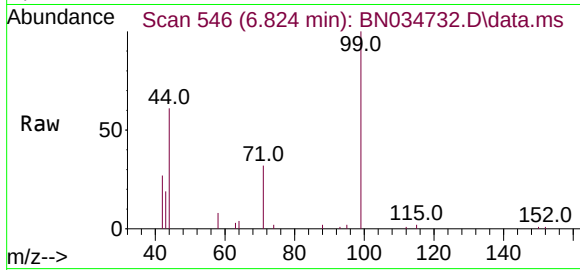




#5
Phenol-d6
Concen: 0.427 ng
RT: 6.824 min Scan# 54
Delta R.T. -0.058 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

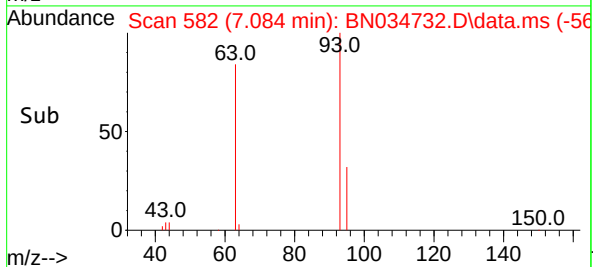
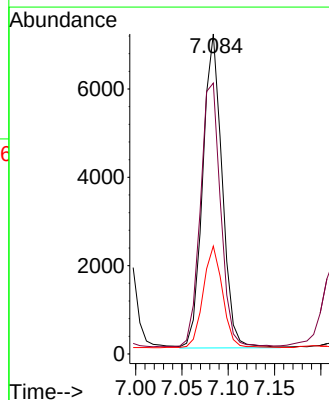
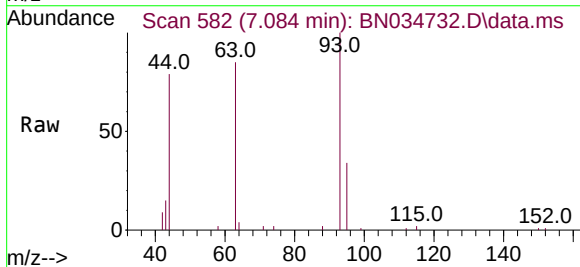
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

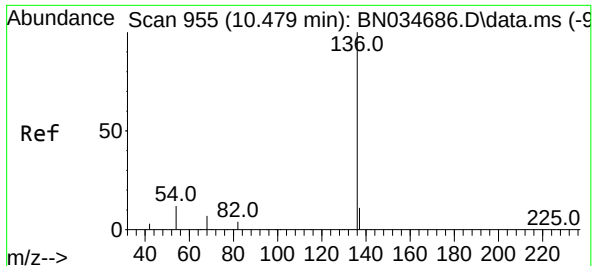
Tgt Ion: 99 Resp: 14560
Ion Ratio Lower Upper
99 100
42 26.2 21.8 32.8
71 32.7 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.058 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion: 93 Resp: 10361
Ion Ratio Lower Upper
93 100
63 87.6 71.5 107.3
95 32.5 25.8 38.6

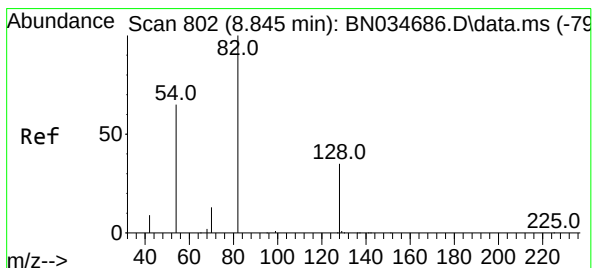
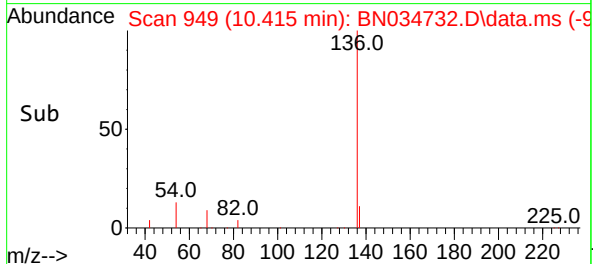
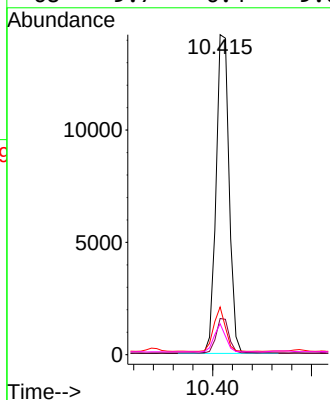
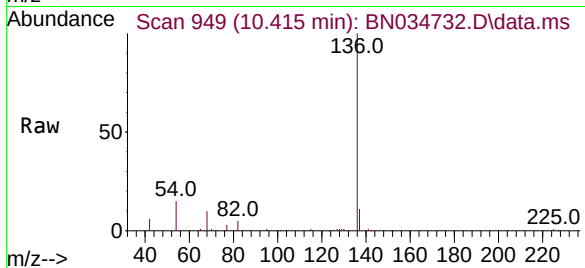




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.064 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

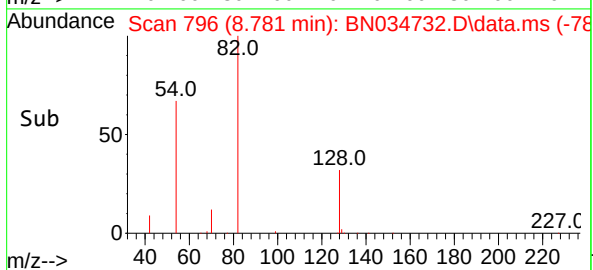
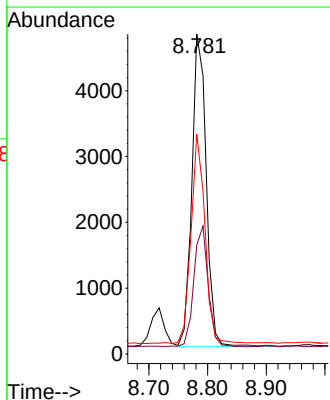
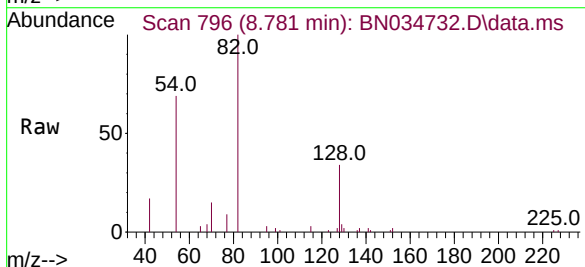
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

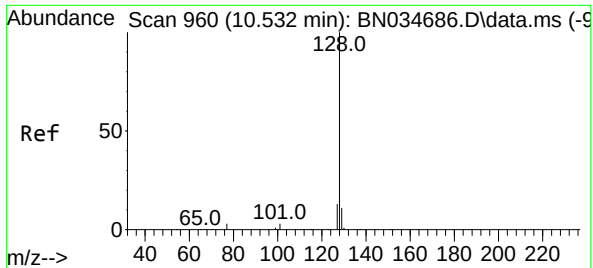
Tgt Ion:	136	Resp:	25971
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	14.9	9.8	14.8#
68	9.7	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:	82	Resp:	8064
Ion	Ratio	Lower	Upper
82	100		
128	34.0	29.7	44.5
54	68.8	53.0	79.6

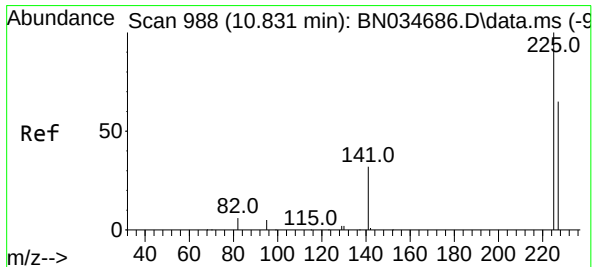
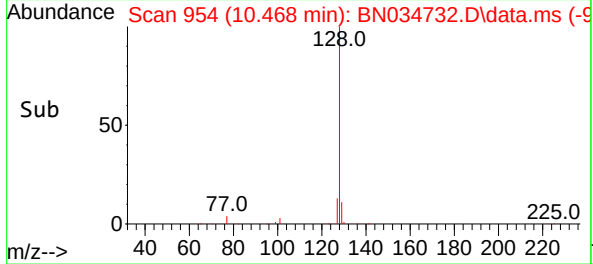
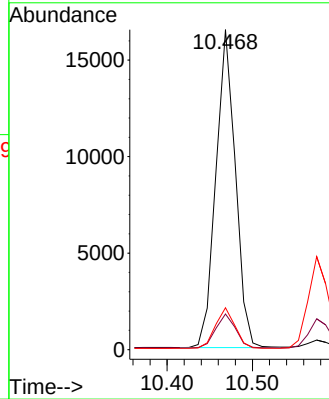
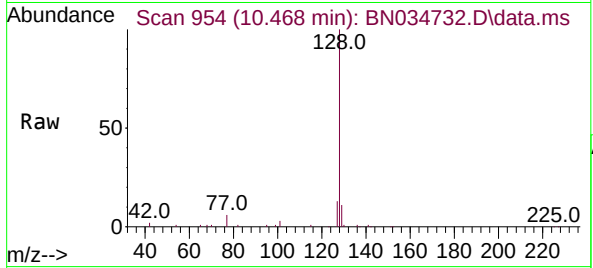




#9
Naphthalene
Concen: 0.364 ng
RT: 10.468 min Scan# 91
Delta R.T. -0.064 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

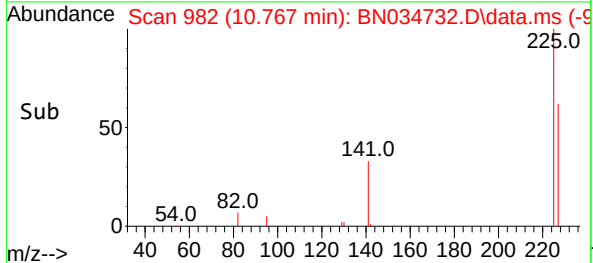
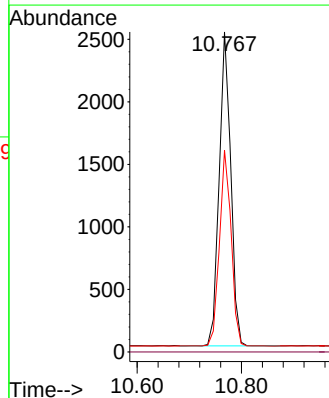
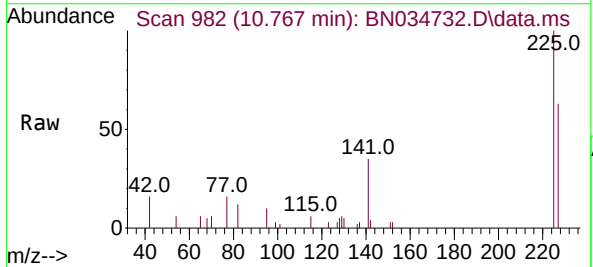
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

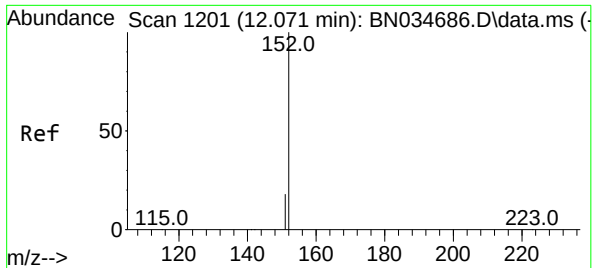
Tgt Ion:128 Resp: 26161
Ion Ratio Lower Upper
128 100
129 11.1 9.0 13.6
127 13.1 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.767 min Scan# 982
Delta R.T. -0.064 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:225 Resp: 3881
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.4 77.0

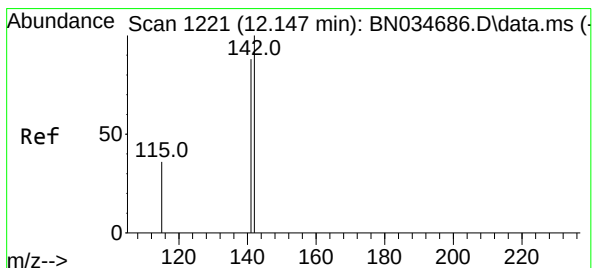
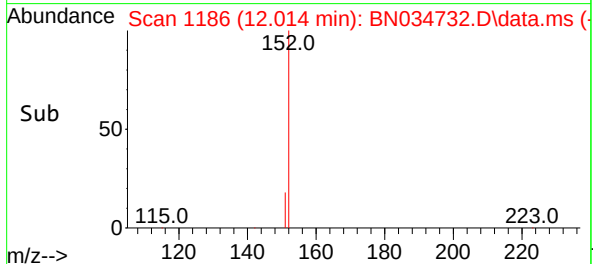
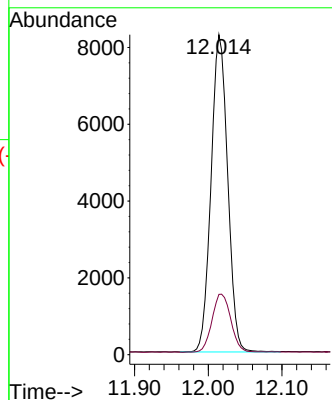
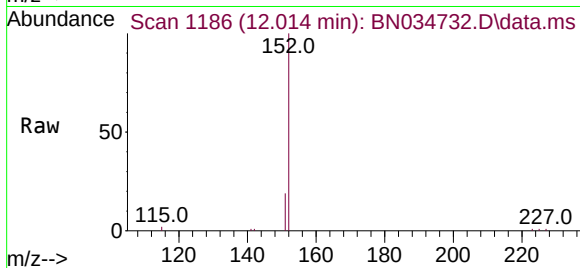




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.014 min Scan# 11
Delta R.T. -0.057 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

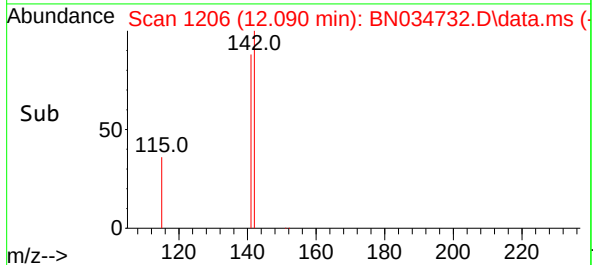
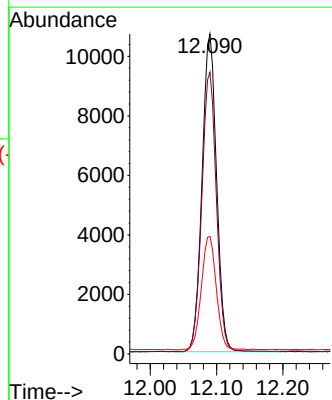
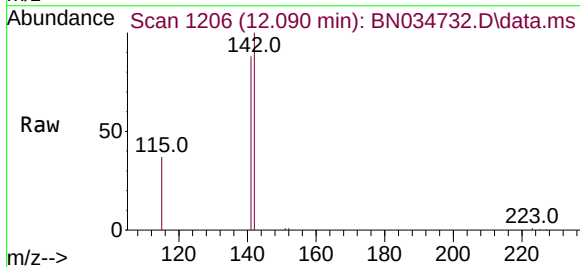
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

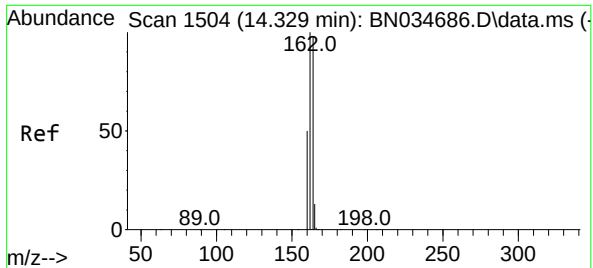
Tgt Ion:152 Resp: 12963
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.364 ng
RT: 12.090 min Scan# 1206
Delta R.T. -0.057 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:142 Resp: 16236
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 36.7 29.8 44.6

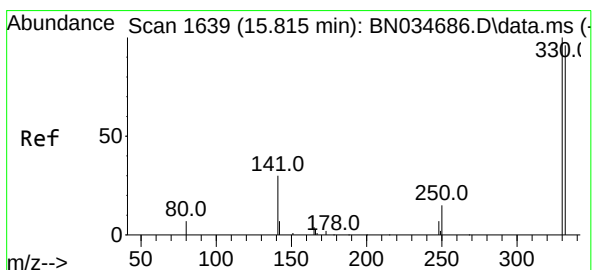
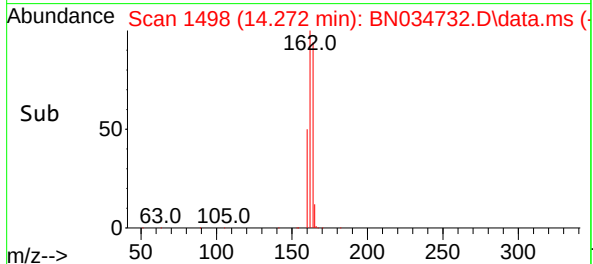
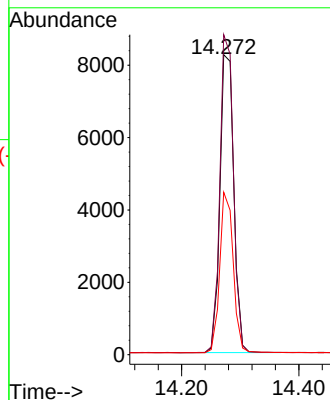
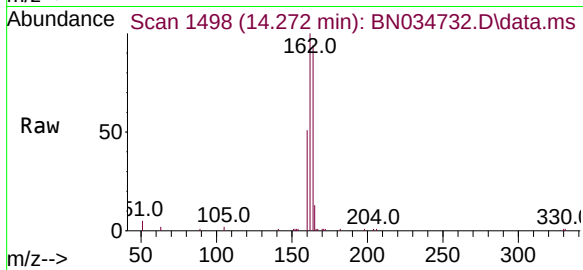




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.272 min Scan# 1498
Delta R.T. -0.057 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

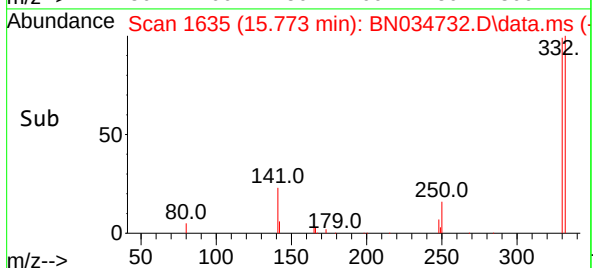
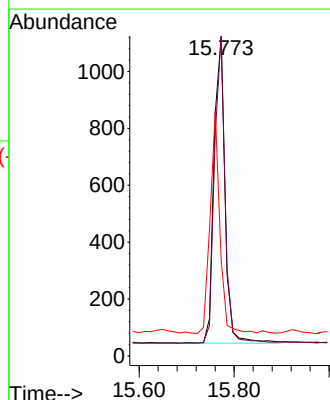
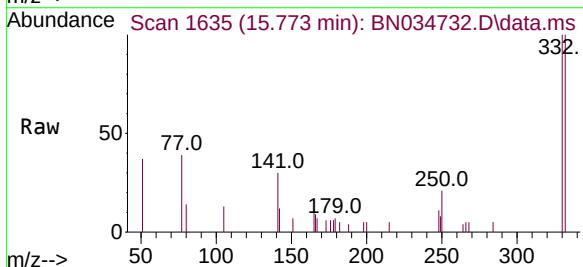
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

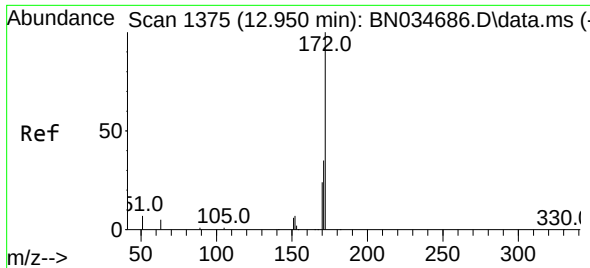
Tgt Ion:164 Resp: 13484
Ion Ratio Lower Upper
164 100
162 106.7 81.4 122.0
160 54.1 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.417 ng
RT: 15.773 min Scan# 1635
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:330 Resp: 1738
Ion Ratio Lower Upper
330 100
332 95.5 76.6 115.0
141 63.9 54.6 81.8

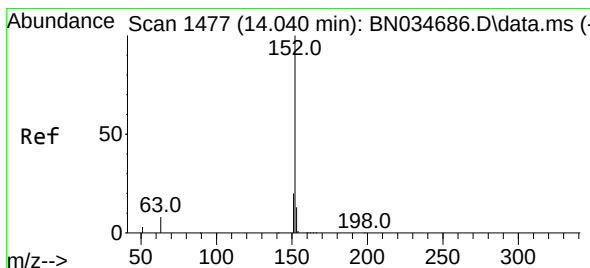
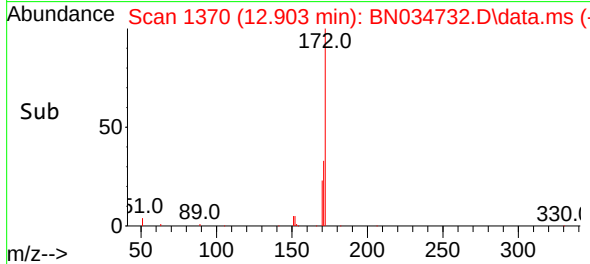
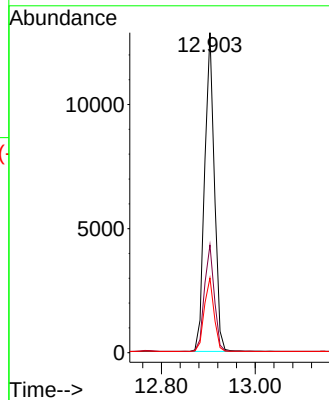
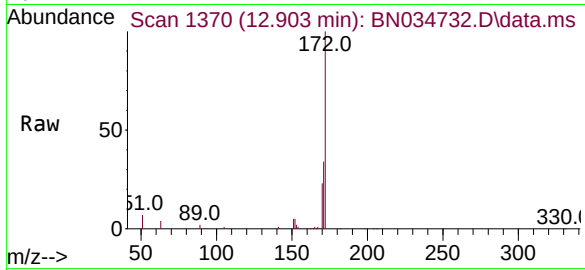




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.903 min Scan# 11
Delta R.T. -0.046 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

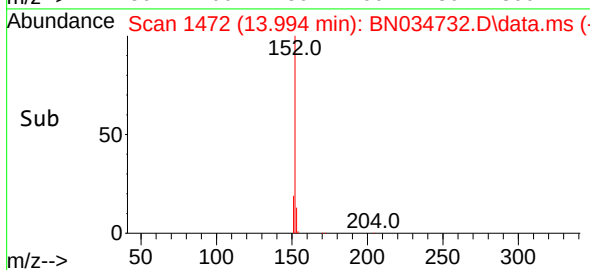
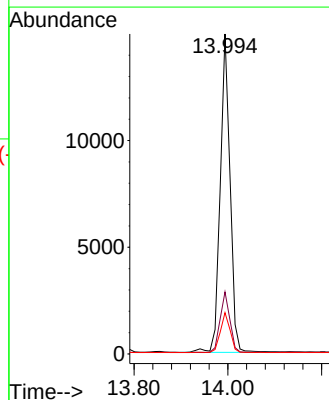
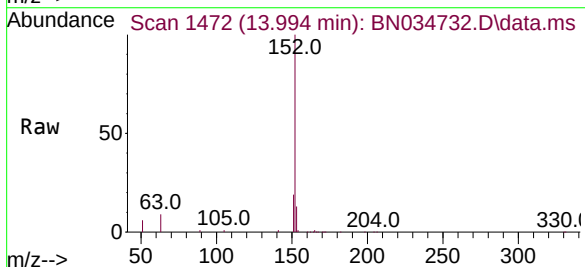
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

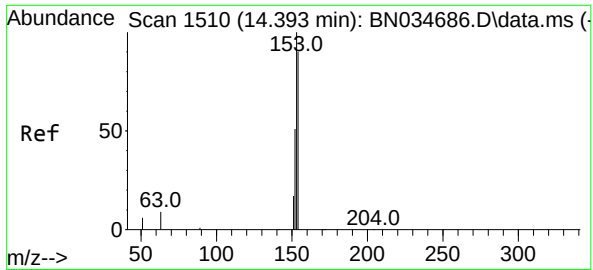
Tgt Ion:	172	Resp:	18535
Ion Ratio	Lower	Upper	
172	100		
171	33.6	28.3	42.5
170	23.3	19.8	29.6



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.994 min Scan# 1472
Delta R.T. -0.046 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:	152	Resp:	21659
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.6	23.4
153	12.6	10.6	15.8

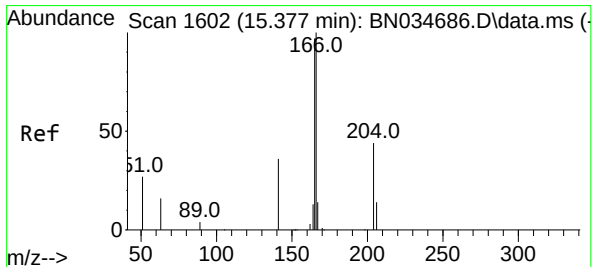
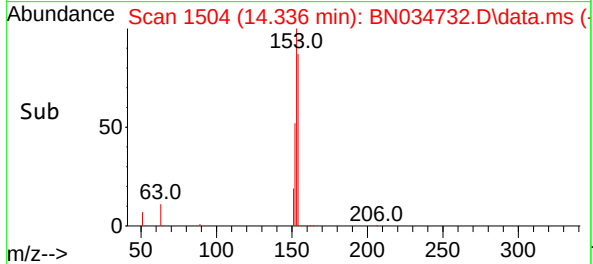
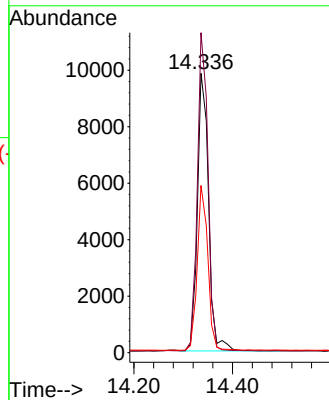
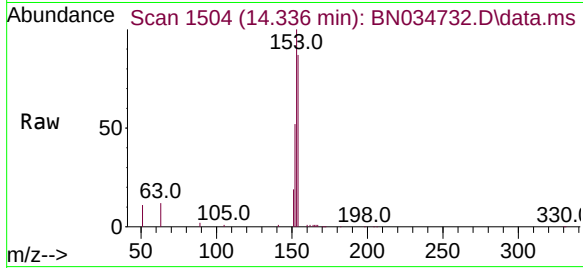




#17
Acenaphthene
Concen: 0.343 ng
RT: 14.336 min Scan# 1504
Delta R.T. -0.057 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

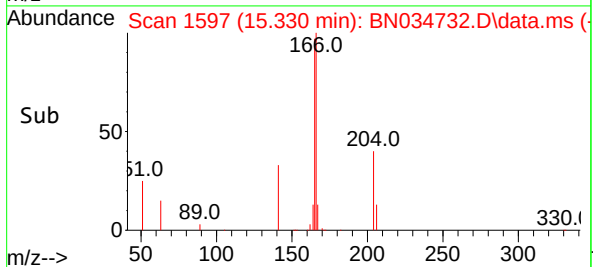
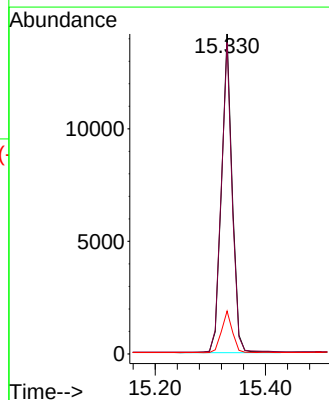
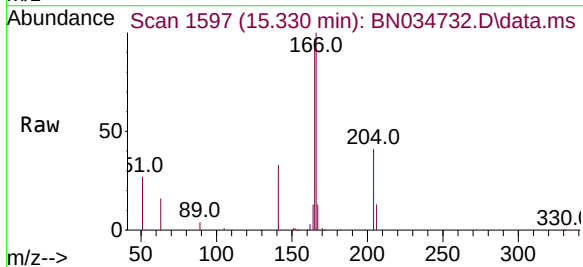
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

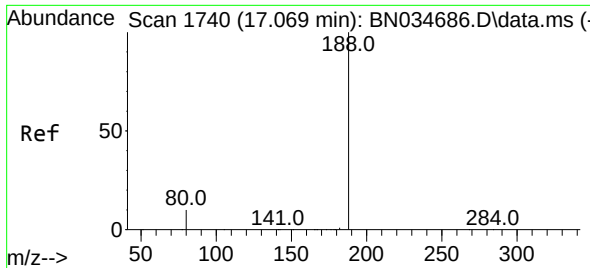
Tgt Ion:154 Resp: 15327
Ion Ratio Lower Upper
154 100
153 109.6 88.2 132.2
152 56.5 46.9 70.3



#18
Fluorene
Concen: 0.344 ng
RT: 15.330 min Scan# 1597
Delta R.T. -0.046 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:166 Resp: 18945
Ion Ratio Lower Upper
166 100
165 97.6 78.8 118.2
167 13.2 10.6 16.0

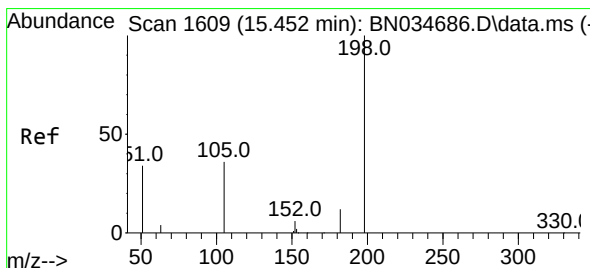
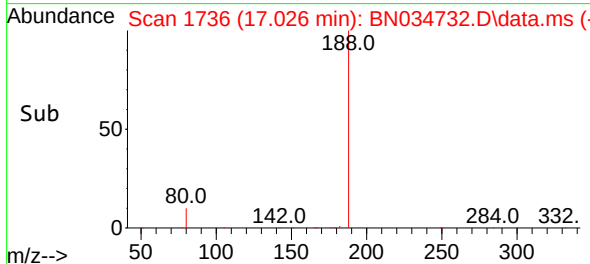
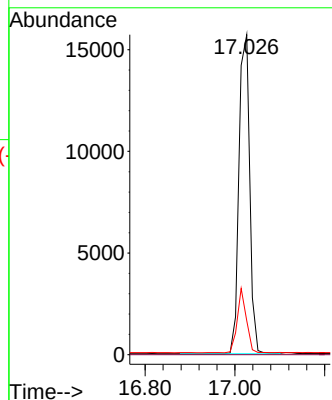
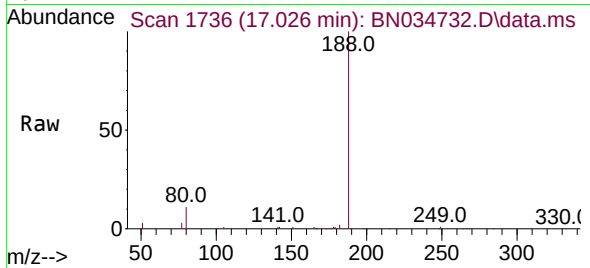




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 11
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

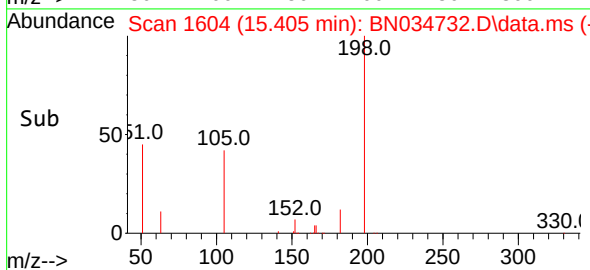
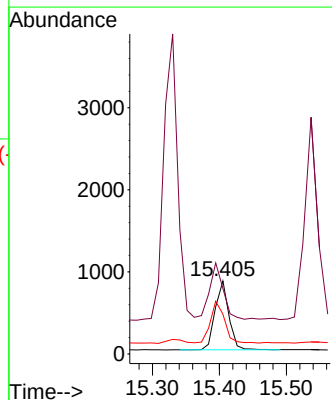
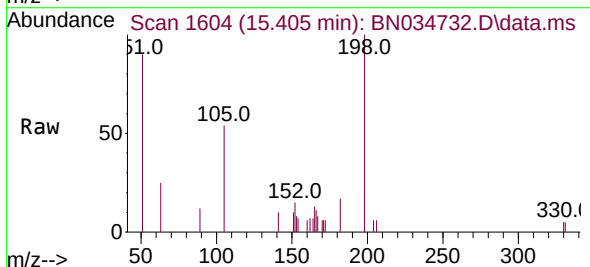
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

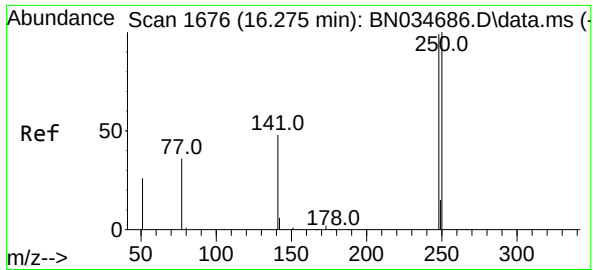
Tgt Ion:188	Resp:	25916
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.6	8.9 13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.331 ng
RT: 15.405 min Scan# 1604
Delta R.T. -0.047 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:198	Resp:	1194
Ion Ratio	Lower	Upper
198	100	
51	89.8	91.8 137.8#
105	54.4	44.3 66.5

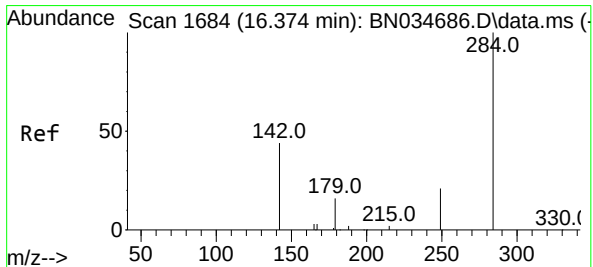
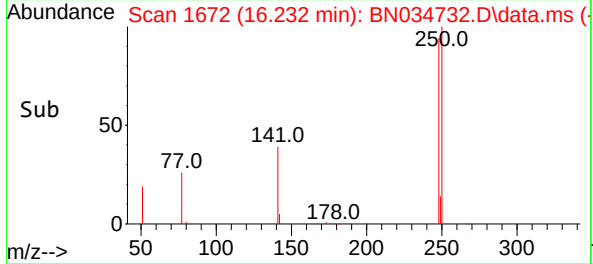
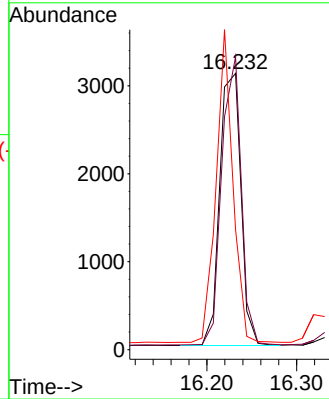
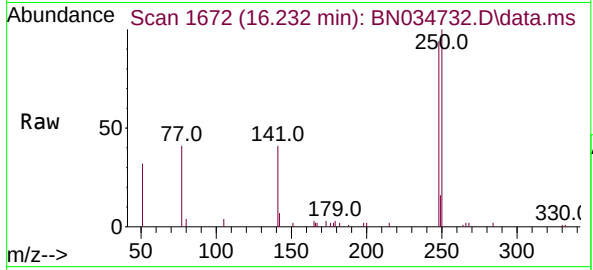




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.232 min Scan# 1676
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

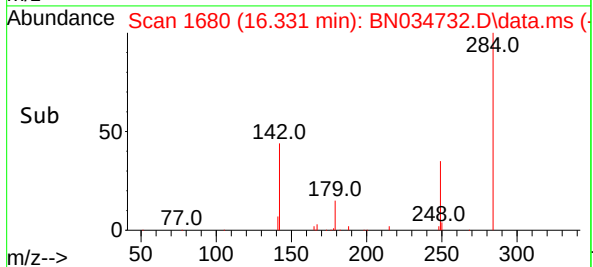
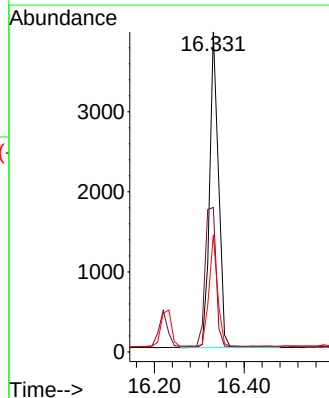
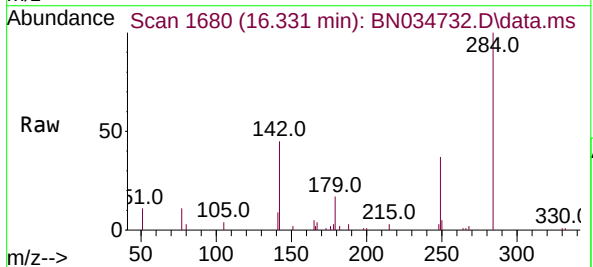
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

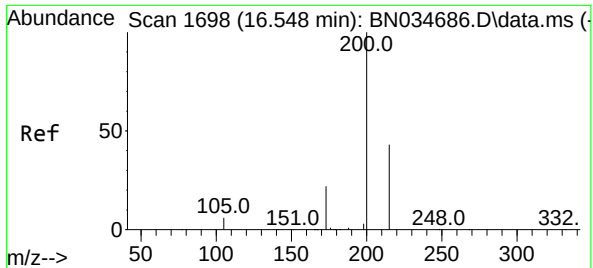
Tgt Ion:248 Resp: 5089
Ion Ratio Lower Upper
248 100
250 106.0 80.9 121.3
141 43.4 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.331 min Scan# 1680
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:284 Resp: 5412
Ion Ratio Lower Upper
284 100
142 54.4 43.6 65.4
249 34.0 26.6 40.0

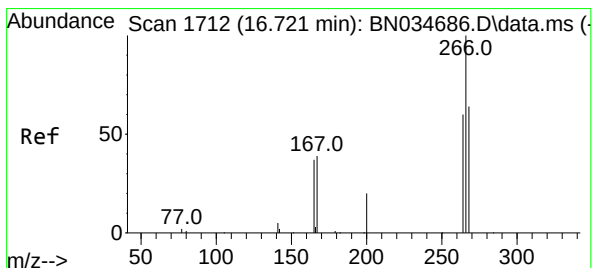
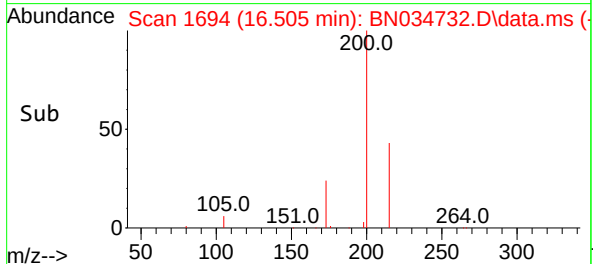
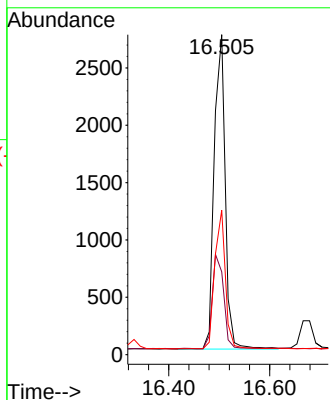
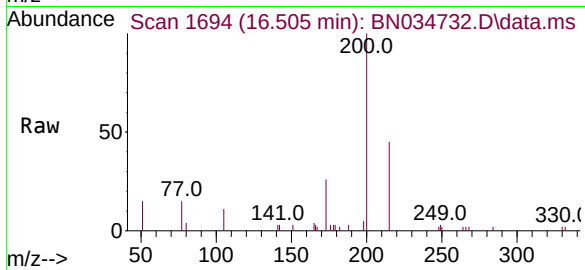




#23
Atrazine
Concen: 0.383 ng
RT: 16.505 min Scan# 1
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

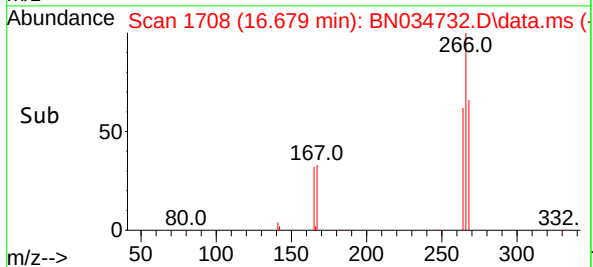
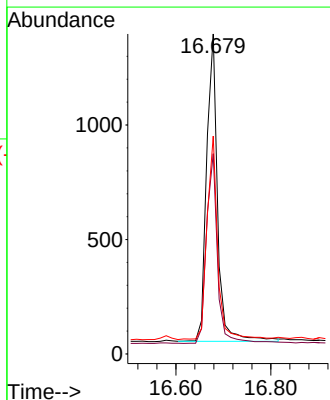
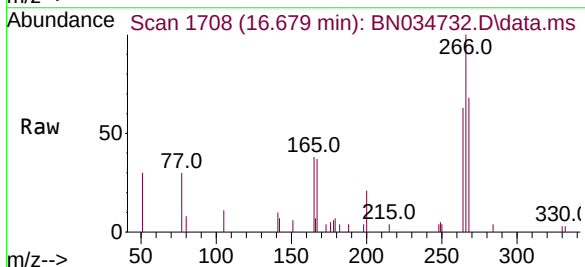
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

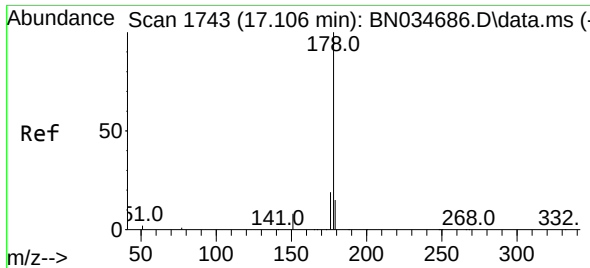
Tgt Ion:200 Resp: 4155
Ion Ratio Lower Upper
200 100
173 25.9 19.7 29.5
215 45.2 35.7 53.5



#24
Pentachlorophenol
Concen: 0.409 ng
RT: 16.679 min Scan# 1708
Delta R.T. -0.042 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:266 Resp: 2169
Ion Ratio Lower Upper
266 100
264 62.4 49.4 74.2
268 63.2 50.5 75.7

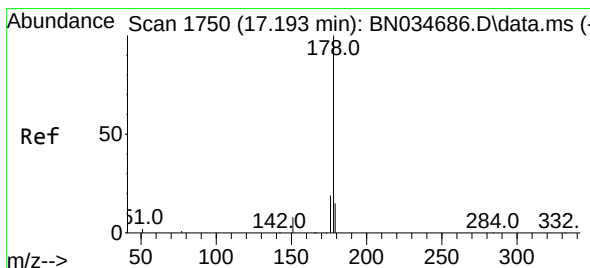
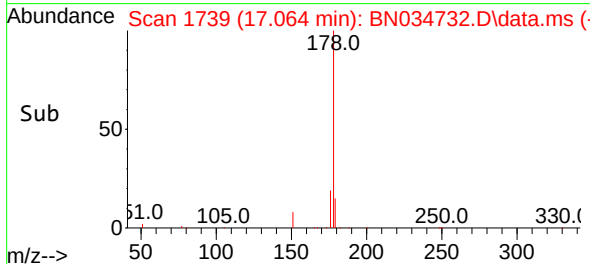
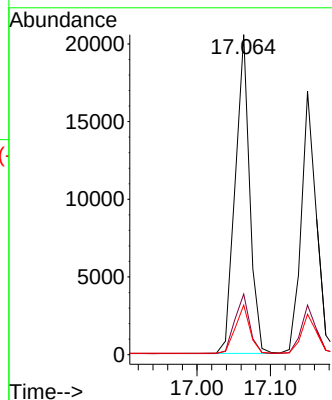
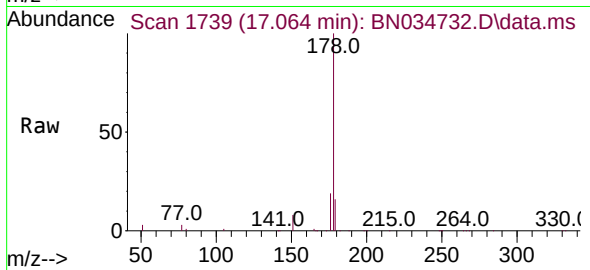




#25
Phenanthrene
Concen: 0.360 ng
RT: 17.064 min Scan# 1743
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

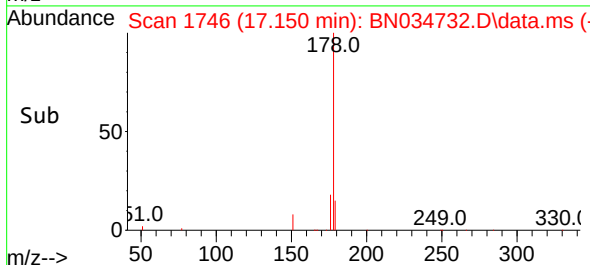
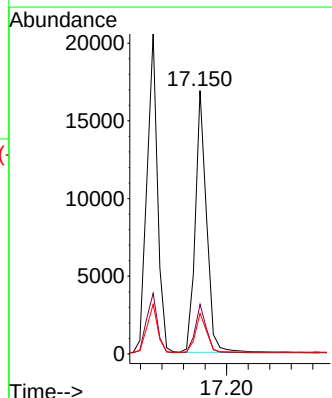
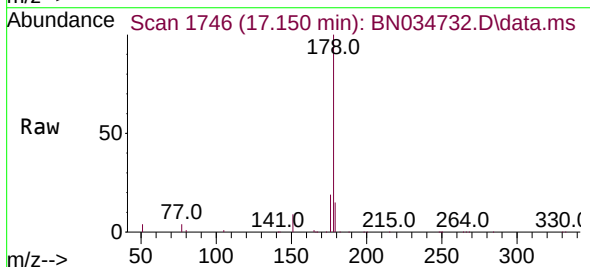
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

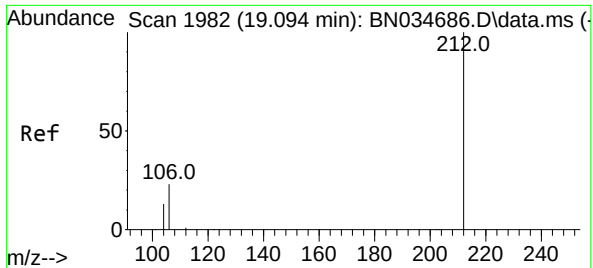
Tgt Ion:178 Resp: 28002
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.353 ng
RT: 17.150 min Scan# 1746
Delta R.T. -0.043 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:178 Resp: 24377
Ion Ratio Lower Upper
178 100
176 18.5 14.9 22.3
179 15.1 12.2 18.2

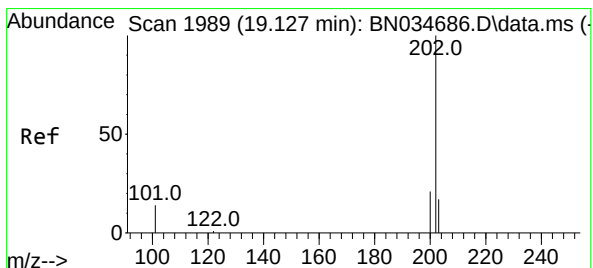
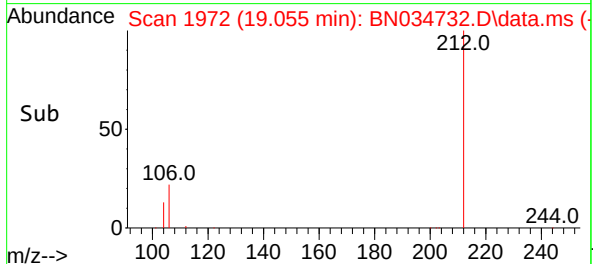
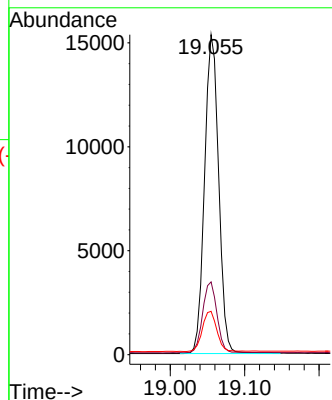
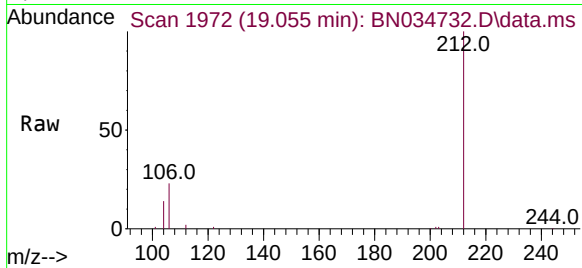




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.055 min Scan# 1972
Delta R.T. -0.039 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

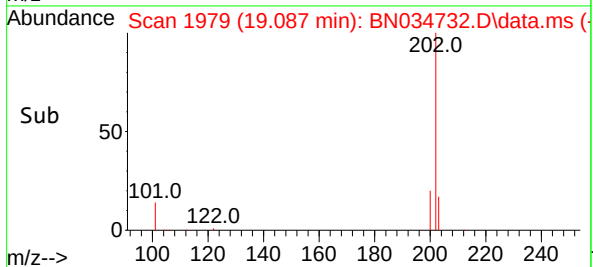
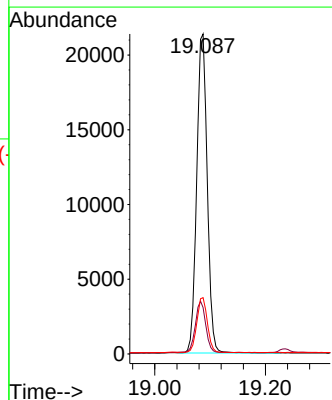
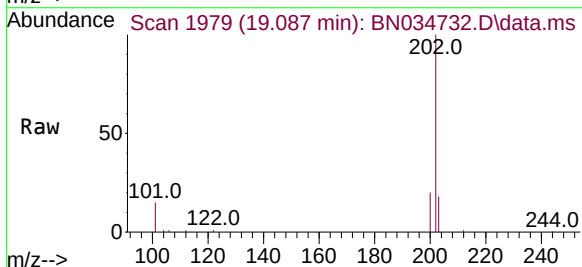
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

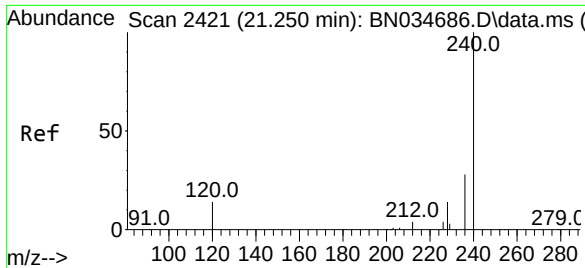
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.7	17.8	26.8
104	12.9	10.2	15.4



#28
Fluoranthene
Concen: 0.348 ng
RT: 19.087 min Scan# 1979
Delta R.T. -0.039 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.2	12.8	19.2
203	17.2	13.5	20.3

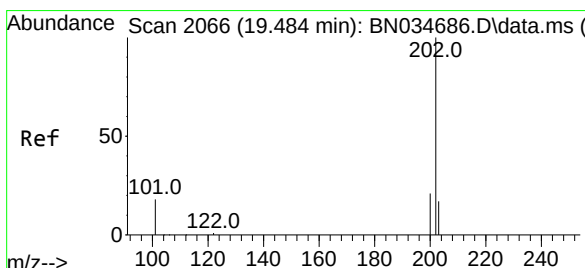
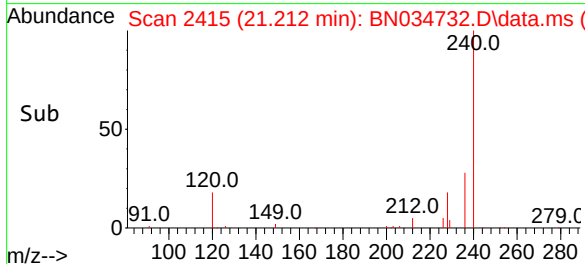
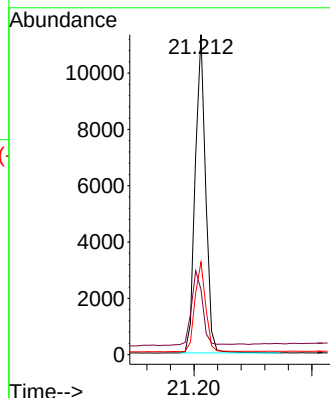
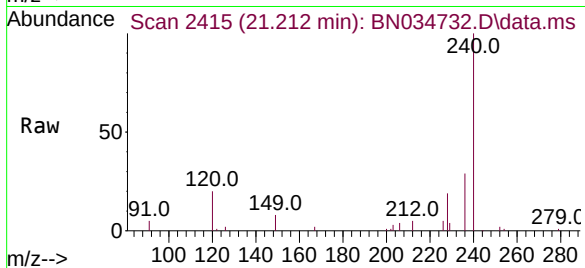




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. -0.038 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

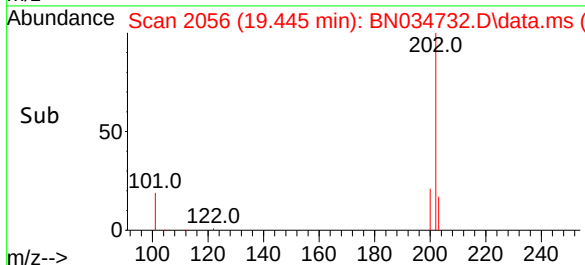
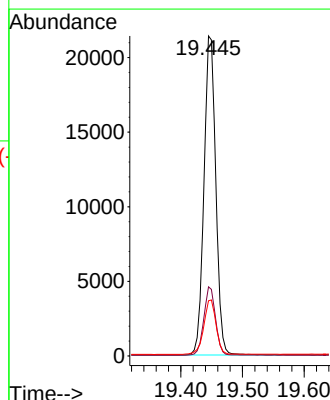
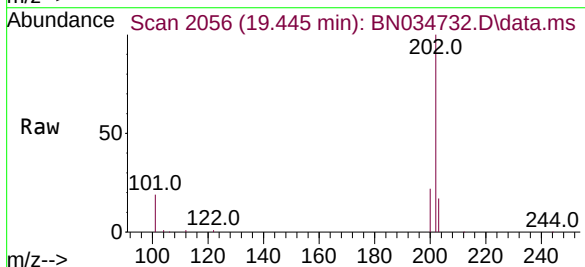
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

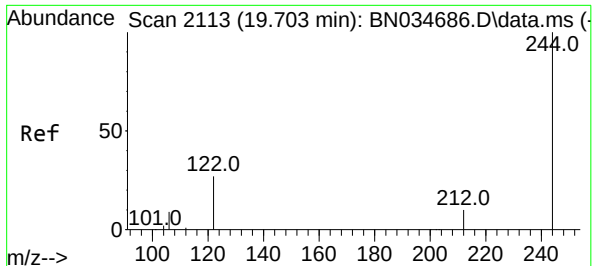
Tgt Ion:240 Resp: 13865
Ion Ratio Lower Upper
240 100
120 20.3 14.2 21.2
236 29.0 23.1 34.7



#30
Pyrene
Concen: 0.399 ng
RT: 19.445 min Scan# 2056
Delta R.T. -0.039 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

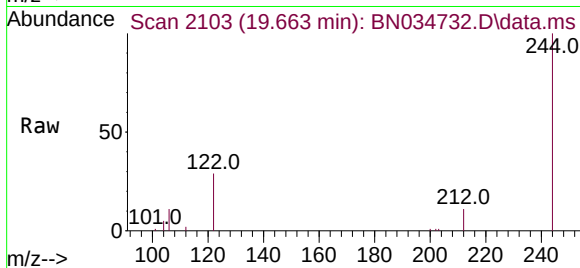
Tgt Ion:202 Resp: 28410
Ion Ratio Lower Upper
202 100
200 21.1 16.6 25.0
203 17.8 14.2 21.4



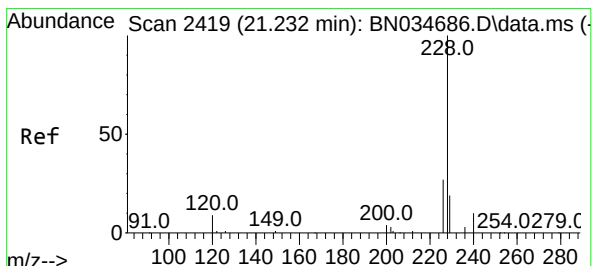
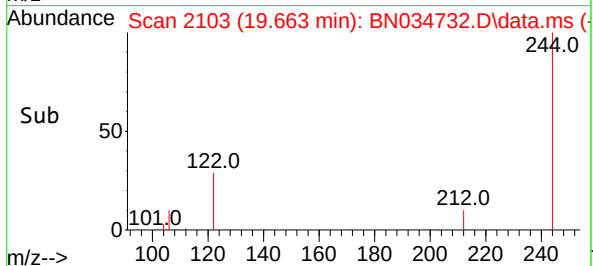
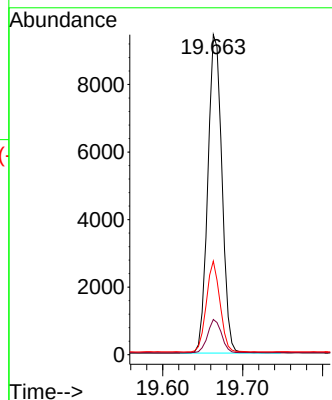


#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.663 min Scan# 2113
Delta R.T. -0.039 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

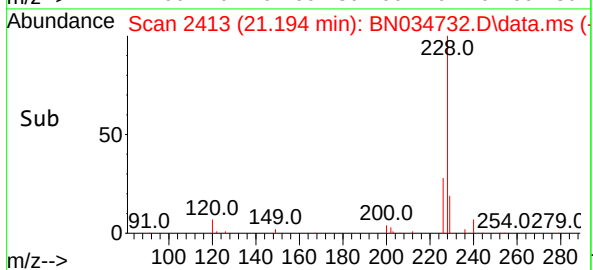
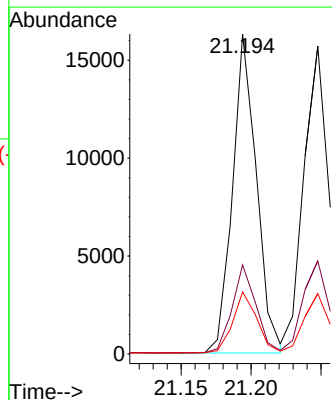
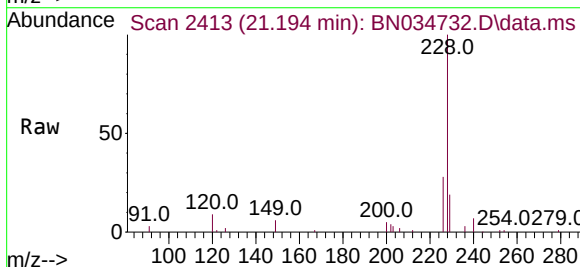


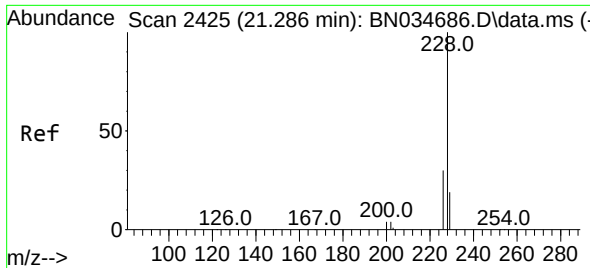
Tgt Ion:244 Resp: 11526
Ion Ratio Lower Upper
244 100
212 11.0 8.6 13.0
122 29.3 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.038 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:228 Resp: 19350
Ion Ratio Lower Upper
228 100
226 27.8 22.0 33.0
229 19.4 15.6 23.4





#33

Chrysene

Concen: 0.361 ng

RT: 21.248 min Scan# 2419

Delta R.T. -0.038 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

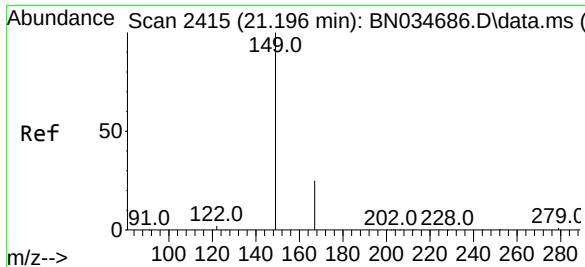
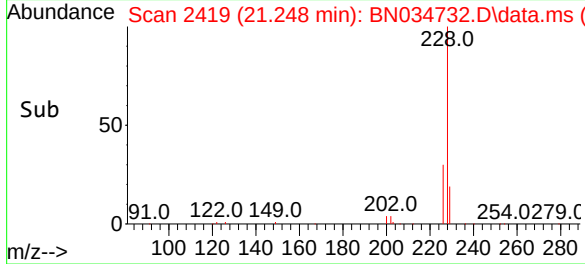
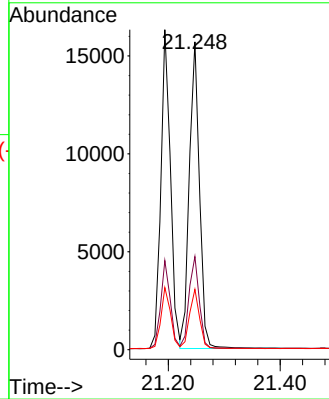
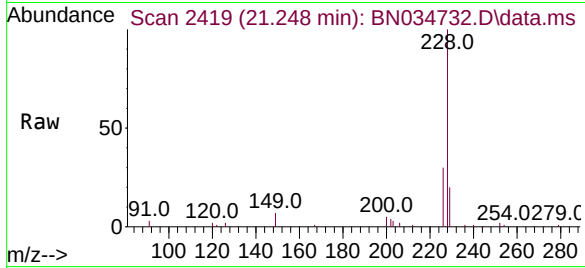
Tgt Ion:228 Resp: 19781

Ion Ratio Lower Upper

228 100

226 30.2 24.1 36.1

229 19.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.524 ng

RT: 21.158 min Scan# 2409

Delta R.T. -0.038 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

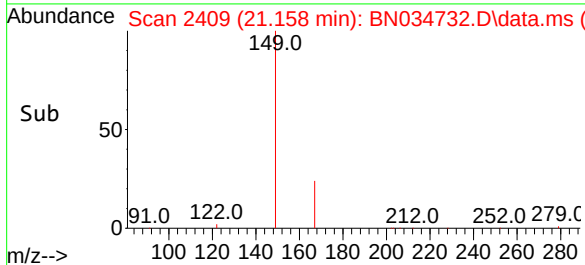
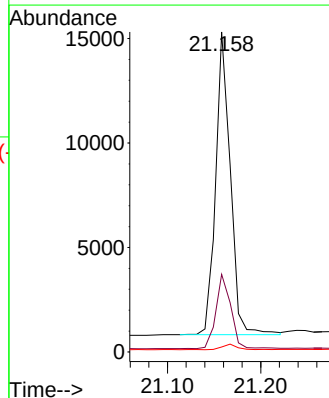
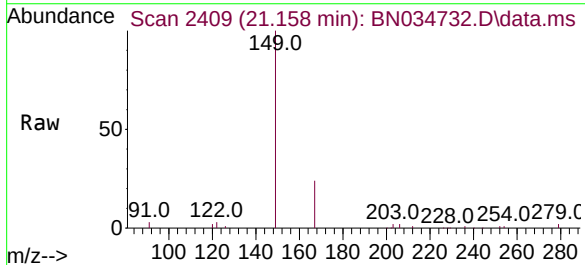
Tgt Ion:149 Resp: 15745

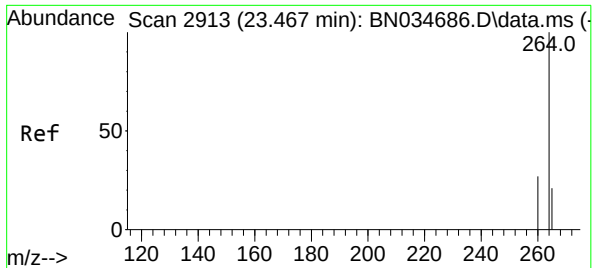
Ion Ratio Lower Upper

149 100

167 24.9 19.7 29.5

279 1.8 1.8 2.6

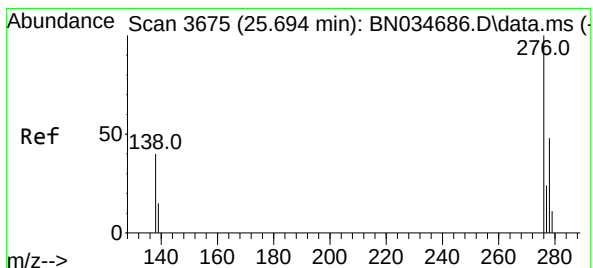
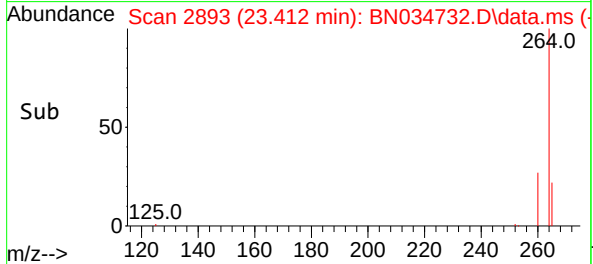
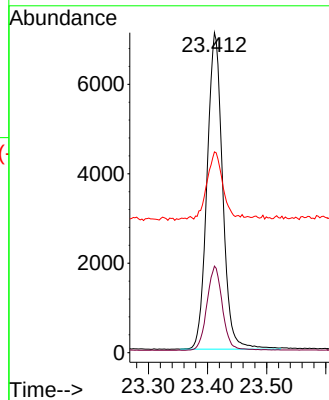
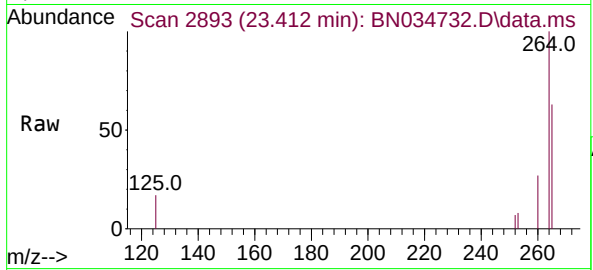




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 21
Delta R.T. -0.055 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

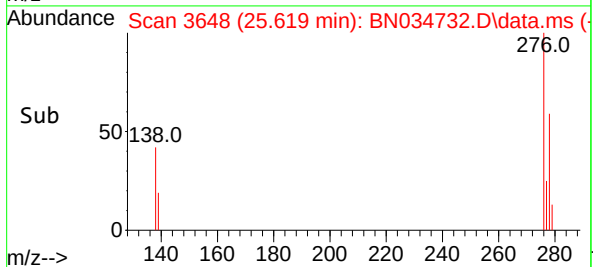
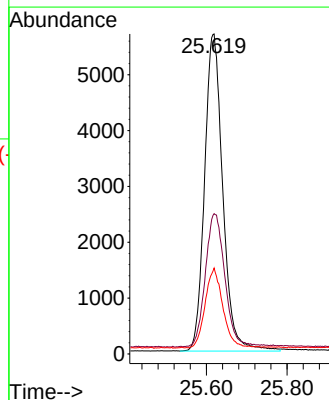
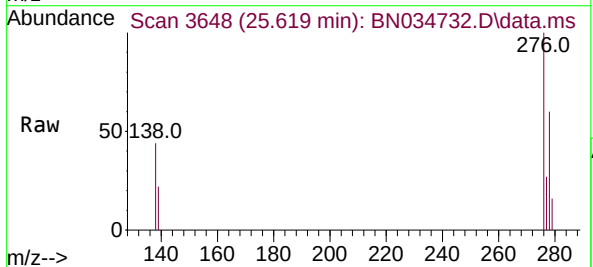
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

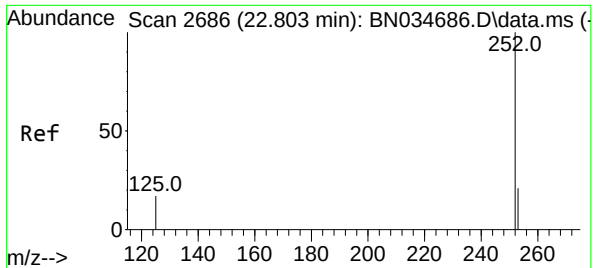
Tgt Ion:264 Resp: 12945
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 62.7 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.619 min Scan# 3648
Delta R.T. -0.075 min
Lab File: BN034732.D
Acq: 25 Oct 2024 20:41

Tgt Ion:276 Resp: 17779
Ion Ratio Lower Upper
276 100
138 44.6 35.1 52.7
277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.353 ng

RT: 22.754 min Scan# 2668

Delta R.T. -0.049 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

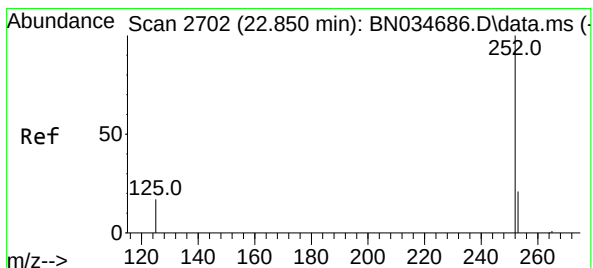
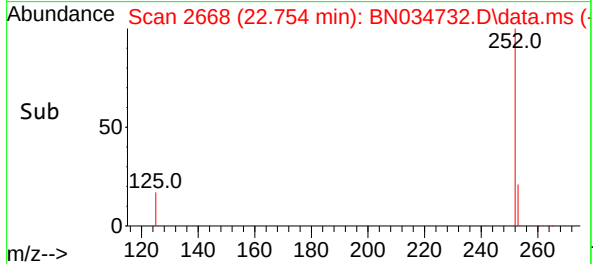
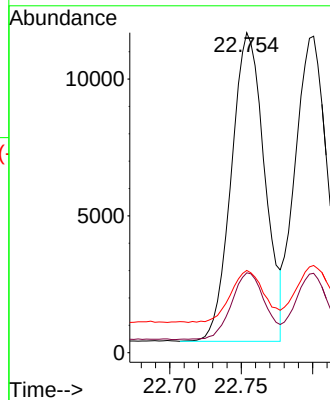
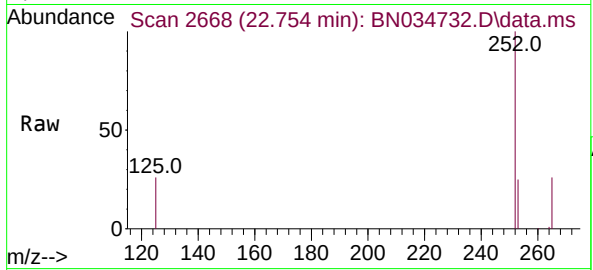
Tgt Ion:252 Resp: 18264

Ion Ratio Lower Upper

252 100

253 24.9 20.0 30.0

125 25.7 20.9 31.3



#38

Benzo(k)fluoranthene

Concen: 0.351 ng

RT: 22.801 min Scan# 2684

Delta R.T. -0.049 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

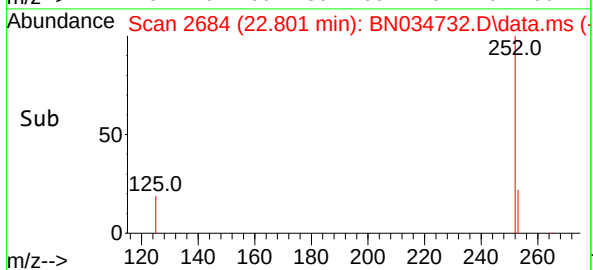
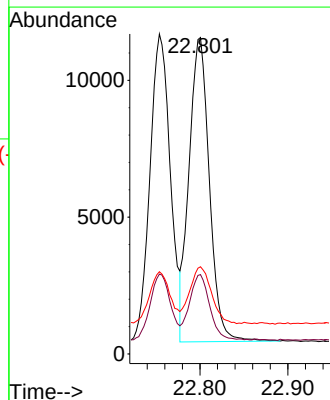
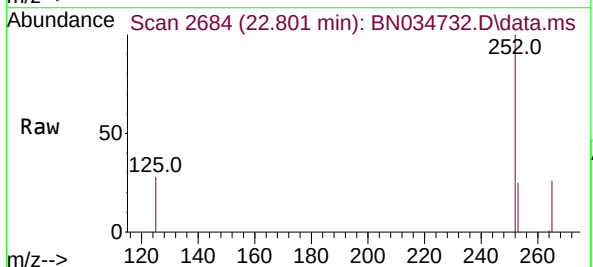
Tgt Ion:252 Resp: 17879

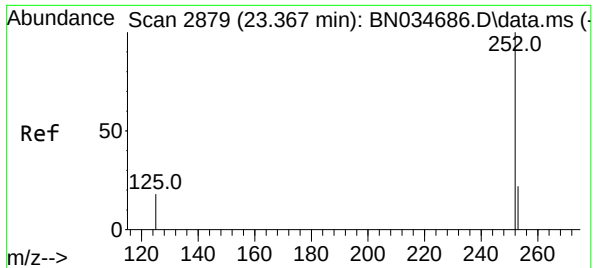
Ion Ratio Lower Upper

252 100

253 25.1 20.6 31.0

125 27.6 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.352 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.052 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

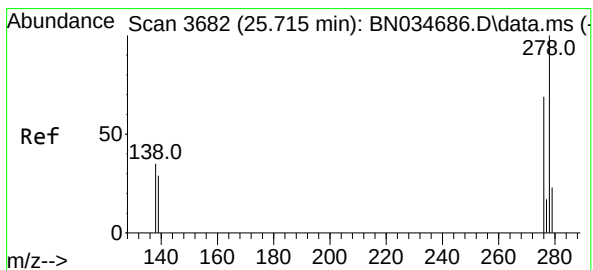
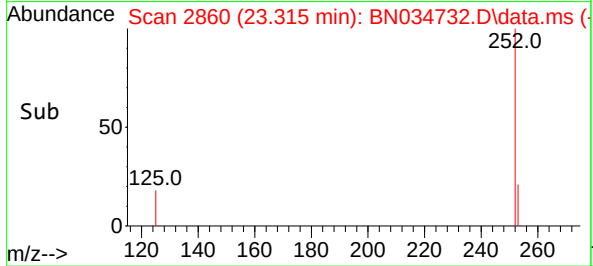
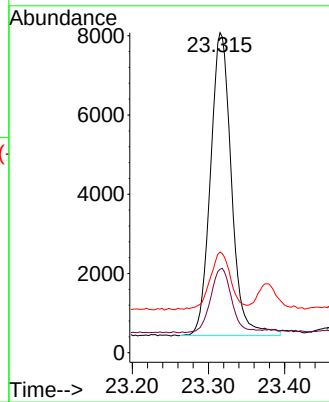
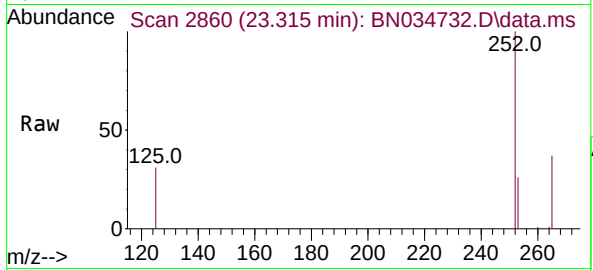
Tgt Ion:252 Resp: 14600

Ion Ratio Lower Upper

252 100

253 26.0 22.2 33.4

125 31.4 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.634 min Scan# 3653

Delta R.T. -0.081 min

Lab File: BN034732.D

Acq: 25 Oct 2024 20:41

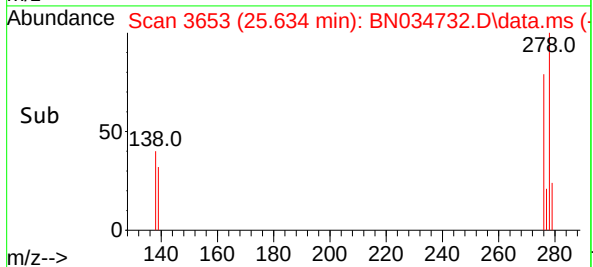
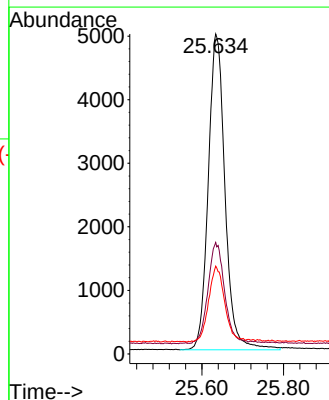
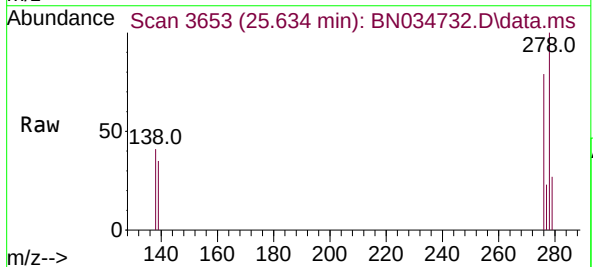
Tgt Ion:278 Resp: 14173

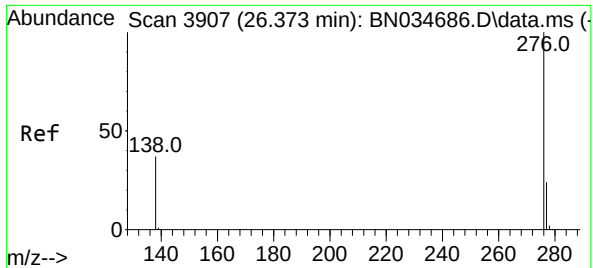
Ion Ratio Lower Upper

278 100

139 34.8 25.4 38.2

279 27.5 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.353 ng

RT: 26.286 min Scan# 31

Delta R.T. -0.087 min

Lab File: BN034732.D

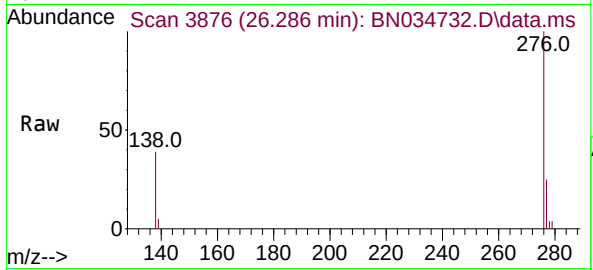
Acq: 25 Oct 2024 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



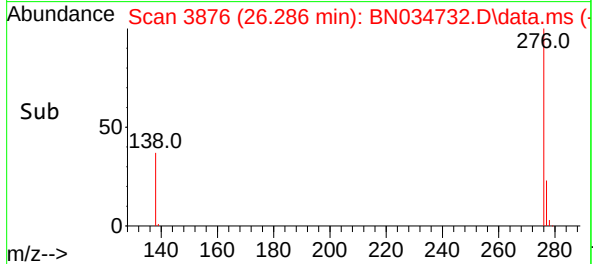
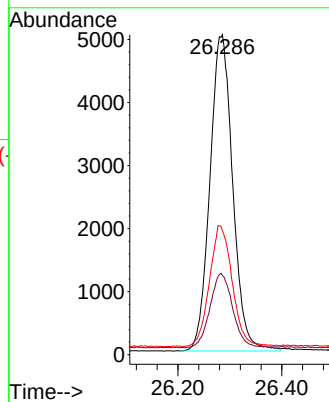
Tgt Ion:276 Resp: 15303

Ion Ratio Lower Upper

276 100

277 24.7 21.3 31.9

138 38.8 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034732.D
Acq On : 25 Oct 2024 20:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 25 22:43:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 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	138	-0.06
2	1,4-Dioxane	0.532	0.481	9.6	136	-0.04
3	n-Nitrosodimethylamine	0.775	0.676	12.8	132	-0.04
4 S	2-Fluorophenol	1.189	1.284	-8.0	165#	-0.06
5 S	Phenol-d6	1.568	1.673	-6.7	166#	-0.06
6	bis(2-Chloroethyl)ether	1.274	1.191	6.5	144	-0.06
7 I	Naphthalene-d8	1.000	1.000	0.0	140	-0.06
8 S	Nitrobenzene-d5	0.336	0.311	7.4	148	-0.06
9	Naphthalene	1.107	1.007	9.0	143	-0.06
10	Hexachlorobutadiene	0.166	0.149	10.2	141	-0.06
11 SURR	2-Methylnaphthalene-d10	0.550	0.499	9.3	146	-0.06
12	2-Methylnaphthalene	0.687	0.625	9.0	146	-0.06
13 I	Acenaphthene-d10	1.000	1.000	0.0	145	-0.06
14 S	2,4,6-Tribromophenol	0.124	0.129	-4.0	194#	-0.04
15 S	2-Fluorobiphenyl	1.590	1.375	13.5	144	-0.05
16	Acenaphthylene	1.921	1.606	16.4	147	-0.05
17	Acenaphthene	1.324	1.137	14.1	147	-0.06
18	Fluorene	1.634	1.405	14.0	147	-0.05
19 I	Phenanthrene-d10	1.000	1.000	0.0	143	-0.04
20	4,6-Dinitro-2-methylphenol	0.056	0.046	17.9	154#	-0.05
21	4-Bromophenyl-phenylether	0.213	0.196	8.0	147	-0.04
22	Hexachlorobenzene	0.231	0.209	9.5	141	-0.04
23	Atrazine	0.168	0.160	4.8	163#	-0.04
24	Pentachlorophenol	0.082	0.084	-2.4	186#	-0.04
25	Phenanthrene	1.202	1.080	10.1	145	-0.04
26	Anthracene	1.067	0.941	11.8	144	-0.04
27 SURR	Fluoranthene-d10	0.901	0.778	13.7	142	-0.04
28	Fluoranthene	1.253	1.090	13.0	142	-0.04
29 I	Chrysene-d12	1.000	1.000	0.0	130	-0.04
30	Pyrene	2.055	2.049	0.3	142	-0.04
31 S	Terphenyl-d14	0.817	0.831	-1.7	147	-0.04
32	Benzo(a)anthracene	1.528	1.396	8.6	133	-0.04
33	Chrysene	1.581	1.427	9.7	129	-0.04
34	Bis(2-ethylhexyl)phthalate	0.867	1.136	-31.0#	205#	-0.04
35 I	Perylene-d12	1.000	1.000	0.0	135	-0.05
36	Indeno(1,2,3-cd)pyrene	1.541	1.373	10.9	131	-0.08
37	Benzo(b)fluoranthene	1.597	1.411	11.6	129	-0.05
38	Benzo(k)fluoranthene	1.576	1.381	12.4	134	-0.05
39 C	Benzo(a)pyrene	1.282	1.128	12.0	131	-0.05
40	Dibenzo(a,h)anthracene	1.215	1.095	9.9	133	-0.08
41	Benzo(g,h,i)perylene	1.340	1.182	11.8	126	-0.09

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034732.D
Acq On : 25 Oct 2024 20:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 25 22:43:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 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	138	-0.06
2	1,4-Dioxane	0.400	0.361	9.8	136	-0.04
3	n-Nitrosodimethylamine	0.400	0.349	12.8	132	-0.04
4 S	2-Fluorophenol	0.400	0.432	-8.0	165	-0.06
5 S	Phenol-d6	0.400	0.427	-6.7	166	-0.06
6	bis(2-Chloroethyl)ether	0.400	0.374	6.5	144	-0.06
7 I	Naphthalene-d8	0.400	0.400	0.0	140	-0.06
8 S	Nitrobenzene-d5	0.400	0.370	7.5	148	-0.06
9	Naphthalene	0.400	0.364	9.0	143	-0.06
10	Hexachlorobutadiene	0.400	0.360	10.0	141	-0.06
11 SURR	2-Methylnaphthalene-d10	0.400	0.363	9.3	146	-0.06
12	2-Methylnaphthalene	0.400	0.364	9.0	146	-0.06
13 I	Acenaphthene-d10	0.400	0.400	0.0	145	-0.06
14 S	2,4,6-Tribromophenol	0.400	0.417	-4.2	194	-0.04
15 S	2-Fluorobiphenyl	0.400	0.346	13.5	144	-0.05
16	Acenaphthylene	0.400	0.334	16.5	147	-0.05
17	Acenaphthene	0.400	0.343	14.2	147	-0.06
18	Fluorene	0.400	0.344	14.0	147	-0.05
19 I	Phenanthrene-d10	0.400	0.400	0.0	143	-0.04
20	4,6-Dinitro-2-methylphenol	0.400	0.331	17.3	154	-0.05
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	147	-0.04
22	Hexachlorobenzene	0.400	0.361	9.8	141	-0.04
23	Atrazine	0.400	0.383	4.3	163	-0.04
24	Pentachlorophenol	0.400	0.409	-2.2	186	-0.04
25	Phenanthrene	0.400	0.360	10.0	145	-0.04
26	Anthracene	0.400	0.353	11.8	144	-0.04
27 SURR	Fluoranthene-d10	0.400	0.346	13.5	142	-0.04
28	Fluoranthene	0.400	0.348	13.0	142	-0.04
29 I	Chrysene-d12	0.400	0.400	0.0	130	-0.04
30	Pyrene	0.400	0.399	0.3	142	-0.04
31 S	Terphenyl-d14	0.400	0.407	-1.7	147	-0.04
32	Benzo(a)anthracene	0.400	0.365	8.8	133	-0.04
33	Chrysene	0.400	0.361	9.8	129	-0.04
34	Bis(2-ethylhexyl)phthalate	0.400	0.524	-31.0#	205	-0.04
35 I	Perylene-d12	0.400	0.400	0.0	135	-0.05
36	Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	131	-0.08
37	Benzo(b)fluoranthene	0.400	0.353	11.8	129	-0.05
38	Benzo(k)fluoranthene	0.400	0.351	12.3	134	-0.05
39 C	Benzo(a)pyrene	0.400	0.352	12.0	131	-0.05
40	Dibenzo(a,h)anthracene	0.400	0.360	10.0	133	-0.08
41	Benzo(g,h,i)perylene	0.400	0.353	11.8	126	-0.09

(#) = 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.: P4550 SAS No.: P4550 SDG No.: P4550

Instrument ID: BNA_N Calibration Date/Time: 10/26/2024 10:16

Lab File ID: BN034734.D Init. Calib. Date(s): 10/24/2024 10/24/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:11 12:48

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.550	0.496		-9.8	20.0
Fluoranthene-d10	0.901	0.780		-13.4	20.0
2-Fluorophenol	1.189	1.207		1.5	20.0
Phenol-d6	1.568	1.607		2.5	20.0
Nitrobenzene-d5	0.336	0.310		-7.7	20.0
2-Fluorobiphenyl	1.590	1.390		-12.6	20.0
2,4,6-Tribromophenol	0.124	0.123		-0.8	20.0
Terphenyl-d14	0.817	0.806		-1.3	20.0
1,4-Dioxane	0.532	0.469		-11.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034734.D
 Acq On : 26 Oct 2024 10:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 28 00:52:50 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 28 00:44:15 2024
 Response via : Initial Calibration

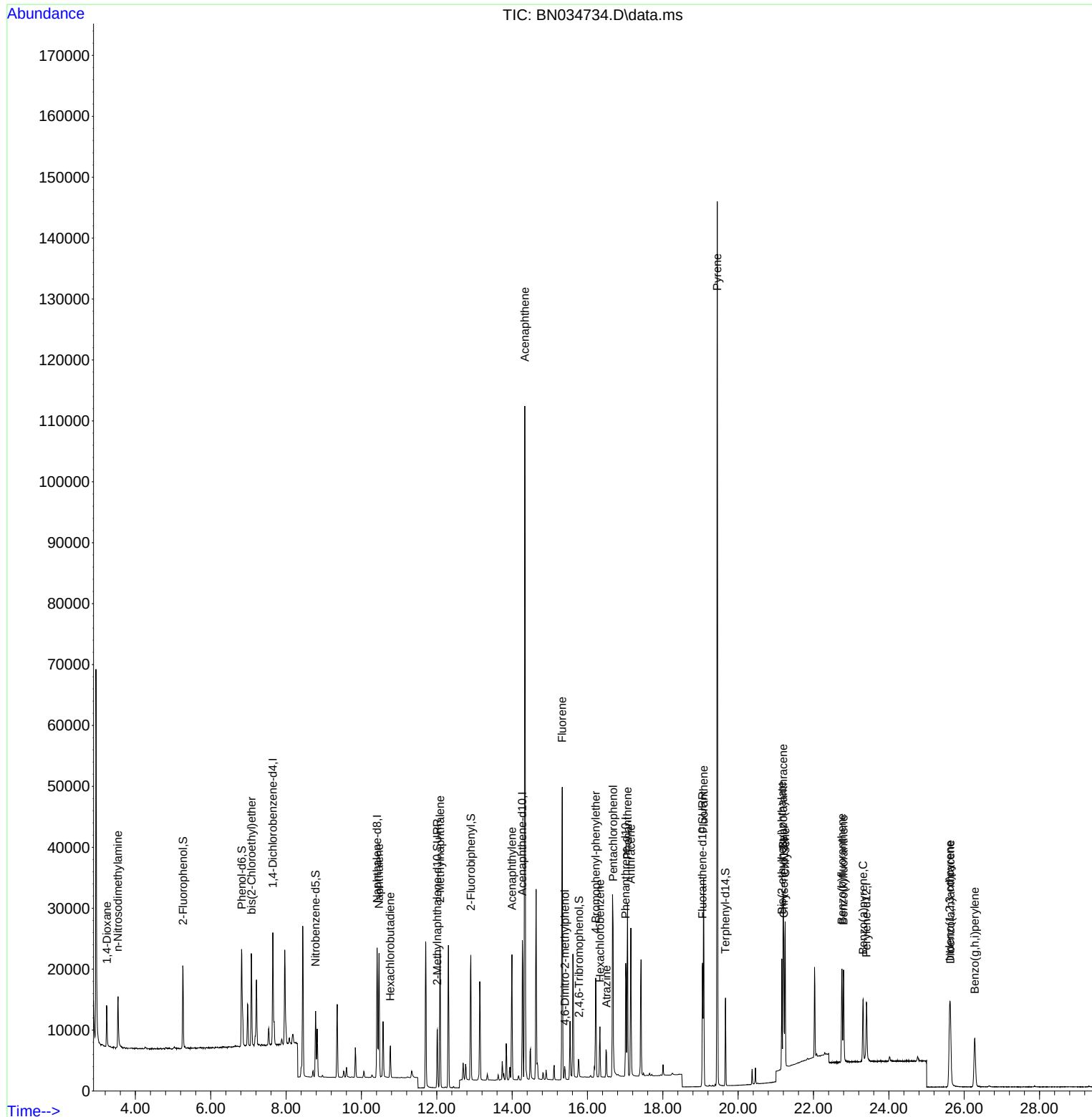
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	8464	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	25235	0.400	ng	0.00
13) Acenaphthene-d10	14.272	164	12818	0.400	ng	0.00
19) Phenanthrene-d10	17.014	188	25182	0.400	ng	# 0.00
29) Chrysene-d12	21.212	240	13756	0.400	ng	0.00
35) Perylene-d12	23.406	264	12370	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	10218	0.406	ng	0.00
5) Phenol-d6	6.824	99	13601	0.410	ng	0.00
8) Nitrobenzene-d5	8.781	82	7829	0.370	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	12504	0.360	ng	0.00
14) 2,4,6-Tribromophenol	15.772	330	1581	0.399	ng	0.00
15) 2-Fluorobiphenyl	12.903	172	17822	0.350	ng	0.00
27) Fluoranthene-d10	19.054	212	19637	0.346	ng	0.00
31) Terphenyl-d14	19.663	244	11088	0.394	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.241	88	3973	0.353	ng	99
3) n-Nitrosodimethylamine	3.537	42	5866	0.358	ng	98
6) bis(2-Chloroethyl)ether	7.084	93	10156	0.377	ng	99
9) Naphthalene	10.468	128	25491	0.365	ng	100
10) Hexachlorobutadiene	10.767	225	3736	0.357	ng	# 99
12) 2-Methylnaphthalene	12.086	142	15825	0.365	ng	99
16) Acenaphthylene	13.994	152	21006	0.341	ng	99
17) Acenaphthene	14.336	154	50555	1.192	ng	99
18) Fluorene	15.330	166	18595	0.355	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	1168	0.333	ng	# 77
21) 4-Bromophenyl-phenylether	16.219	248	4856	0.362	ng	# 66
22) Hexachlorobenzene	16.331	284	5271	0.362	ng	98
23) Atrazine	16.505	200	3853	0.365	ng	100
24) Pentachlorophenol	16.678	266	14104	2.739	ng	99
25) Phenanthrene	17.063	178	27642	0.365	ng	100
26) Anthracene	17.150	178	23761	0.354	ng	100
28) Fluoranthene	19.082	202	28028	0.355	ng	100
30) Pyrene	19.445	202	115327	1.632	ng	99
32) Benzo(a)anthracene	21.194	228	19263	0.367	ng	99
33) Chrysene	21.247	228	19885	0.366	ng	100
34) Bis(2-ethylhexyl)phtha...	21.158	149	15102	0.507	ng	100
36) Indeno(1,2,3-cd)pyrene	25.613	276	16950	0.356	ng	97
37) Benzo(b)fluoranthene	22.754	252	17411	0.352	ng	99
38) Benzo(k)fluoranthene	22.798	252	17426	0.358	ng	98
39) Benzo(a)pyrene	23.315	252	13601	0.343	ng	97
40) Dibenzo(a,h)anthracene	25.634	278	13531	0.360	ng	95
41) Benzo(g,h,i)perylene	26.280	276	14598	0.352	ng	98

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

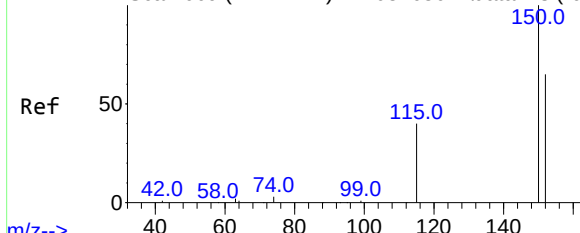
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034734.D
Acq On : 26 Oct 2024 10:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 28 00:52:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration



Abundance Scan 669 (7.712 min): BN034686.D\data.ms (-66)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.647 min Scan# 60

Delta R.T. -0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:152 Resp: 8464

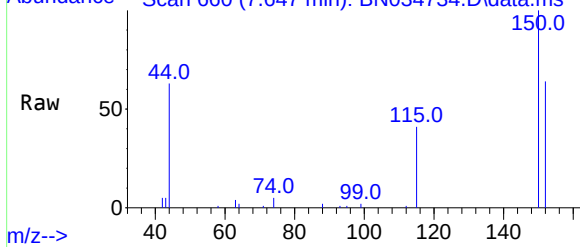
Ion Ratio Lower Upper

152 100

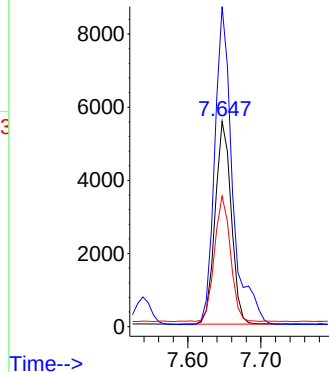
150 155.9 122.7 184.1

115 63.6 51.0 76.6

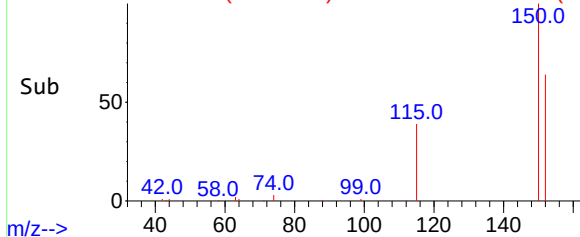
Abundance Scan 660 (7.647 min): BN034734.D\data.ms



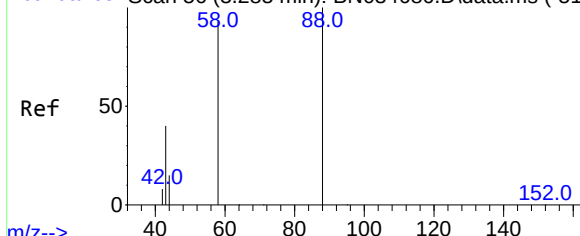
Abundance



Abundance Scan 660 (7.647 min): BN034734.D\data.ms (-63)



Abundance Scan 56 (3.285 min): BN034686.D\data.ms (-51)



#2

1,4-Dioxane

Concen: 0.353 ng

RT: 3.241 min Scan# 50

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Tgt Ion: 88 Resp: 3973

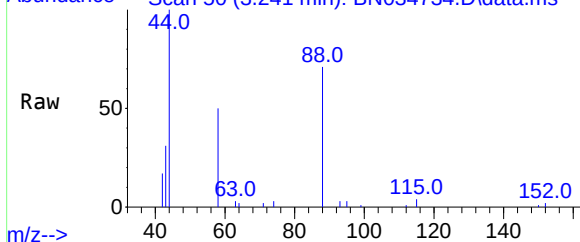
Ion Ratio Lower Upper

88 100

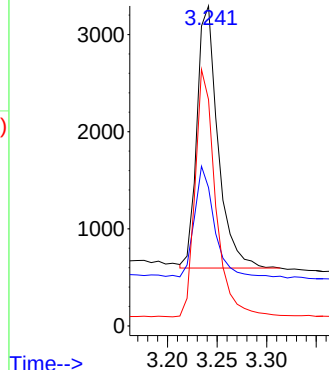
43 39.6 32.1 48.1

58 92.4 73.7 110.5

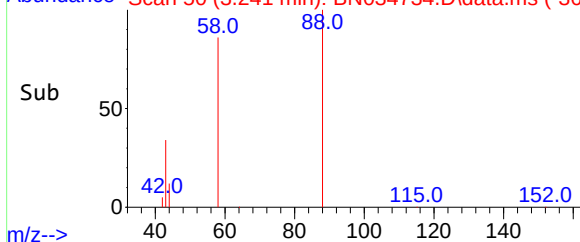
Abundance Scan 50 (3.241 min): BN034734.D\data.ms



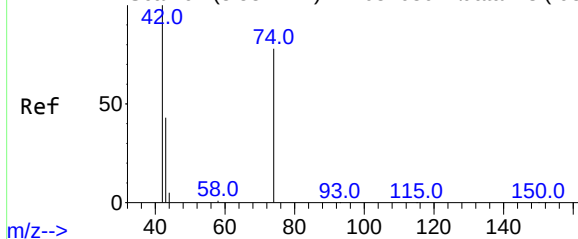
Abundance



Abundance Scan 50 (3.241 min): BN034734.D\data.ms (-36)



Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



#3

n-Nitrosodimethylamine

Concen: 0.358 ng

RT: 3.537 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 5866

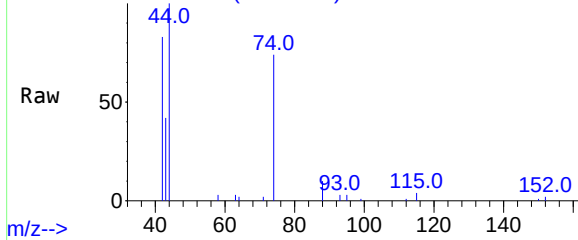
Ion Ratio Lower Upper

42 100

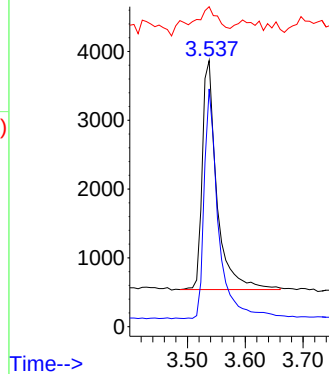
74 97.9 77.2 115.8

44 14.9 13.4 20.2

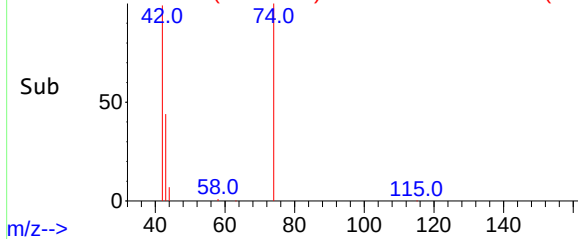
Abundance Scan 91 (3.537 min): BN034734.D\data.ms



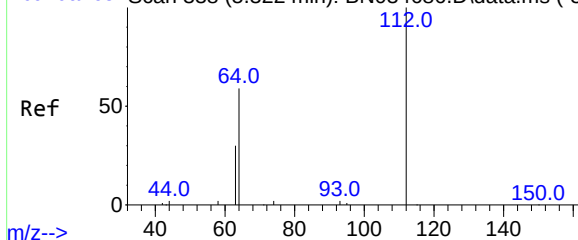
Abundance



Abundance Scan 91 (3.537 min): BN034734.D\data.ms (-70)



Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



#4

2-Fluorophenol

Concen: 0.406 ng

RT: 5.264 min Scan# 330

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Tgt Ion: 112 Resp: 10218

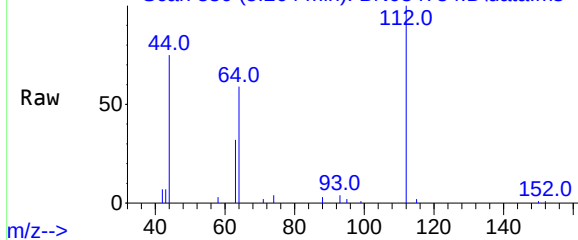
Ion Ratio Lower Upper

112 100

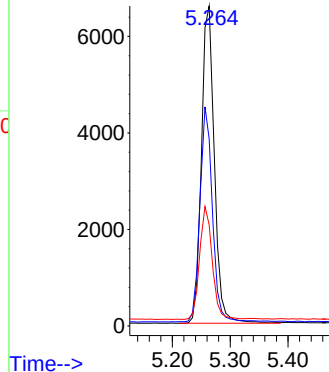
64 65.9 53.0 79.6

63 34.6 27.6 41.4

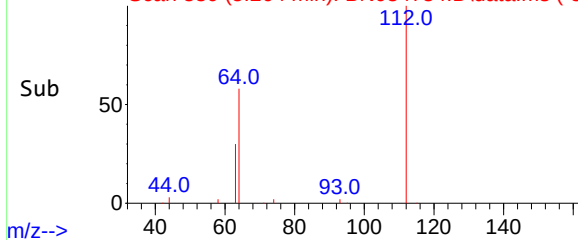
Abundance Scan 330 (5.264 min): BN034734.D\data.ms



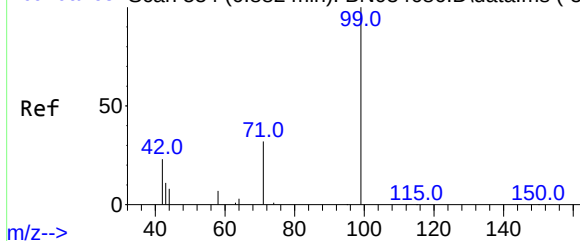
Abundance



Abundance Scan 330 (5.264 min): BN034734.D\data.ms (-30)



Abundance Scan 554 (6.882 min): BN034686.D\data.ms (-54



#5

Phenol-d6

Concen: 0.410 ng

RT: 6.824 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 99 Resp: 13601

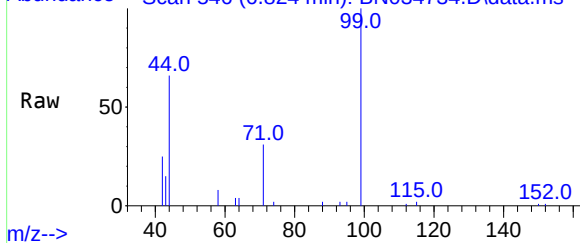
Ion Ratio Lower Upper

99 100

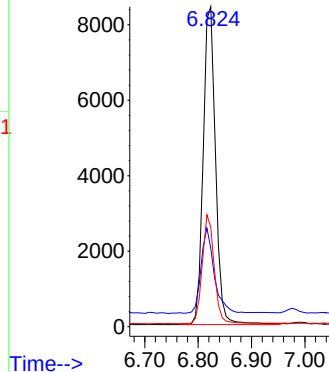
42 29.0 21.8 32.8

71 33.0 26.6 40.0

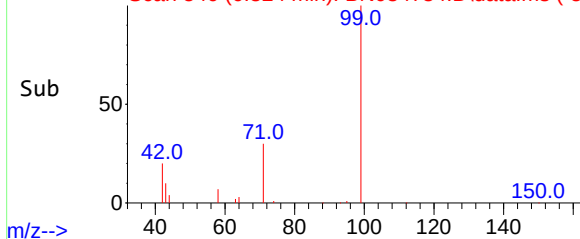
Abundance Scan 546 (6.824 min): BN034734.D\data.ms



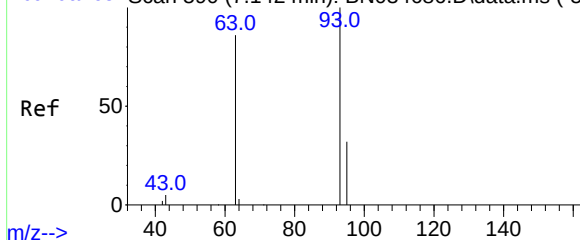
Abundance



Abundance Scan 546 (6.824 min): BN034734.D\data.ms (-51



Abundance Scan 590 (7.142 min): BN034686.D\data.ms (-58



#6

bis(2-Chloroethyl)ether

Concen: 0.377 ng

RT: 7.084 min Scan# 582

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Tgt Ion: 93 Resp: 10156

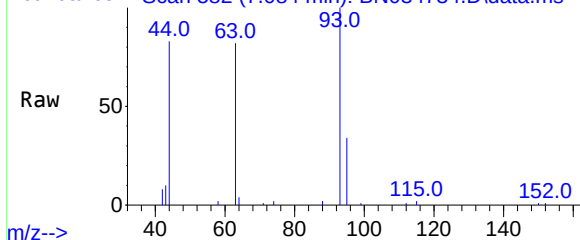
Ion Ratio Lower Upper

93 100

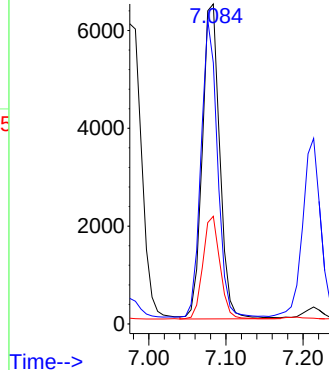
63 88.4 71.5 107.3

95 32.1 25.8 38.6

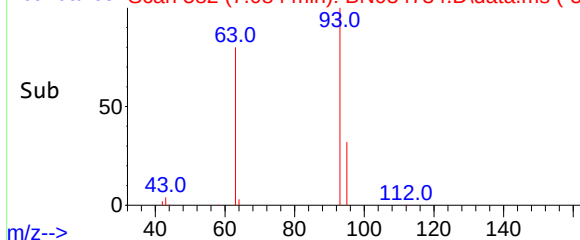
Abundance Scan 582 (7.084 min): BN034734.D\data.ms

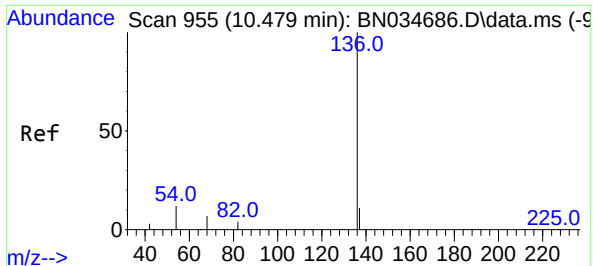


Abundance



Abundance Scan 582 (7.084 min): BN034734.D\data.ms (-55

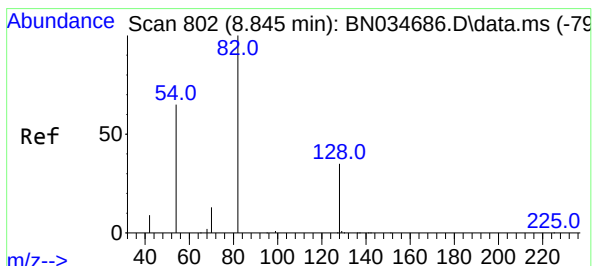
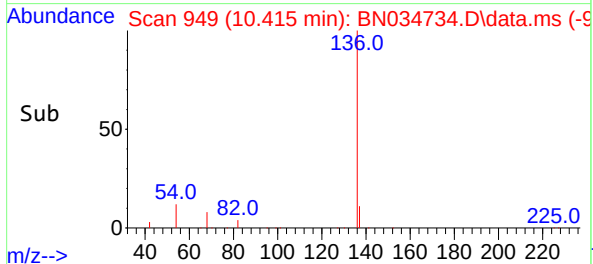
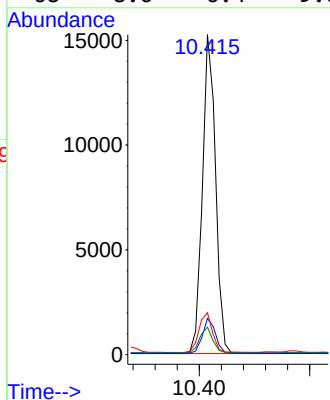
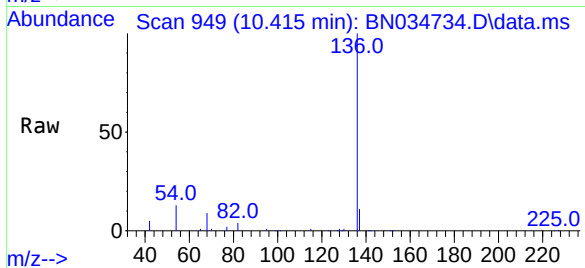




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

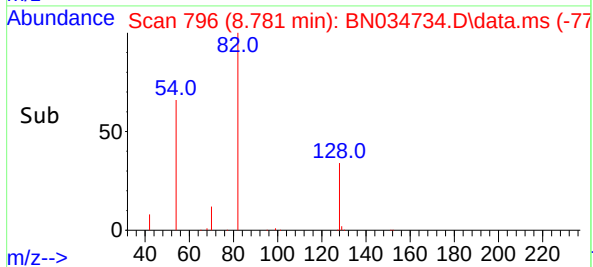
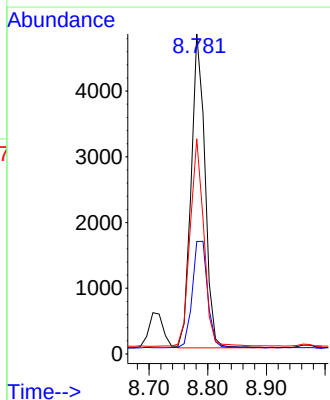
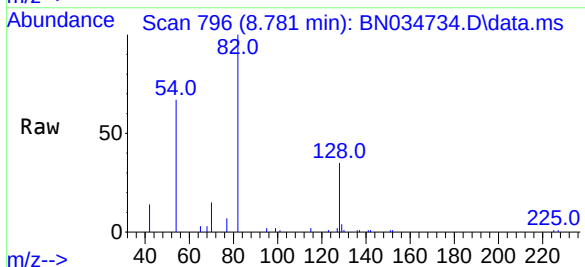
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

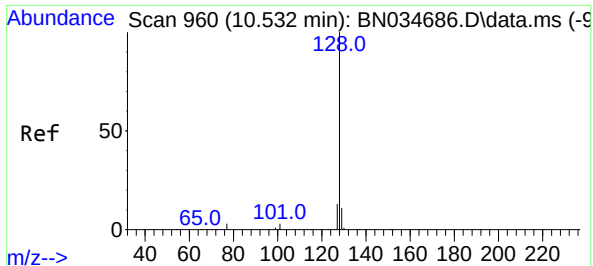
Tgt Ion:	136	Resp:	25235
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	13.1	9.8	14.8
68	8.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:	82	Resp:	7829
Ion	Ratio	Lower	Upper
82	100		
128	35.1	29.7	44.5
54	67.3	53.0	79.6

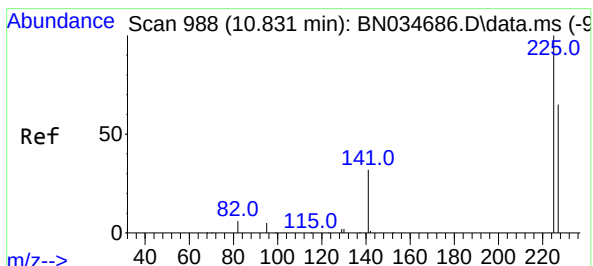
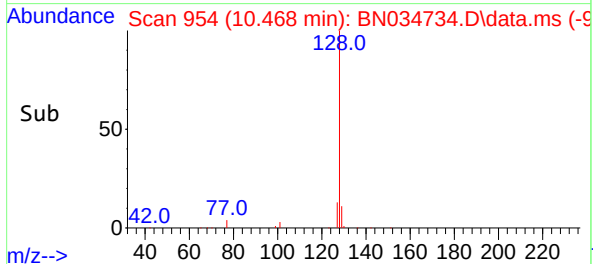
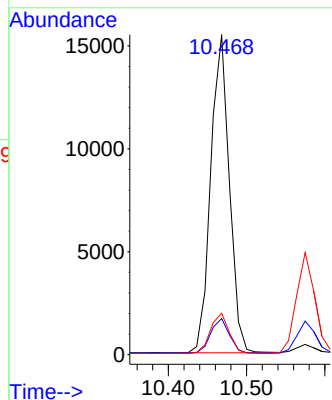
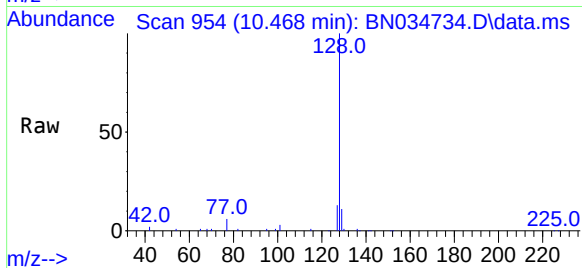




#9
Naphthalene
Concen: 0.365 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

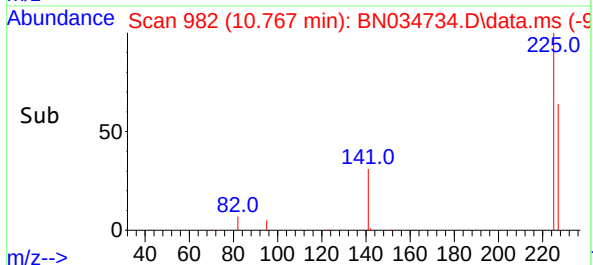
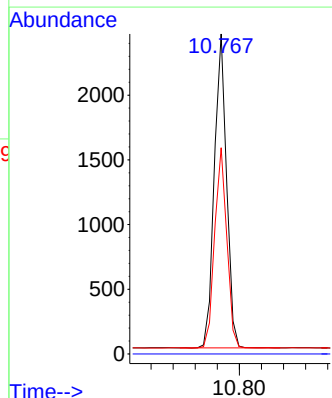
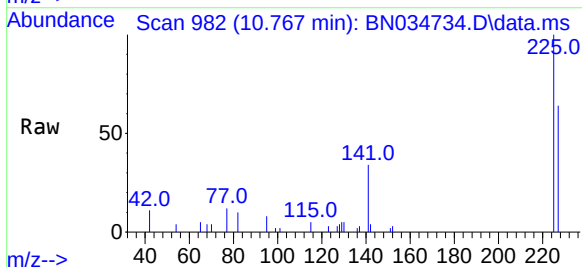
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

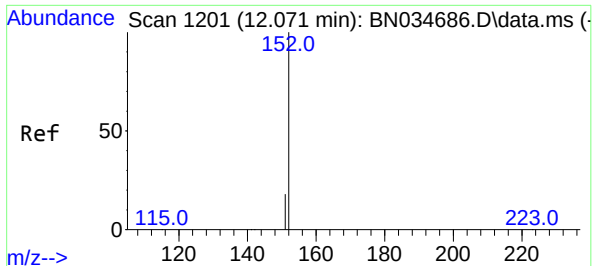
Tgt Ion:128 Resp: 25491
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.0 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:225 Resp: 3736
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.0

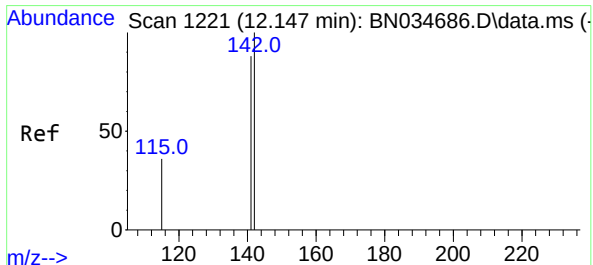
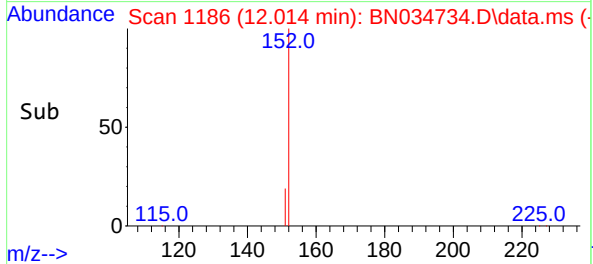
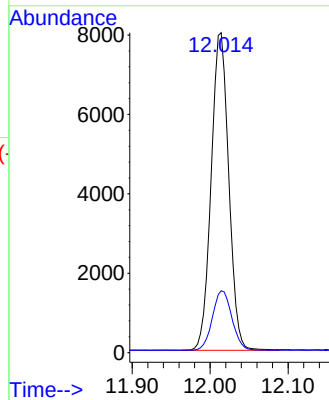
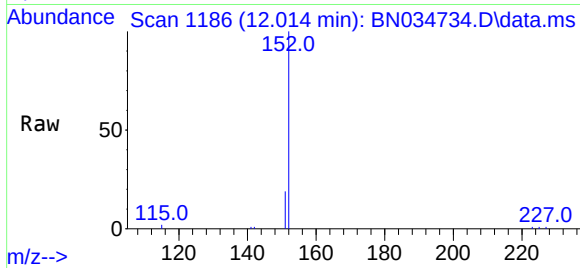




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.014 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

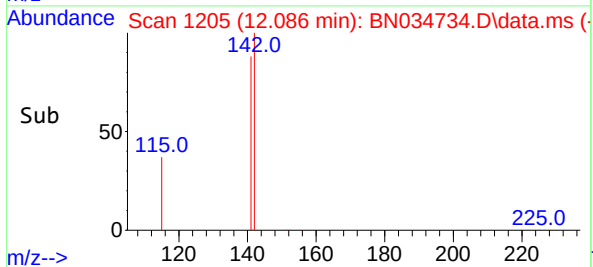
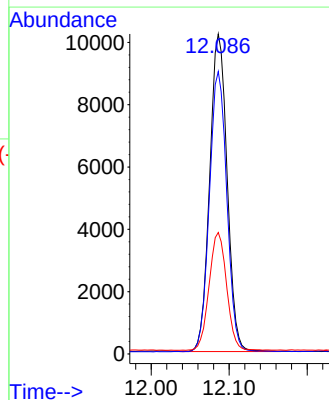
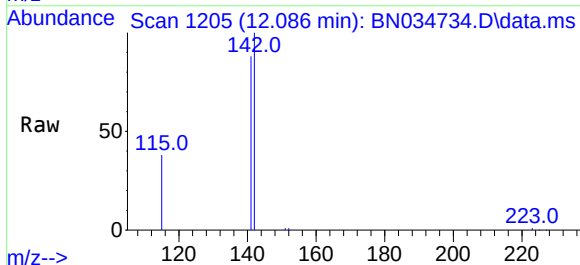
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

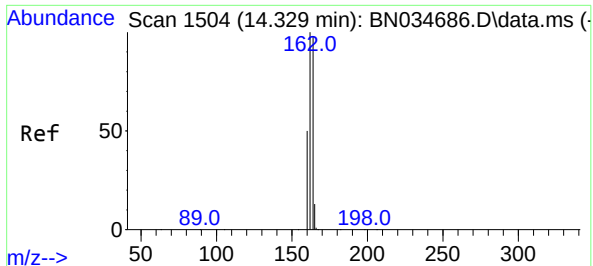
Tgt Ion:152 Resp: 12504
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.086 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:142 Resp: 15825
Ion Ratio Lower Upper
142 100
141 88.3 70.4 105.6
115 37.9 29.8 44.6

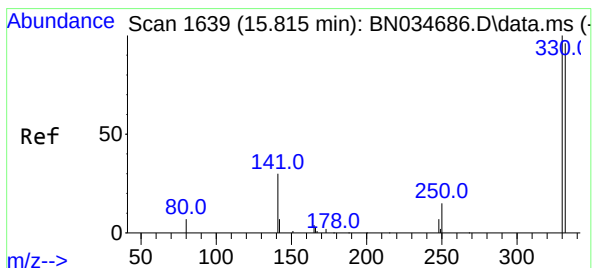
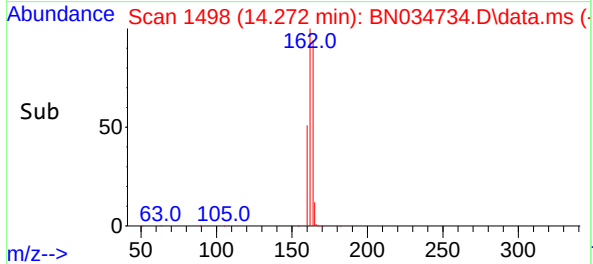
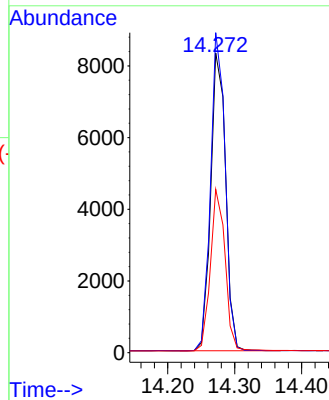
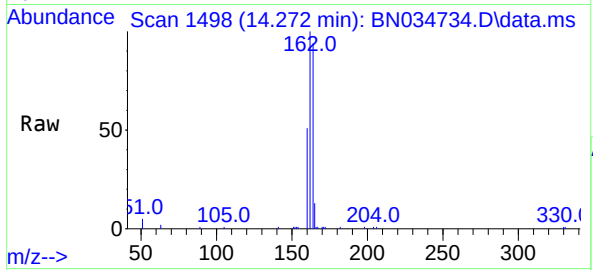




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.272 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

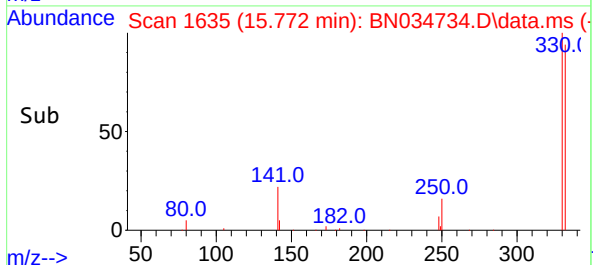
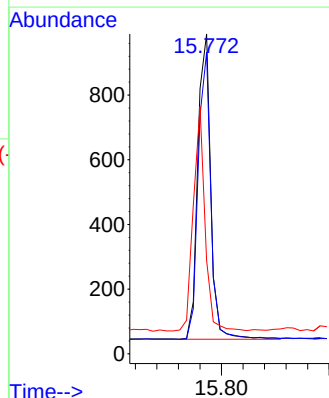
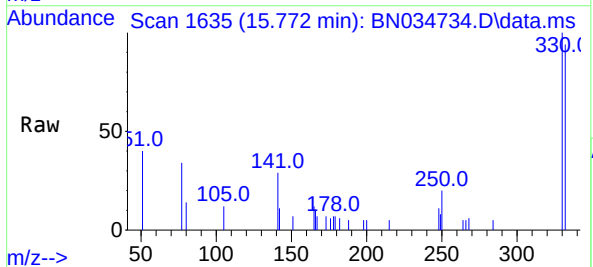
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

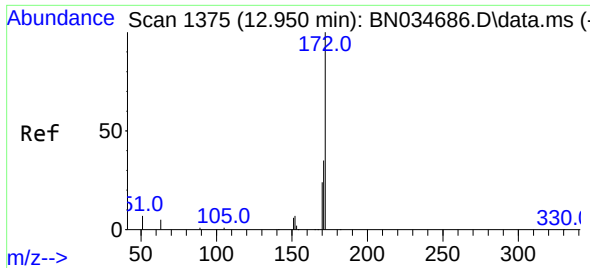
Tgt Ion:164 Resp: 12818
Ion Ratio Lower Upper
164 100
162 106.8 81.4 122.0
160 54.5 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.399 ng
RT: 15.772 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:330 Resp: 1581
Ion Ratio Lower Upper
330 100
332 92.5 76.6 115.0
141 65.9 54.6 81.8

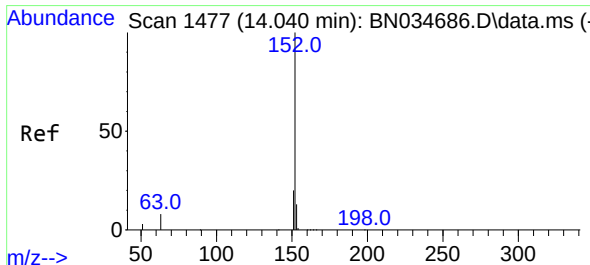
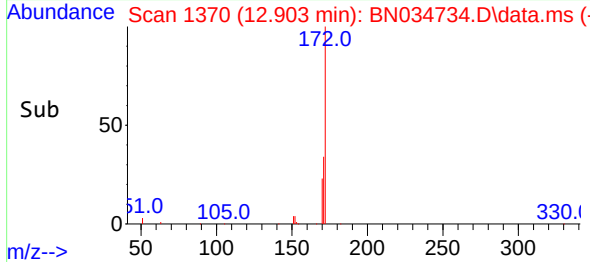
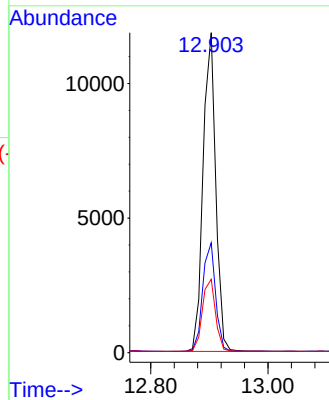
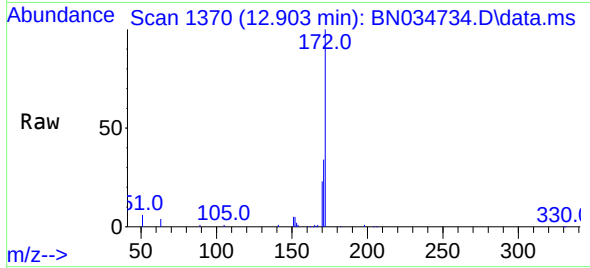




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.903 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

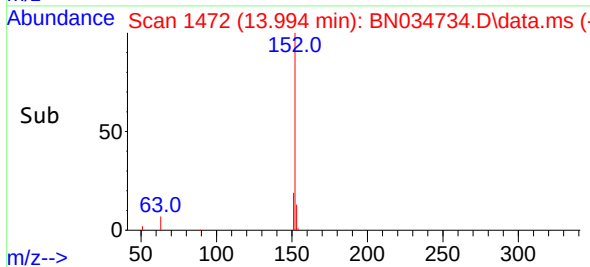
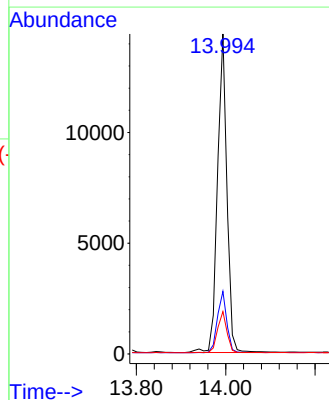
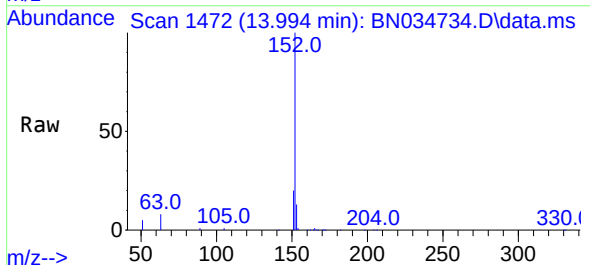
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

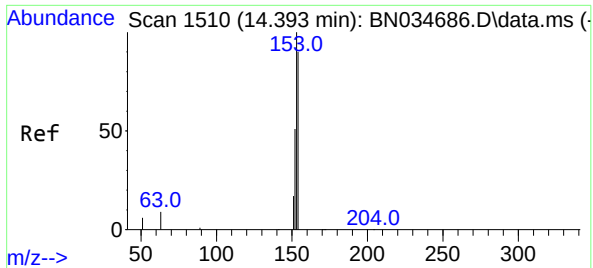
Tgt Ion:	172	Resp:	17822
Ion Ratio	Lower	Upper	
172	100		
171	34.3	28.3	42.5
170	22.9	19.8	29.6



#16
Acenaphthylene
Concen: 0.341 ng
RT: 13.994 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:	152	Resp:	21006
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.6	23.4
153	13.0	10.6	15.8

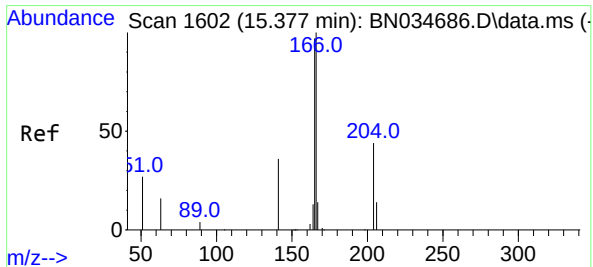
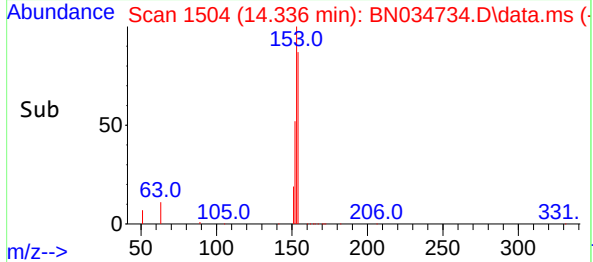
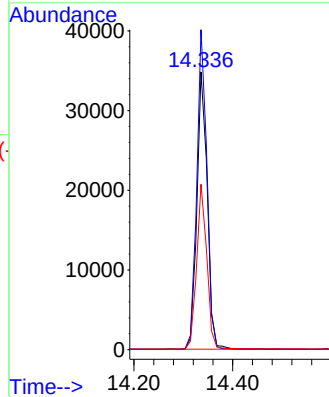
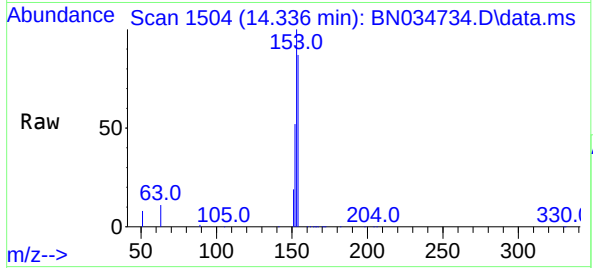




#17
Acenaphthene
Concen: 1.192 ng
RT: 14.336 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

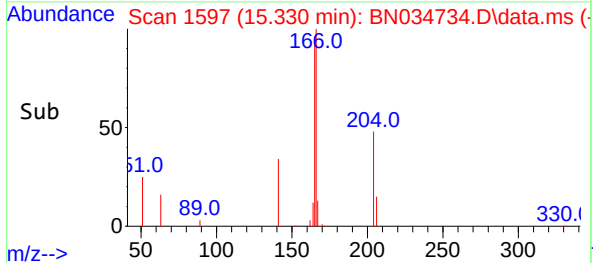
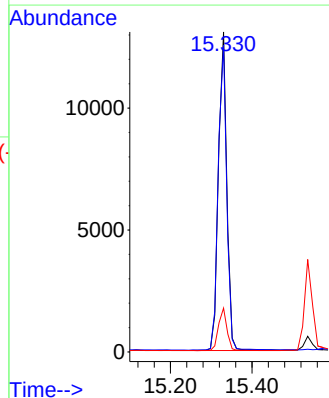
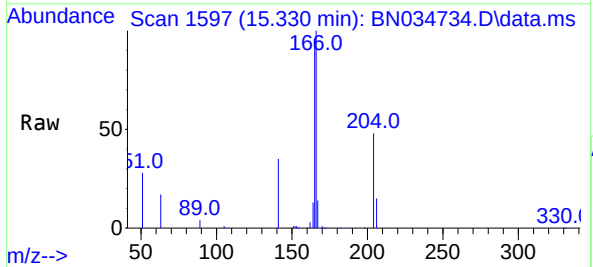
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

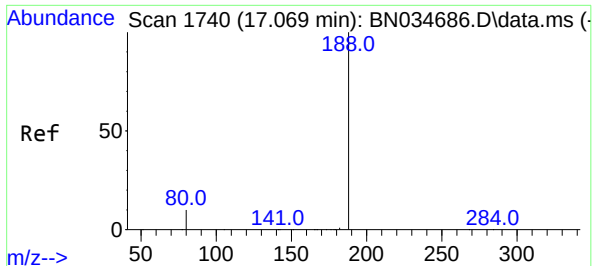
Tgt Ion:154 Resp: 50555
Ion Ratio Lower Upper
154 100
153 112.5 88.2 132.2
152 58.6 46.9 70.3



#18
Fluorene
Concen: 0.355 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:166 Resp: 18595
Ion Ratio Lower Upper
166 100
165 97.5 78.8 118.2
167 13.5 10.6 16.0

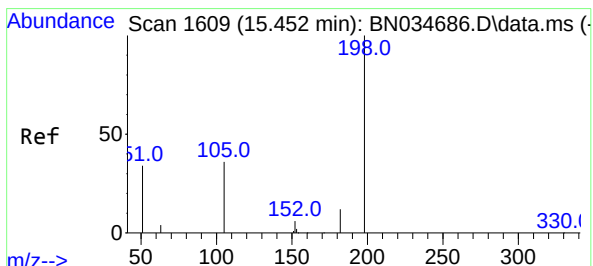
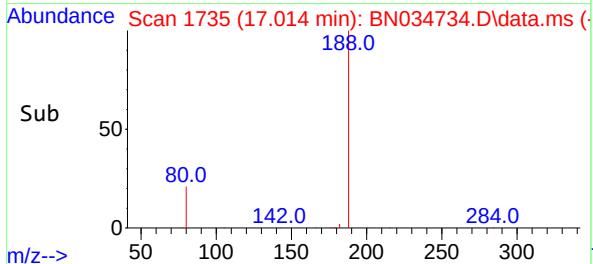
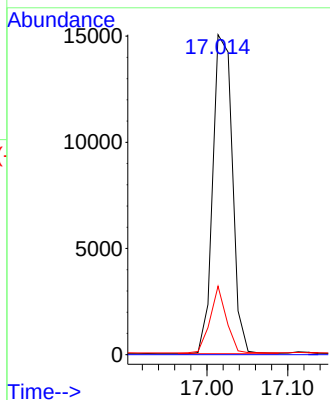
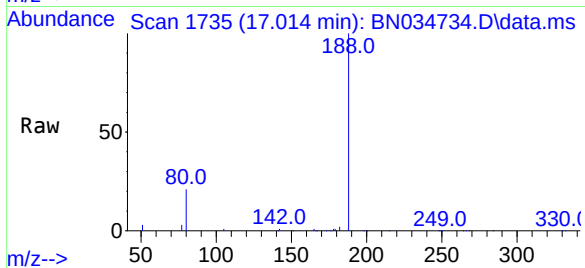




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.014 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

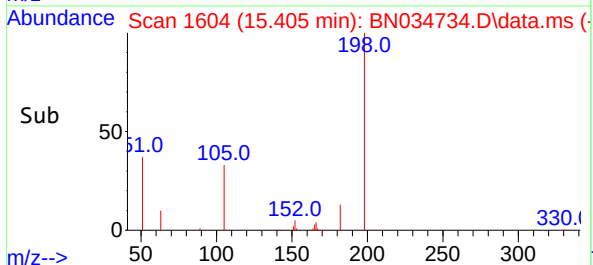
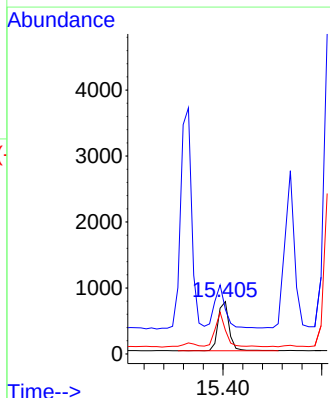
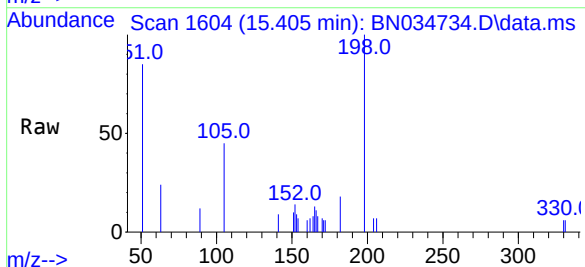
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

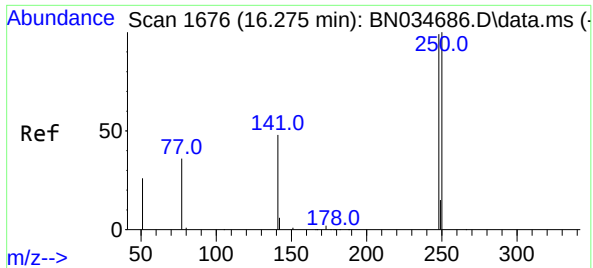
Tgt Ion:188 Resp: 25182
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 21.4 8.9 13.3#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.333 ng
RT: 15.405 min Scan# 1604
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:198 Resp: 1168
Ion Ratio Lower Upper
198 100
51 85.0 91.8 137.8#
105 45.2 44.3 66.5

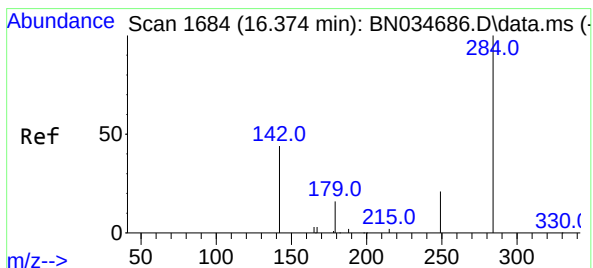
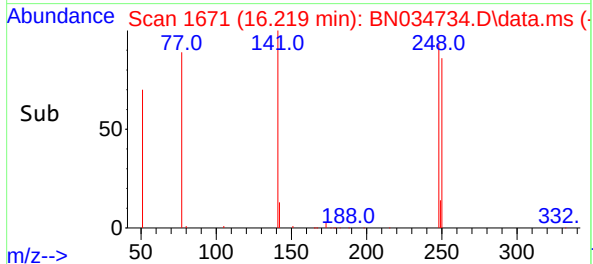
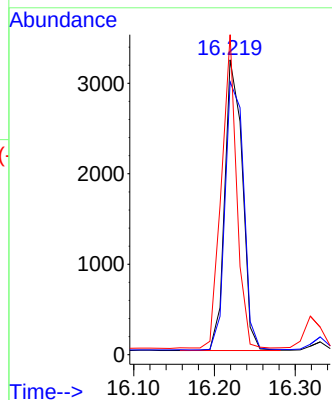
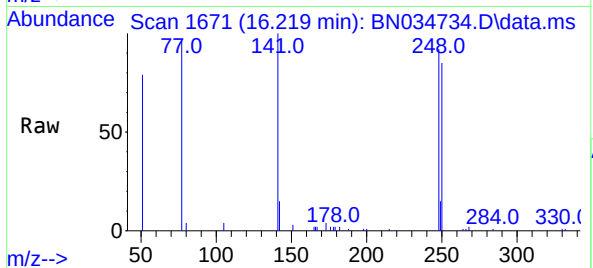




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.219 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

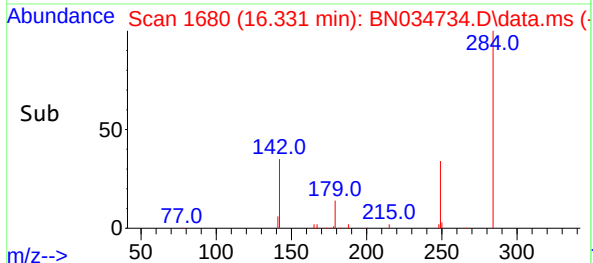
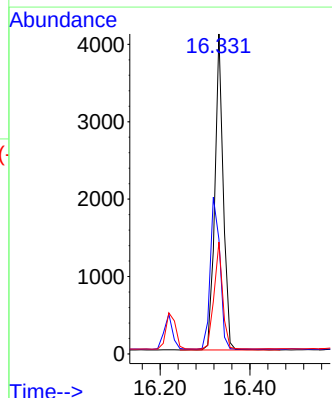
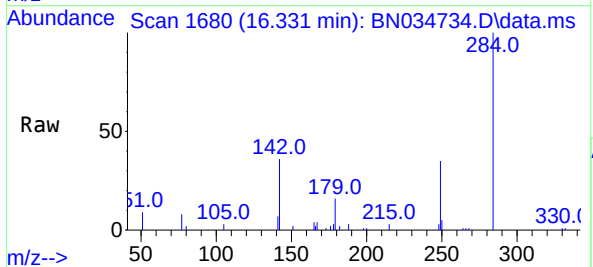
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

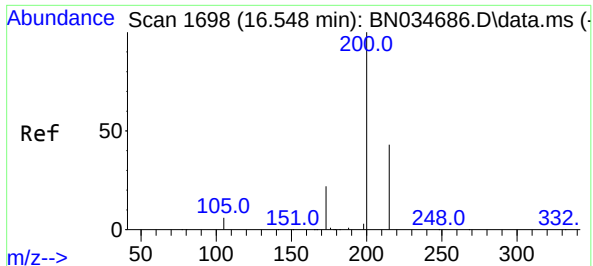
Tgt Ion:248 Resp: 4856
Ion Ratio Lower Upper
248 100
250 92.5 80.9 121.3
141 108.5 40.5 60.7#



#22
Hexachlorobenzene
Concen: 0.362 ng
RT: 16.331 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:284 Resp: 5271
Ion Ratio Lower Upper
284 100
142 55.3 43.6 65.4
249 34.5 26.6 40.0

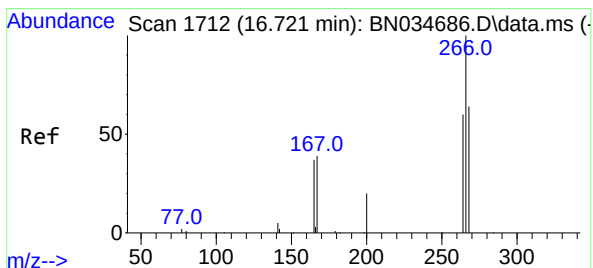
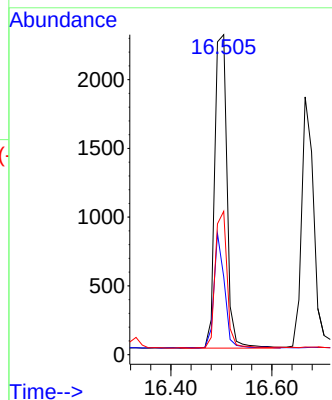




#23
Atrazine
Concen: 0.365 ng
RT: 16.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

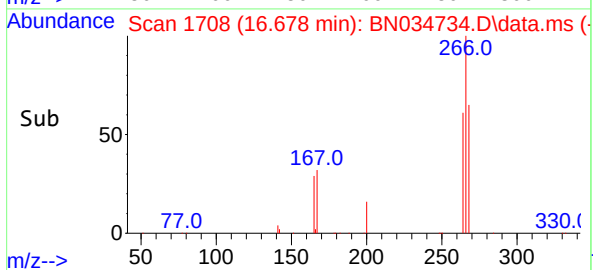
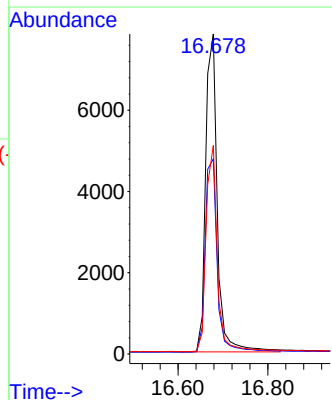
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

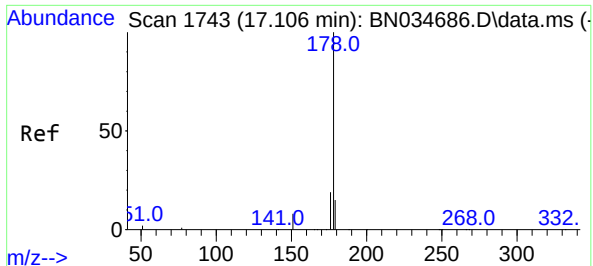
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.4	19.7	29.5
215	44.8	35.7	53.5



#24
Pentachlorophenol
Concen: 2.739 ng
RT: 16.678 min Scan# 1708
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.4	74.2
268	63.2	50.5	75.7

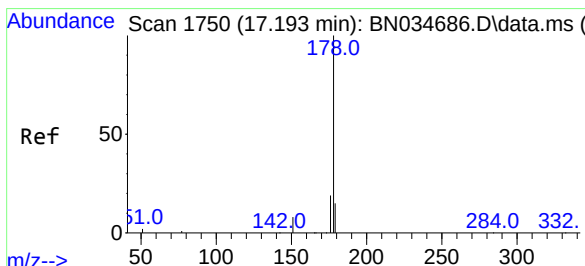
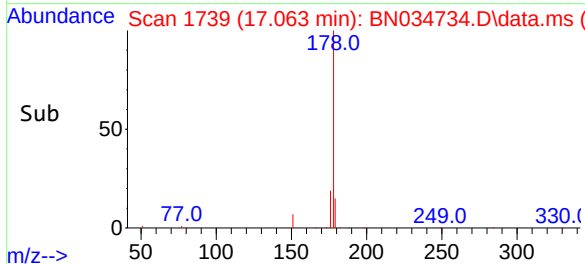
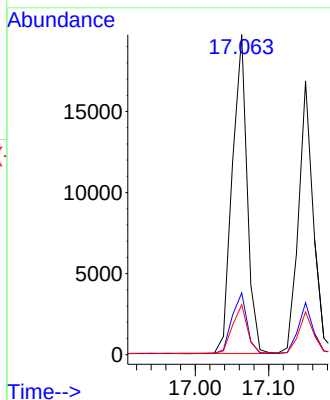
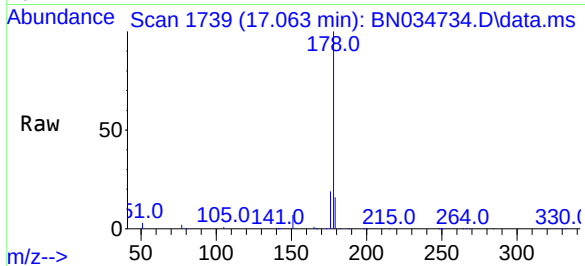




#25
Phenanthrene
Concen: 0.365 ng
RT: 17.063 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

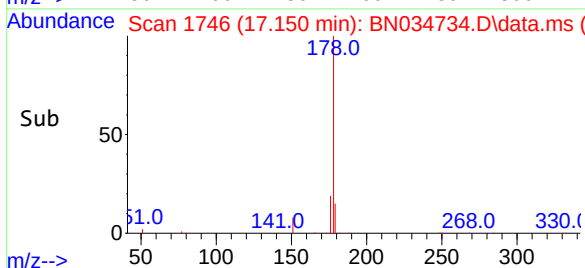
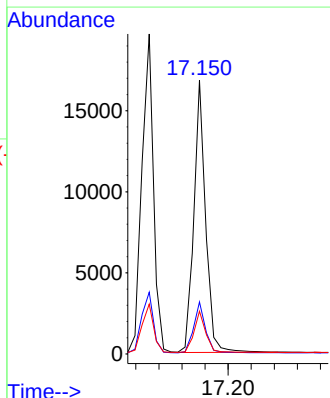
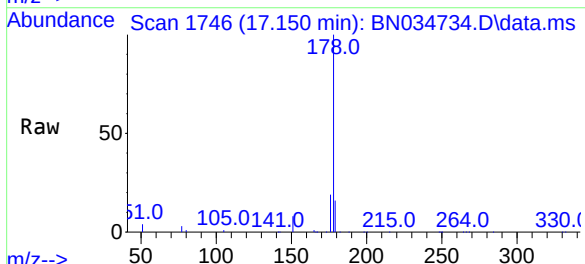
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

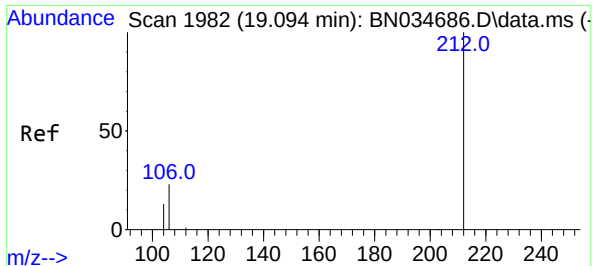
Tgt Ion:178 Resp: 27642
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.354 ng
RT: 17.150 min Scan# 1746
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:178 Resp: 23761
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.2 18.2

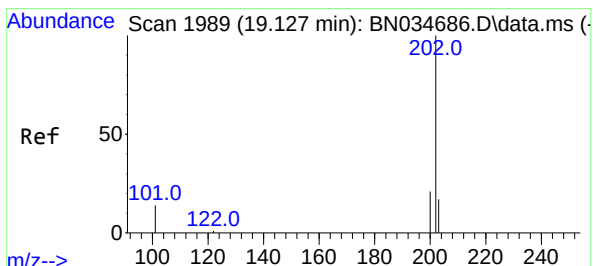
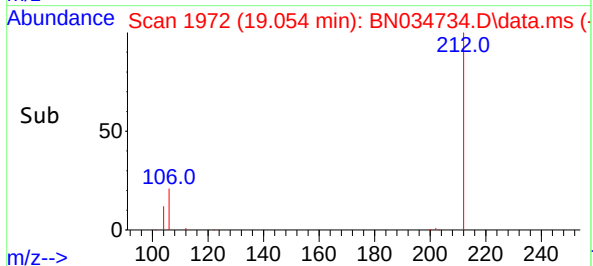
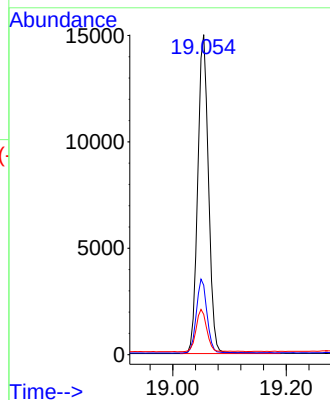
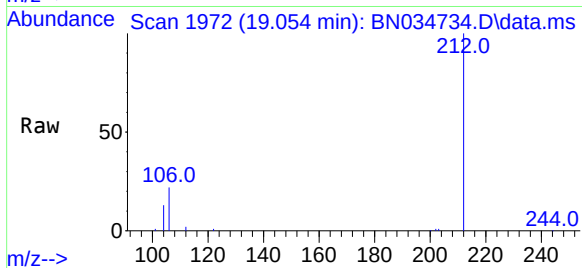




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.054 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

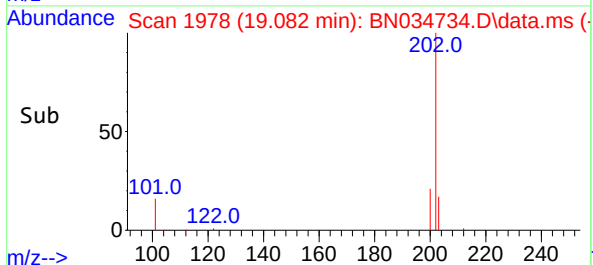
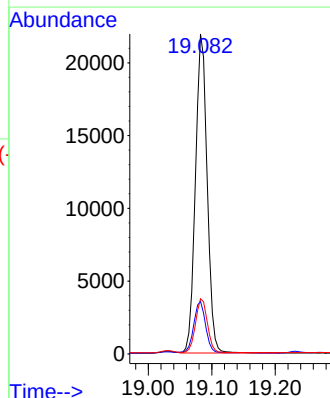
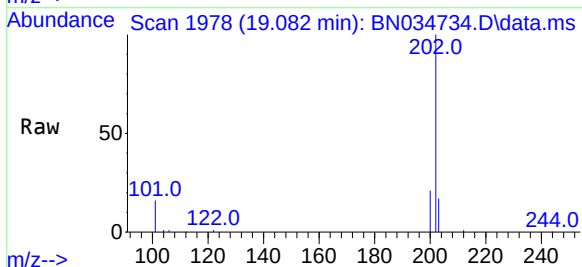
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

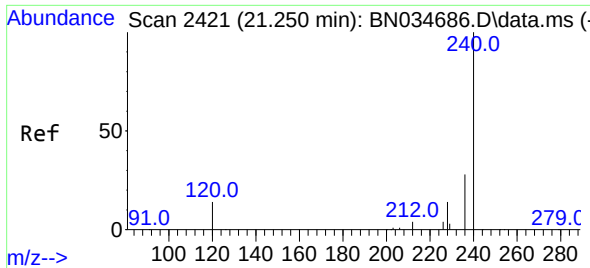
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.0	17.8	26.8
104	13.1	10.2	15.4



#28
Fluoranthene
Concen: 0.355 ng
RT: 19.082 min Scan# 1978
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.1	12.8	19.2
203	17.1	13.5	20.3

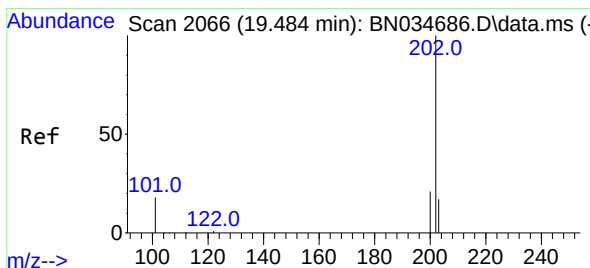
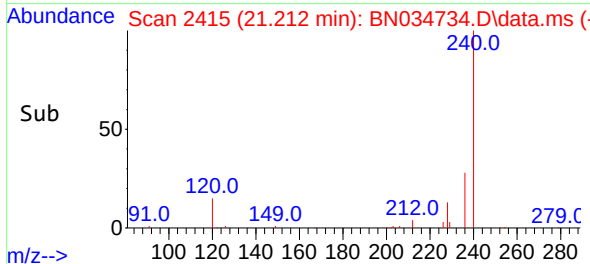
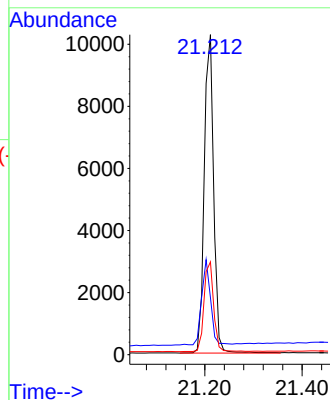
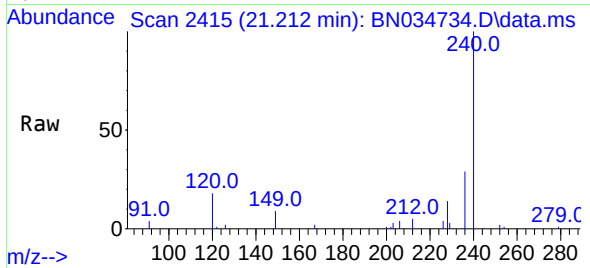




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

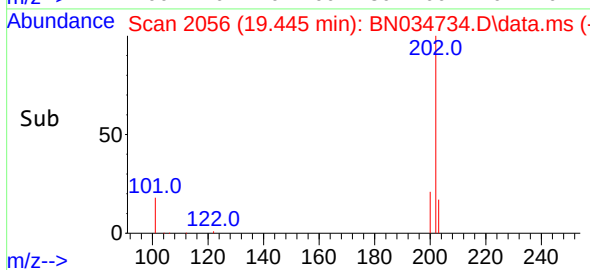
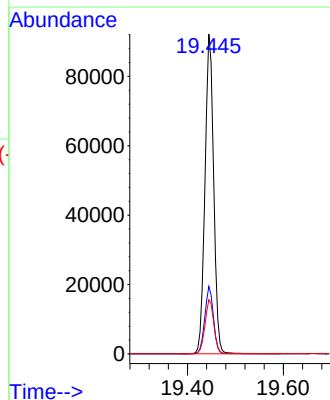
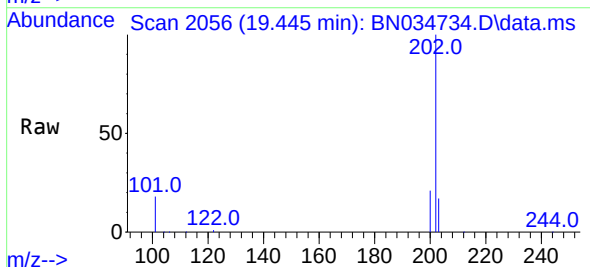
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

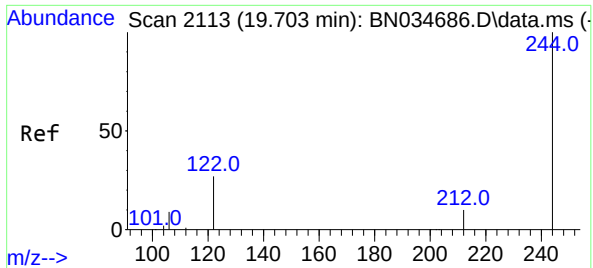
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.9	14.2	21.2
236	29.0	23.1	34.7



#30
Pyrene
Concen: 1.632 ng
RT: 19.445 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.2	14.2	21.4

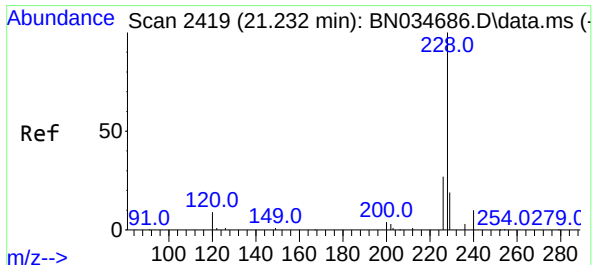
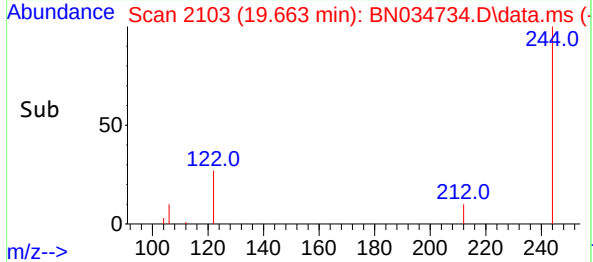
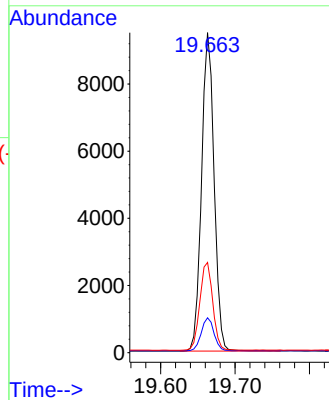
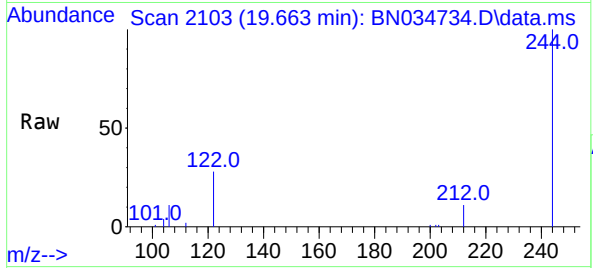




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.663 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

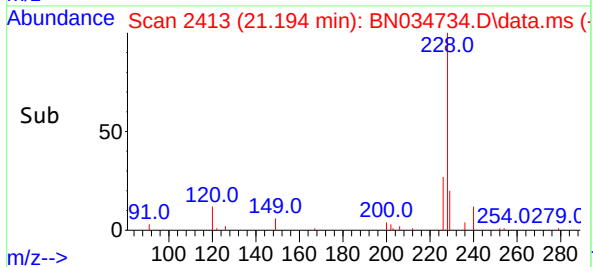
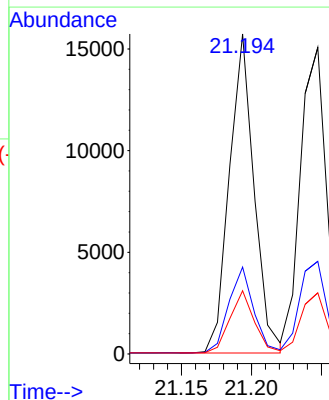
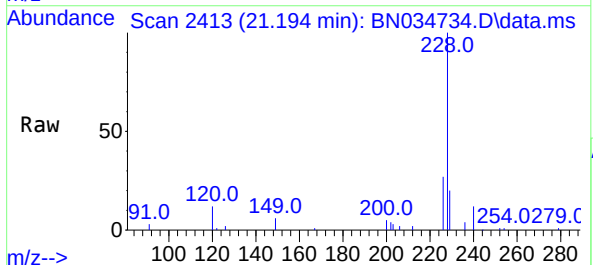
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

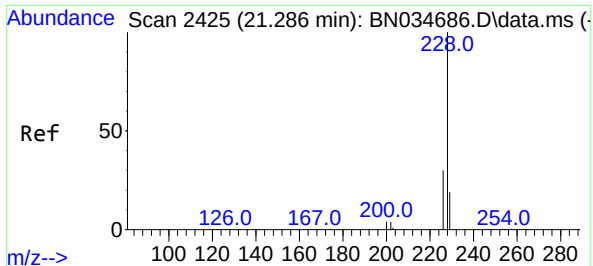
Tgt Ion:244	Resp:	11088
Ion Ratio	Lower	Upper
244	100	
212	10.9	8.6 13.0
122	28.2	22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.194 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:228	Resp:	19263
Ion Ratio	Lower	Upper
228	100	
226	27.1	22.0 33.0
229	19.7	15.6 23.4

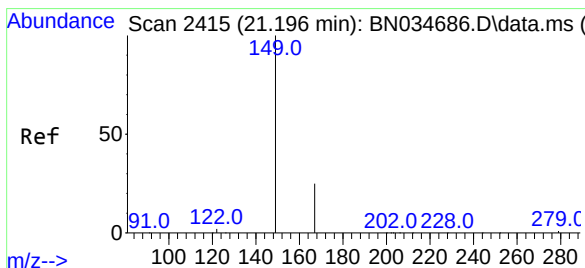
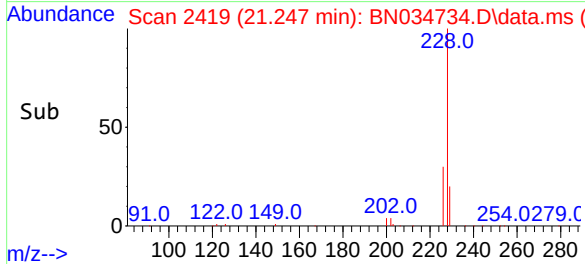
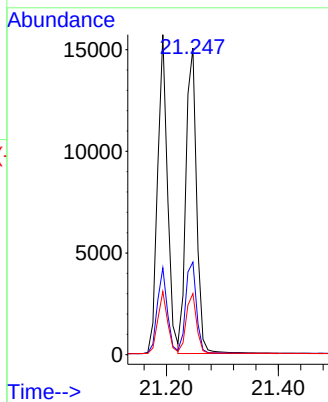
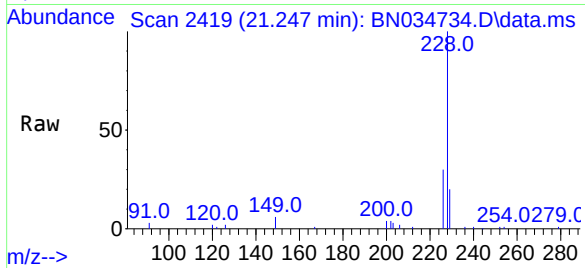




#33
Chrysene
Concen: 0.366 ng
RT: 21.247 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

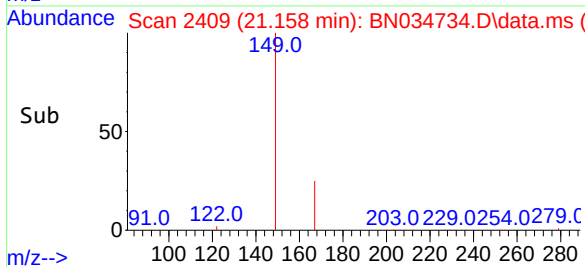
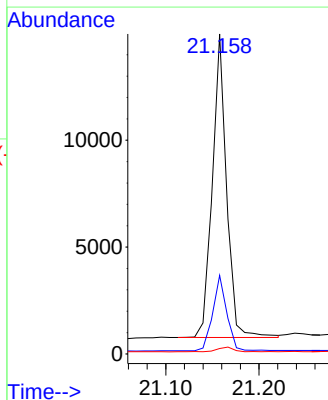
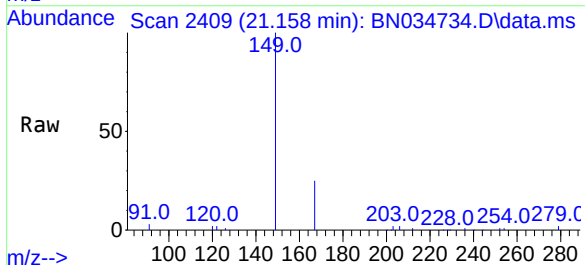
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

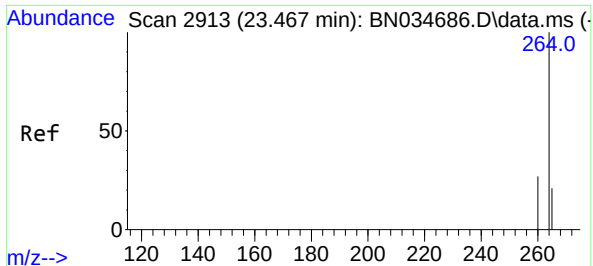
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.9	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.507 ng
RT: 21.158 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.5	19.7	29.5
279	1.8	1.8	2.6

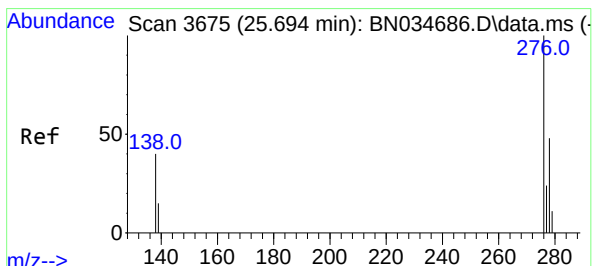
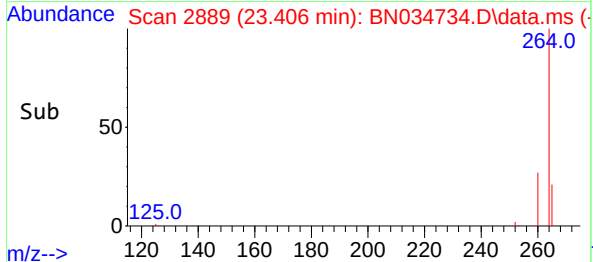
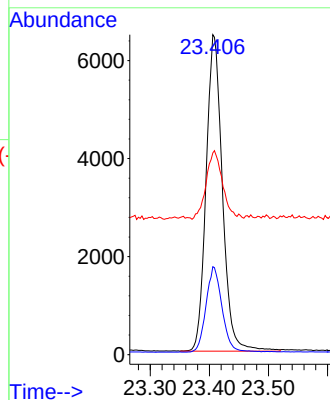
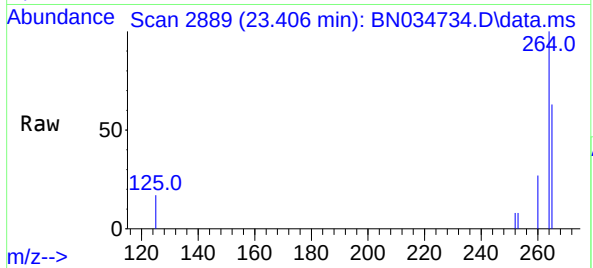




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.406 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

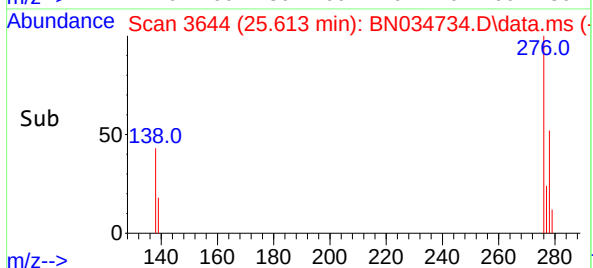
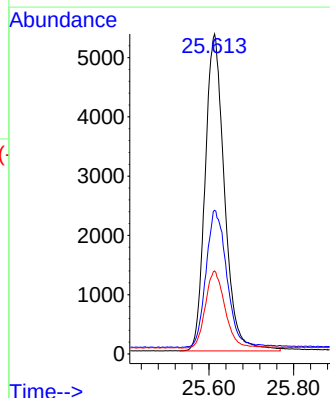
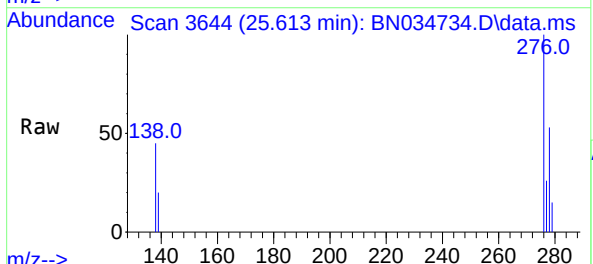
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

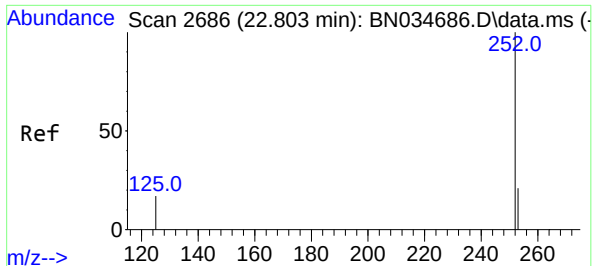
Tgt Ion:264 Resp: 12370
Ion Ratio Lower Upper
264 100
260 27.5 21.9 32.9
265 63.1 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.356 ng
RT: 25.613 min Scan# 3644
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:276 Resp: 16950
Ion Ratio Lower Upper
276 100
138 46.3 35.1 52.7
277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.352 ng

RT: 22.754 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

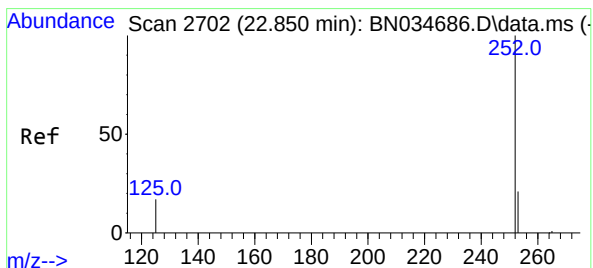
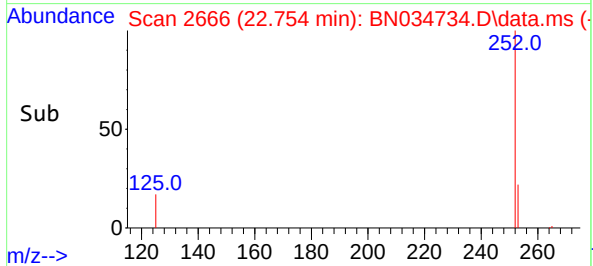
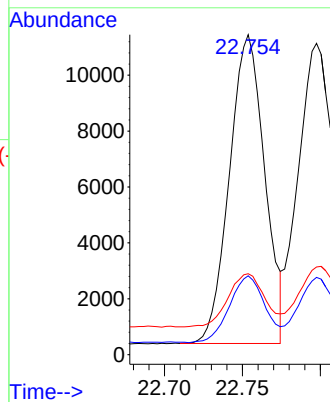
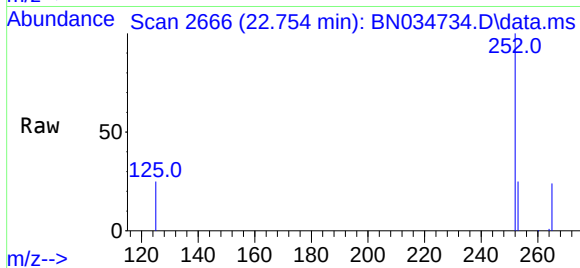
Tgt Ion:252 Resp: 17411

Ion Ratio Lower Upper

252 100

253 24.7 20.0 30.0

125 25.3 20.9 31.3



#38

Benzo(k)fluoranthene

Concen: 0.358 ng

RT: 22.798 min Scan# 2681

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

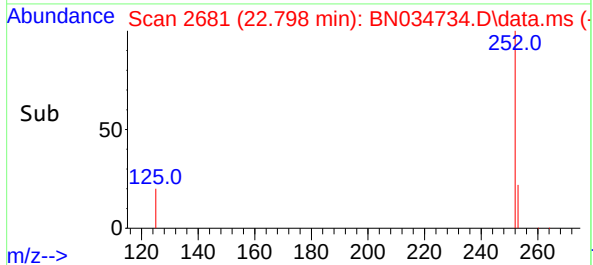
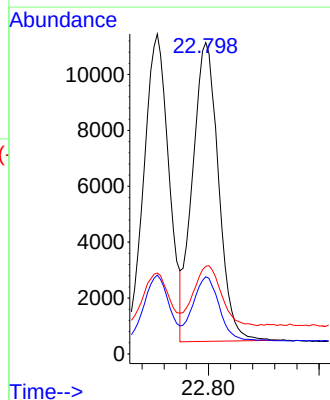
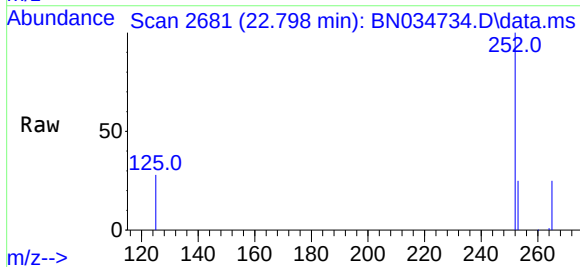
Tgt Ion:252 Resp: 17426

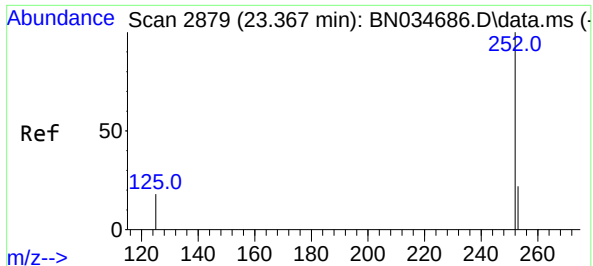
Ion Ratio Lower Upper

252 100

253 24.8 20.6 31.0

125 28.1 21.6 32.4

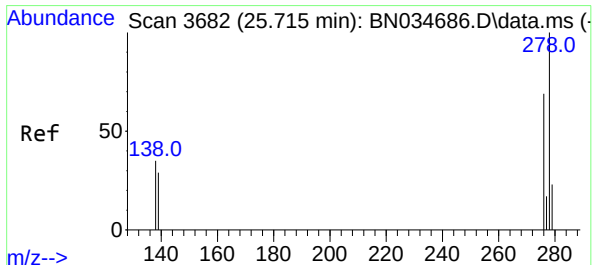
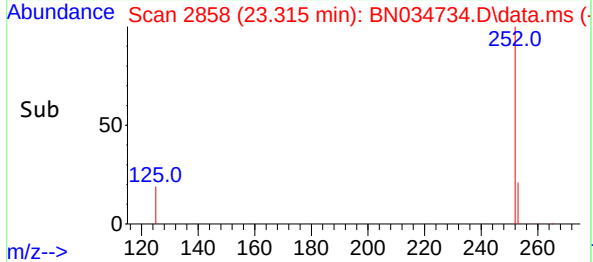
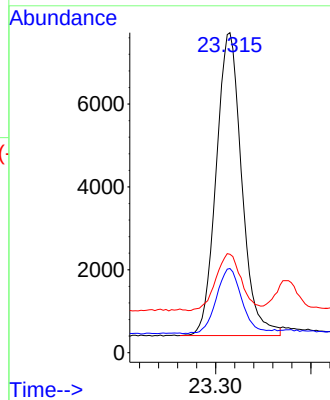
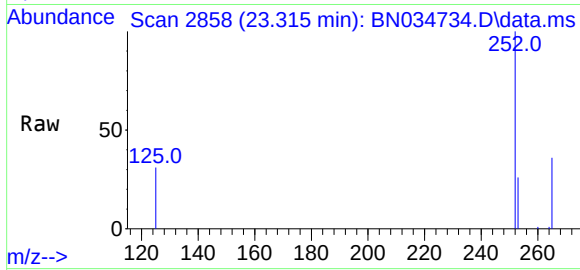




#39
Benzo(a)pyrene
Concen: 0.343 ng
RT: 23.315 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

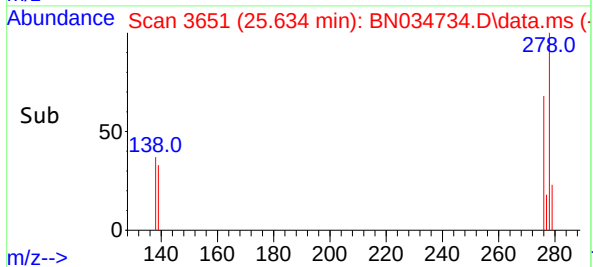
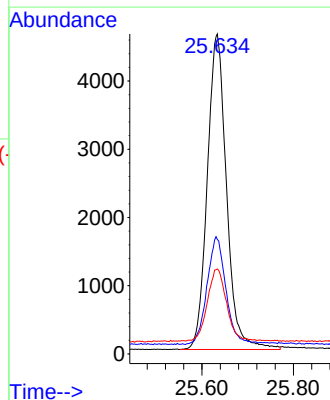
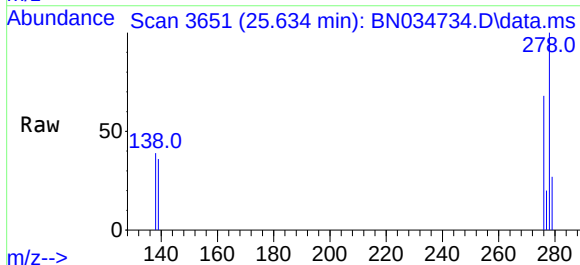
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:	252	Resp:	13601
Ion Ratio	Lower	Upper	
252	100		
253	26.3	22.2	33.4
125	30.7	26.0	39.0

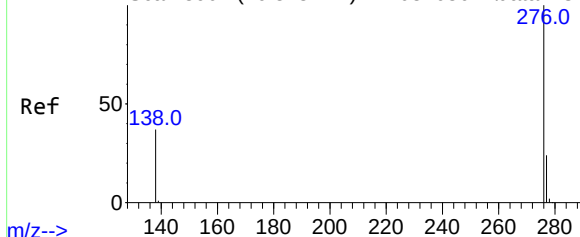


#40
Dibenzo(a,h)anthracene
Concen: 0.360 ng
RT: 25.634 min Scan# 3651
Delta R.T. 0.000 min
Lab File: BN034734.D
Acq: 26 Oct 2024 10:16

Tgt Ion:	278	Resp:	13531
Ion Ratio	Lower	Upper	
278	100		
139	35.8	25.4	38.2
279	26.5	22.4	33.6



Abundance Scan 3907 (26.373 min): BN034686.D\data.ms (-



#41

Benzo(g,h,i)perylene

Concen: 0.352 ng

RT: 26.280 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034734.D

Acq: 26 Oct 2024 10:16

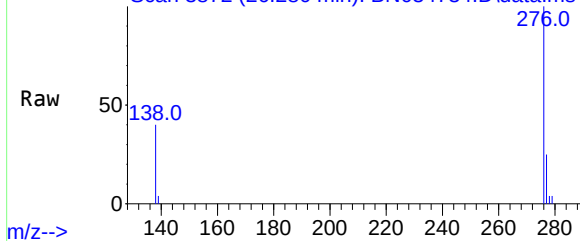
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 3872 (26.280 min): BN034734.D\data.ms (-



Tgt Ion:276 Resp: 14598

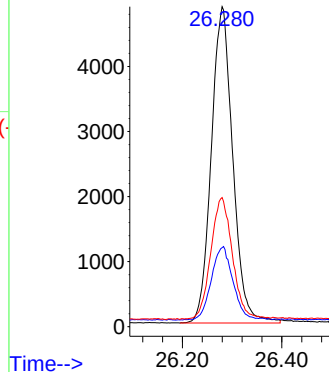
Ion Ratio Lower Upper

276 100

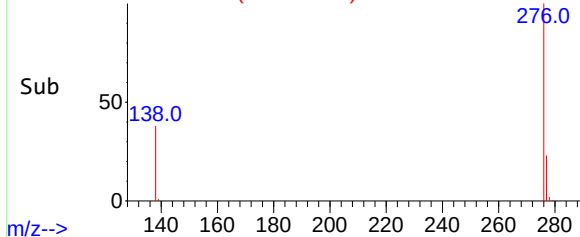
277 24.7 21.3 31.9

138 40.3 31.9 47.9

Abundance



Abundance Scan 3872 (26.280 min): BN034734.D\data.ms (-



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034734.D
Acq On : 26 Oct 2024 10:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 28 00:52:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 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	134	0.00
2	1,4-Dioxane	0.532	0.469	11.8	130	0.00
3	n-Nitrosodimethylamine	0.775	0.693	10.6	132	0.00
4 S	2-Fluorophenol	1.189	1.207	-1.5	151#	0.00
5 S	Phenol-d6	1.568	1.607	-2.5	155#	0.00
6	bis(2-Chloroethyl)ether	1.274	1.200	5.8	141	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	136	0.00
8 S	Nitrobenzene-d5	0.336	0.310	7.7	144	0.00
9	Naphthalene	1.107	1.010	8.8	140	0.00
10	Hexachlorobutadiene	0.166	0.148	10.8	135	0.00
11 SURR	2-Methylnaphthalene-d10	0.550	0.496	9.8	140	0.00
12	2-Methylnaphthalene	0.687	0.627	8.7	143	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	138	0.00
14 S	2,4,6-Tribromophenol	0.124	0.123	0.8	176#	0.00
15 S	2-Fluorobiphenyl	1.590	1.390	12.6	139	0.00
16	Acenaphthylene	1.921	1.639	14.7	143	0.00
17	Acenaphthene	1.324	3.944	-197.9#	484#	0.00
18	Fluorene	1.634	1.451	11.2	144	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.046	17.9	151#	0.00
21	4-Bromophenyl-phenylether	0.213	0.193	9.4	140	0.00
22	Hexachlorobenzene	0.231	0.209	9.5	137	0.00
23	Atrazine	0.168	0.153	8.9	151#	0.00
24	Pentachlorophenol	0.082	0.560	-582.9#	1212#	0.00
25	Phenanthrene	1.202	1.098	8.7	143	0.00
26	Anthracene	1.067	0.944	11.5	140	0.00
27 SURR	Fluoranthene-d10	0.901	0.780	13.4	138	0.00
28	Fluoranthene	1.253	1.113	11.2	141	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	129	0.00
30	Pyrene	2.055	8.384	-308.0#	577#	0.00
31 S	Terphenyl-d14	0.817	0.806	1.3	141	0.00
32	Benzo(a)anthracene	1.528	1.400	8.4	132	0.00
33	Chrysene	1.581	1.446	8.5	130	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	1.098	-26.6#	197#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	129	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.370	11.1	125	0.00
37	Benzo(b)fluoranthene	1.597	1.408	11.8	123	0.00
38	Benzo(k)fluoranthene	1.576	1.409	10.6	131	0.00
39 C	Benzo(a)pyrene	1.282	1.100	14.2	122	0.00
40	Dibenzo(a,h)anthracene	1.215	1.094	10.0	127	0.00
41	Benzo(g,h,i)perylene	1.340	1.180	11.9	121	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034734.D
Acq On : 26 Oct 2024 10:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 28 00:52:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 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	134	0.00
2	1,4-Dioxane	0.400	0.353	11.8	130	0.00
3	n-Nitrosodimethylamine	0.400	0.358	10.5	132	0.00
4 S	2-Fluorophenol	0.400	0.406	-1.5	151	0.00
5 S	Phenol-d6	0.400	0.410	-2.5	155	0.00
6	bis(2-Chloroethyl)ether	0.400	0.377	5.8	141	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	136	0.00
8 S	Nitrobenzene-d5	0.400	0.370	7.5	144	0.00
9	Naphthalene	0.400	0.365	8.8	140	0.00
10	Hexachlorobutadiene	0.400	0.357	10.8	135	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	140	0.00
12	2-Methylnaphthalene	0.400	0.365	8.8	143	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	138	0.00
14 S	2,4,6-Tribromophenol	0.400	0.399	0.3	176	0.00
15 S	2-Fluorobiphenyl	0.400	0.350	12.5	139	0.00
16	Acenaphthylene	0.400	0.341	14.8	143	0.00
17	Acenaphthene	0.400	1.192	-198.0#	484	0.00
18	Fluorene	0.400	0.355	11.3	144	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	138	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.333	16.8	151	0.00
21	4-Bromophenyl-phenylether	0.400	0.362	9.5	140	0.00
22	Hexachlorobenzene	0.400	0.362	9.5	137	0.00
23	Atrazine	0.400	0.365	8.8	151	0.00
24	Pentachlorophenol	0.400	2.739	-584.7#	1212	0.00
25	Phenanthrene	0.400	0.365	8.8	143	0.00
26	Anthracene	0.400	0.354	11.5	140	0.00
27 SURR	Fluoranthene-d10	0.400	0.346	13.5	138	0.00
28	Fluoranthene	0.400	0.355	11.3	141	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	129	0.00
30	Pyrene	0.400	1.632	-308.0#	577	0.00
31 S	Terphenyl-d14	0.400	0.394	1.5	141	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	132	0.00
33	Chrysene	0.400	0.366	8.5	130	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.507	-26.7#	197	0.00
35 I	Perylene-d12	0.400	0.400	0.0	129	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.356	11.0	125	0.00
37	Benzo(b)fluoranthene	0.400	0.352	12.0	123	0.00
38	Benzo(k)fluoranthene	0.400	0.358	10.5	131	0.00
39 C	Benzo(a)pyrene	0.400	0.343	14.2	122	0.00
40	Dibenzo(a,h)anthracene	0.400	0.360	10.0	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.352	12.0	121	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.: P4550 SAS No.: P4550 SDG No.: P4550

Instrument ID: BNA_N Calibration Date/Time: 10/26/2024 12:41

Lab File ID: BN034738.D Init. Calib. Date(s): 10/24/2024 10/24/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:11 12:48

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.550	0.495		-10.0	50.0
Fluoranthene-d10	0.901	0.784		-13.0	50.0
2-Fluorophenol	1.189	1.228		3.3	50.0
Phenol-d6	1.568	1.647		5.0	50.0
Nitrobenzene-d5	0.336	0.304		-9.5	50.0
2-Fluorobiphenyl	1.590	1.369		-13.9	50.0
2,4,6-Tribromophenol	0.124	0.117		-5.6	50.0
Terphenyl-d14	0.817	0.800		-2.1	50.0
1,4-Dioxane	0.532	0.472		-11.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034738.D
 Acq On : 26 Oct 2024 12:41
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 28 00:53:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 28 00:44:15 2024
 Response via : Initial Calibration

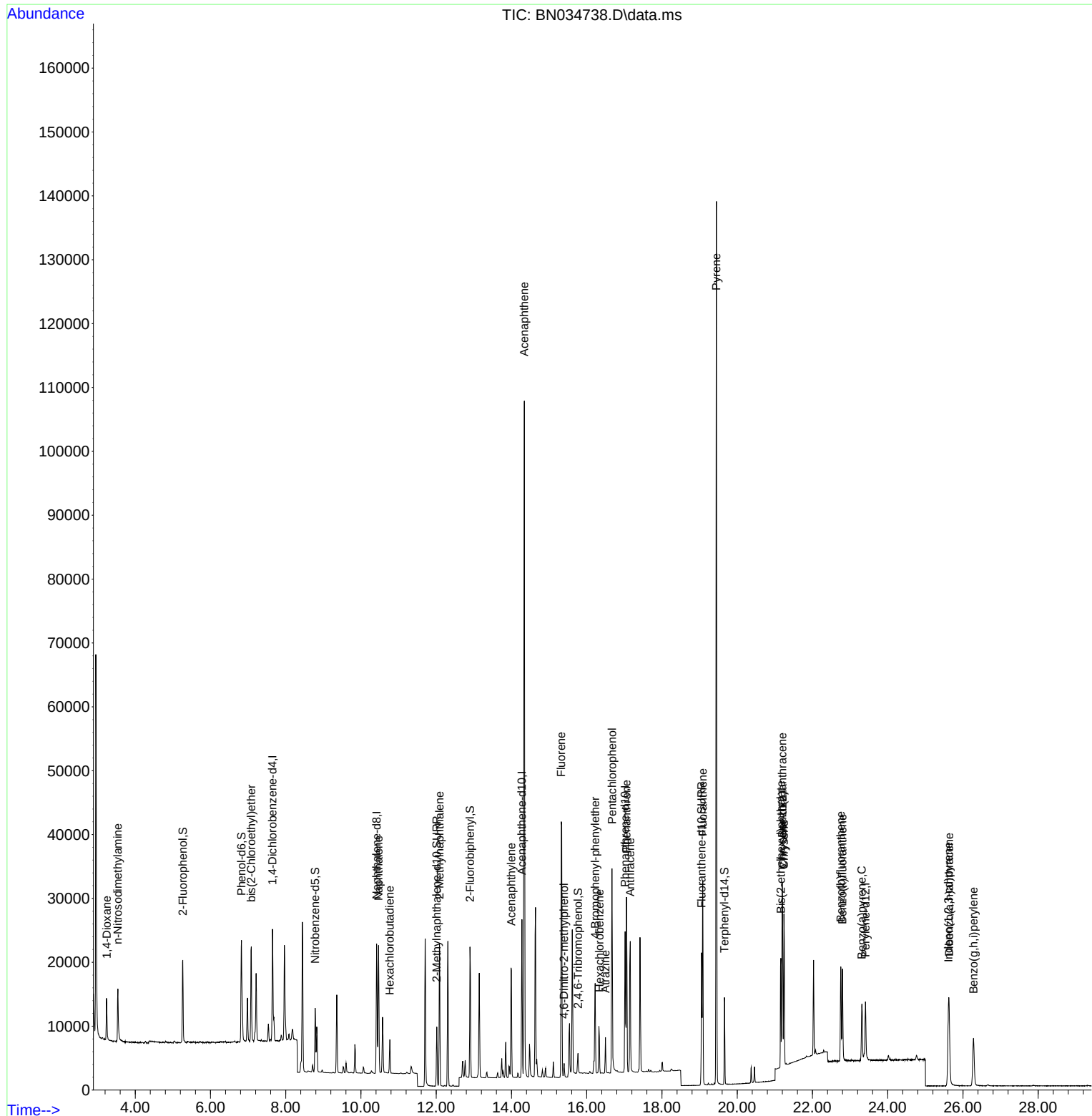
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	8130	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	24525	0.400	ng	0.00
13) Acenaphthene-d10	14.275	164	12602	0.400	ng	0.00
19) Phenanthrene-d10	17.019	188	24904	0.400	ng	# 0.00
29) Chrysene-d12	21.205	240	13546	0.400	ng	# 0.00
35) Perylene-d12	23.408	264	11315	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	9985	0.413	ng	0.00
5) Phenol-d6	6.824	99	13388	0.420	ng	0.00
8) Nitrobenzene-d5	8.781	82	7452	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	12150	0.360	ng	0.00
14) 2,4,6-Tribromophenol	15.766	330	1479	0.379	ng	0.00
15) 2-Fluorobiphenyl	12.896	172	17246	0.344	ng	0.00
27) Fluoranthene-d10	19.052	212	19533	0.348	ng	0.00
31) Terphenyl-d14	19.661	244	10832	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.241	88	3837	0.355	ng	99
3) n-Nitrosodimethylamine	3.538	42	5974	0.379	ng	# 97
6) bis(2-Chloroethyl)ether	7.084	93	9831	0.380	ng	99
9) Naphthalene	10.468	128	24849	0.366	ng	100
10) Hexachlorobutadiene	10.767	225	3657	0.359	ng	# 100
12) 2-Methylnaphthalene	12.086	142	15365	0.365	ng	99
16) Acenaphthylene	13.998	152	20253	0.335	ng	100
17) Acenaphthene	14.340	154	48843	1.171	ng	98
18) Fluorene	15.323	166	17995	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.398	198	1080	0.311	ng	# 78
21) 4-Bromophenyl-phenylether	16.225	248	4662	0.351	ng	# 89
22) Hexachlorobenzene	16.337	284	5134	0.357	ng	98
23) Atrazine	16.498	200	3782	0.363	ng	# 93
24) Pentachlorophenol	16.672	266	13312	2.614	ng	99
25) Phenanthrene	17.056	178	26988	0.361	ng	100
26) Anthracene	17.156	178	23432	0.353	ng	100
28) Fluoranthene	19.085	202	27764	0.356	ng	100
30) Pyrene	19.447	202	113993	1.638	ng	99
32) Benzo(a)anthracene	21.196	228	18966	0.367	ng	99
33) Chrysene	21.241	228	19403	0.362	ng	98
34) Bis(2-ethylhexyl)phtha...	21.160	149	17000	0.579	ng	99
36) Indeno(1,2,3-cd)pyrene	25.612	276	15395	0.353	ng	96
37) Benzo(b)fluoranthene	22.753	252	16622	0.368	ng	99
38) Benzo(k)fluoranthene	22.797	252	16668	0.374	ng	97
39) Benzo(a)pyrene	23.312	252	13079	0.361	ng	98
40) Dibenzo(a,h)anthracene	25.630	278	12499	0.364	ng	95
41) Benzo(g,h,i)perylene	26.279	276	13433	0.355	ng	99

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

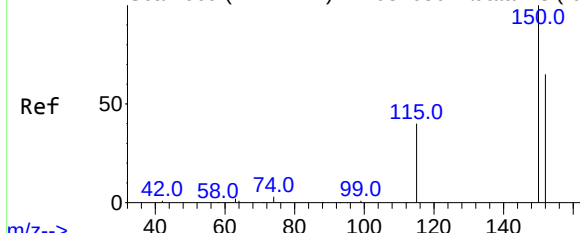
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034738.D
Acq On : 26 Oct 2024 12:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Oct 28 00:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration

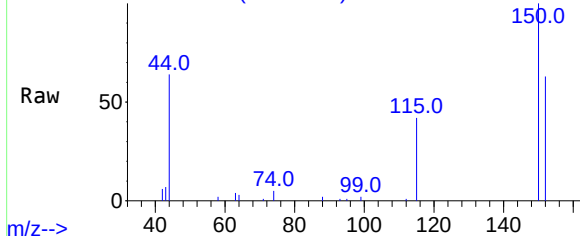


Abundance Scan 669 (7.712 min): BN034686.D\data.ms (-66)



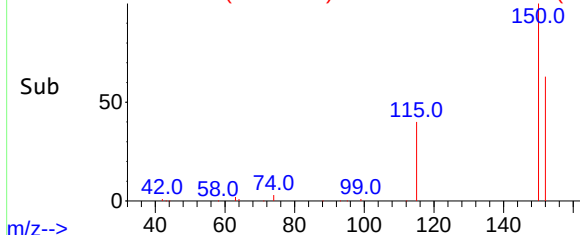
m/z-->

Abundance Scan 660 (7.647 min): BN034738.D\data.ms



m/z-->

Abundance Scan 660 (7.647 min): BN034738.D\data.ms (-63)



m/z-->

#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.647 min Scan# 6

Delta R.T. 0.000 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:152 Resp: 8130

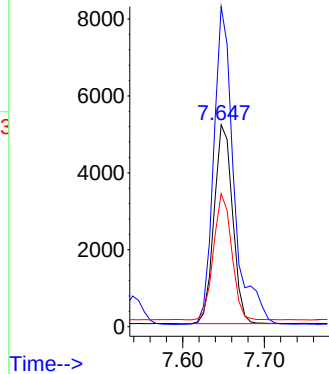
Ion Ratio Lower Upper

152 100

150 158.5 122.7 184.1

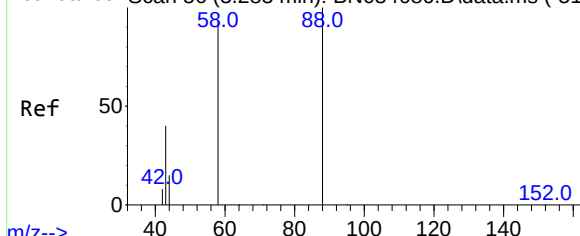
115 65.8 51.0 76.6

Abundance



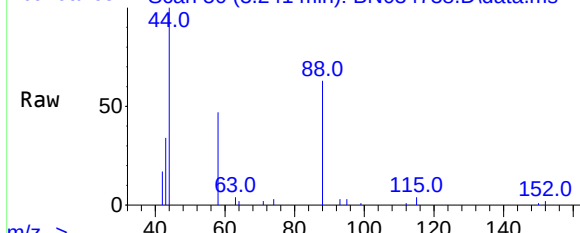
Time-->

Abundance Scan 56 (3.285 min): BN034686.D\data.ms (-51)



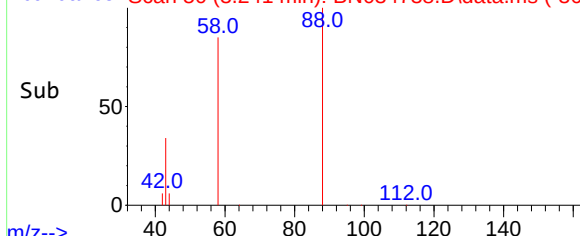
m/z-->

Abundance Scan 50 (3.241 min): BN034738.D\data.ms



m/z-->

Abundance Scan 50 (3.241 min): BN034738.D\data.ms (-36)



m/z-->

#2

1,4-Dioxane

Concen: 0.355 ng

RT: 3.241 min Scan# 50

Delta R.T. 0.000 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Tgt Ion: 88 Resp: 3837

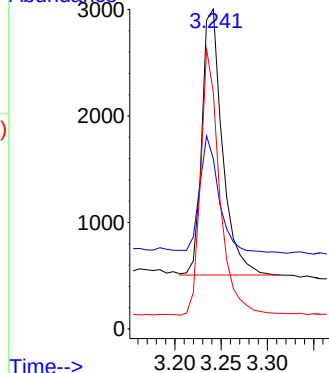
Ion Ratio Lower Upper

88 100

43 41.0 32.1 48.1

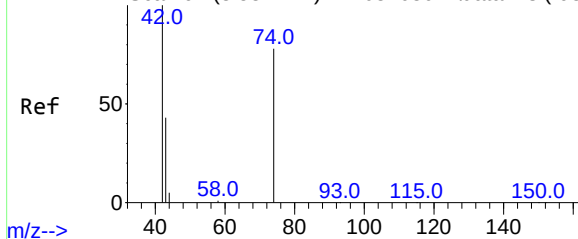
58 93.4 73.7 110.5

Abundance



Time-->

Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



#3

n-Nitrosodimethylamine

Concen: 0.379 ng

RT: 3.538 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

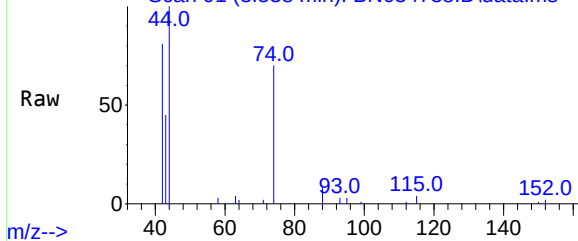
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 5974

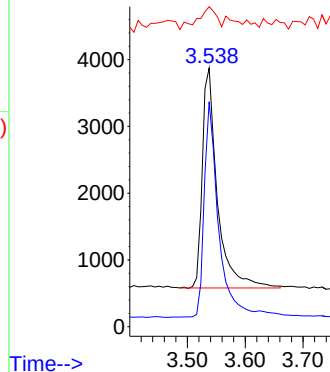
Ion Ratio Lower Upper

42	100		
74	95.2	77.2	115.8
44	12.4	13.4	20.2

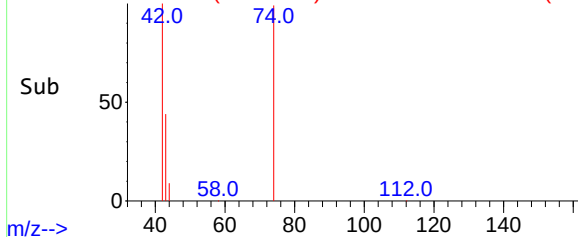
Abundance Scan 91 (3.538 min): BN034738.D\data.ms



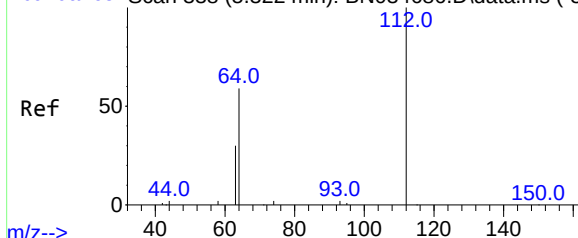
Abundance



Abundance Scan 91 (3.538 min): BN034738.D\data.ms (-70)



Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



#4

2-Fluorophenol

Concen: 0.413 ng

RT: 5.264 min Scan# 330

Delta R.T. 0.000 min

Lab File: BN034738.D

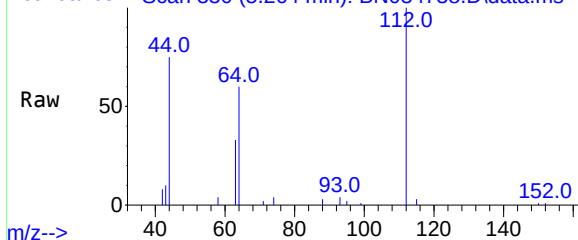
Acq: 26 Oct 2024 12:41

Tgt Ion: 112 Resp: 9985

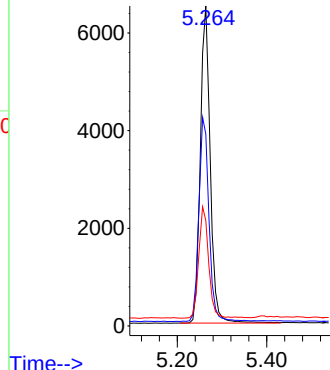
Ion Ratio Lower Upper

112	100		
64	65.7	53.0	79.6
63	35.4	27.6	41.4

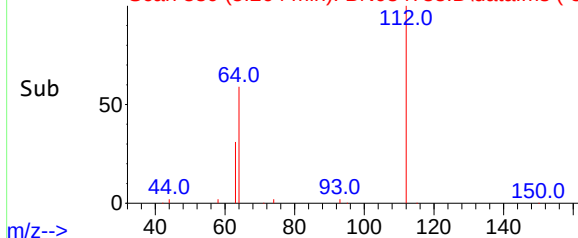
Abundance Scan 330 (5.264 min): BN034738.D\data.ms



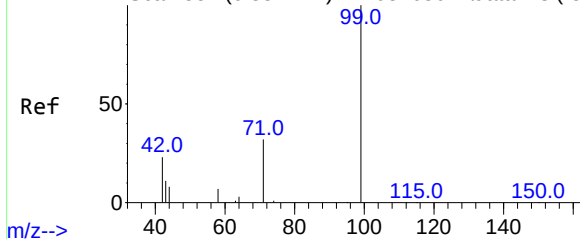
Abundance



Abundance Scan 330 (5.264 min): BN034738.D\data.ms (-30)



Abundance Scan 554 (6.882 min): BN034686.D\data.ms (-54



#5

Phenol-d6

Concen: 0.420 ng

RT: 6.824 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 99 Resp: 13388

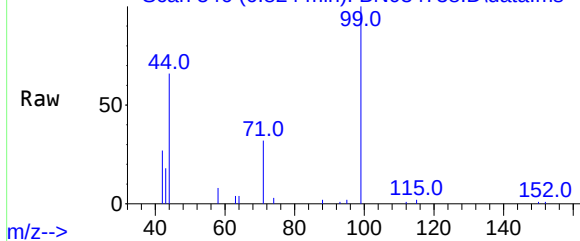
Ion Ratio Lower Upper

99 100

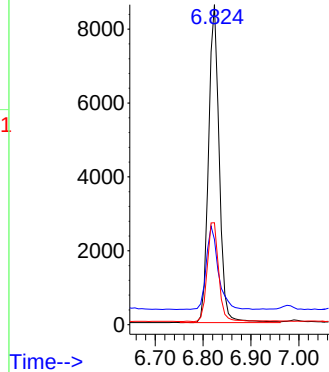
42 29.5 21.8 32.8

71 33.2 26.6 40.0

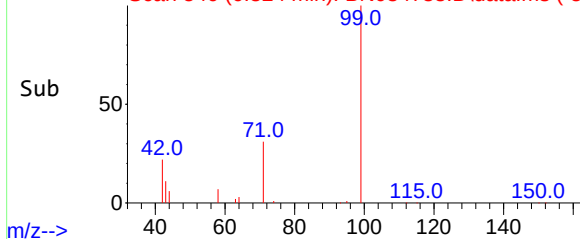
Abundance Scan 546 (6.824 min): BN034738.D\data.ms



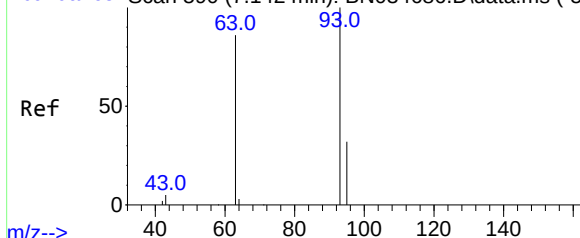
Abundance



Abundance Scan 546 (6.824 min): BN034738.D\data.ms (-51



Abundance Scan 590 (7.142 min): BN034686.D\data.ms (-58



#6

bis(2-Chloroethyl)ether

Concen: 0.380 ng

RT: 7.084 min Scan# 582

Delta R.T. 0.000 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Tgt Ion: 93 Resp: 9831

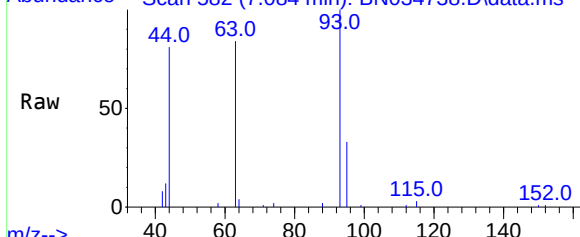
Ion Ratio Lower Upper

93 100

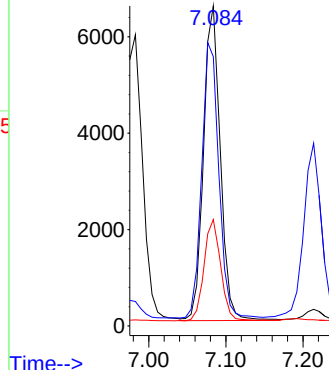
63 88.8 71.5 107.3

95 31.9 25.8 38.6

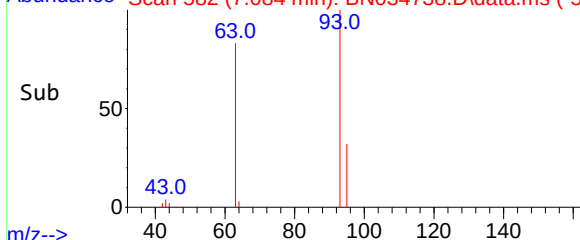
Abundance Scan 582 (7.084 min): BN034738.D\data.ms

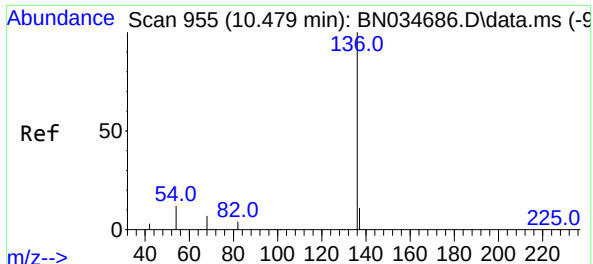


Abundance



Abundance Scan 582 (7.084 min): BN034738.D\data.ms (-55

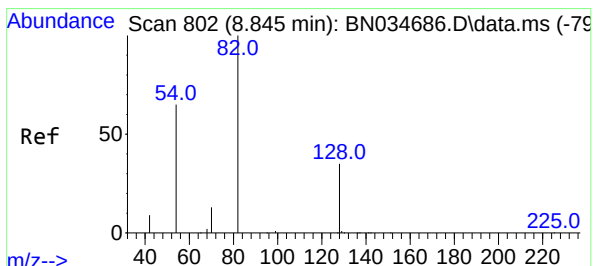
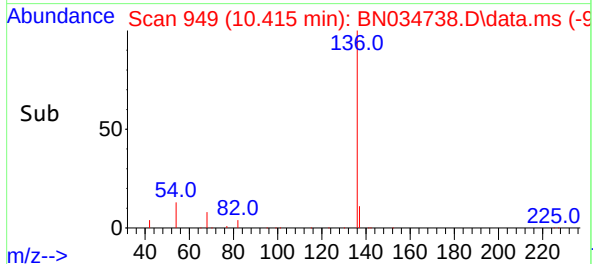
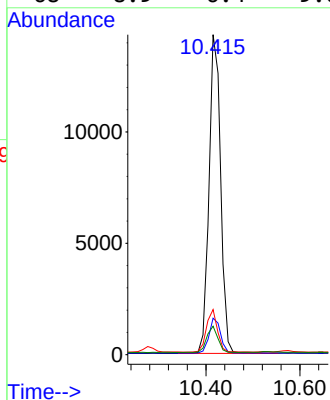
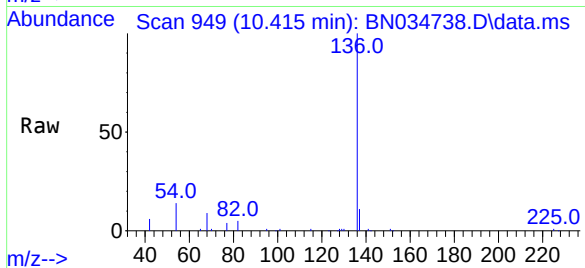




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

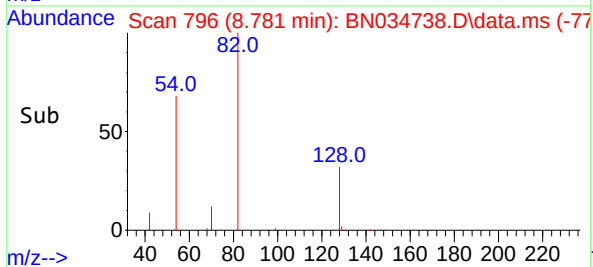
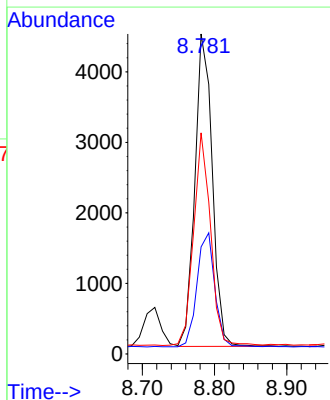
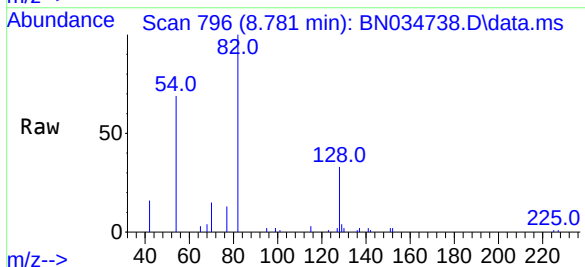
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

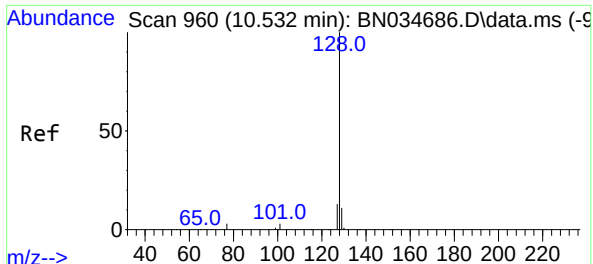
Tgt Ion:	136	Resp:	24525
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	14.1	9.8	14.8
68	8.9	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:	82	Resp:	7452
Ion	Ratio	Lower	Upper
82	100		
128	33.4	29.7	44.5
54	69.1	53.0	79.6

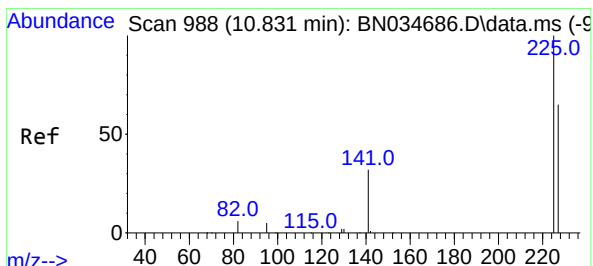
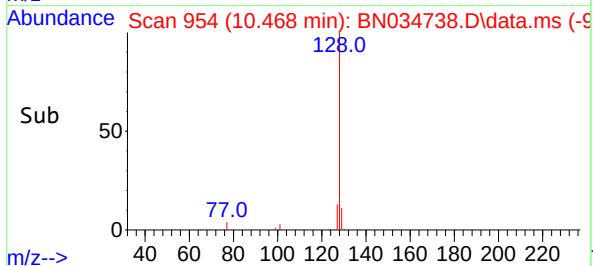
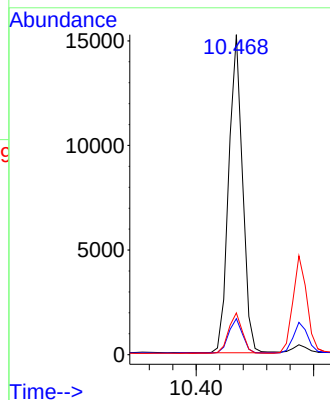
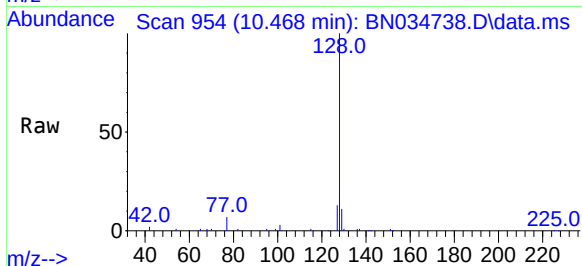




#9
Naphthalene
Concen: 0.366 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

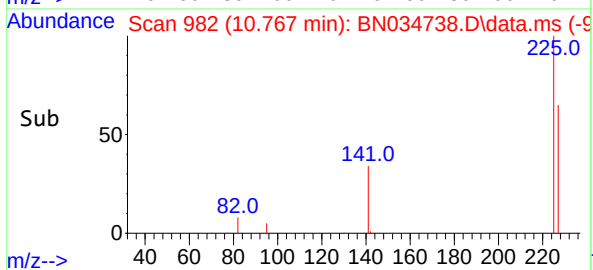
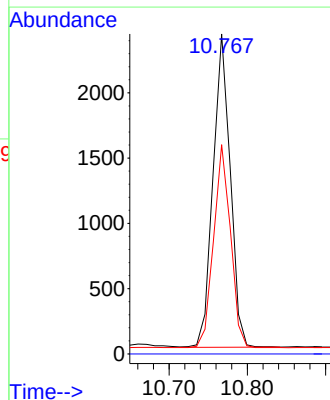
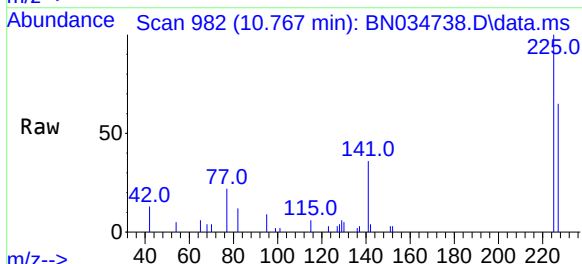
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

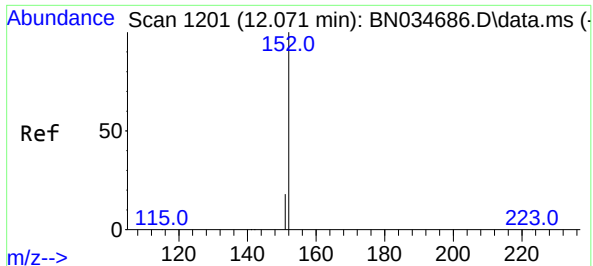
Tgt Ion:128 Resp: 24849
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.1 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:225 Resp: 3657
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.4 77.0

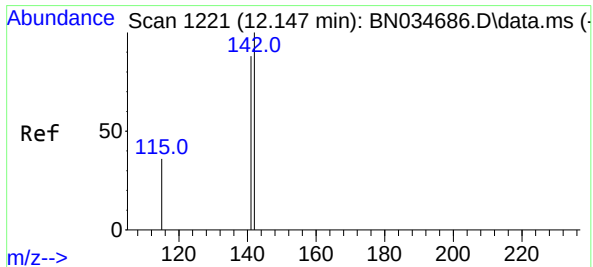
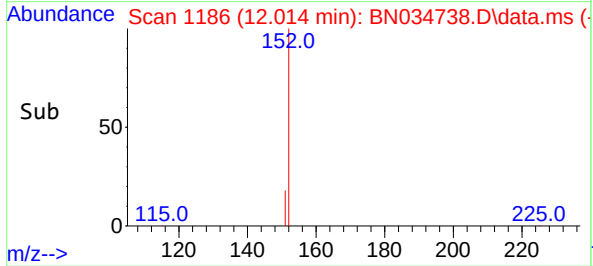
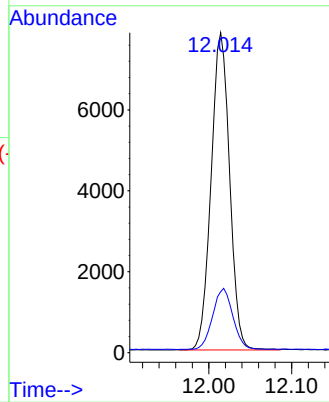
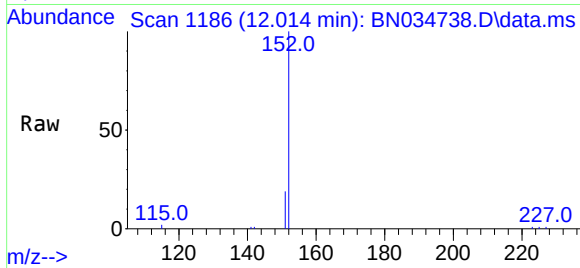




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.014 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

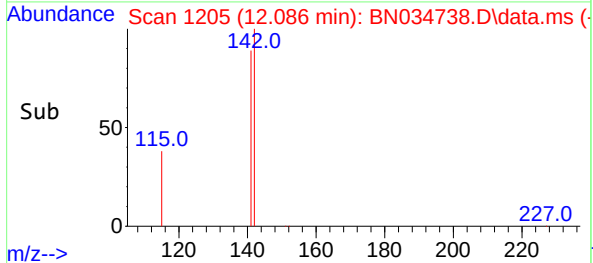
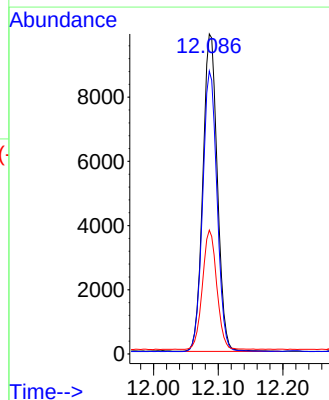
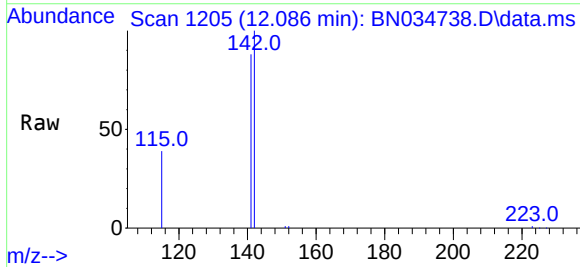
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

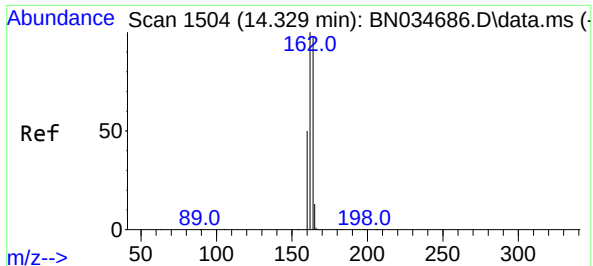
Tgt Ion:152 Resp: 12150
Ion Ratio Lower Upper
152 100
151 21.0 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.086 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:142 Resp: 15365
Ion Ratio Lower Upper
142 100
141 88.4 70.4 105.6
115 38.7 29.8 44.6

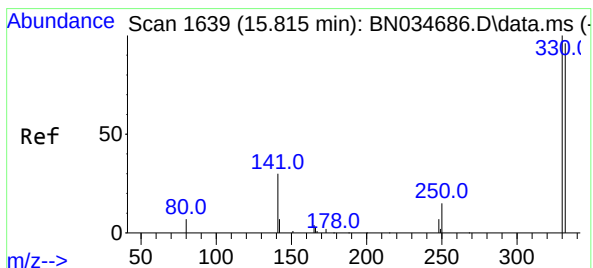
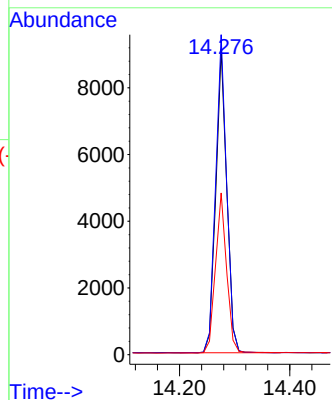




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.275 min Scan# 1499
Delta R.T. 0.004 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

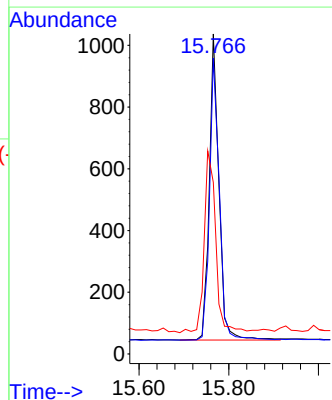
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

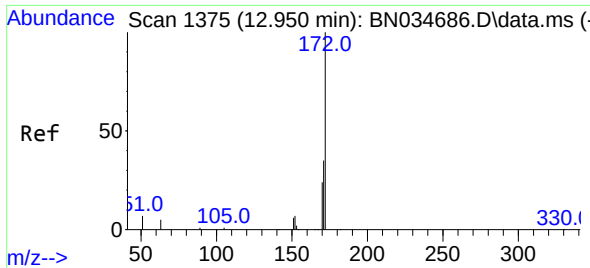
Tgt Ion:164 Resp: 12602
Ion Ratio Lower Upper
164 100
162 104.7 81.4 122.0
160 52.9 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.766 min Scan# 1635
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:330 Resp: 1479
Ion Ratio Lower Upper
330 100
332 93.6 76.6 115.0
141 70.3 54.6 81.8

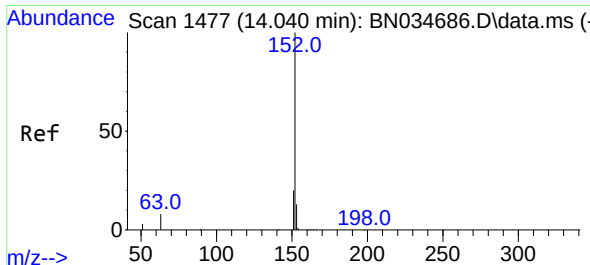
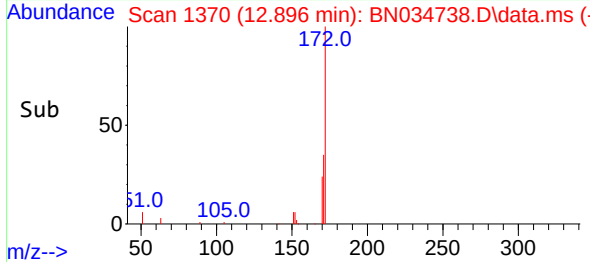
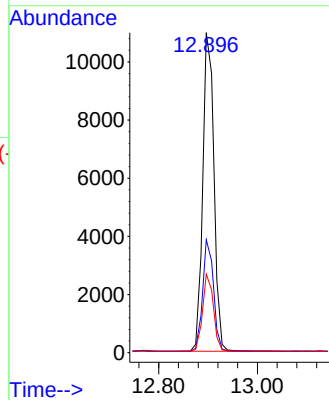
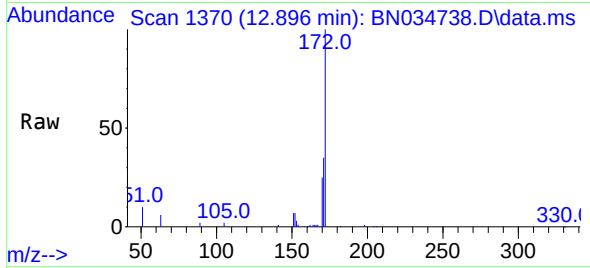




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.896 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

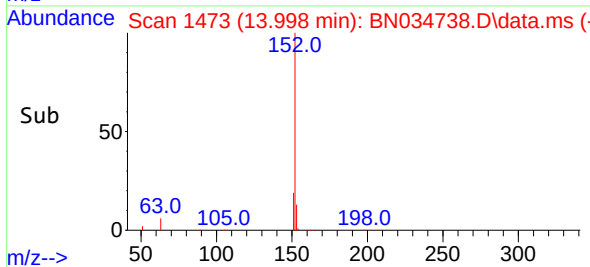
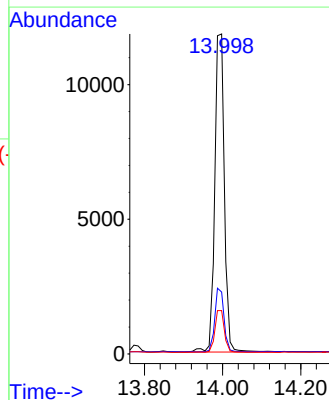
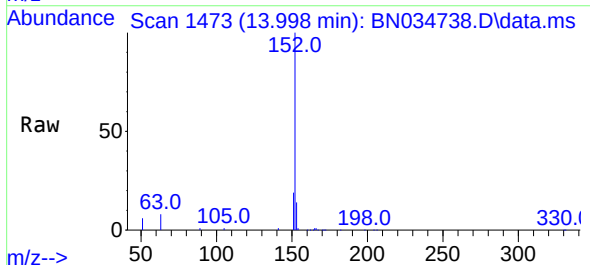
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

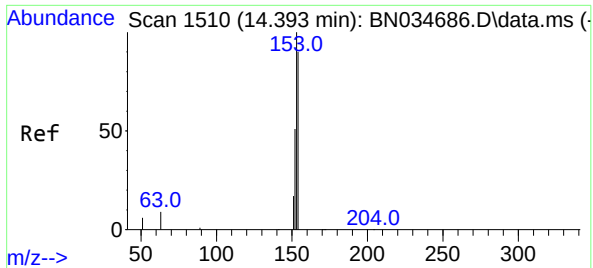
Tgt Ion:	172	Resp:	17246
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	24.6	19.8	29.6



#16
Acenaphthylene
Concen: 0.335 ng
RT: 13.998 min Scan# 1473
Delta R.T. 0.004 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:	152	Resp:	20253
Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.6	23.4
153	13.1	10.6	15.8

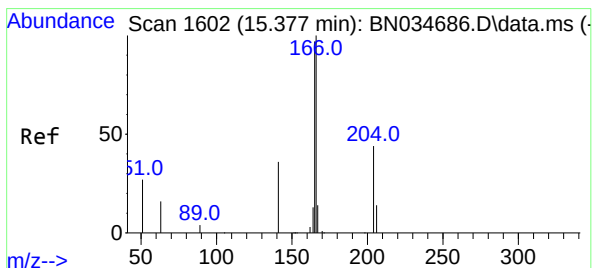
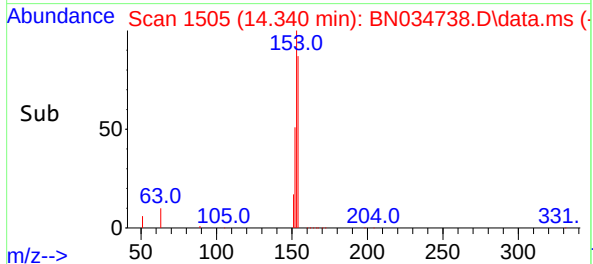
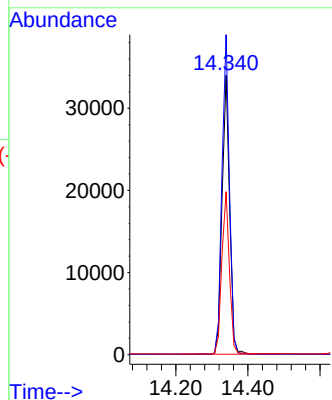
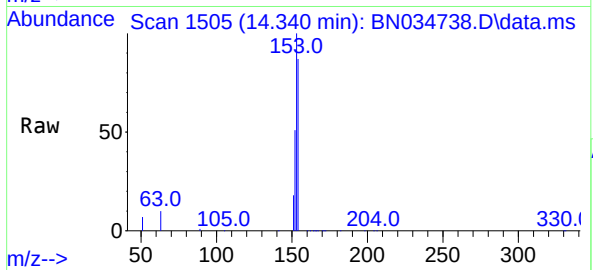




#17
Acenaphthene
Concen: 1.171 ng
RT: 14.340 min Scan# 1505
Delta R.T. 0.004 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

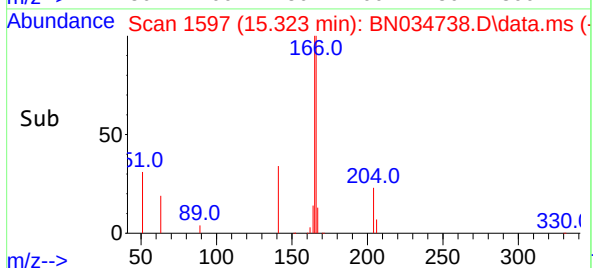
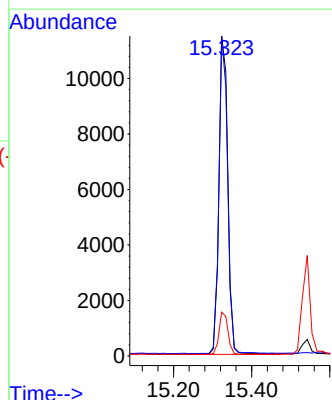
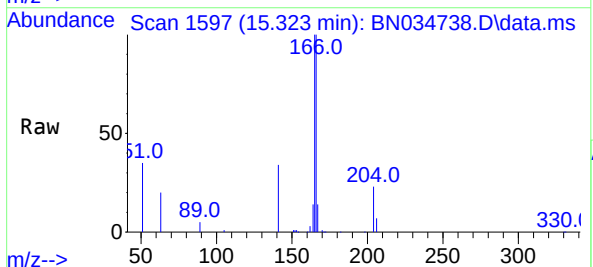
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

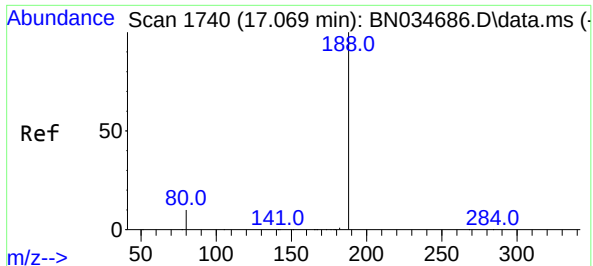
Tgt Ion:154 Resp: 48843
Ion Ratio Lower Upper
154 100
153 113.1 88.2 132.2
152 59.0 46.9 70.3



#18
Fluorene
Concen: 0.350 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:166 Resp: 17995
Ion Ratio Lower Upper
166 100
165 97.2 78.8 118.2
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.019 min Scan# 11

Delta R.T. 0.006 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

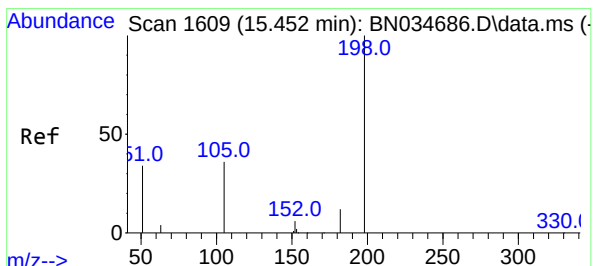
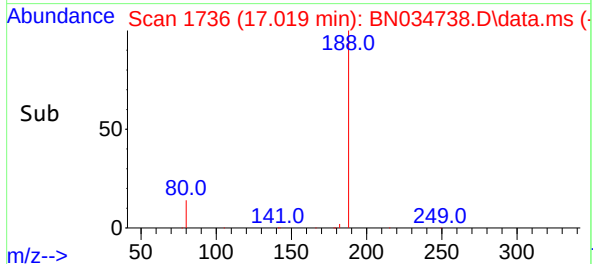
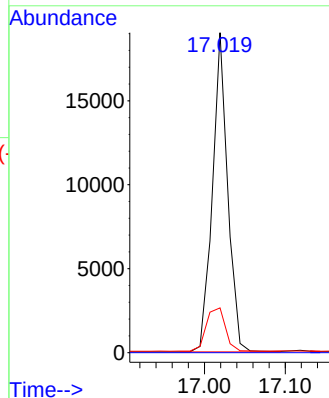
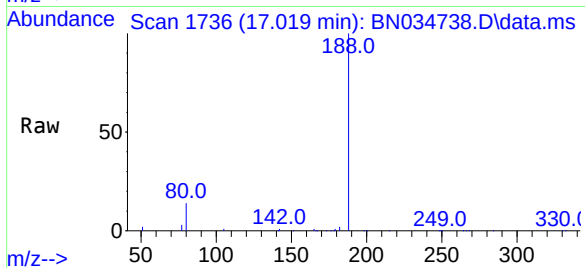
Tgt Ion:188 Resp: 24904

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.0 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.311 ng

RT: 15.398 min Scan# 1604

Delta R.T. -0.007 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

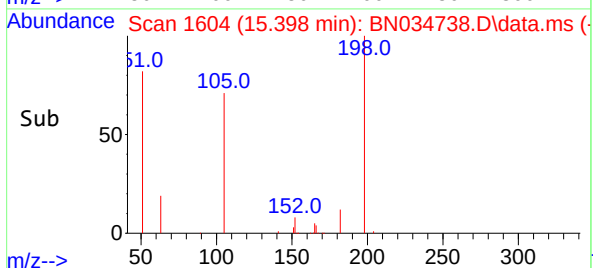
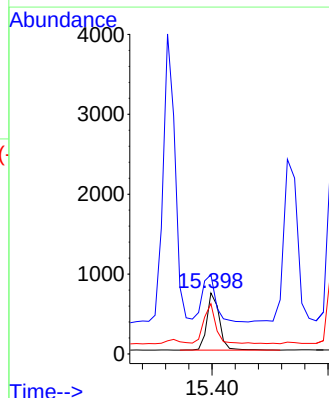
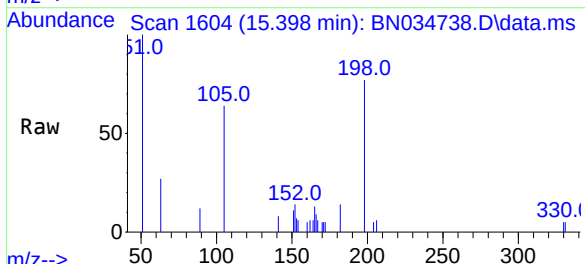
Tgt Ion:198 Resp: 1080

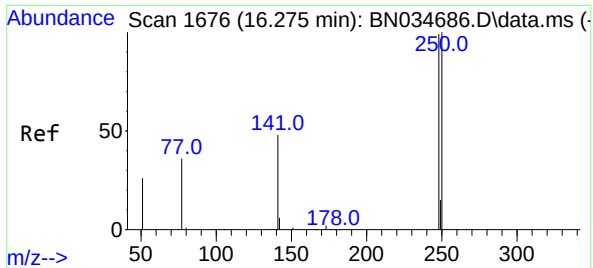
Ion Ratio Lower Upper

198 100

51 129.9 91.8 137.8

105 82.6 44.3 66.5#

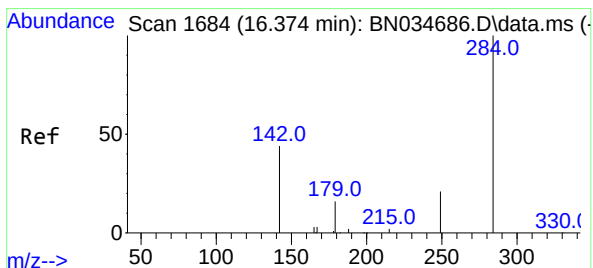
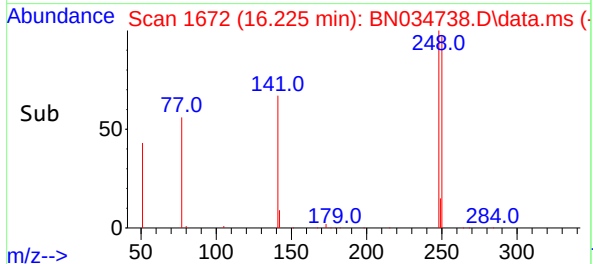
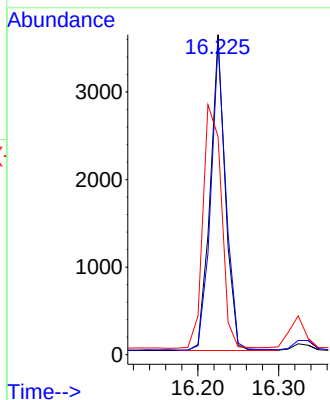
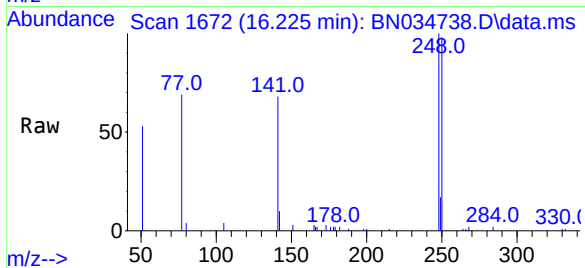




#21
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 16.225 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

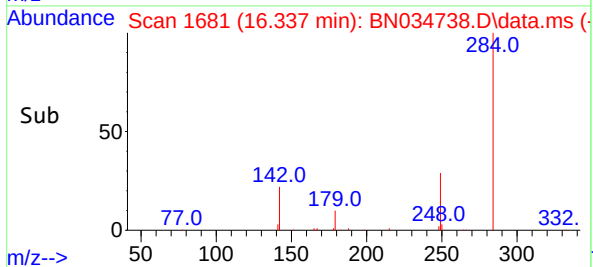
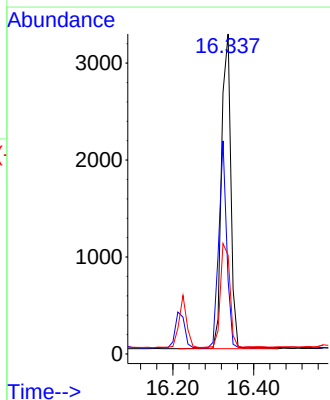
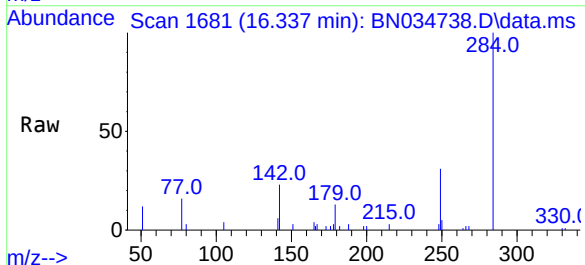
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

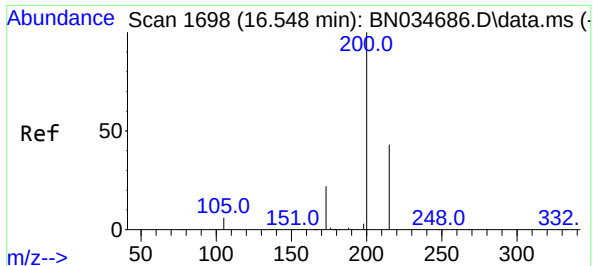
Tgt Ion:248 Resp: 4662
Ion Ratio Lower Upper
248 100
250 97.5 80.9 121.3
141 68.2 40.5 60.7#



#22
Hexachlorobenzene
Concen: 0.357 ng
RT: 16.337 min Scan# 1681
Delta R.T. 0.006 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:284 Resp: 5134
Ion Ratio Lower Upper
284 100
142 56.2 43.6 65.4
249 34.0 26.6 40.0

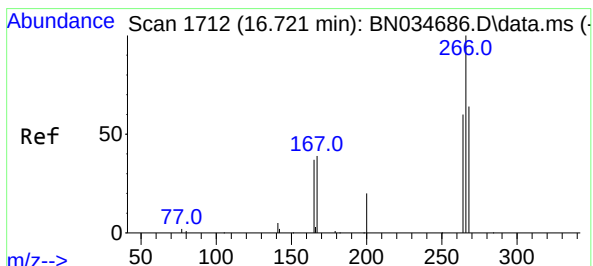
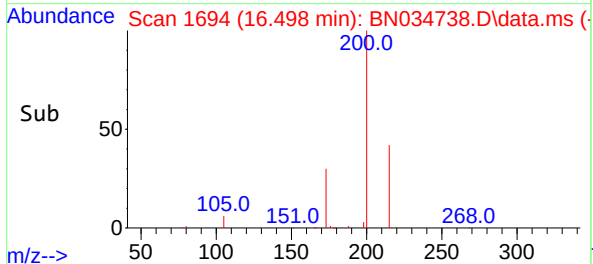
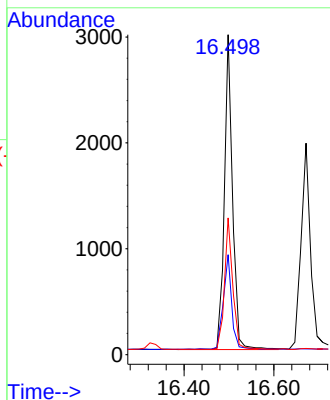
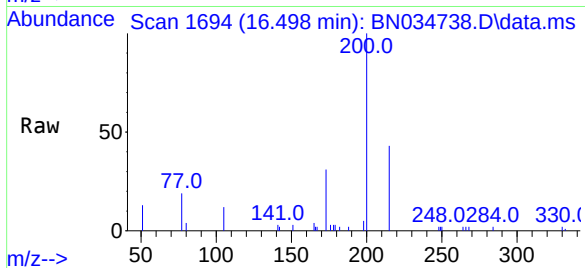




#23
Atrazine
Concen: 0.363 ng
RT: 16.498 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

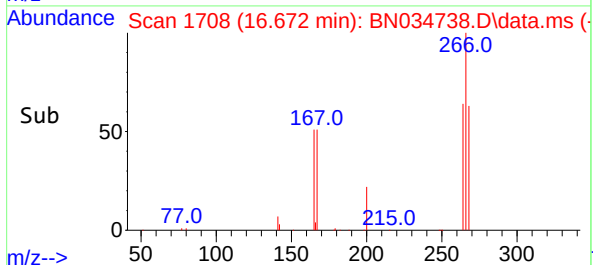
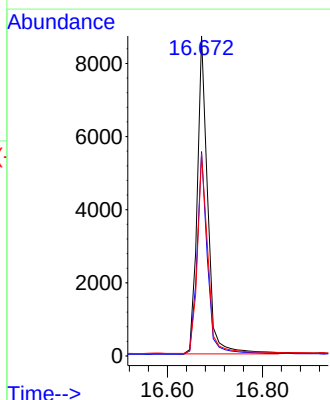
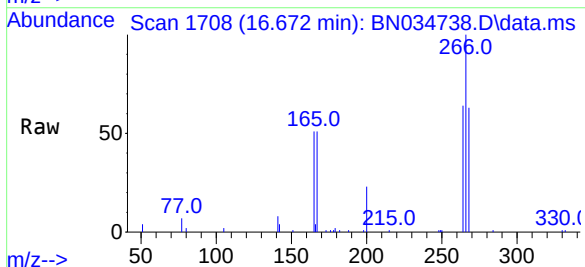
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

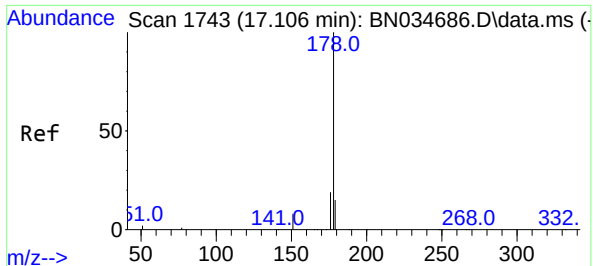
Tgt Ion:200 Resp: 3782
Ion Ratio Lower Upper
200 100
173 31.2 19.7 29.5#
215 42.8 35.7 53.5



#24
Pentachlorophenol
Concen: 2.614 ng
RT: 16.672 min Scan# 1708
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:266 Resp: 13312
Ion Ratio Lower Upper
266 100
264 63.0 49.4 74.2
268 63.2 50.5 75.7

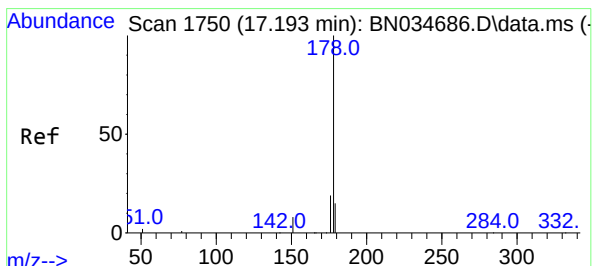
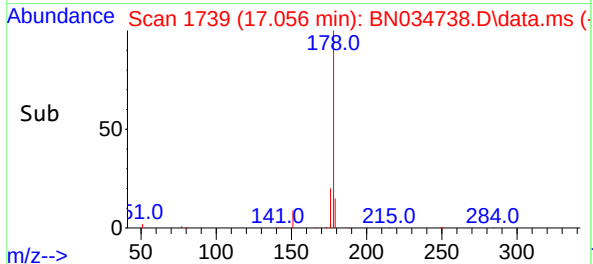
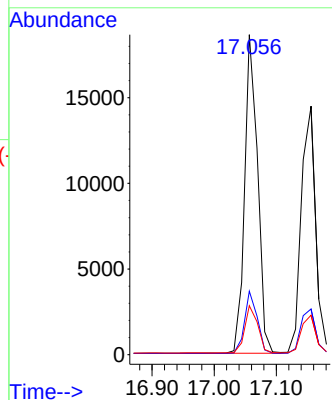
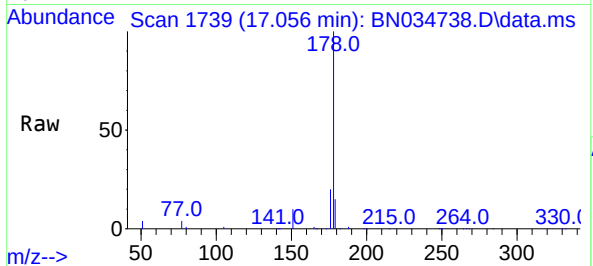




#25
Phenanthrene
Concen: 0.361 ng
RT: 17.056 min Scan# 1743
Delta R.T. -0.007 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

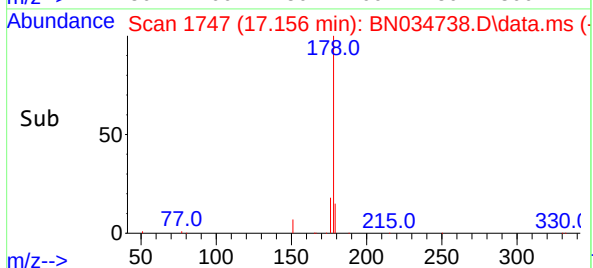
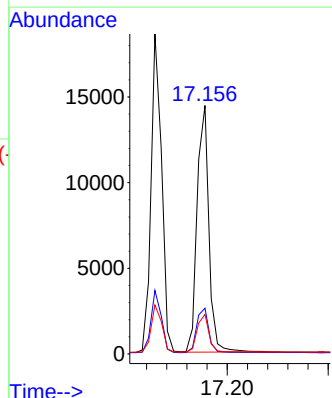
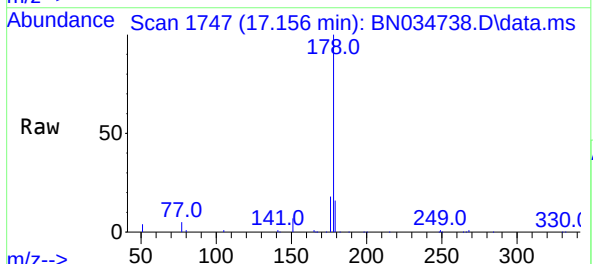
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

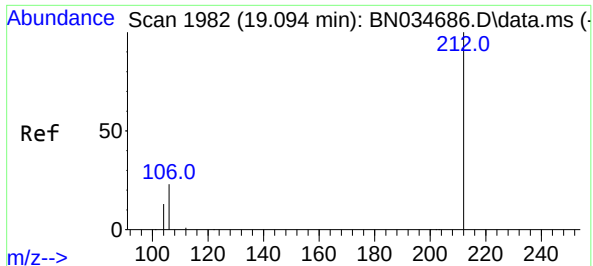
Tgt Ion:178 Resp: 26988
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.353 ng
RT: 17.156 min Scan# 1747
Delta R.T. 0.006 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:178 Resp: 23432
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.3 12.2 18.2

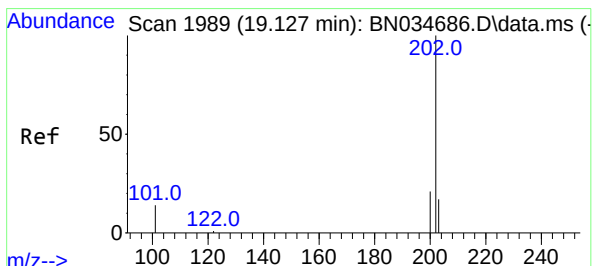
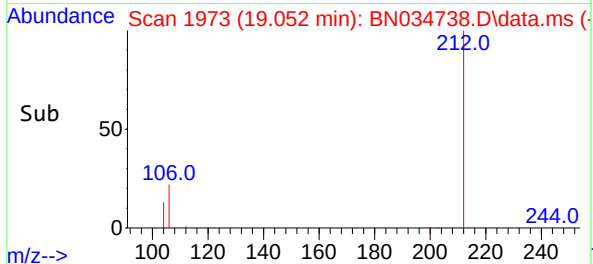
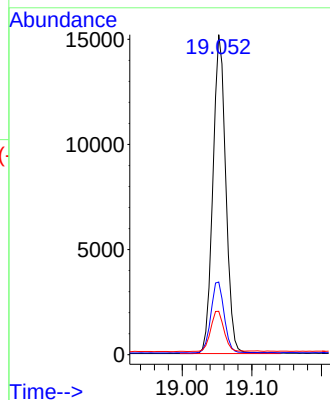
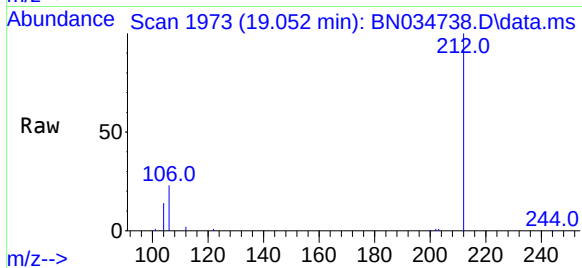




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 19.052 min Scan# 1973
Delta R.T. -0.002 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

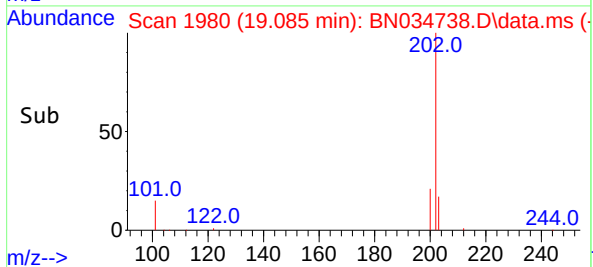
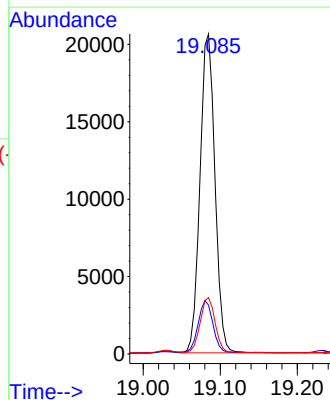
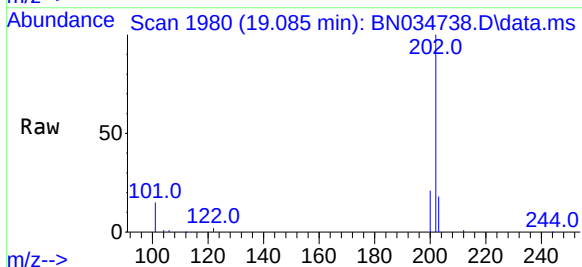
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

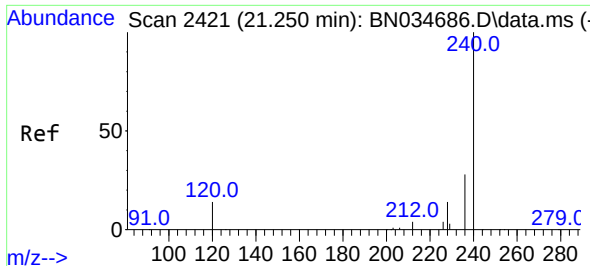
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.9	17.8	26.8
104	12.9	10.2	15.4



#28
Fluoranthene
Concen: 0.356 ng
RT: 19.085 min Scan# 1980
Delta R.T. 0.003 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.2	12.8	19.2
203	17.1	13.5	20.3

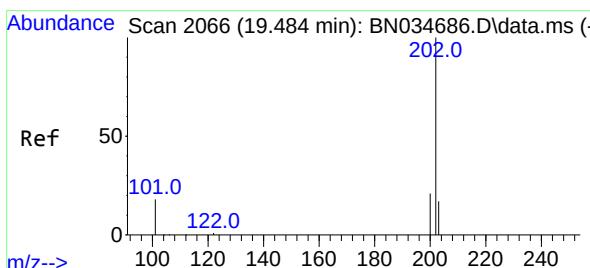
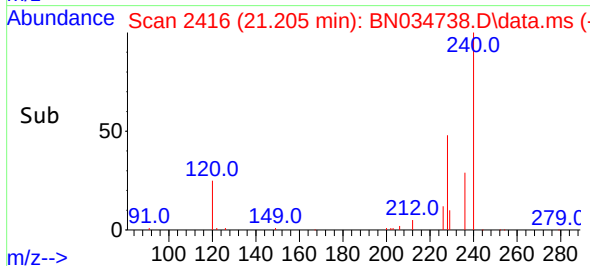
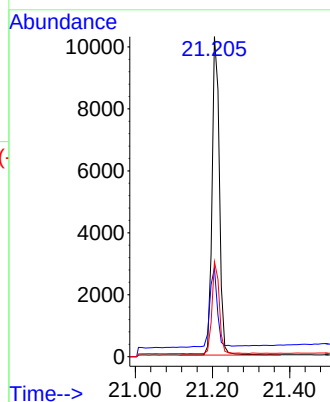
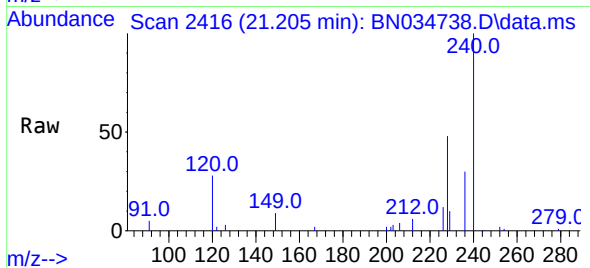




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.205 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

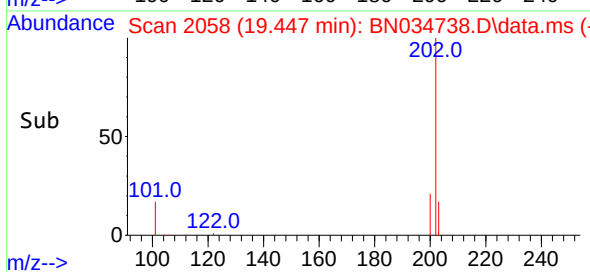
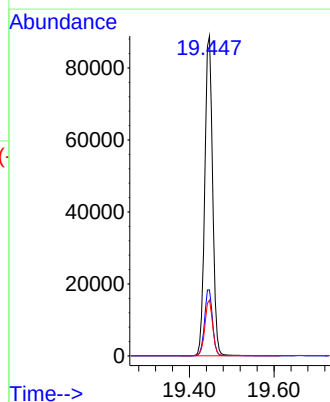
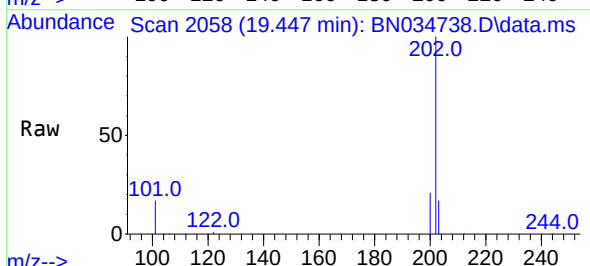
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

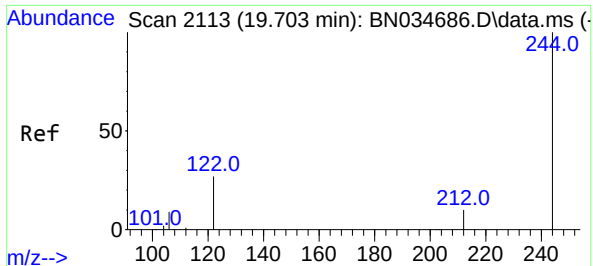
Tgt Ion	Ratio	Lower	Upper
240	100		
120	27.8	14.2	21.2#
236	29.7	23.1	34.7



#30
Pyrene
Concen: 1.638 ng
RT: 19.447 min Scan# 2058
Delta R.T. 0.003 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

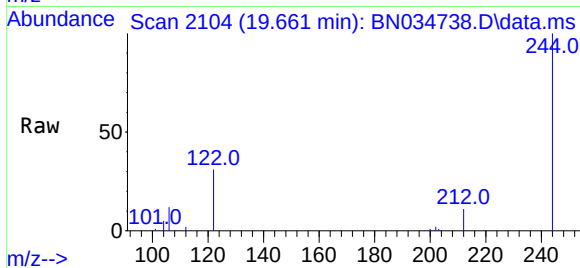
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.3	14.2	21.4



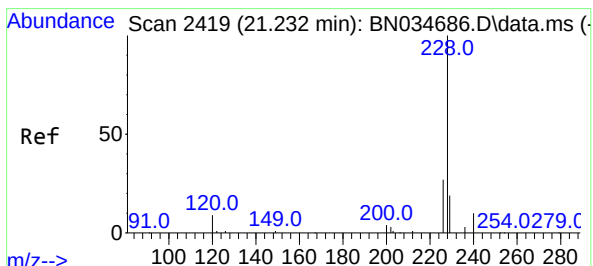
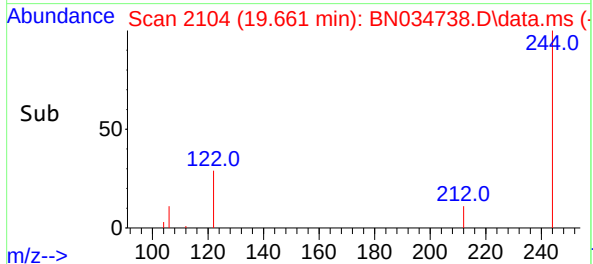
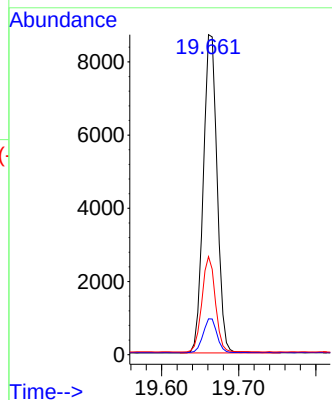


#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.661 min Scan# 2104
Delta R.T. -0.002 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

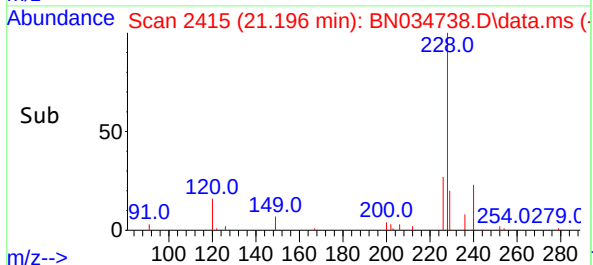
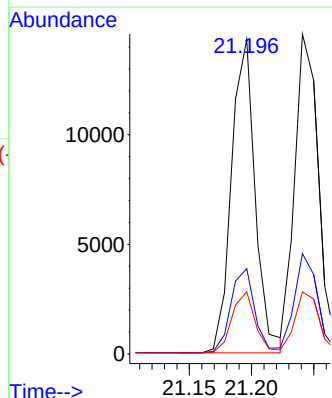
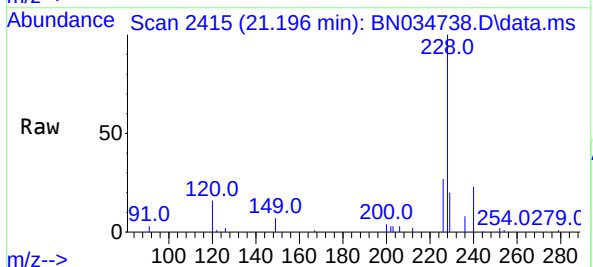


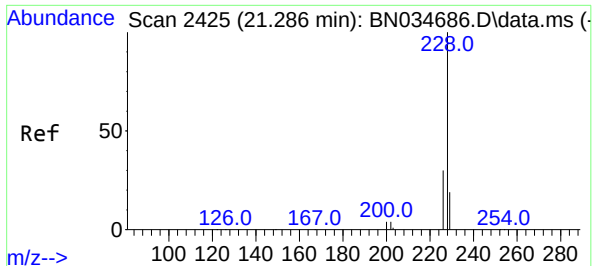
Tgt Ion:244 Resp: 10832
Ion Ratio Lower Upper
244 100
212 11.2 8.6 13.0
122 30.7 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.002 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion:228 Resp: 18966
Ion Ratio Lower Upper
228 100
226 27.1 22.0 33.0
229 19.8 15.6 23.4

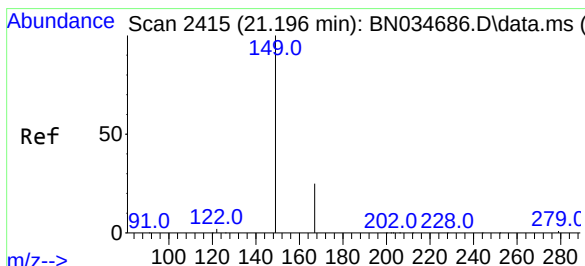
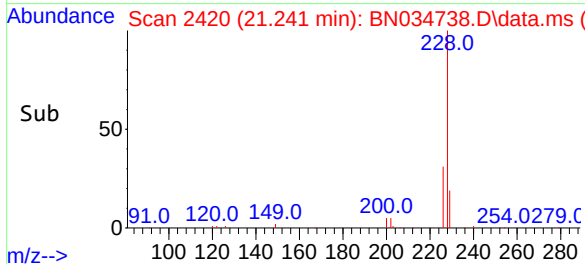
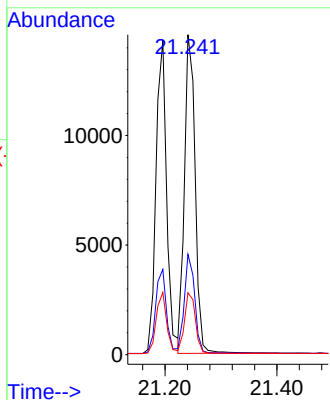
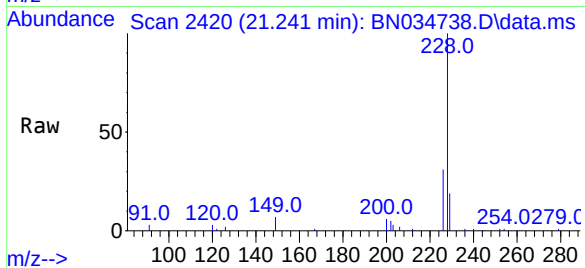




#33
Chrysene
Concen: 0.362 ng
RT: 21.241 min Scan# 2411
Delta R.T. -0.006 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

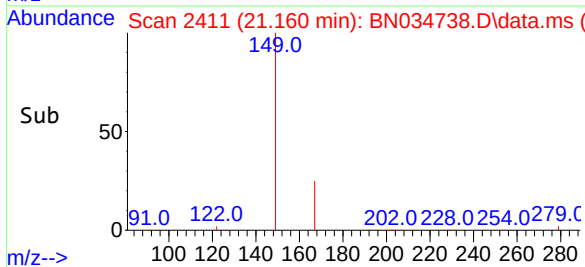
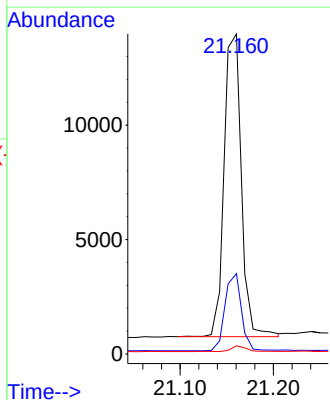
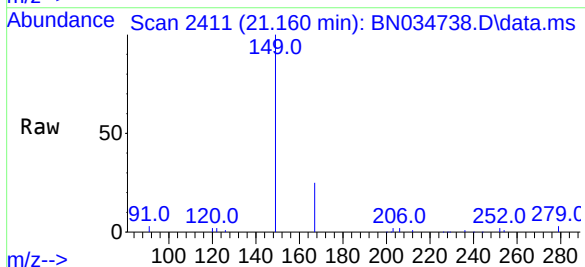
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

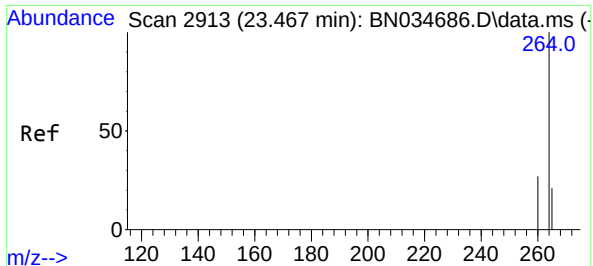
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.1	36.1
229	19.4	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.579 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.002 min
Lab File: BN034738.D
Acq: 26 Oct 2024 12:41

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.7	29.5
279	1.8	1.8	2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.408 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

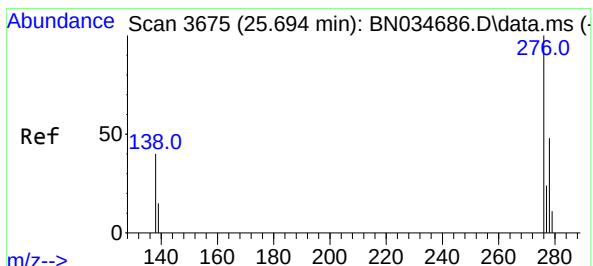
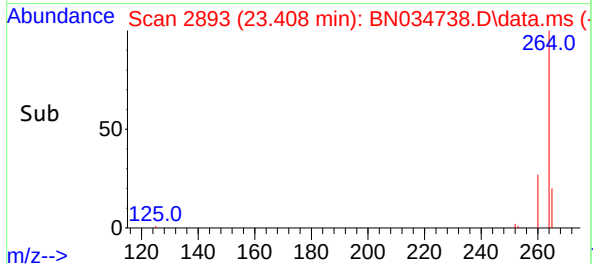
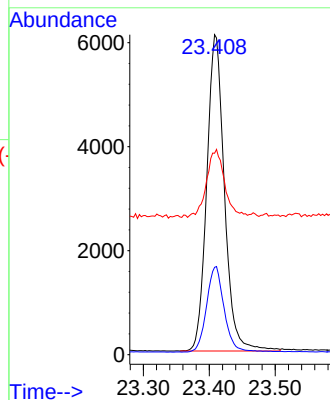
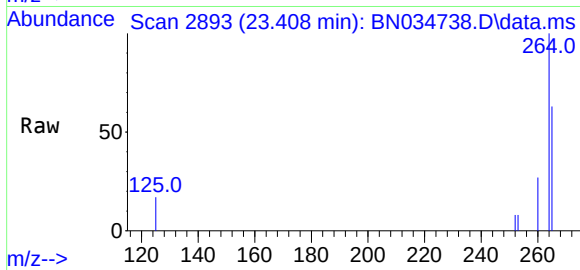
Tgt Ion:264 Resp: 11315

Ion Ratio Lower Upper

264 100

260 27.3 21.9 32.9

265 63.0 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.353 ng

RT: 25.612 min Scan# 3647

Delta R.T. -0.001 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

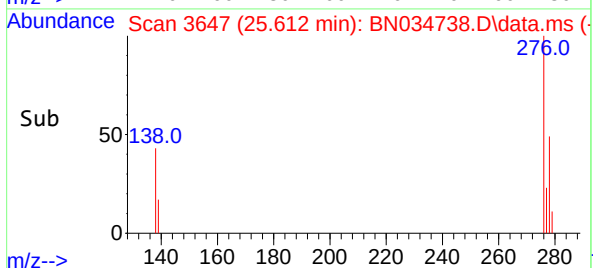
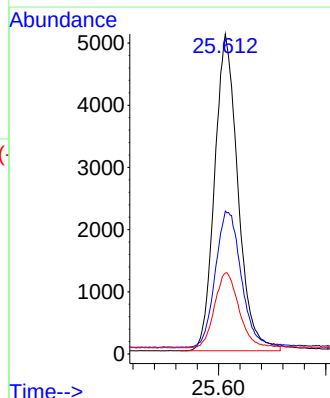
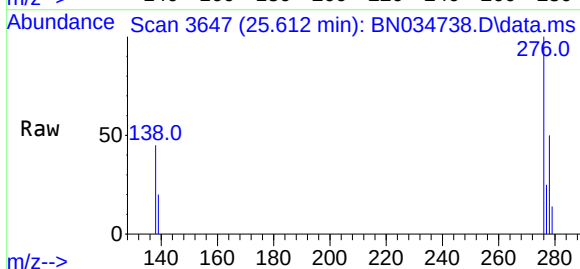
Tgt Ion:276 Resp: 15395

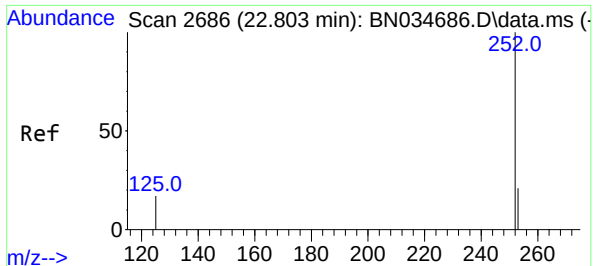
Ion Ratio Lower Upper

276 100

138 48.0 35.1 52.7

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.368 ng

RT: 22.753 min Scan# 2669

Delta R.T. -0.001 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

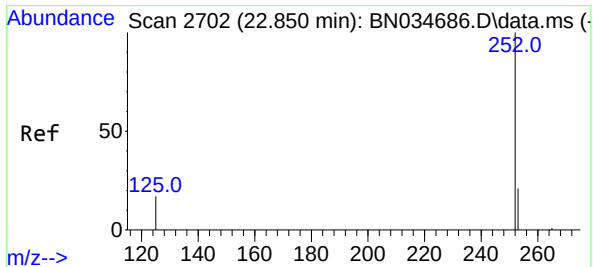
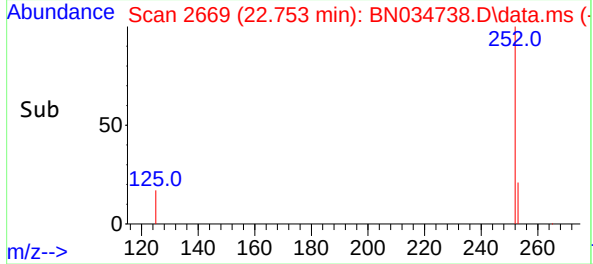
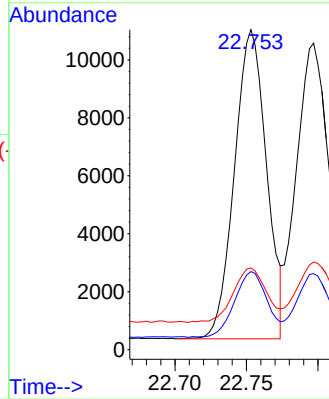
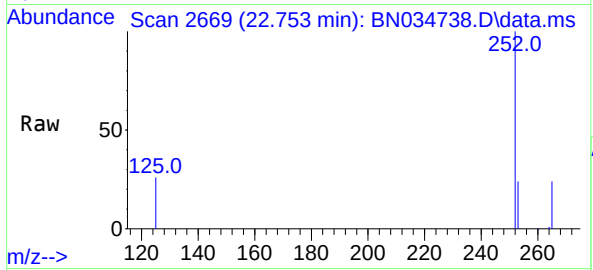
Tgt Ion:252 Resp: 16622

Ion Ratio Lower Upper

252 100

253 24.4 20.0 30.0

125 25.6 20.9 31.3



#38

Benzo(k)fluoranthene

Concen: 0.374 ng

RT: 22.797 min Scan# 2684

Delta R.T. -0.001 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

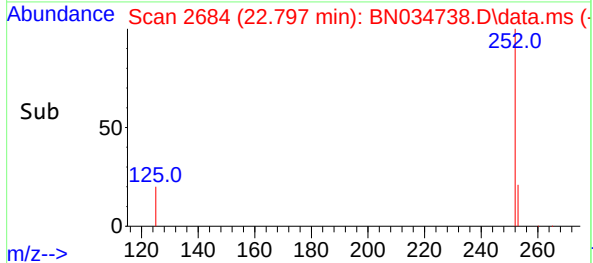
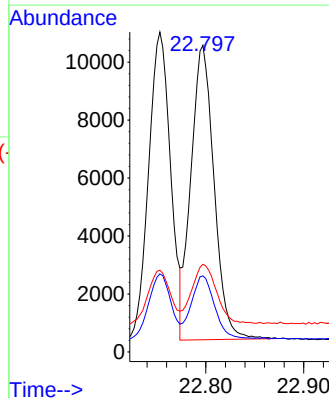
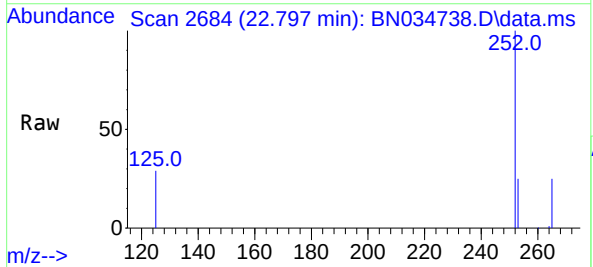
Tgt Ion:252 Resp: 16668

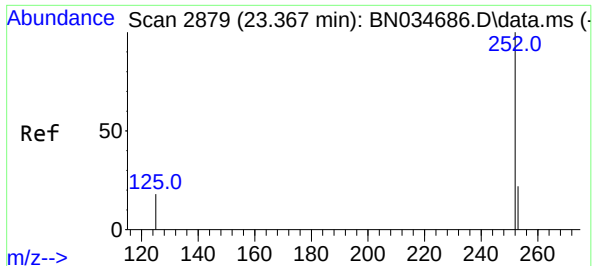
Ion Ratio Lower Upper

252 100

253 24.8 20.6 31.0

125 28.6 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.312 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

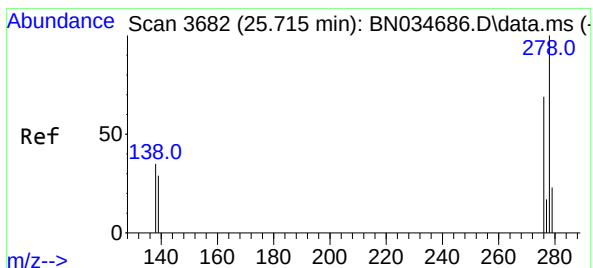
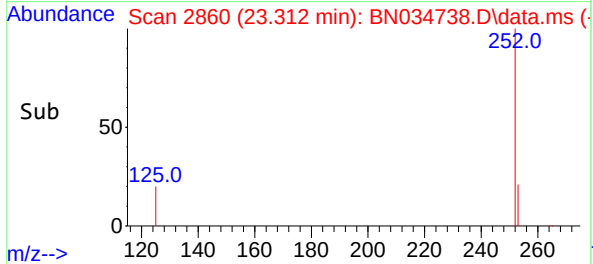
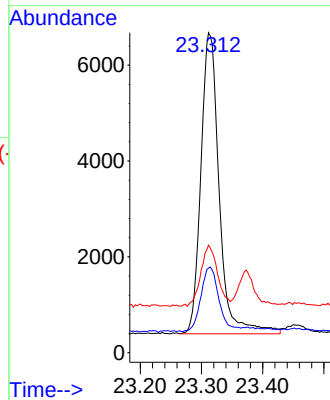
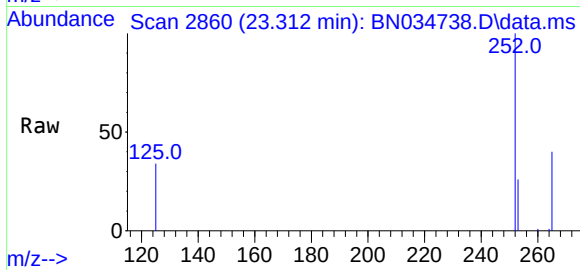
Tgt Ion:252 Resp: 13079

Ion Ratio Lower Upper

252 100

253 26.4 22.2 33.4

125 33.6 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

RT: 25.630 min Scan# 3653

Delta R.T. -0.004 min

Lab File: BN034738.D

Acq: 26 Oct 2024 12:41

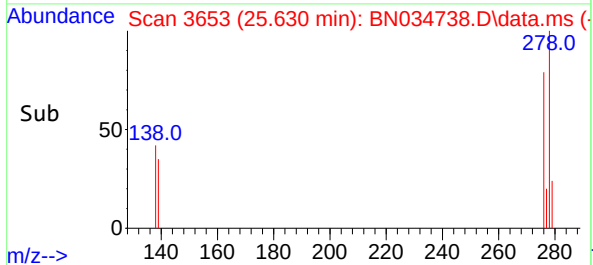
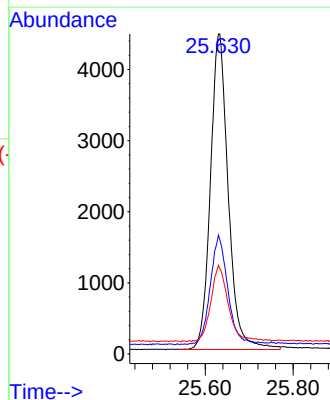
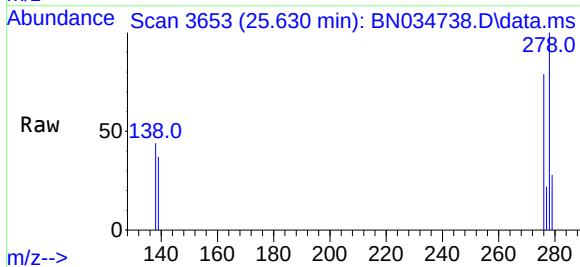
Tgt Ion:278 Resp: 12499

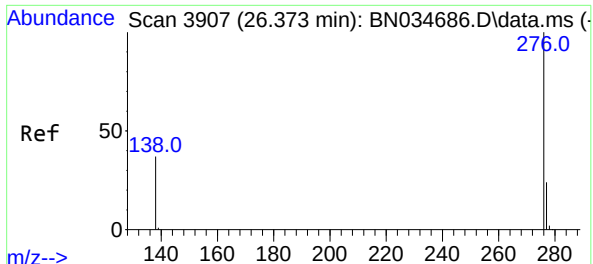
Ion Ratio Lower Upper

278 100

139 37.2 25.4 38.2

279 27.7 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 26.279 min Scan# 31

Delta R.T. -0.001 min

Lab File: BN034738.D

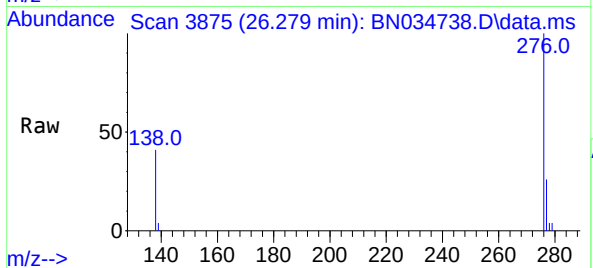
Acq: 26 Oct 2024 12:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



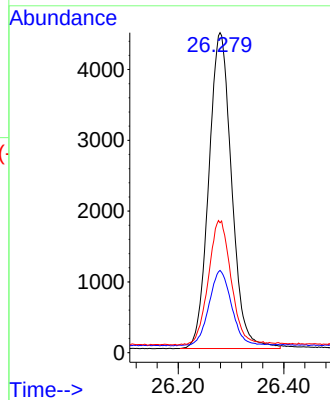
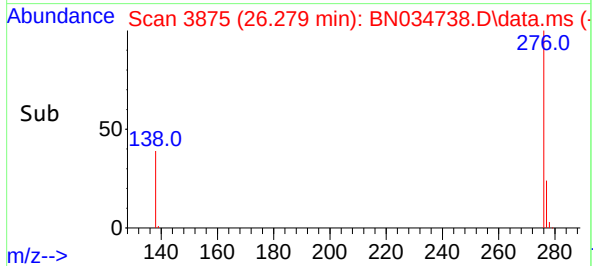
Tgt Ion:276 Resp: 13433

Ion Ratio Lower Upper

276 100

277 25.7 21.3 31.9

138 40.6 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034738.D
Acq On : 26 Oct 2024 12:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 28 00:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 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	129	0.00
2	1,4-Dioxane	0.532	0.472	11.3	125	0.00
3	n-Nitrosodimethylamine	0.775	0.735	5.2	134	0.00
4 S	2-Fluorophenol	1.189	1.228	-3.3	148	0.00
5 S	Phenol-d6	1.568	1.647	-5.0	153#	0.00
6	bis(2-Chloroethyl)ether	1.274	1.209	5.1	136	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	133	0.00
8 S	Nitrobenzene-d5	0.336	0.304	9.5	137	0.00
9	Naphthalene	1.107	1.013	8.5	136	0.00
10	Hexachlorobutadiene	0.166	0.149	10.2	133	0.00
11 SURR	2-Methylnaphthalene-d10	0.550	0.495	10.0	137	0.00
12	2-Methylnaphthalene	0.687	0.627	8.7	138	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	135	0.00
14 S	2,4,6-Tribromophenol	0.124	0.117	5.6	165#	0.00
15 S	2-Fluorobiphenyl	1.590	1.369	13.9	134	0.00
16	Acenaphthylene	1.921	1.607	16.3	138	0.00
17	Acenaphthene	1.324	3.876	-192.7#	468#	0.00
18	Fluorene	1.634	1.428	12.6	139	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	137	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.043	23.2	140	0.00
21	4-Bromophenyl-phenylether	0.213	0.187	12.2	135	0.00
22	Hexachlorobenzene	0.231	0.206	10.8	134	0.00
23	Atrazine	0.168	0.152	9.5	149	0.00
24	Pentachlorophenol	0.082	0.535	-552.4#	1144#	0.00
25	Phenanthrene	1.202	1.084	9.8	139	0.00
26	Anthracene	1.067	0.941	11.8	138	0.00
27 SURR	Fluoranthene-d10	0.901	0.784	13.0	137	0.00
28	Fluoranthene	1.253	1.115	11.0	140	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	127	0.00
30	Pyrene	2.055	8.415	-309.5#	571#	0.00
31 S	Terphenyl-d14	0.817	0.800	2.1	138	0.00
32	Benzo(a)anthracene	1.528	1.400	8.4	130	0.00
33	Chrysene	1.581	1.432	9.4	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	1.255	-44.8#	221#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.361	11.7	113	0.00
37	Benzo(b)fluoranthene	1.597	1.469	8.0	117	0.00
38	Benzo(k)fluoranthene	1.576	1.473	6.5	125	0.00
39 C	Benzo(a)pyrene	1.282	1.156	9.8	118	0.00
40	Dibenzo(a,h)anthracene	1.215	1.105	9.1	117	0.00
41	Benzo(g,h,i)perylene	1.340	1.187	11.4	111	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034738.D
Acq On : 26 Oct 2024 12:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 28 00:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 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	129	0.00
2	1,4-Dioxane	0.400	0.355	11.3	125	0.00
3	n-Nitrosodimethylamine	0.400	0.379	5.3	134	0.00
4 S	2-Fluorophenol	0.400	0.413	-3.2	148	0.00
5 S	Phenol-d6	0.400	0.420	-5.0	153	0.00
6	bis(2-Chloroethyl)ether	0.400	0.380	5.0	136	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	133	0.00
8 S	Nitrobenzene-d5	0.400	0.362	9.5	137	0.00
9	Naphthalene	0.400	0.366	8.5	136	0.00
10	Hexachlorobutadiene	0.400	0.359	10.3	133	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	137	0.00
12	2-Methylnaphthalene	0.400	0.365	8.8	138	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	135	0.00
14 S	2,4,6-Tribromophenol	0.400	0.379	5.3	165	0.00
15 S	2-Fluorobiphenyl	0.400	0.344	14.0	134	0.00
16	Acenaphthylene	0.400	0.335	16.3	138	0.00
17	Acenaphthene	0.400	1.171	-192.8#	468	0.00
18	Fluorene	0.400	0.350	12.5	139	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	137	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.311	22.3	140	0.00
21	4-Bromophenyl-phenylether	0.400	0.351	12.3	135	0.00
22	Hexachlorobenzene	0.400	0.357	10.8	134	0.00
23	Atrazine	0.400	0.363	9.3	149	0.00
24	Pentachlorophenol	0.400	2.614	-553.5#	1144	0.00
25	Phenanthrene	0.400	0.361	9.8	139	0.00
26	Anthracene	0.400	0.353	11.8	138	0.00
27 SURR	Fluoranthene-d10	0.400	0.348	13.0	137	0.00
28	Fluoranthene	0.400	0.356	11.0	140	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	127	0.00
30	Pyrene	0.400	1.638	-309.5#	571	0.00
31 S	Terphenyl-d14	0.400	0.391	2.3	138	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	130	0.00
33	Chrysene	0.400	0.362	9.5	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.579	-44.7#	221	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.353	11.8	113	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	117	0.00
38	Benzo(k)fluoranthene	0.400	0.374	6.5	125	0.00
39 C	Benzo(a)pyrene	0.400	0.361	9.8	118	0.00
40	Dibenzo(a,h)anthracene	0.400	0.364	9.0	117	0.00
41	Benzo(g,h,i)perylene	0.400	0.355	11.3	111	0.00

(#) = Out of Range

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



QC SAMPLE DATA

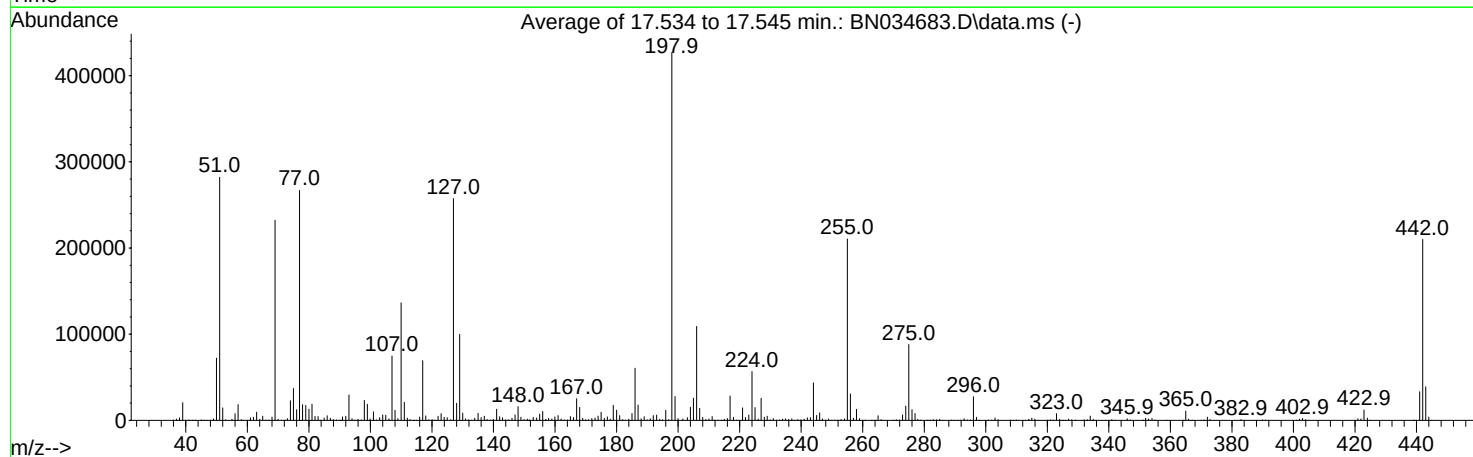
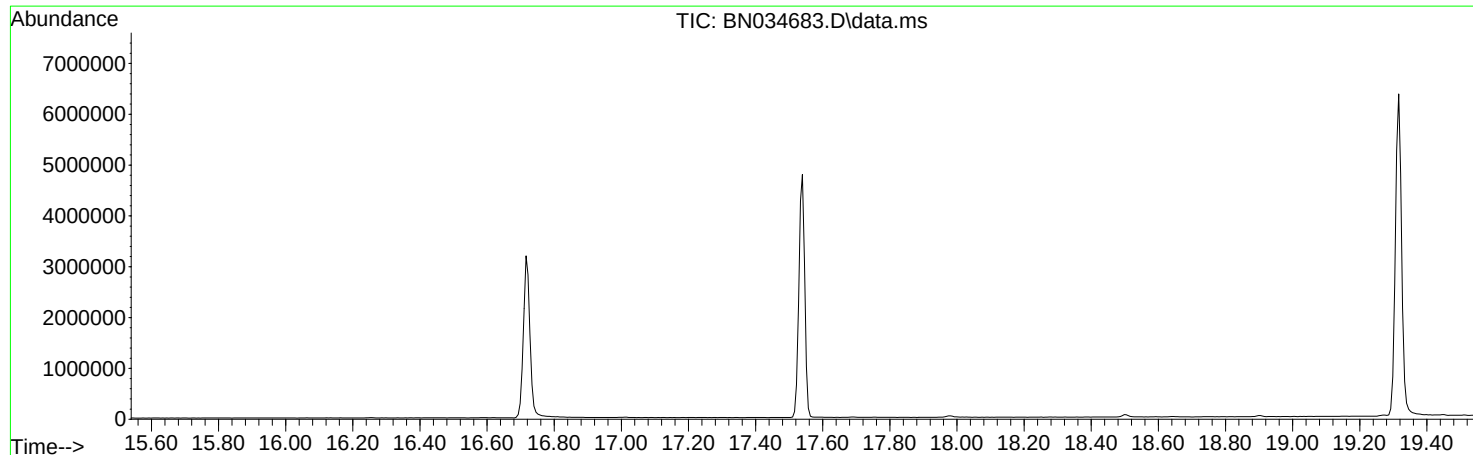
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034683.D
Acq On : 24 Oct 2024 07:59
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-BN102424.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Oct 24 13:17:02 2024



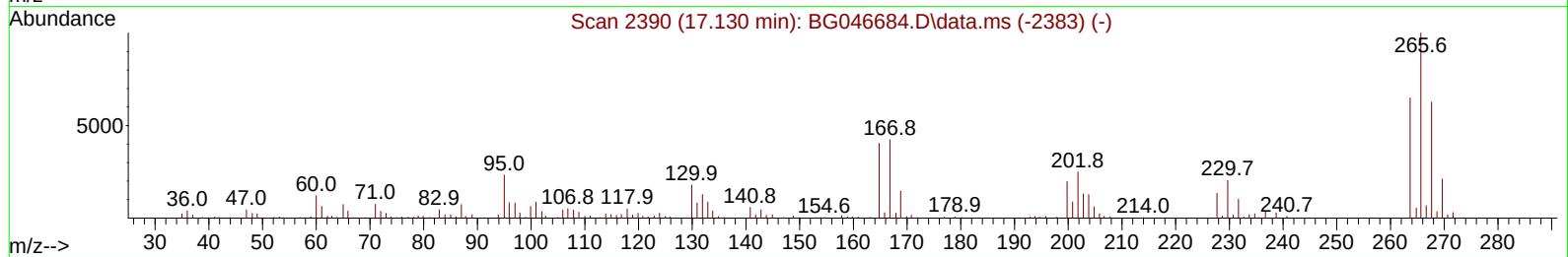
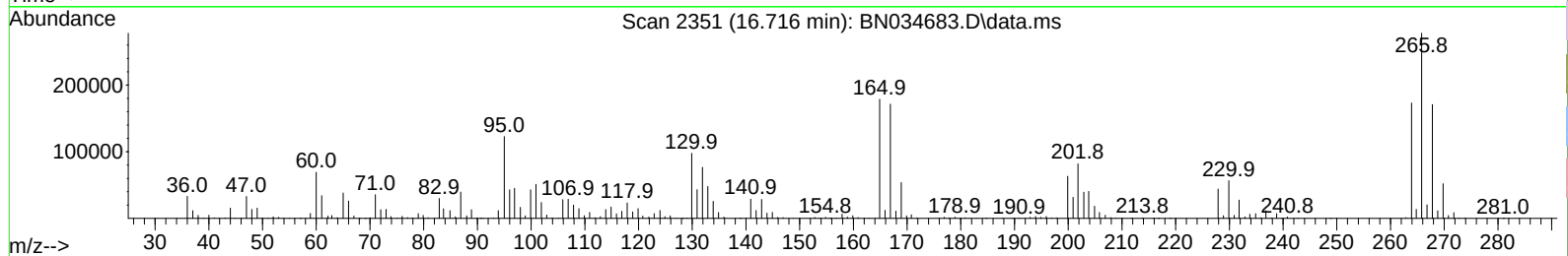
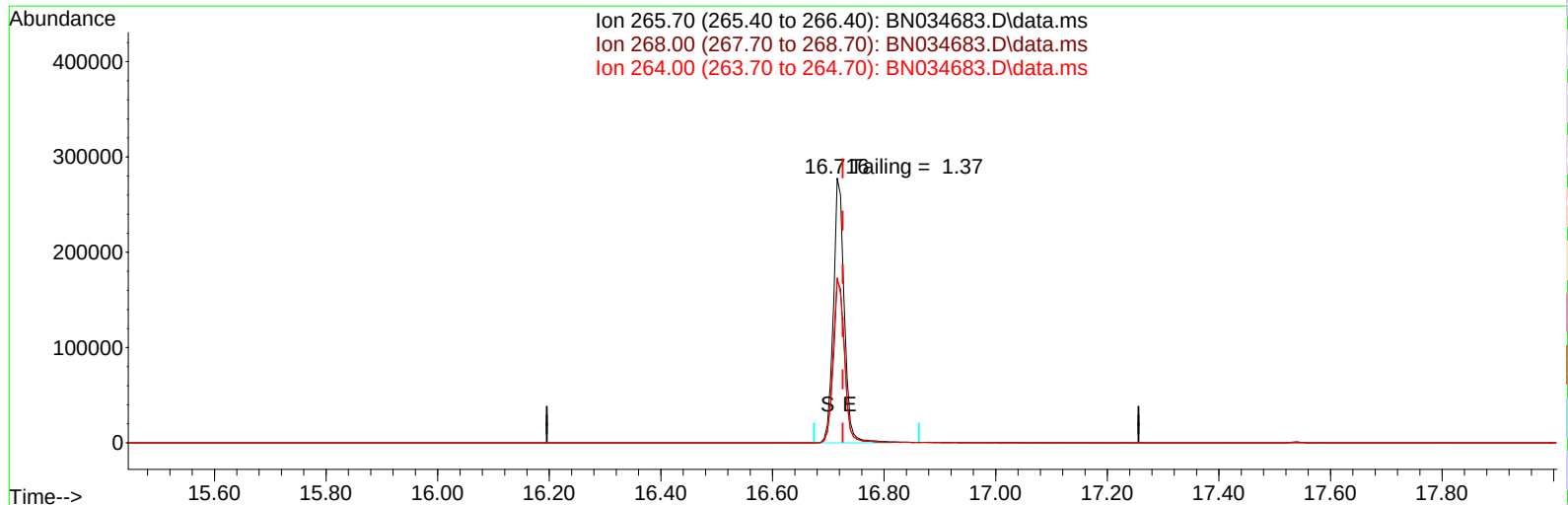
AutoFind: Scans 2490, 2491, 2492; Background Corrected with Scan 2483

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	66.1	282114	PASS
68	69	0.00	2	1.7	3908	PASS
69	198	0.00	100	54.4	232312	PASS
70	69	0.00	2	0.5	1275	PASS
127	198	10	80	60.3	257365	PASS
197	198	0.00	2	0.2	1012	PASS
198	198	100	100	100.0	426901	PASS
199	198	5	9	6.5	27752	PASS
275	198	10	60	20.6	88117	PASS
365	198	1	100	2.5	10758	PASS
441	198	0.01	100	7.8	33160	PASS
442	442	50	100	100.0	210005	PASS
443	442	15	24	18.6	39008	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034683.D
Acq On : 24 Oct 2024 07:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 24 12:50:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 02:40:52 2024
Response via : Initial Calibration



TIC: BN034683.D\data.ms

(70) Pentachlorophenol (C)

16.716min (-0.010) 17805.12 ng

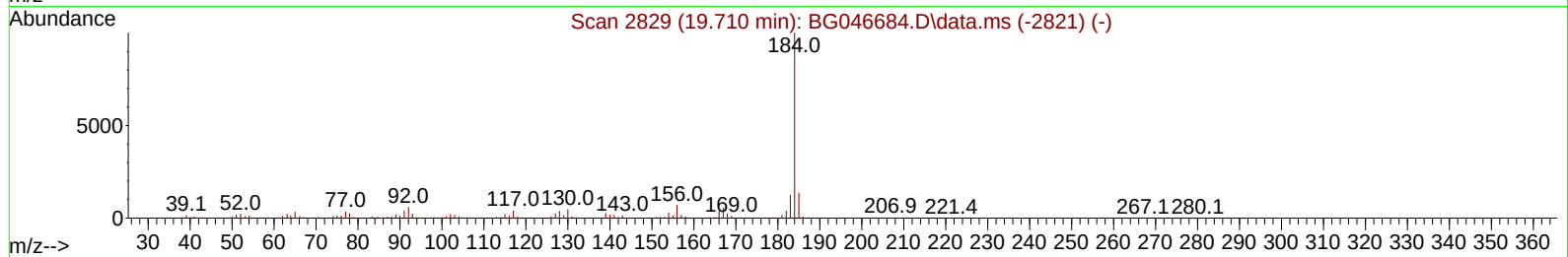
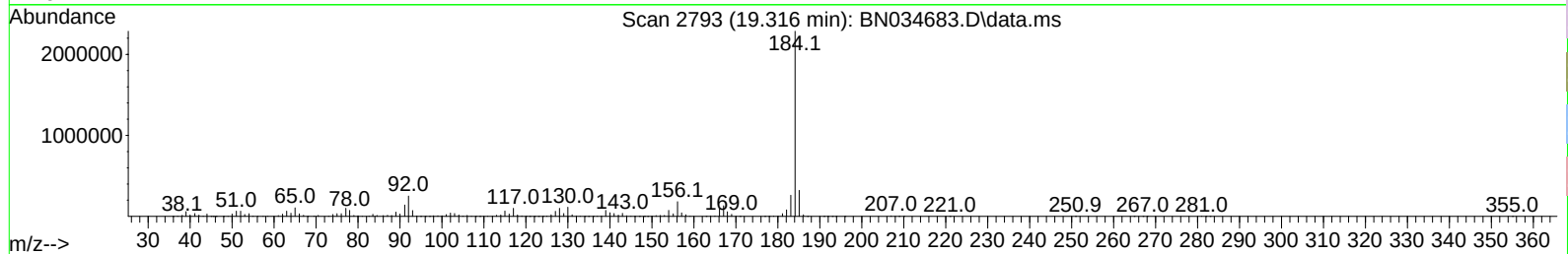
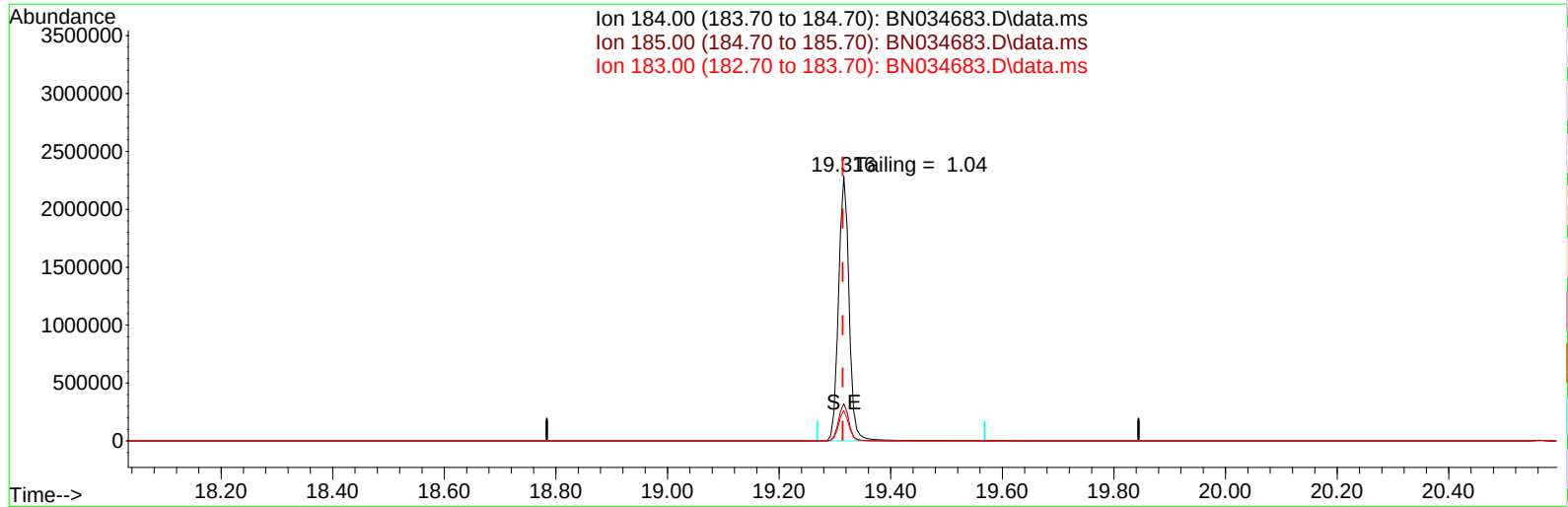
response 375874

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.45
264.00	61.60	62.35
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034683.D
Acq On : 24 Oct 2024 07:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 24 12:50:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 02:40:52 2024
Response via : Initial Calibration



TIC: BN034683.D\data.ms

(77) Benzidine

19.316min (+ 0.002) 0.00 ng

response 3022437

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.04
183.00	13.20	11.45
0.00	0.00	0.00

DDT Breakdown

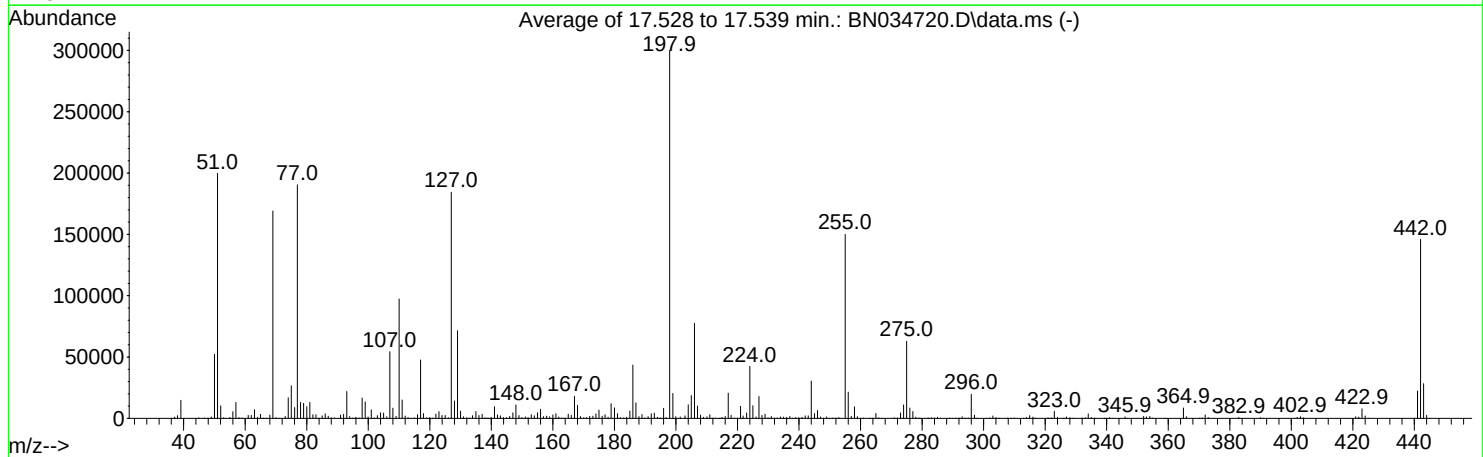
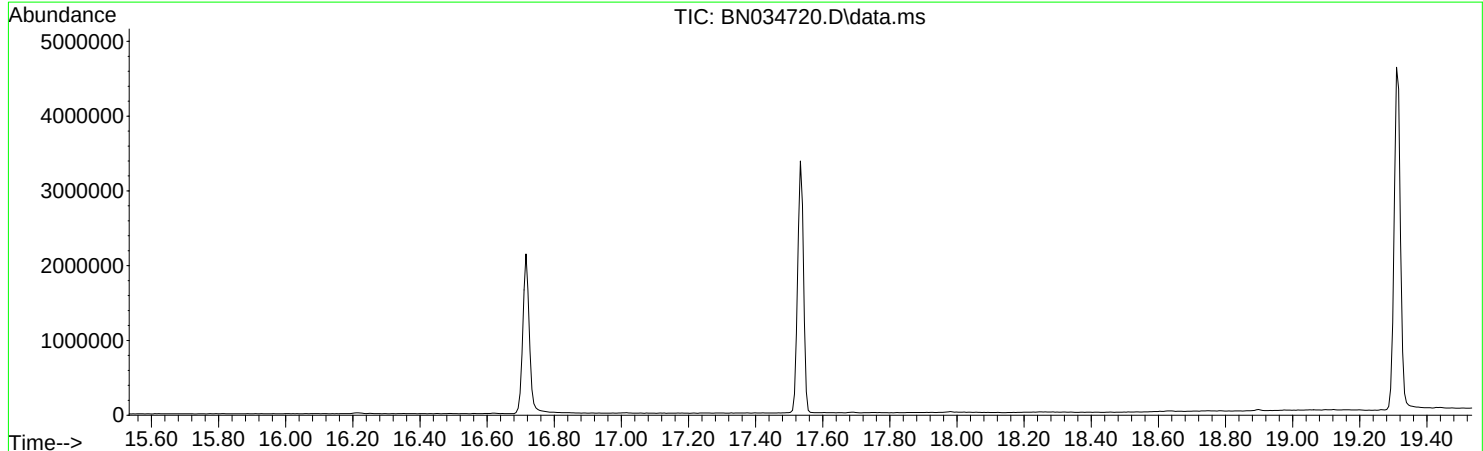
Date	Instrument Name	DFTPP Data File
10/24/2024	BNA_N	<u>BN034683.D</u>
Compound Name	Response	Retention Time
DDT	1329547	20.563
DDD	11879	20.175
DDE	111	19.622
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11990	1341537	0.89

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034720.D
Acq On : 25 Oct 2024 09:07
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-BN102424.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 25 22:11:36 2024



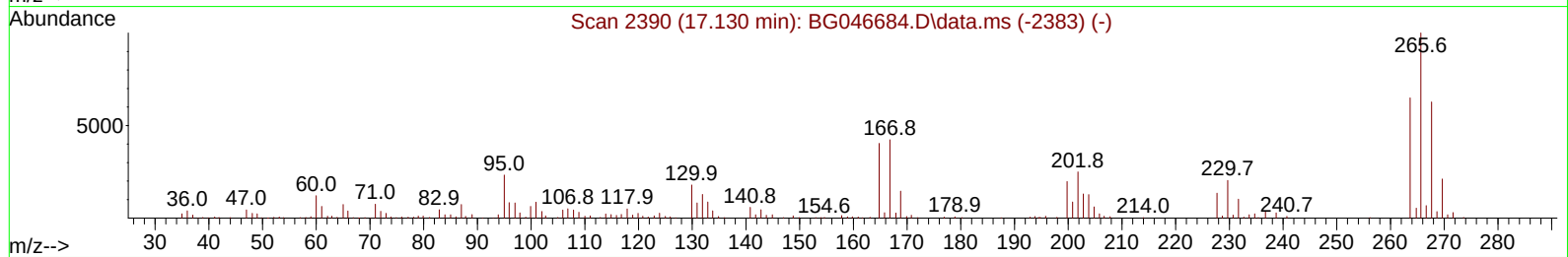
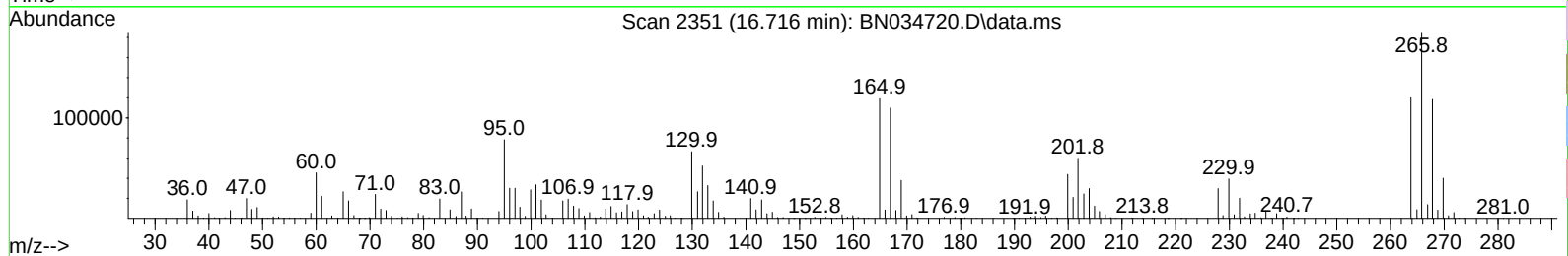
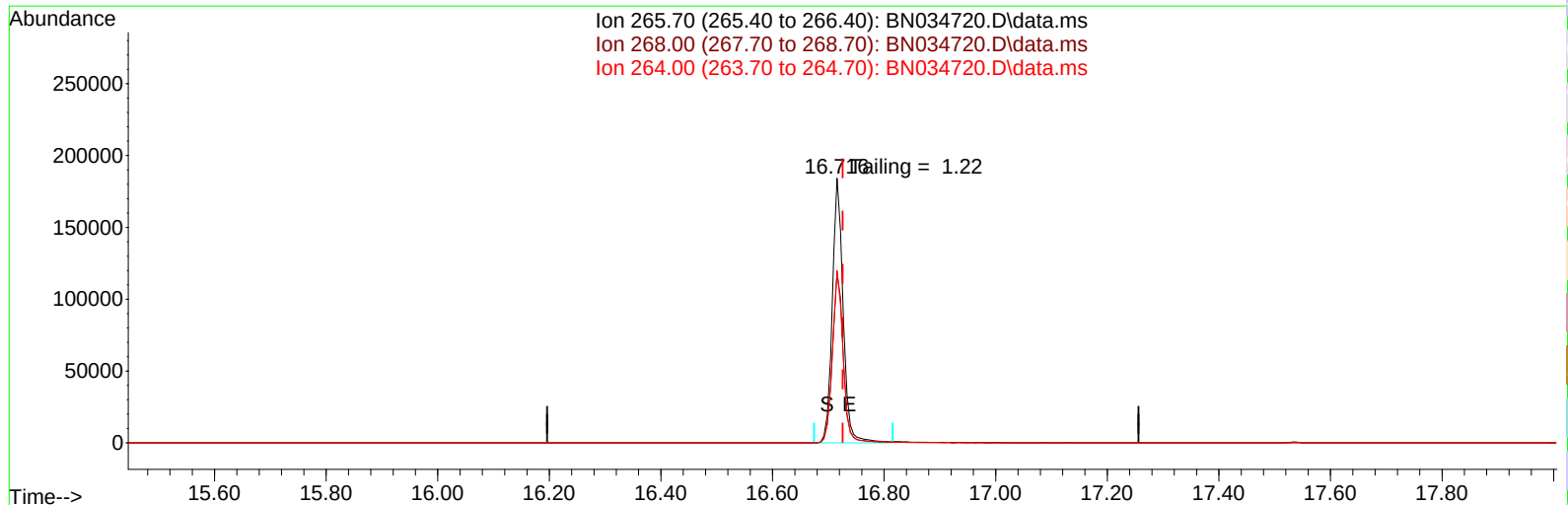
AutoFind: Scans 2489, 2490, 2491; Background Corrected with Scan 2482

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	66.6	199713	PASS
68	69	0.00	2	1.6	2696	PASS
69	198	0.00	100	56.4	169054	PASS
70	69	0.00	2	0.4	594	PASS
127	198	10	80	61.5	184363	PASS
197	198	0.00	2	0.3	764	PASS
198	198	100	100	100.0	299904	PASS
199	198	5	9	6.8	20312	PASS
275	198	10	60	21.0	62957	PASS
365	198	1	100	2.8	8432	PASS
441	198	0.01	100	7.4	22267	PASS
442	442	50	100	100.0	145949	PASS
443	442	15	24	19.4	28343	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034720.D
Acq On : 25 Oct 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 25 14:47:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 02:24:36 2024
Response via : Initial Calibration



TIC: BN034720.D\data.ms

(70) Pentachlorophenol (C)

16.716min (-0.010) 16177.27 ng

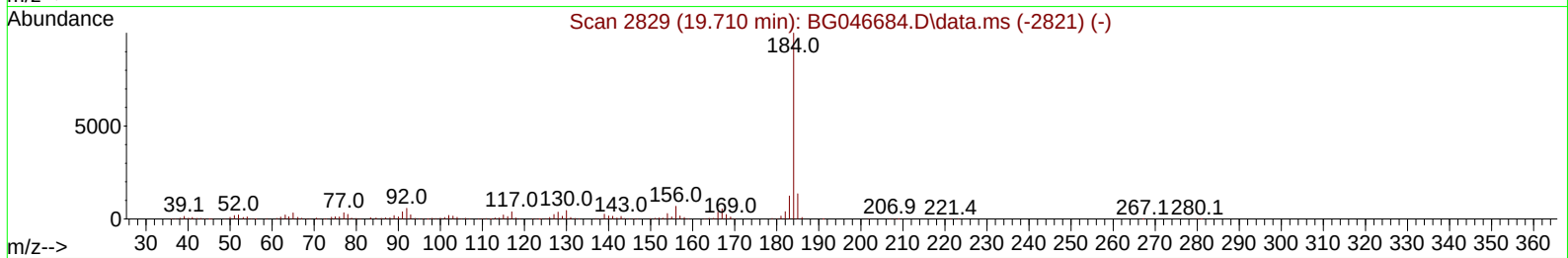
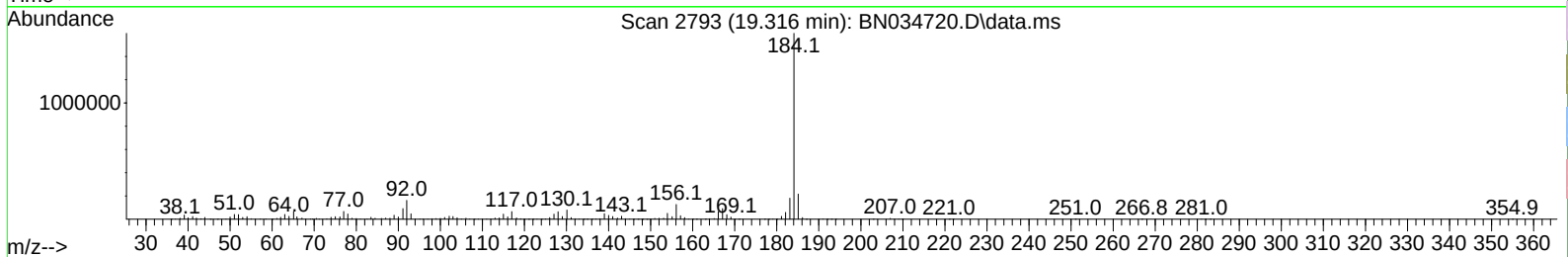
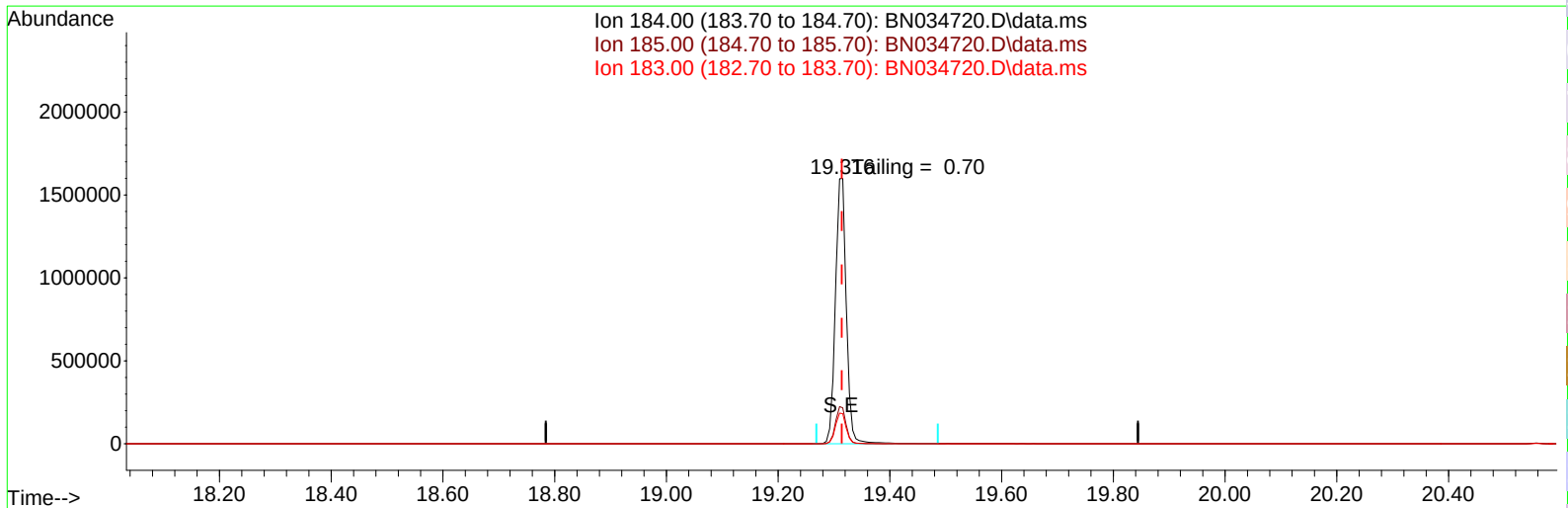
response 249213

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.29
264.00	61.60	65.12
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034720.D
Acq On : 25 Oct 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 25 14:47:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 02:24:36 2024
Response via : Initial Calibration



TIC: BN034720.D\data.ms

(77) Benzidine

19.316min (+ 0.002) 0.00 ng

response 2170006

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.53
183.00	13.20	11.36
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

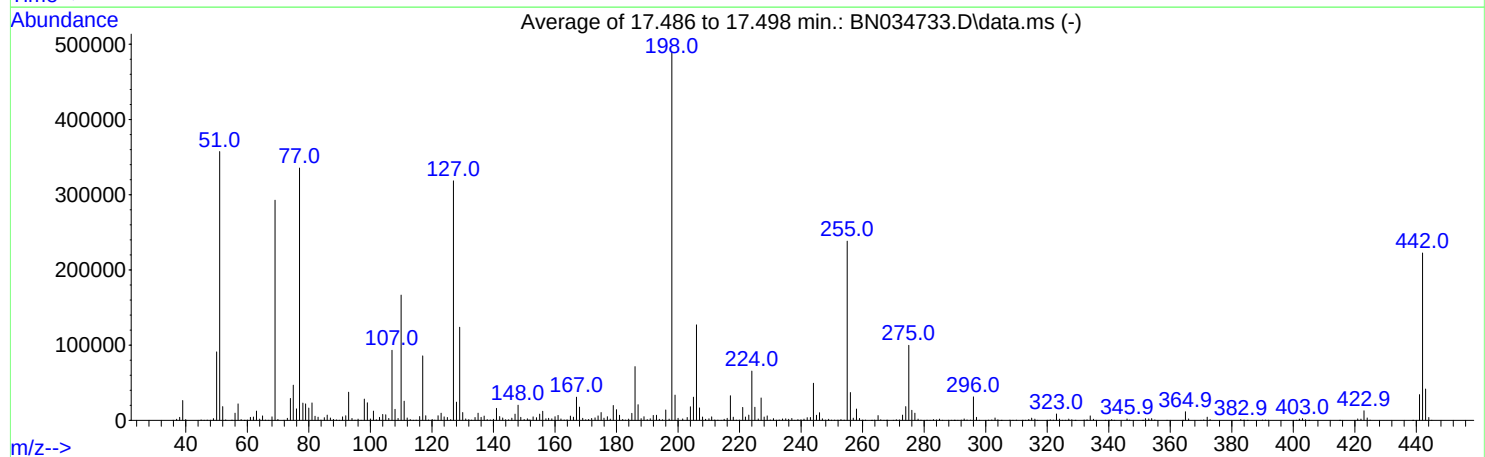
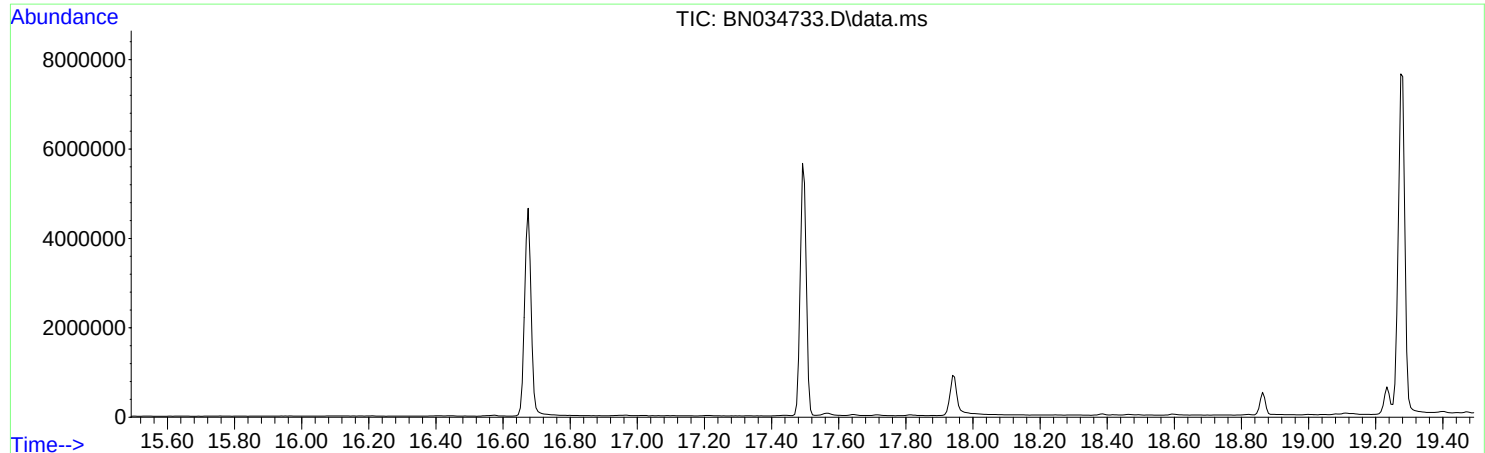
Date	Instrument Name	DFTPP Data File
10/25/2024	BNA_N	<u>BN034720.D</u>
Compound Name	Response	Retention Time
DDT	888185	20.557
DDD	14092	20.169
DDE	315	19.61
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
14407	902592	1.60

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034733.D
Acq On : 26 Oct 2024 09:37
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-BN102424.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 28 00:44:15 2024



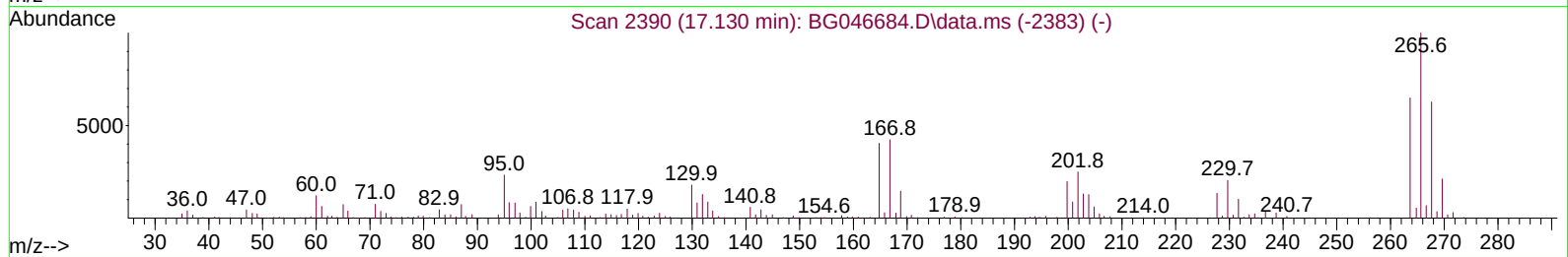
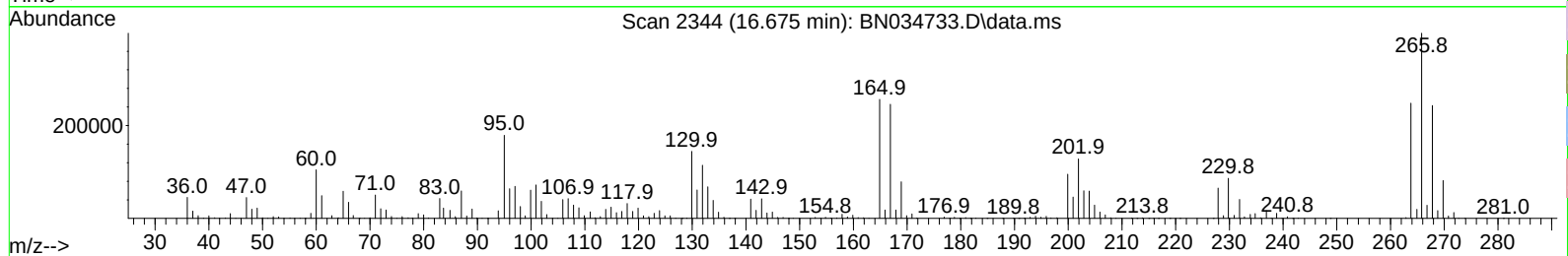
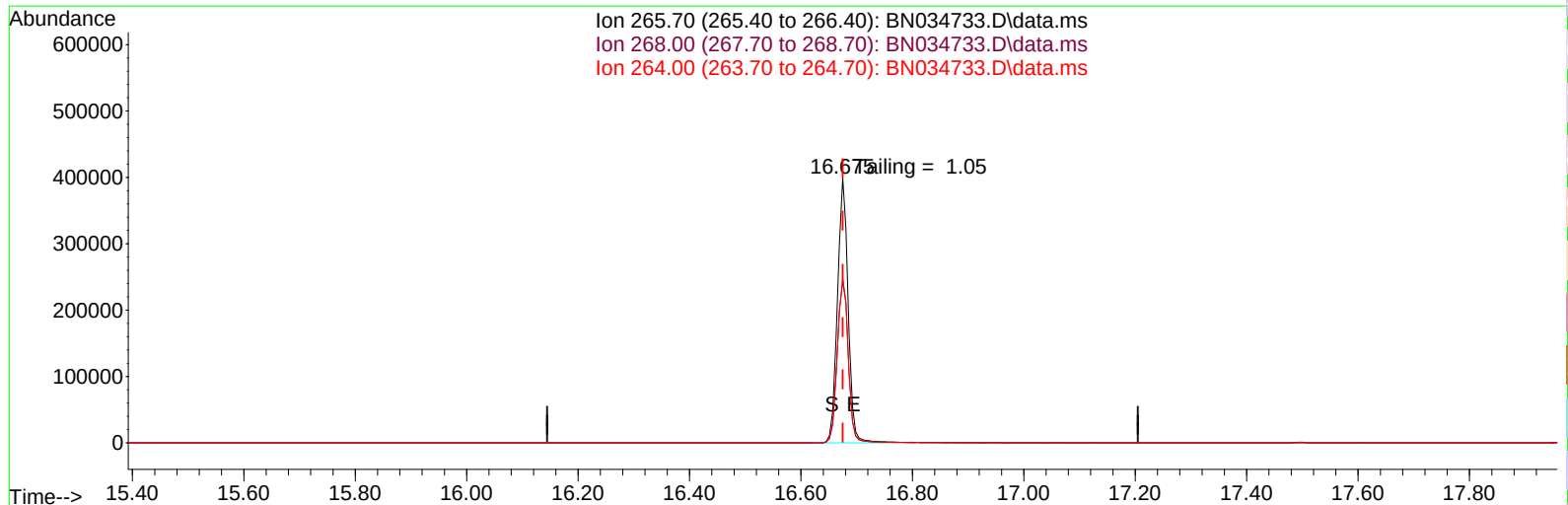
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	73.1	357461	PASS
68	69	0.00	2	1.6	4669	PASS
69	198	0.00	100	59.9	292804	PASS
70	69	0.00	2	0.4	1190	PASS
127	198	10	80	65.1	318485	PASS
197	198	0.00	2	0.4	1781	PASS
198	198	100	100	100.0	489045	PASS
199	198	5	9	6.9	33523	PASS
275	198	10	60	20.4	99795	PASS
365	198	1	100	2.4	11574	PASS
441	198	0.01	100	7.0	34328	PASS
442	442	50	100	100.0	222520	PASS
443	442	15	24	18.8	41749	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034733.D
Acq On : 26 Oct 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 28 00:37:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:36:54 2024
Response via : Initial Calibration



TIC: BN034733.D\data.ms

(70) Pentachlorophenol (C)

16.675min (0.000) 21413.45 ng

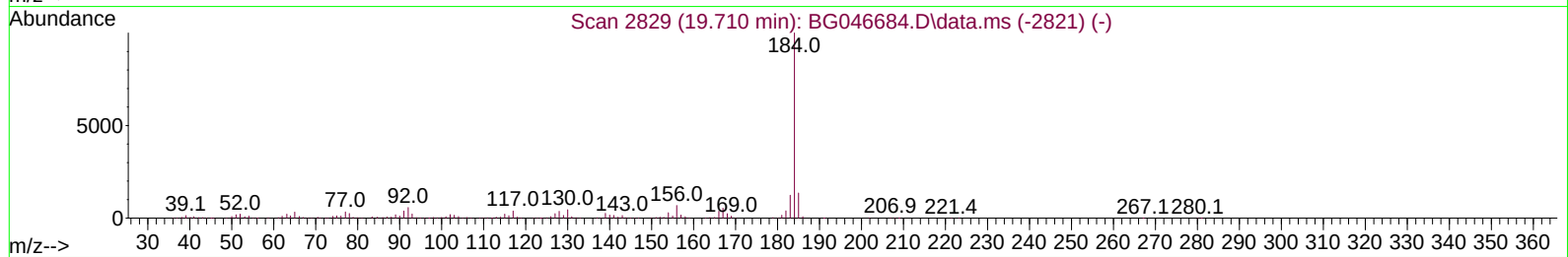
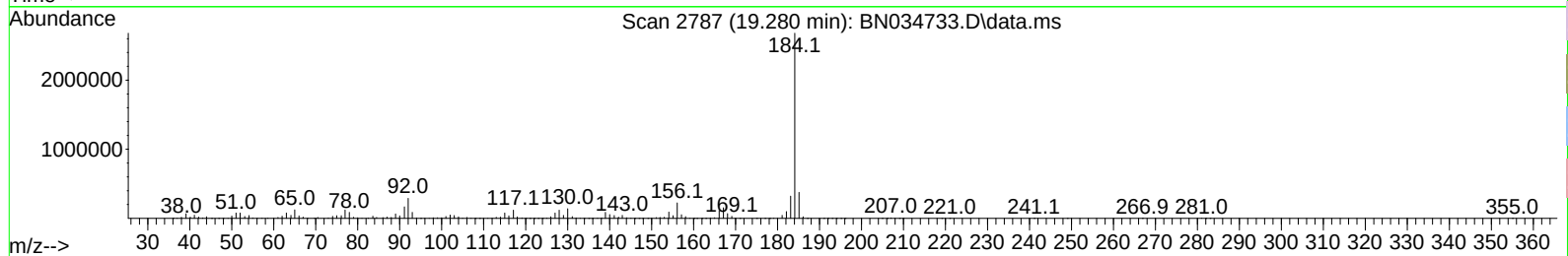
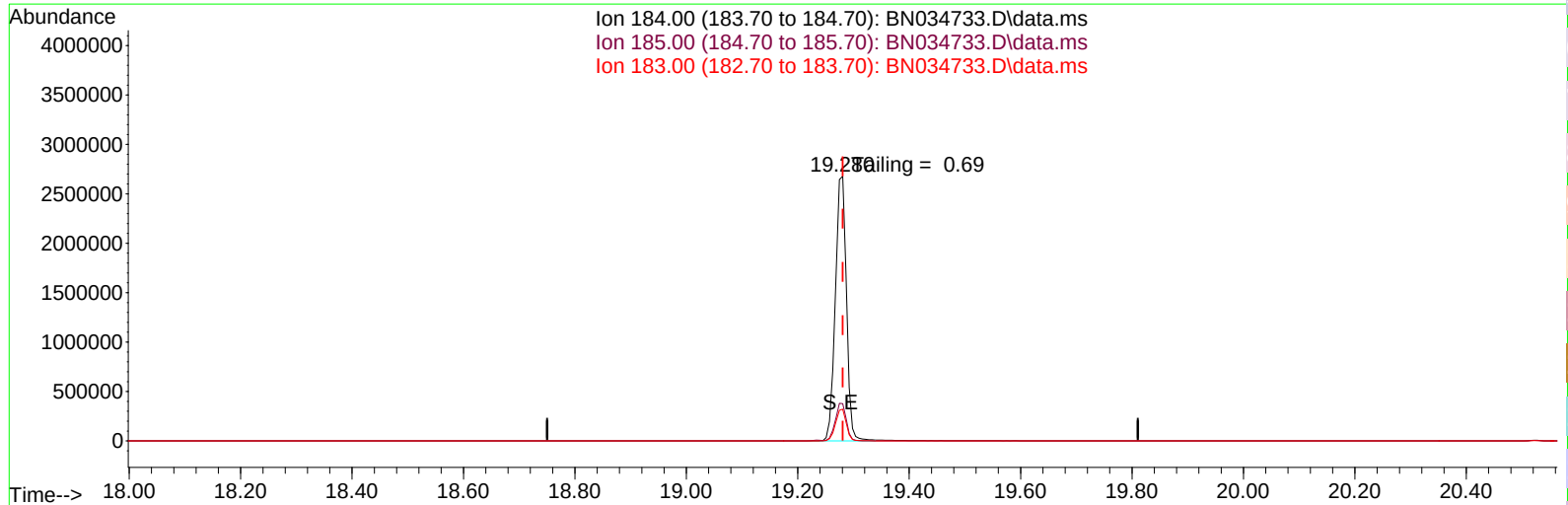
response 535399

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.98
264.00	61.60	62.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034733.D
Acq On : 26 Oct 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 28 00:37:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:36:54 2024
Response via : Initial Calibration



TIC: BN034733.D\data.ms

(77) Benzidine

19.280min (0.000) 0.00 ng

response 3728042

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.08
183.00	13.20	12.02
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/25/2024	BNA_N	<u>BN034733.D</u>
Compound Name	Response	Retention Time
DDT	1627373	20.527
DDD	33067	20.08
DDE	1197	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
34264	1661637	2.06

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164409BL	SDG No.:	P4550
Lab Sample ID:	PB164409BL	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
BN034735.D	1	10/25/24 10:45	10/26/24 10:52	PB164409

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		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8700	7.647				
1146-65-2	Naphthalene-d8	24400	10.415				
15067-26-2	Acenaphthene-d10	10600	14.272				
1517-22-2	Phenanthrene-d10	19000	17.026				
1719-03-5	Chrysene-d12	9690	21.212				
1520-96-3	Perylene-d12	9060	23.412				

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\BN102524\
Data File : BN034735.D
Acq On : 26 Oct 2024 10:52
Operator : RC/JU
Sample : PB164409BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164409BL

Quant Time: Oct 28 00:53:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.647	152	8695	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	24402	0.400	ng	0.00
13) Acenaphthene-d10	14.272	164	10618	0.400	ng	0.00
19) Phenanthrene-d10	17.026	188	19019	0.400	ng	0.01
29) Chrysene-d12	21.212	240	9693	0.400	ng	0.00
35) Perylene-d12	23.412	264	9063	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	8725	0.337	ng	0.00
5) Phenol-d6	6.824	99	11486	0.337	ng	0.00
8) Nitrobenzene-d5	8.782	82	7548	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	12.015	152	11537	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.773	330	812	0.247	ng	0.00
15) 2-Fluorobiphenyl	12.904	172	16422	0.389	ng	0.00
27) Fluoranthene-d10	19.055	212	14612	0.341	ng	0.00
31) Terphenyl-d14	19.663	244	9175	0.463	ng	0.00

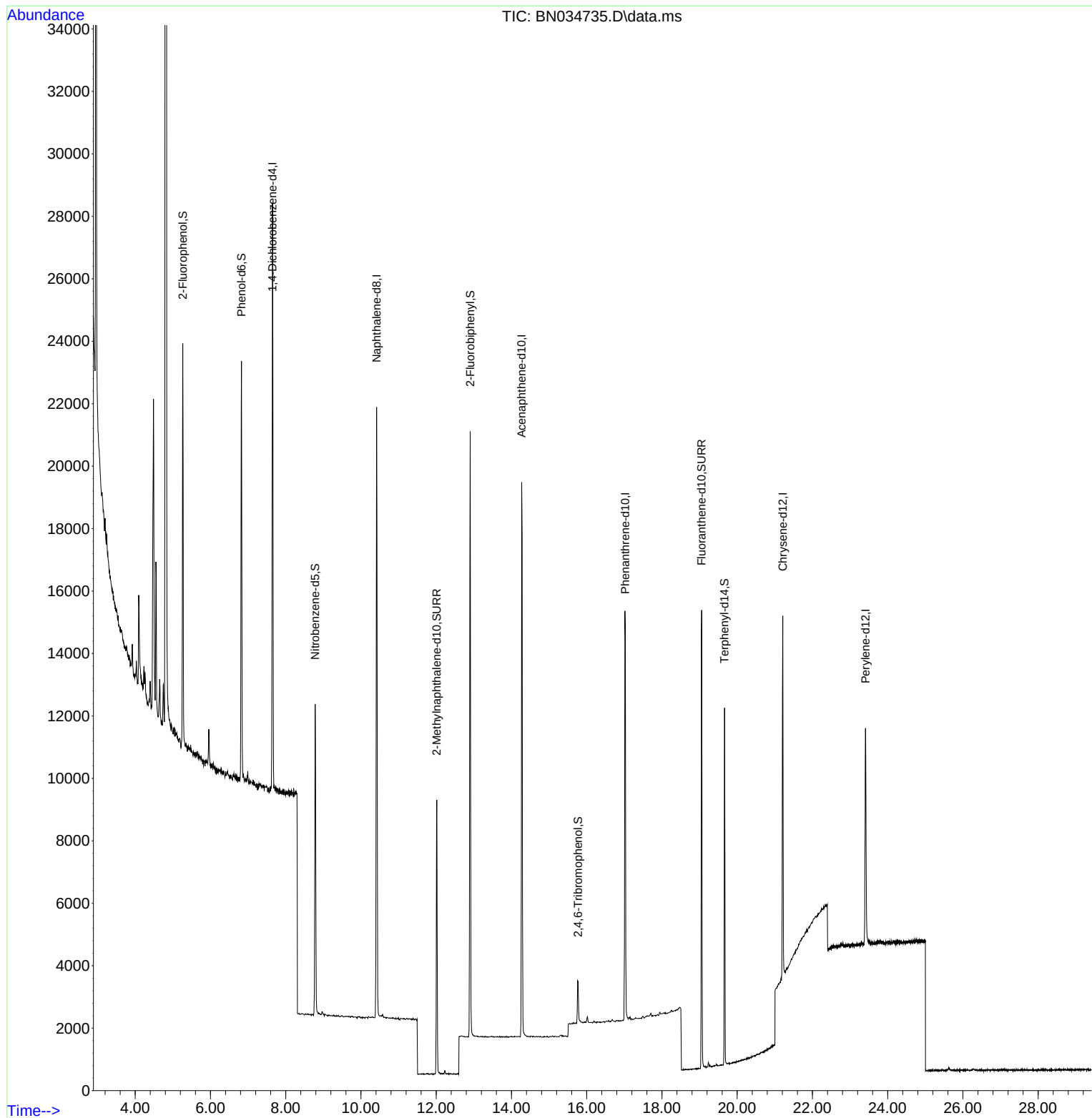
Target Compounds	Qvalue

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

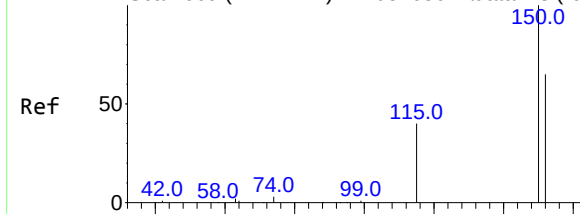
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034735.D
Acq On : 26 Oct 2024 10:52
Operator : RC/JU
Sample : PB164409BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164409BL

Quant Time: Oct 28 00:53:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration



Abundance Scan 669 (7.712 min): BN034686.D\data.ms (-66



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.647 min Scan# 60

Delta R.T. 0.000 min

Lab File: BN034735.D

Acq: 26 Oct 2024 10:52

Instrument :

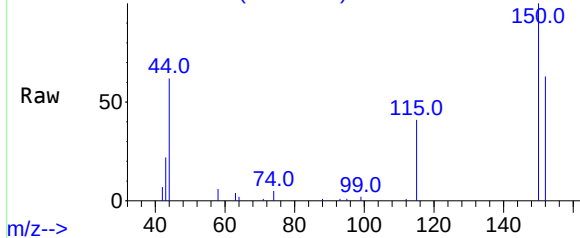
BNA_N

ClientSampleId :

PB164409BL

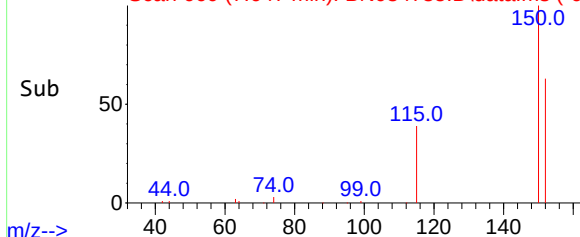
m/z-->

Abundance Scan 660 (7.647 min): BN034735.D\data.ms (-63



m/z-->

Abundance Scan 660 (7.647 min): BN034735.D\data.ms (-63



m/z-->

Tgt Ion:152 Resp: 8695

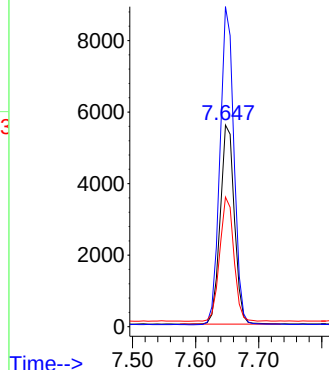
Ion Ratio Lower Upper

152 100

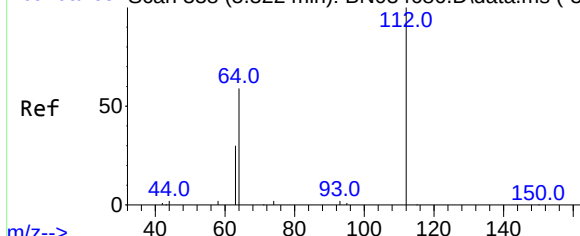
150 158.7 122.7 184.1

115 64.3 51.0 76.6

Abundance

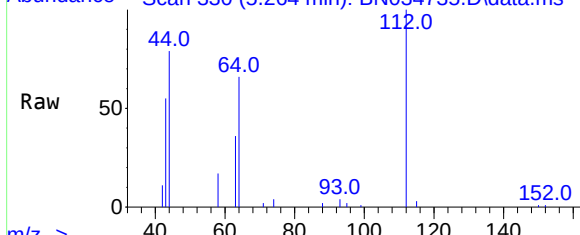


Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33



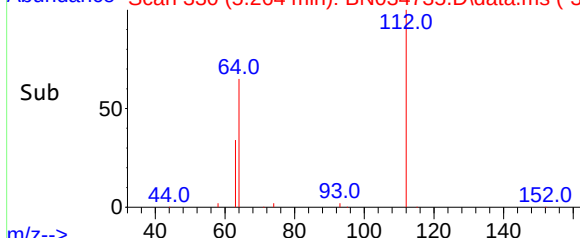
m/z-->

Abundance Scan 330 (5.264 min): BN034735.D\data.ms (-30



m/z-->

Abundance Scan 330 (5.264 min): BN034735.D\data.ms (-30



m/z-->

#4

2-Fluorophenol

Concen: 0.337 ng

RT: 5.264 min Scan# 330

Delta R.T. 0.000 min

Lab File: BN034735.D

Acq: 26 Oct 2024 10:52

Tgt Ion:112 Resp: 8725

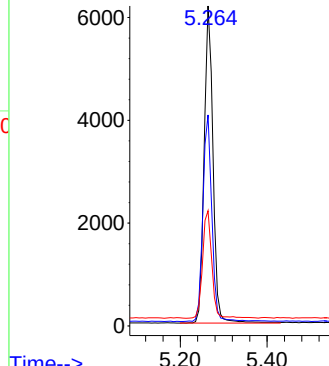
Ion Ratio Lower Upper

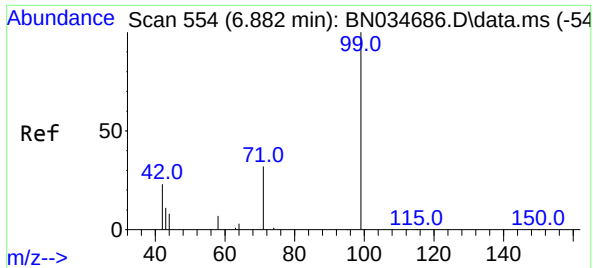
112 100

64 65.9 53.0 79.6

63 35.6 27.6 41.4

Abundance

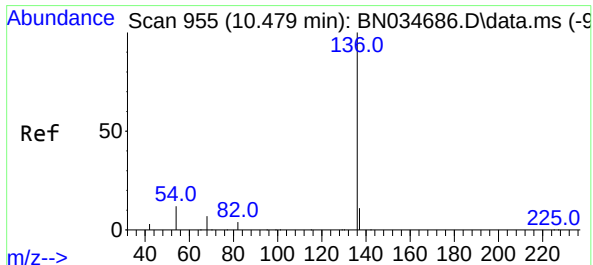
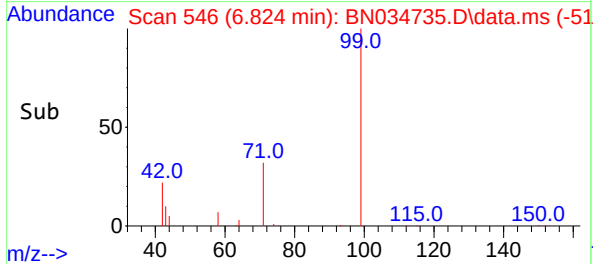
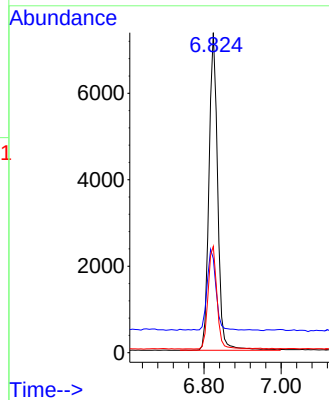
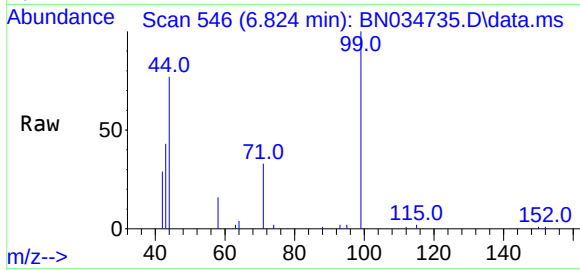




#5
Phenol-d6
Concen: 0.337 ng
RT: 6.824 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

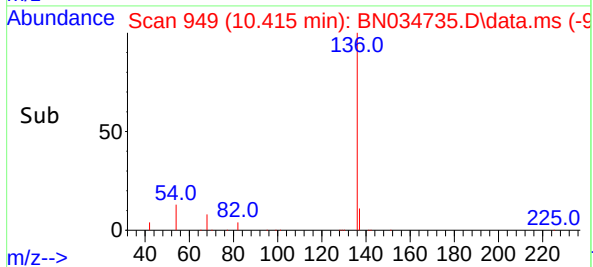
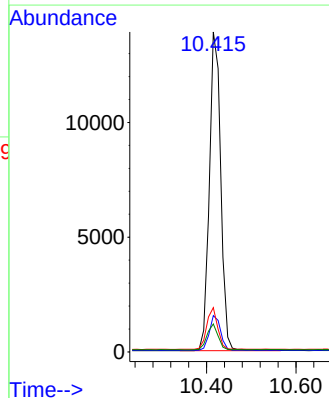
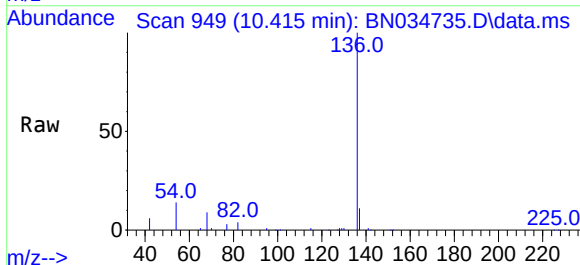
Instrument :
BNA_N
ClientSampleId :
PB164409BL

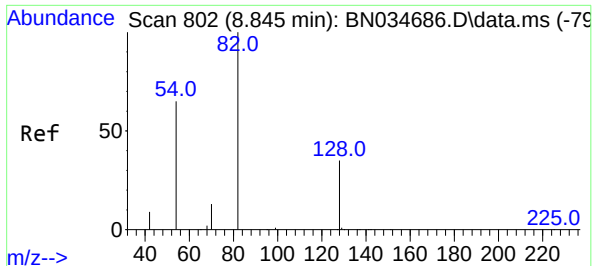
Tgt Ion: 99 Resp: 11486
Ion Ratio Lower Upper
99 100
42 25.4 21.8 32.8
71 32.7 26.6 40.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion: 136 Resp: 24402
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 13.8 9.8 14.8
68 8.8 6.4 9.6

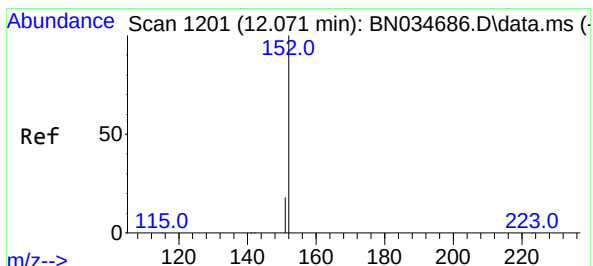
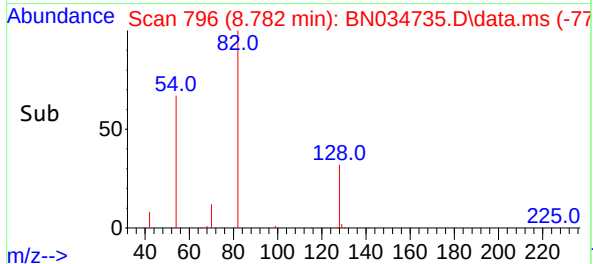
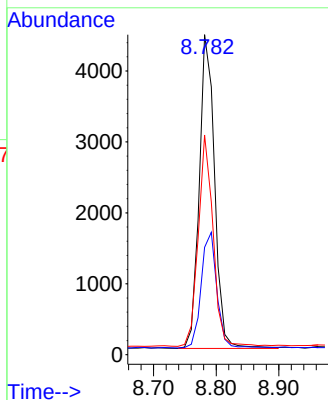
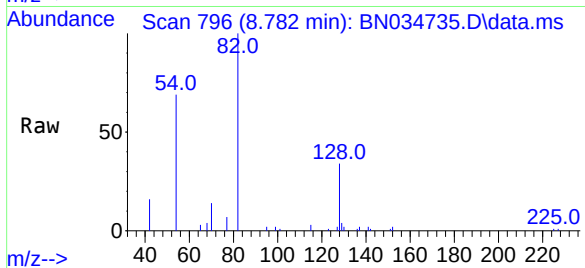




#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.782 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

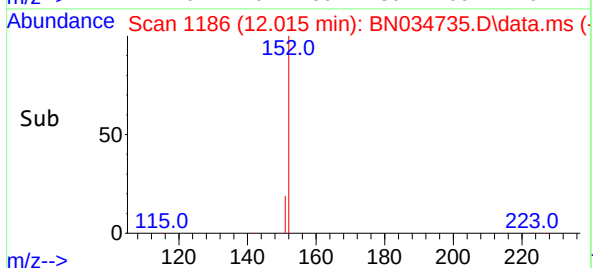
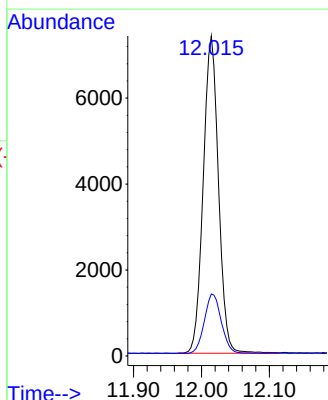
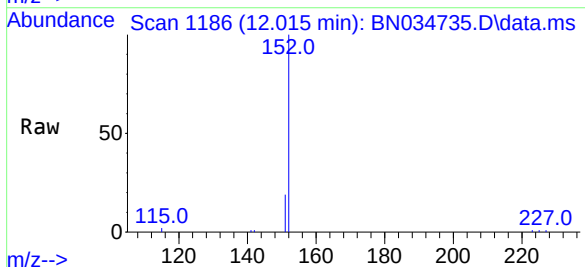
Instrument :
BNA_N
ClientSampleId :
PB164409BL

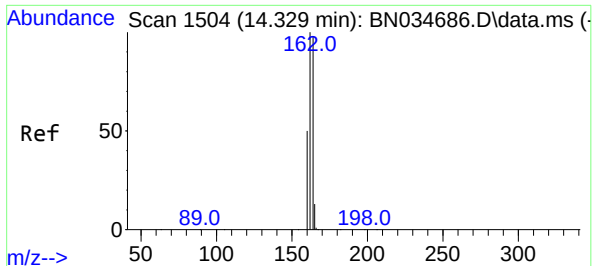
Tgt Ion:	82	Resp:	7548
Ion	Ratio	Lower	Upper
82	100		
128	33.6	29.7	44.5
54	68.7	53.0	79.6



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 12.015 min Scan# 1186
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion:	152	Resp:	11537
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

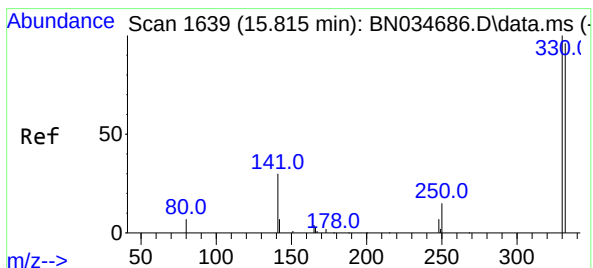
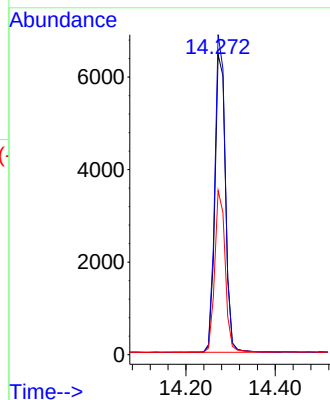




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.272 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

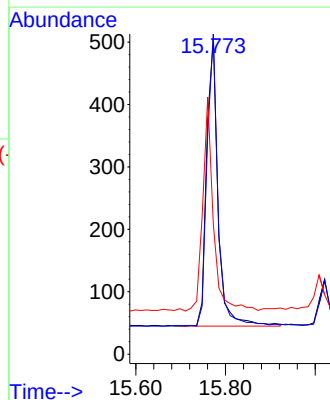
Instrument :
BNA_N
ClientSampleId :
PB164409BL

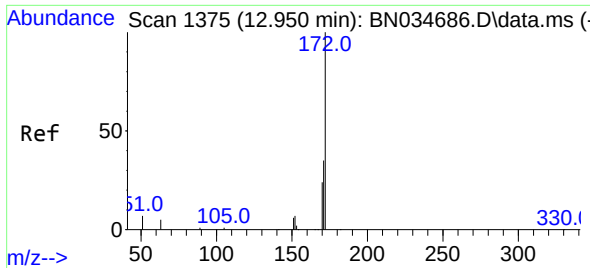
Tgt Ion:164 Resp: 10618
Ion Ratio Lower Upper
164 100
162 106.6 81.4 122.0
160 54.7 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.247 ng
RT: 15.773 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion:330 Resp: 812
Ion Ratio Lower Upper
330 100
332 96.9 76.6 115.0
141 68.0 54.6 81.8

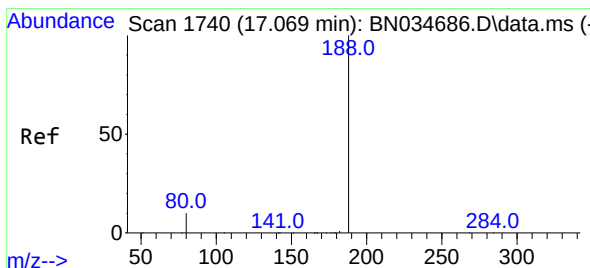
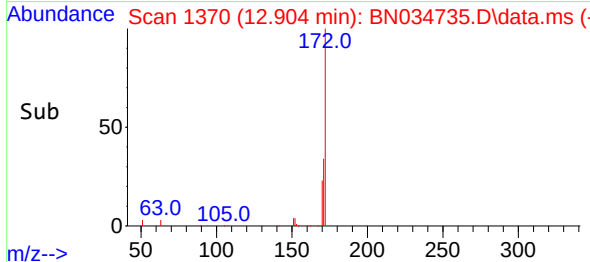
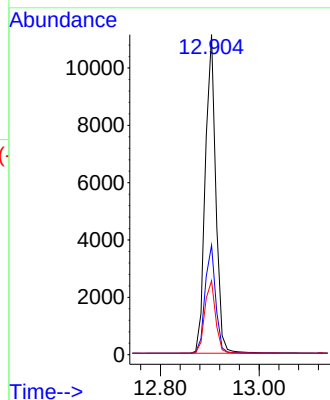
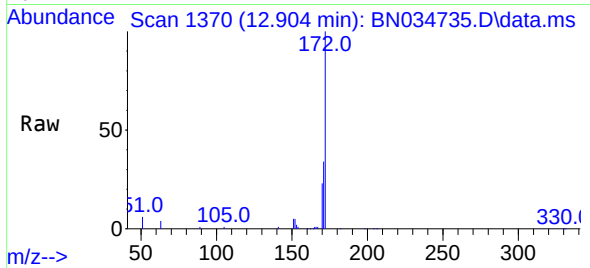




#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

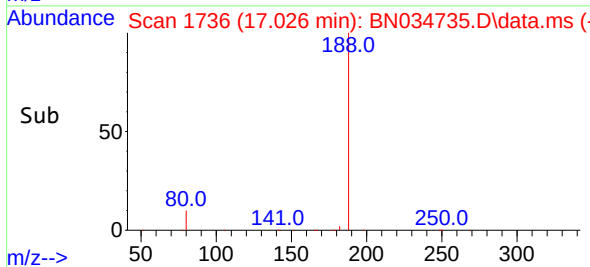
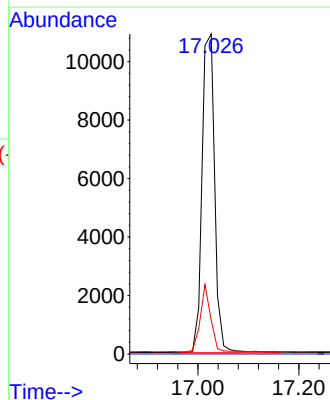
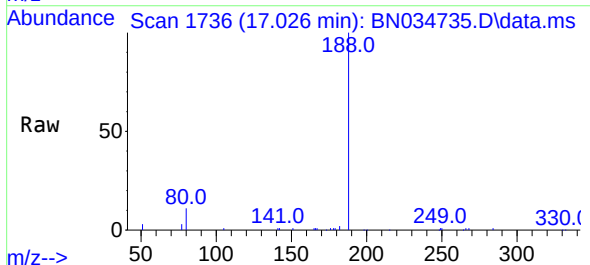
Instrument :
BNA_N
ClientSampleId :
PB164409BL

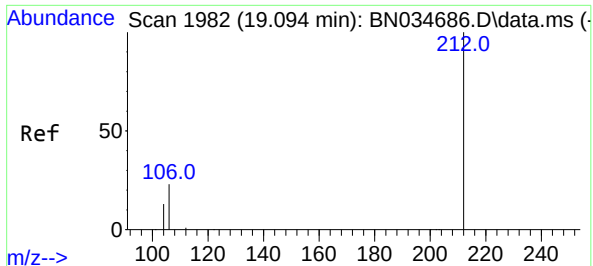
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.3	42.5
170	23.1	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.013 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.9	13.3

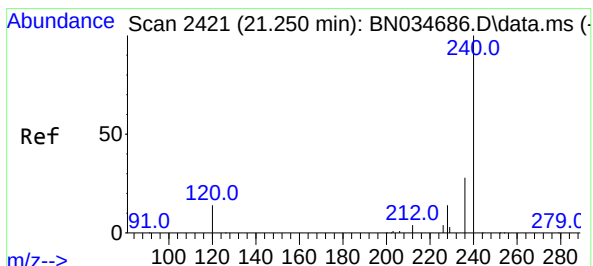
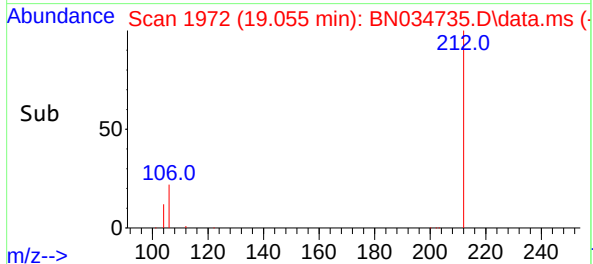
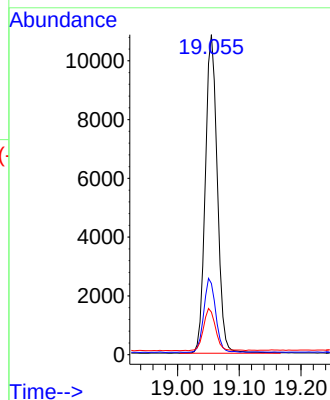
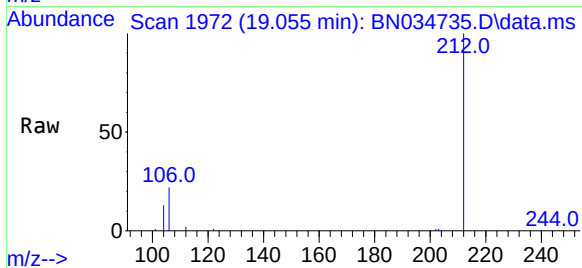




#27
Fluoranthene-d10
Concen: 0.341 ng
RT: 19.055 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

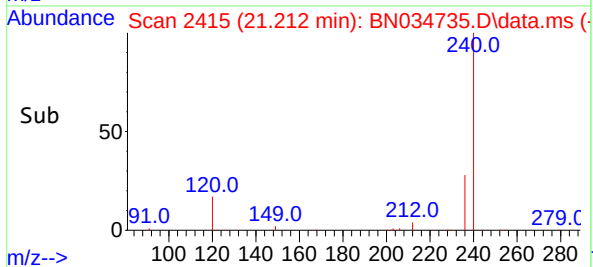
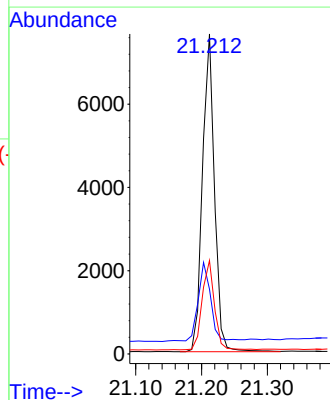
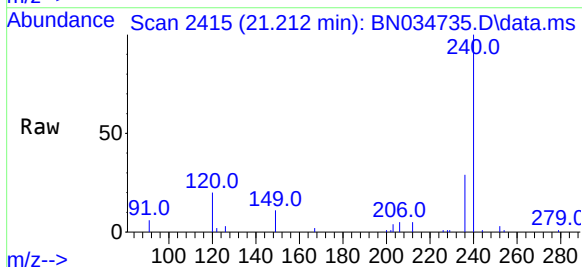
Instrument :
BNA_N
ClientSampleId :
PB164409BL

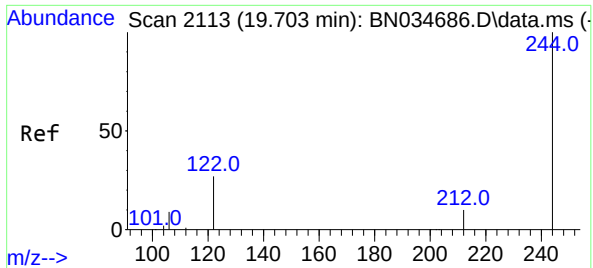
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.0	17.8	26.8
104	13.2	10.2	15.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.3	14.2	21.2
236	29.2	23.1	34.7

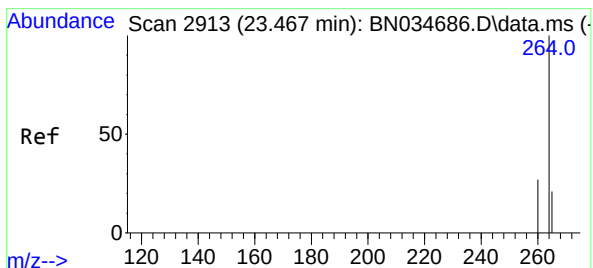
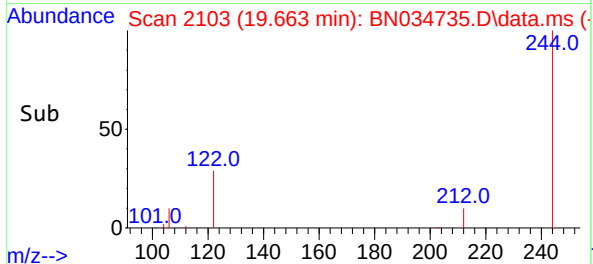
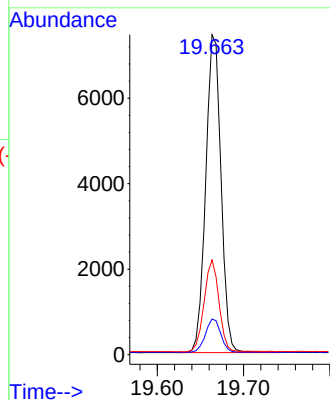
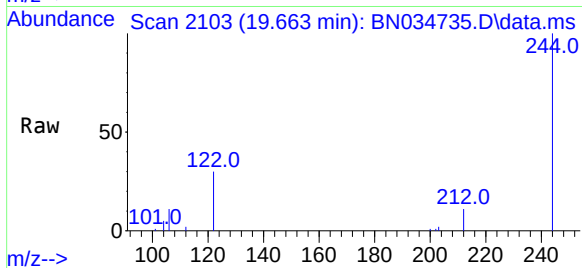




#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.663 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

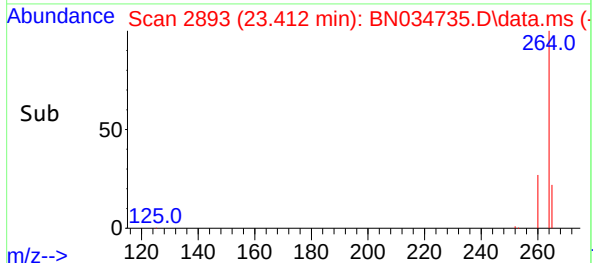
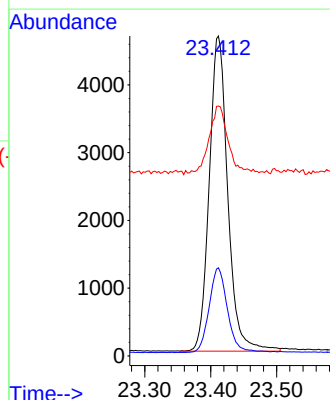
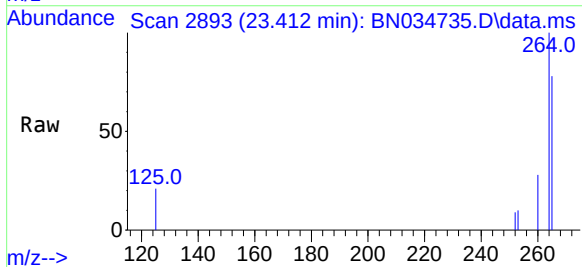
Instrument :
BNA_N
ClientSampleId :
PB164409BL

Tgt Ion:244	Resp:	9175
Ion Ratio	Lower	Upper
244	100	
212	11.2	8.6 13.0
122	29.6	22.3 33.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 2893
Delta R.T. 0.006 min
Lab File: BN034735.D
Acq: 26 Oct 2024 10:52

Tgt Ion:264	Resp:	9063
Ion Ratio	Lower	Upper
264	100	
260	27.5	21.9 32.9
265	78.1	60.6 91.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164409BS	SDG No.:	P4550
Lab Sample ID:	PB164409BS	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
BN034727.D	1	10/25/24 10:45	10/25/24 17:40	PB164409

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	0.47		30 - 150		118%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8770	7.654				
1146-65-2	Naphthalene-d8	24600	10.426				
15067-26-2	Acenaphthene-d10	11400	14.283				
1517-22-2	Phenanthrene-d10	20800	17.026				
1719-03-5	Chrysene-d12	11200	21.212				
1520-96-3	Perylene-d12	11000	23.415				

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\BN102524\
 Data File : BN034727.D
 Acq On : 25 Oct 2024 17:40
 Operator : RC/JU
 Sample : PB164409BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB164409BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024

Quant Time: Oct 25 18:09:14 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 24 13:17:02 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8770	0.400	ng	-0.06
7) Naphthalene-d8	10.426	136	24617	0.400	ng	#-0.05
13) Acenaphthene-d10	14.283	164	11438	0.400	ng	-0.05
19) Phenanthrene-d10	17.026	188	20789	0.400	ng	-0.04
29) Chrysene-d12	21.212	240	11212	0.400	ng	#-0.04
35) Perylene-d12	23.415	264	10991	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	9491	0.364	ng	-0.06
5) Phenol-d6	6.824	99	12381	0.360	ng	-0.06
8) Nitrobenzene-d5	8.781	82	8000	0.387	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	15955m	0.471	ng	-0.06
14) 2,4,6-Tribromophenol	15.773	330	1427	0.403	ng	-0.04
15) 2-Fluorobiphenyl	12.904	172	17305	0.381	ng	-0.05
27) Fluoranthene-d10	19.055	212	16513	0.353	ng	-0.04
31) Terphenyl-d14	19.668	244	10894	0.475	ng	-0.03
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.242	88	3291	0.282	ng	# 41
3) n-Nitrosodimethylamine	3.531	42	5980	0.352	ng	# 94
6) bis(2-Chloroethyl)ether	7.084	93	10317	0.369	ng	99
9) Naphthalene	10.468	128	24917	0.366	ng	100
10) Hexachlorobutadiene	10.767	225	3622	0.355	ng	# 99
12) 2-Methylnaphthalene	12.090	142	15296	0.362	ng	99
16) Acenaphthylene	13.994	152	20483	0.373	ng	100
17) Acenaphthene	14.336	154	13491	0.356	ng	98
18) Fluorene	15.330	166	15881	0.340	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	938	0.324	ng	# 83
21) 4-Bromophenyl-phenylether	16.232	248	4254	0.384	ng	97
22) Hexachlorobenzene	16.331	284	4442	0.370	ng	99
23) Atrazine	16.505	200	3620	0.416	ng	99
24) Pentachlorophenol	16.679	266	3356	0.789	ng	99
25) Phenanthrene	17.064	178	23444	0.375	ng	100
26) Anthracene	17.151	178	21418	0.386	ng	100
28) Fluoranthene	19.087	202	22165	0.340	ng	99
30) Pyrene	19.445	202	22644	0.393	ng	100
32) Benzo(a)anthracene	21.194	228	16780	0.392	ng	99
33) Chrysene	21.248	228	17018	0.384	ng	99
34) Bis(2-ethylhexyl)phtha...	21.158	149	12888	0.530	ng	99
36) Indeno(1,2,3-cd)pyrene	25.619	276	17784	0.420	ng	99
37) Benzo(b)fluoranthene	22.757	252	16080	0.366	ng	98
38) Benzo(k)fluoranthene	22.801	252	16158	0.373	ng	99
39) Benzo(a)pyrene	23.318	252	14630	0.415	ng	99
40) Dibenzo(a,h)anthracene	25.634	278	13681	0.410	ng	98
41) Benzo(g,h,i)perylene	26.286	276	14059	0.382	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034727.D
 Acq On : 25 Oct 2024 17:40
 Operator : RC/JU
 Sample : PB164409BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB164409BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024

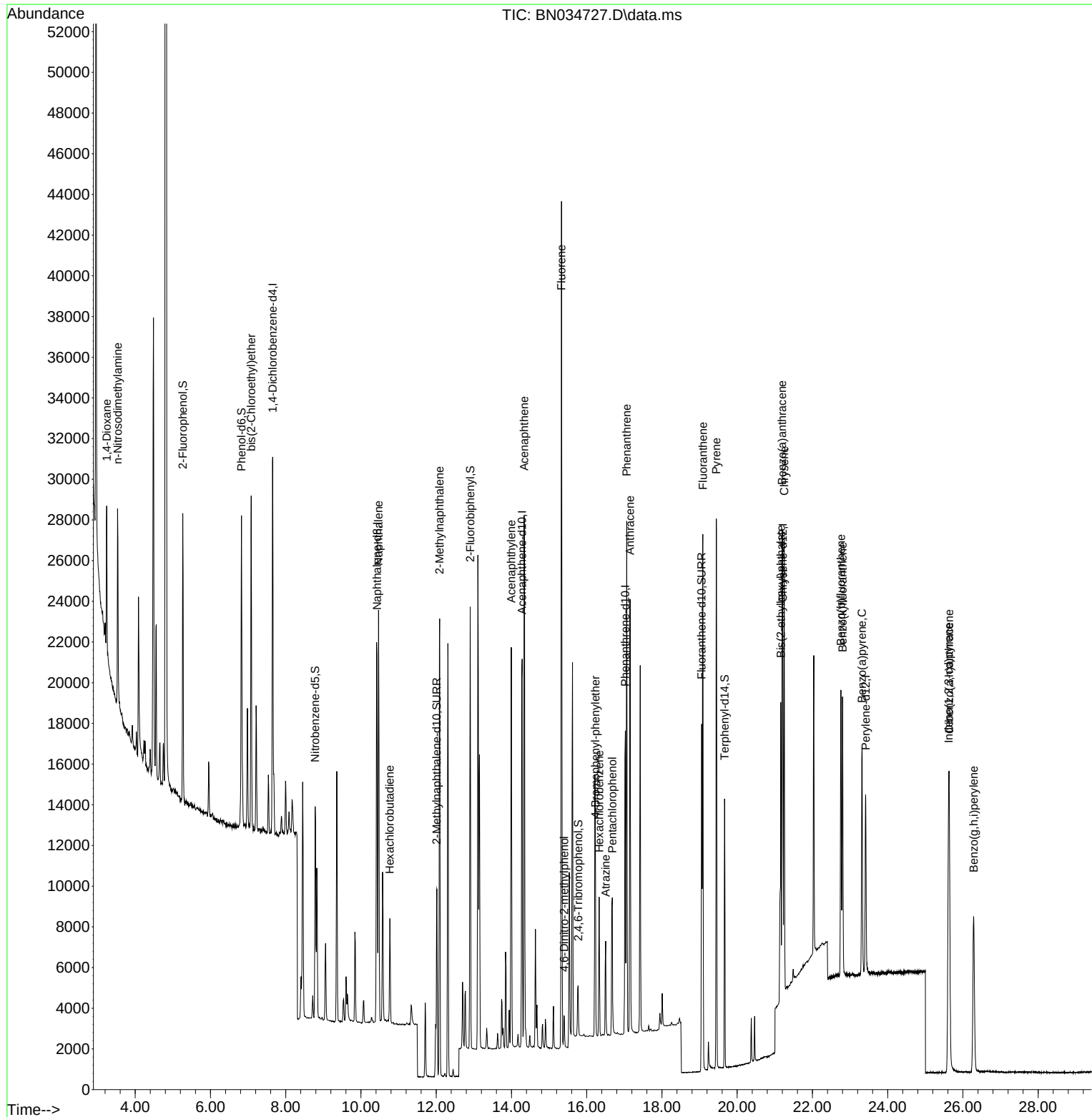
Quant Time: Oct 25 18:09:14 2024

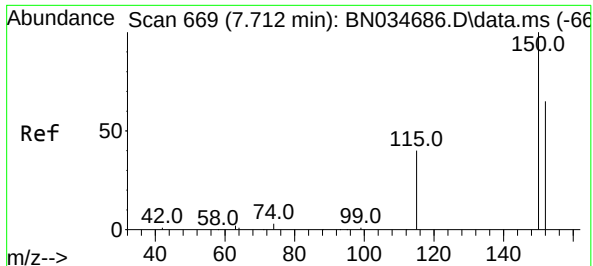
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 24 13:17:02 2024

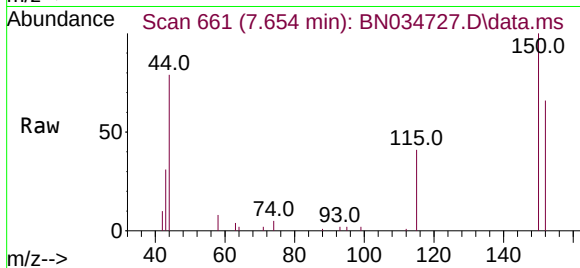
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 60
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

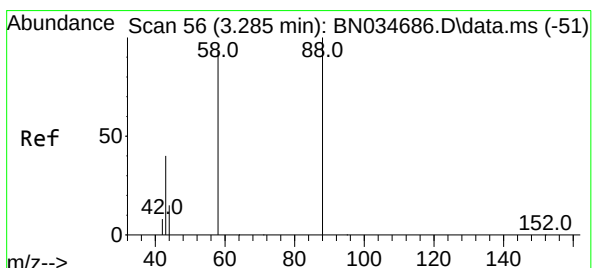
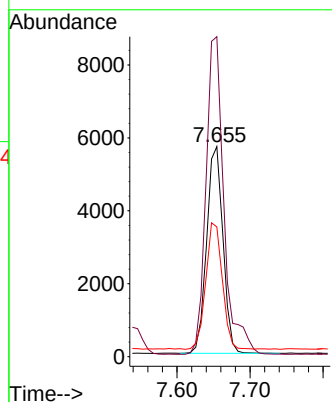
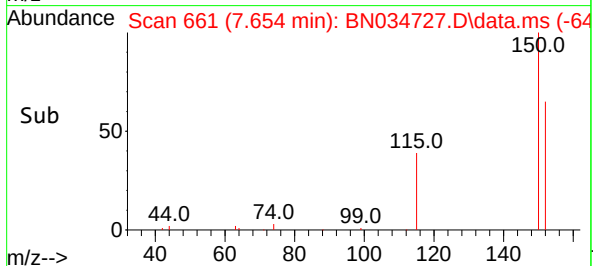
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion: 152 Resp: 8770
Ion Ratio Lower Upper
152 100
150 152.3 122.7 184.1
115 61.8 51.0 76.6

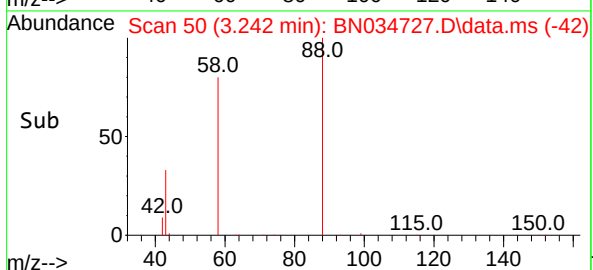
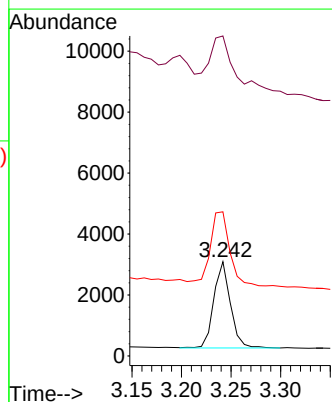
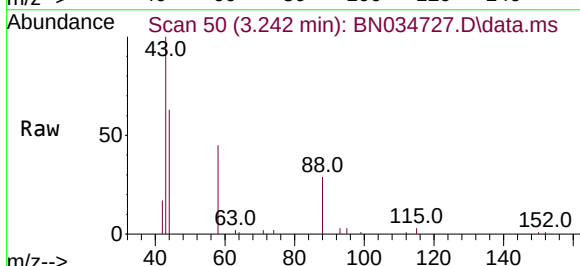
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024

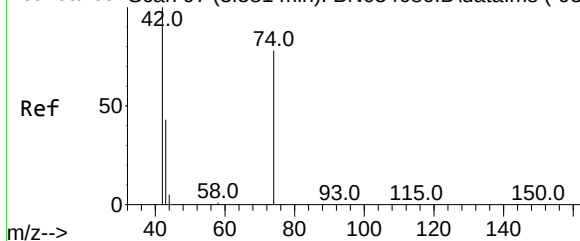


#2
1,4-Dioxane
Concen: 0.282 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

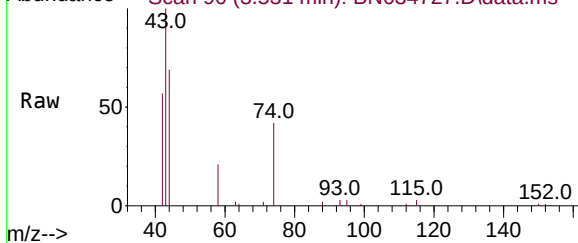
Tgt Ion: 88 Resp: 3291
Ion Ratio Lower Upper
88 100
43 128.2 32.1 48.1#
58 114.0 73.7 110.5#



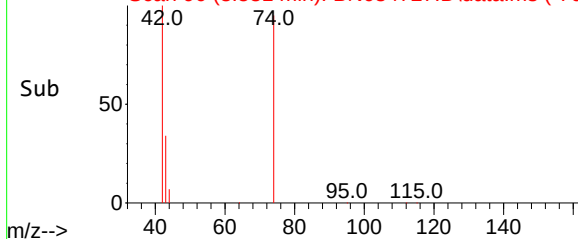
Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



Abundance Scan 90 (3.531 min): BN034727.D\data.ms



Abundance Scan 90 (3.531 min): BN034727.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.352 ng

RT: 3.531 min Scan# 90

Delta R.T. -0.050 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS

Tgt Ion: 42 Resp: 5980

Ion Ratio Lower Upper

42 100

74 101.2 77.2 115.8

44 11.0 13.4 20.2

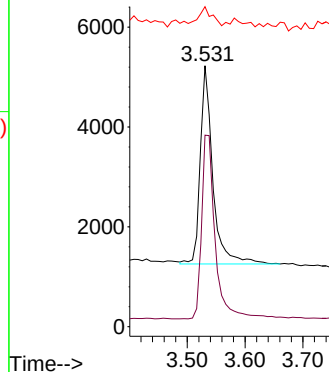
Manual Integrations

APPROVED

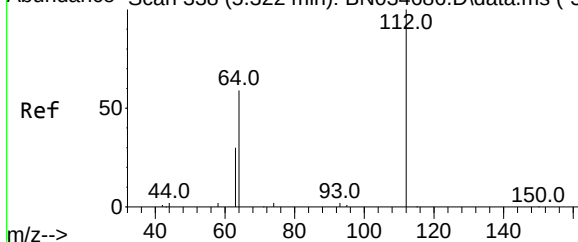
Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024

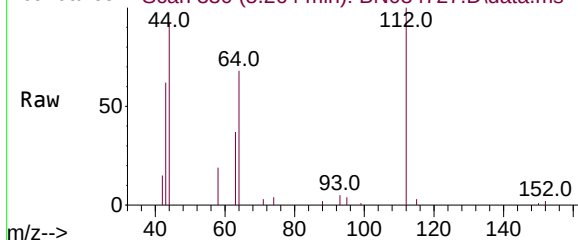
Abundance



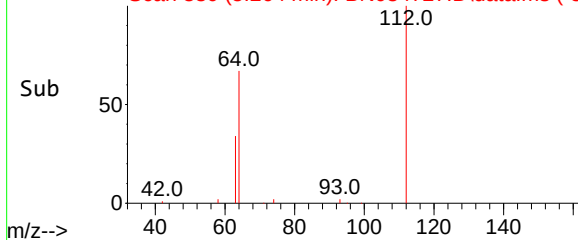
Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



Abundance Scan 330 (5.264 min): BN034727.D\data.ms



Abundance Scan 330 (5.264 min): BN034727.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.364 ng

RT: 5.264 min Scan# 330

Delta R.T. -0.058 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Tgt Ion:112 Resp: 9491

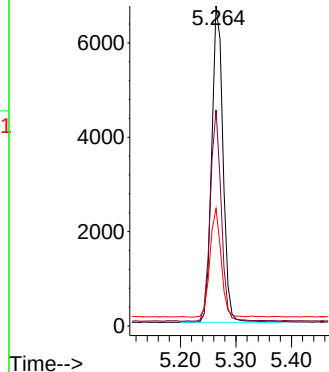
Ion Ratio Lower Upper

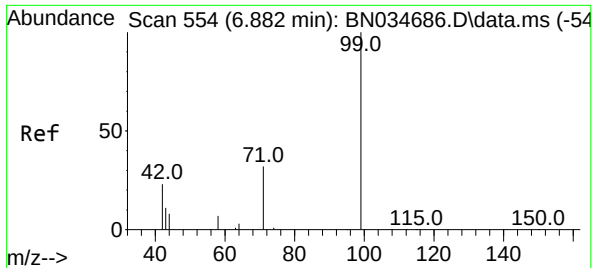
112 100

64 64.8 53.0 79.6

63 33.8 27.6 41.4

Abundance





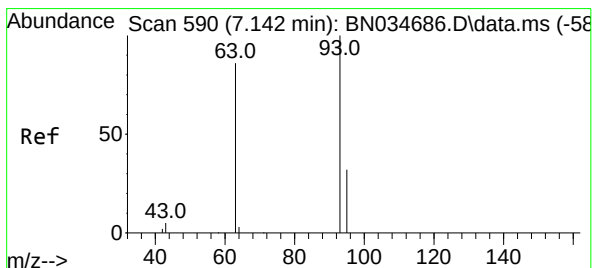
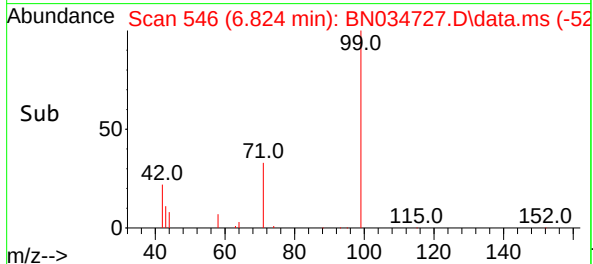
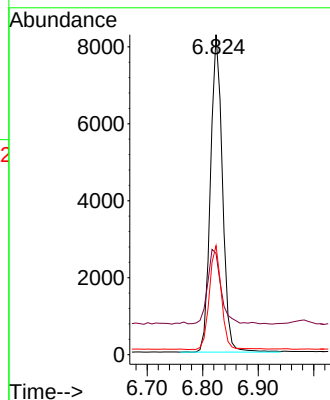
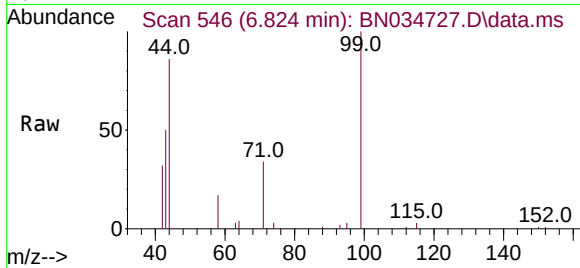
#5
Phenol-d6
Concen: 0.360 ng
RT: 6.824 min Scan# 54
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :
BNA_N
ClientSampleId :
PB164409BS

Tgt Ion: 99 Resp: 1238
Ion Ratio Lower Upper
99 100
42 25.8 21.8 32.8
71 33.0 26.6 40.0

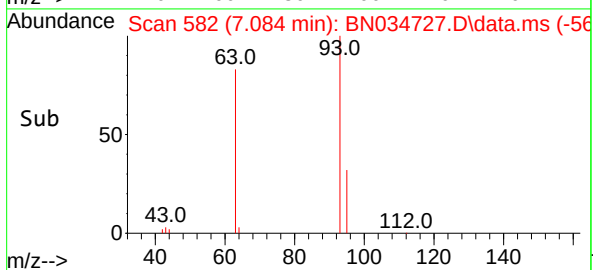
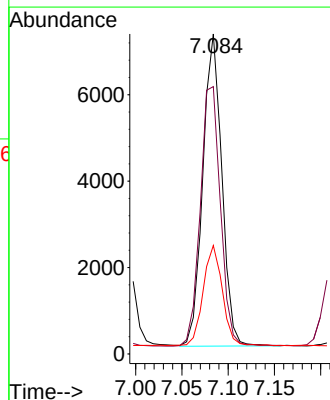
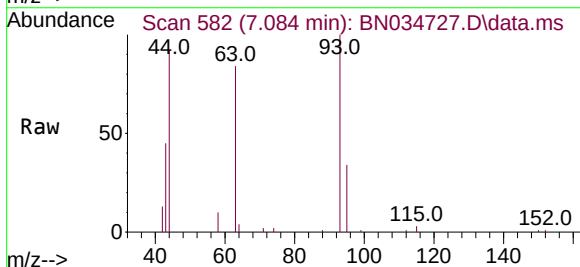
Manual Integrations
APPROVED

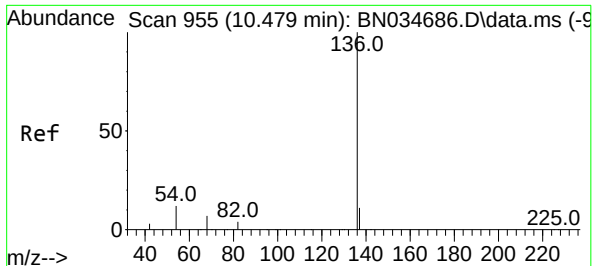
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion: 93 Resp: 10317
Ion Ratio Lower Upper
93 100
63 88.6 71.5 107.3
95 32.3 25.8 38.6





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.053 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

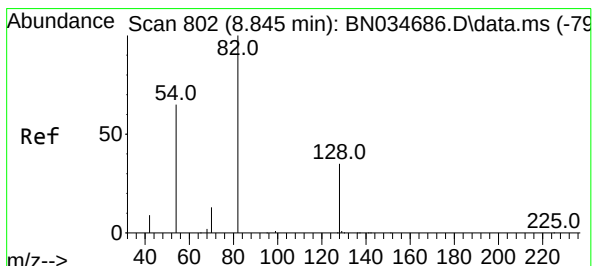
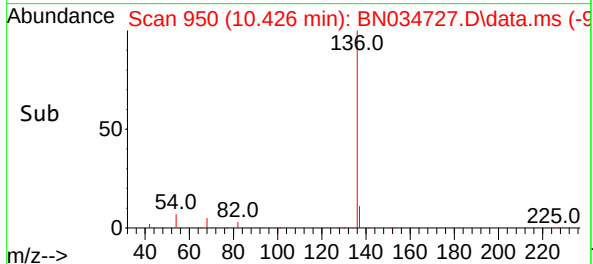
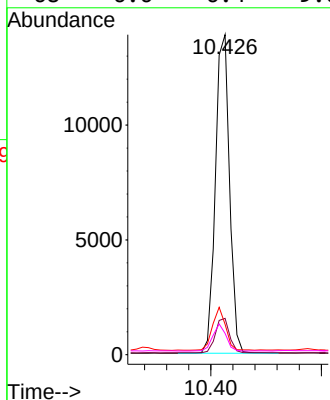
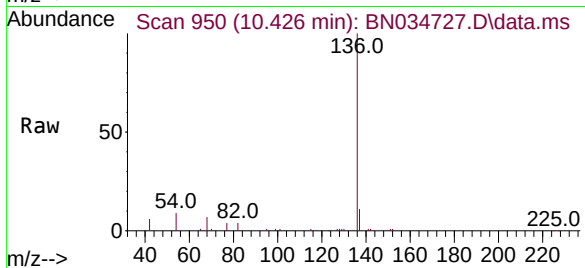
ClientSampleId :

PB164409BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.5	9.8	14.8
68	6.6	6.4	9.6

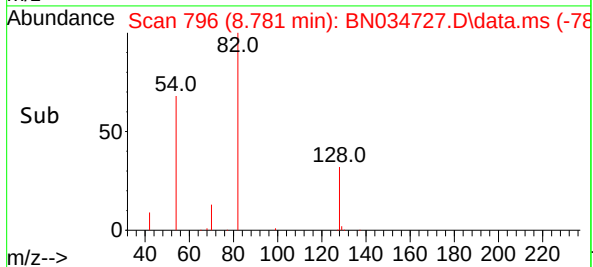
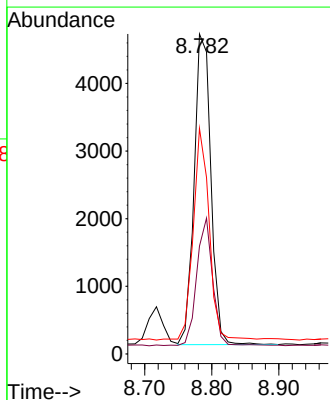
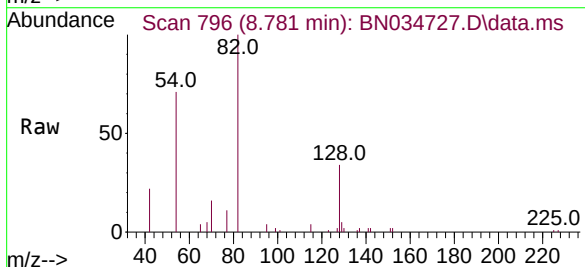
Manual Integrations
APPROVED

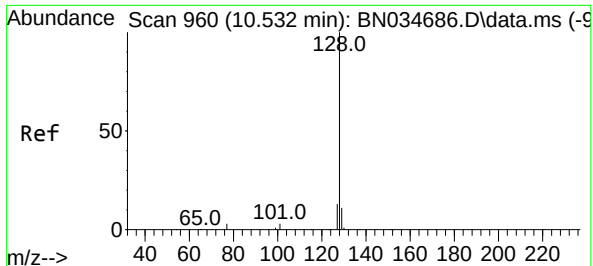
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion	Ratio	Lower	Upper
82	100		
128	33.7	29.7	44.5
54	70.5	53.0	79.6





#9

Naphthalene

Concen: 0.366 ng

RT: 10.468 min Scan# 91

Delta R.T. -0.064 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

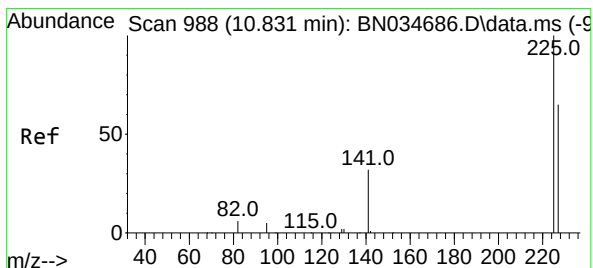
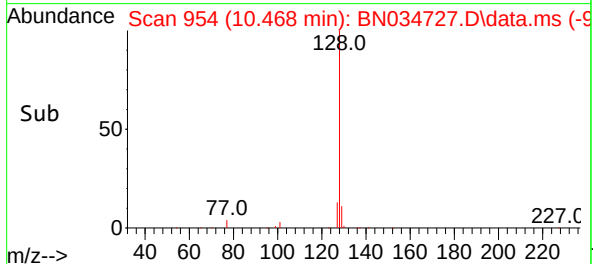
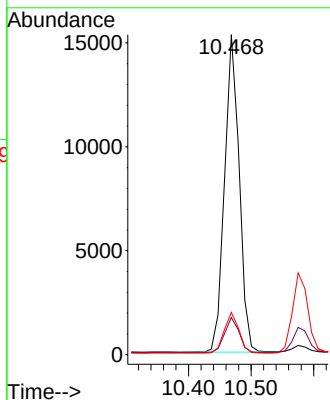
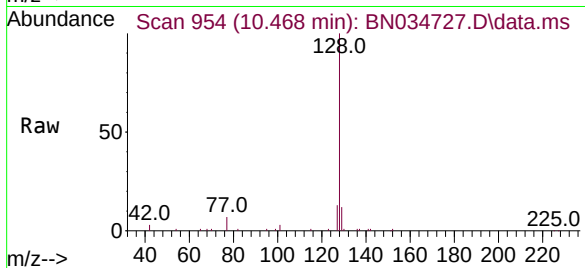
Instrument :

BNA_N

ClientSampleId :

PB164409BS

Tgt Ion:	128	Resp:	2491
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.6
127	13.2	10.5	15.7

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024

#10

Hexachlorobutadiene

Concen: 0.355 ng

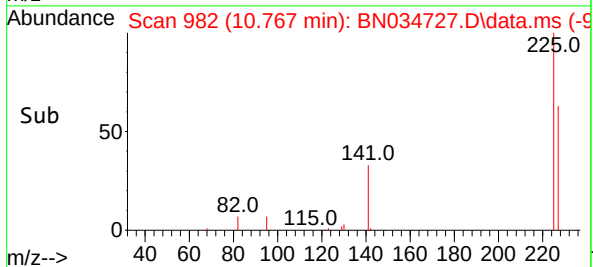
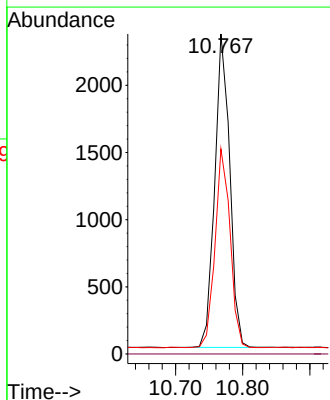
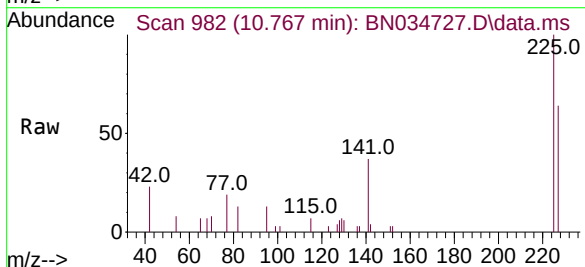
RT: 10.767 min Scan# 982

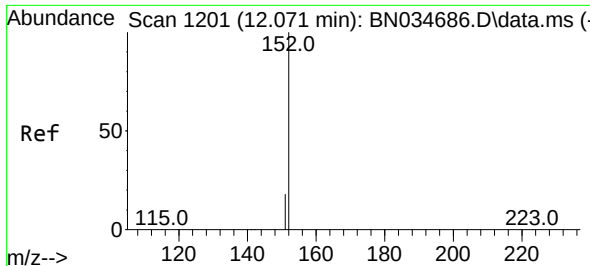
Delta R.T. -0.064 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Tgt Ion:	225	Resp:	3622
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.4	77.0





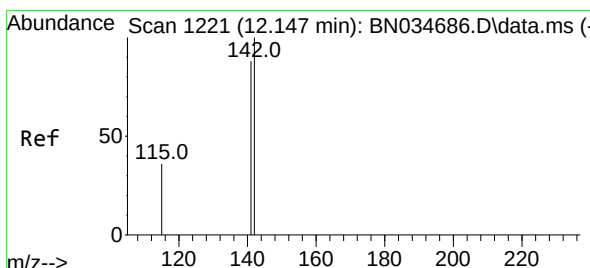
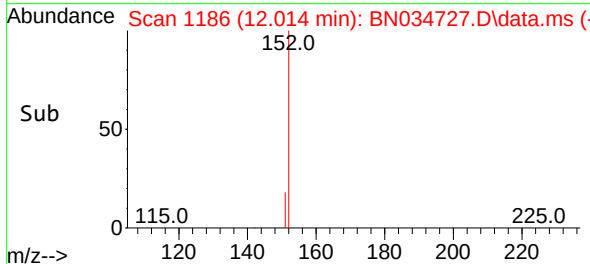
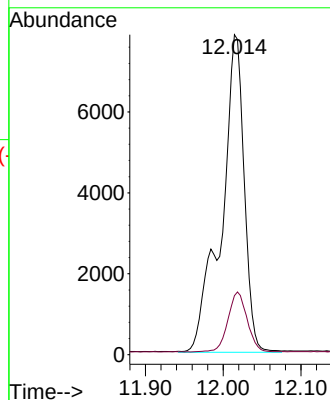
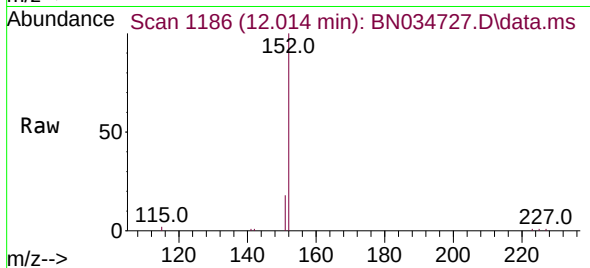
#11
2-Methylnaphthalene-d10
Concen: 0.471 ng m
RT: 12.014 min Scan# 1106
Delta R.T. -0.057 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :
BNA_N
ClientSampleId :
PB164409BS

Tgt Ion:152 Resp: 1595
Ion Ratio Lower Upper
152 100
151 16.0 16.7 25.1

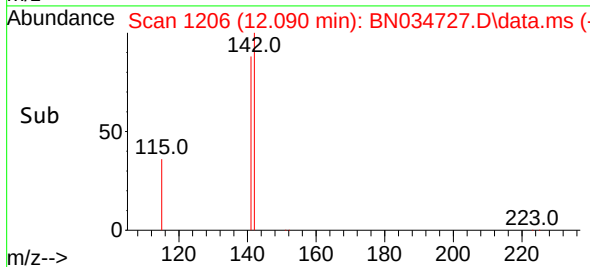
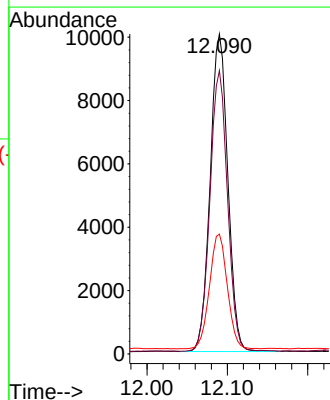
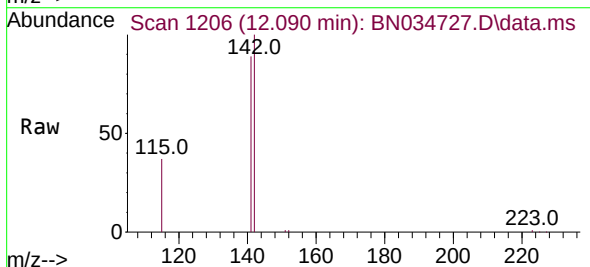
Manual Integrations
APPROVED

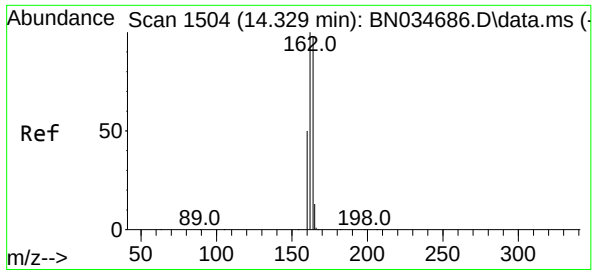
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.090 min Scan# 1206
Delta R.T. -0.057 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

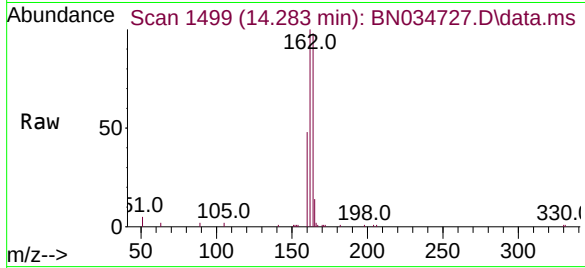
Tgt Ion:142 Resp: 15296
Ion Ratio Lower Upper
142 100
141 88.6 70.4 105.6
115 37.4 29.8 44.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 1428
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

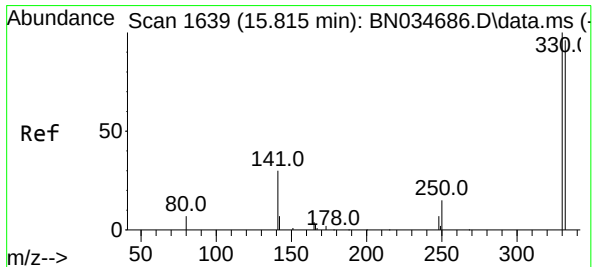
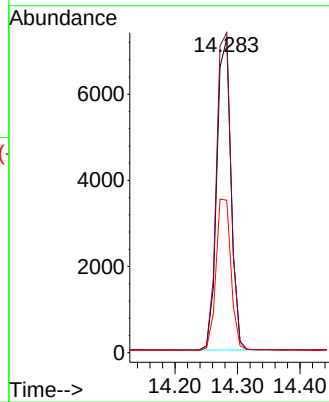
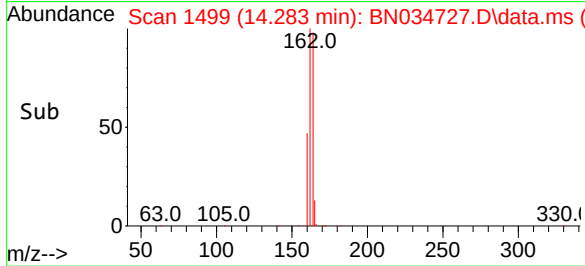
Instrument :
BNA_N
ClientSampleId :
PB164409BS



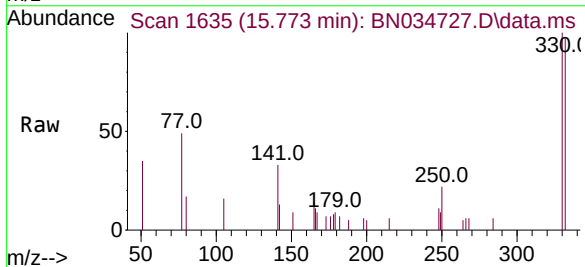
Tgt Ion:164 Resp: 11438
Ion Ratio Lower Upper
164 100
162 101.9 81.4 122.0
160 48.6 40.6 61.0

Manual Integrations
APPROVED

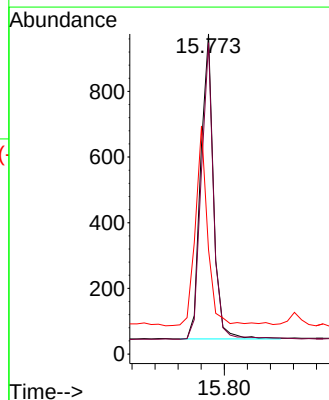
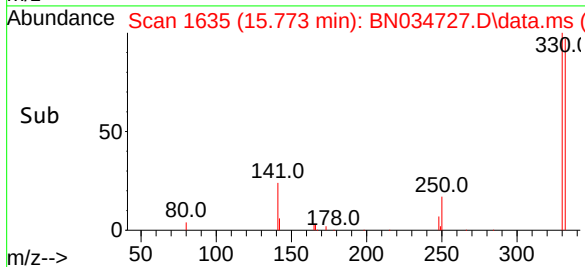
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024

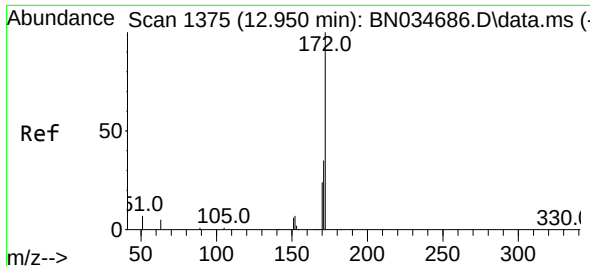


#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.773 min Scan# 1635
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40



Tgt Ion:330 Resp: 1427
Ion Ratio Lower Upper
330 100
332 94.1 76.6 115.0
141 63.1 54.6 81.8





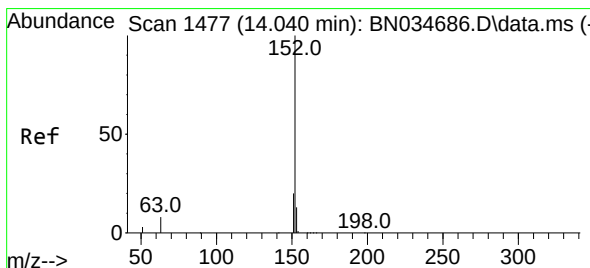
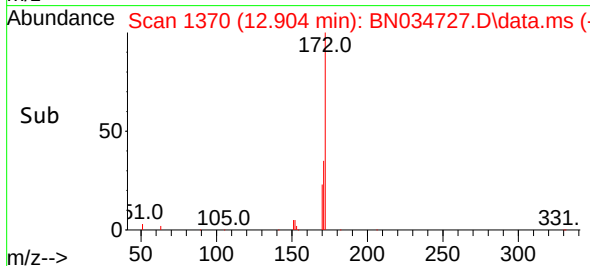
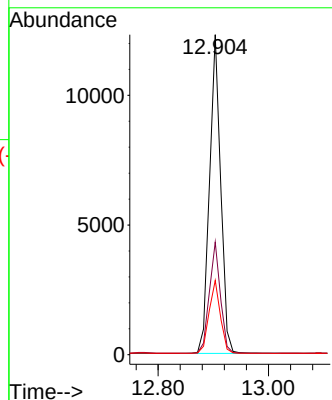
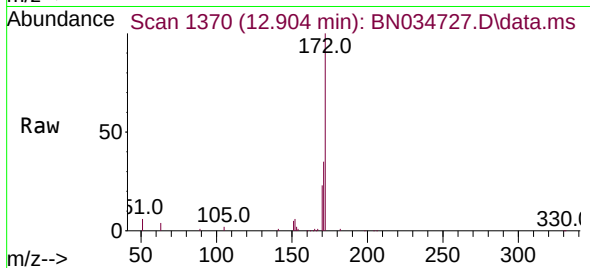
#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.904 min Scan# 11
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :
BNA_N
ClientSampleId :
PB164409BS

Tgt Ion:172 Resp: 1730
Ion Ratio Lower Upper
172 100
171 35.2 28.3 42.5
170 23.2 19.8 29.6

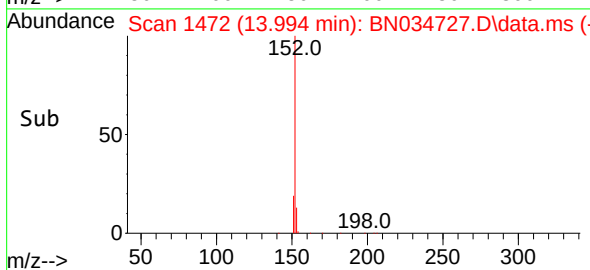
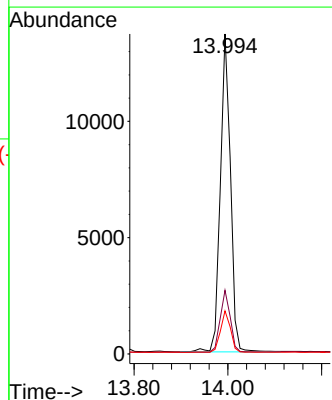
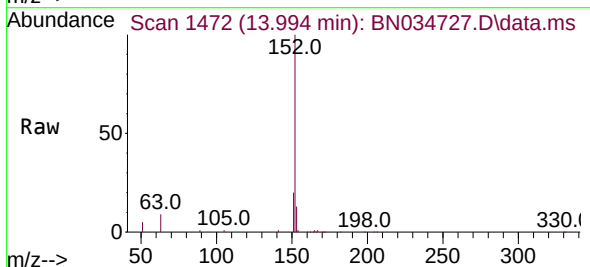
Manual Integrations
APPROVED

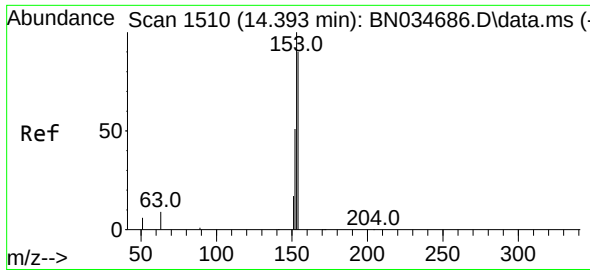
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.994 min Scan# 1472
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

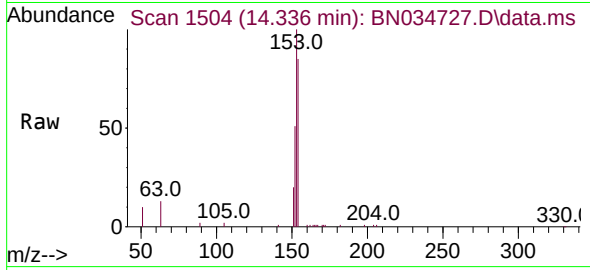
Tgt Ion:152 Resp: 20483
Ion Ratio Lower Upper
152 100
151 19.4 15.6 23.4
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.356 ng
RT: 14.336 min Scan# 1504
Delta R.T. -0.057 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

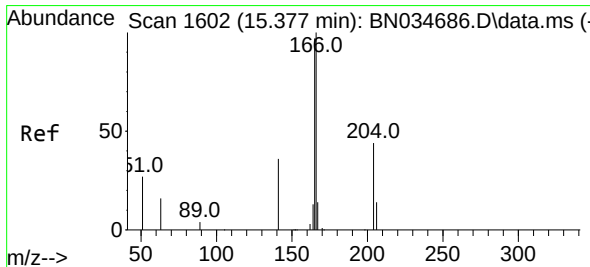
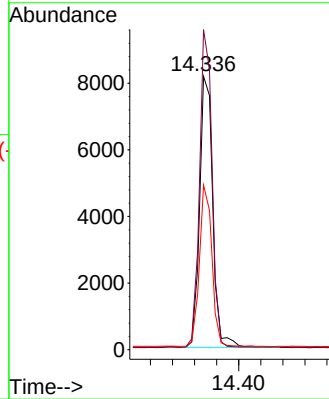
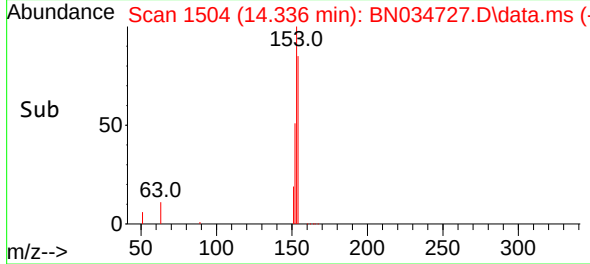
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:154 Resp: 1349
Ion Ratio Lower Upper
154 100
153 111.3 88.2 132.2
152 56.2 46.9 70.3

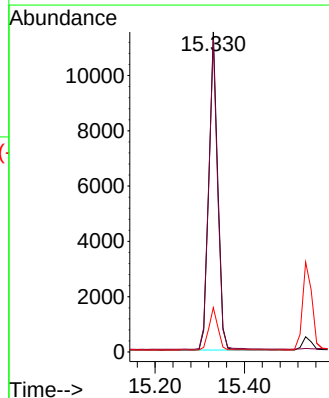
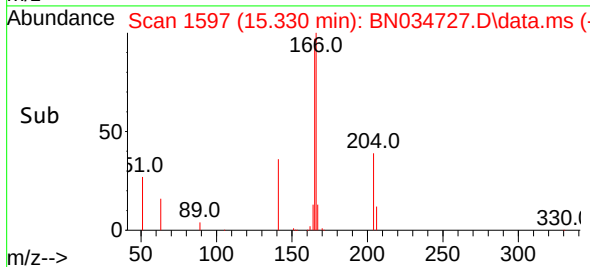
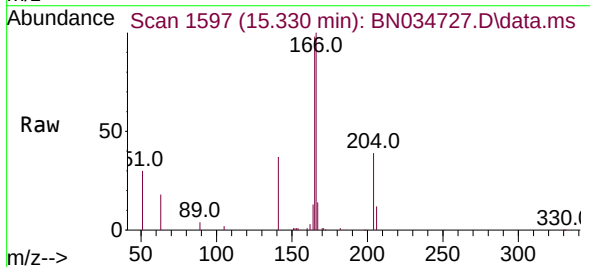
Manual Integrations
APPROVED

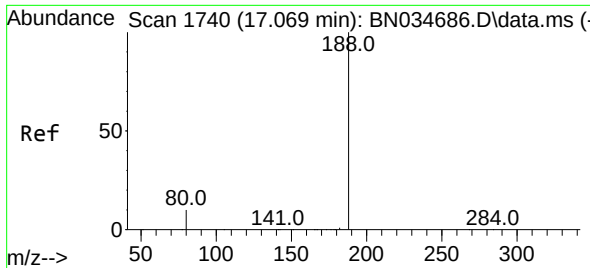
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#18
Fluorene
Concen: 0.340 ng
RT: 15.330 min Scan# 1597
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:166 Resp: 15881
Ion Ratio Lower Upper
166 100
165 97.6 78.8 118.2
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.026 min Scan# 11

Delta R.T. -0.043 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS

Tgt Ion:188 Resp: 20789

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

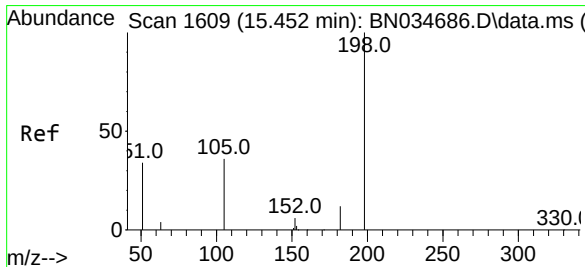
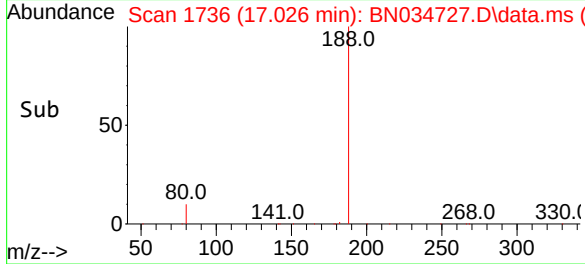
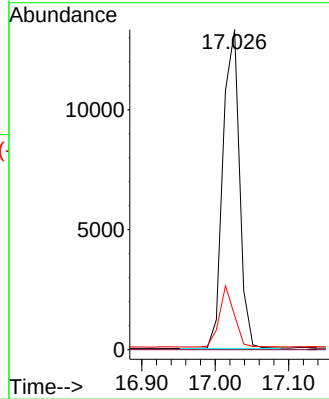
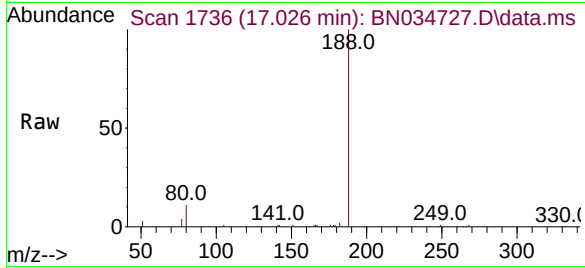
80 10.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.324 ng

RT: 15.405 min Scan# 1604

Delta R.T. -0.047 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

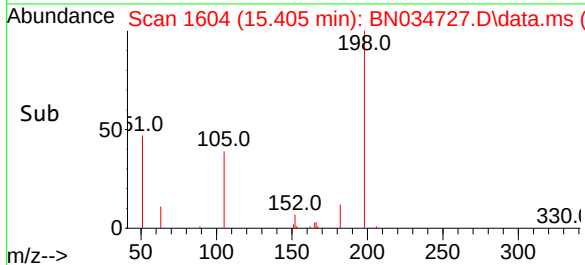
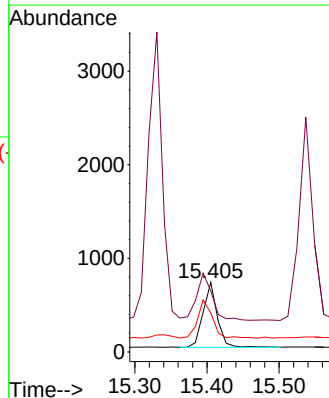
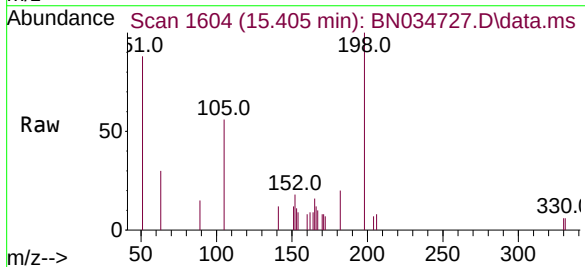
Tgt Ion:198 Resp: 938

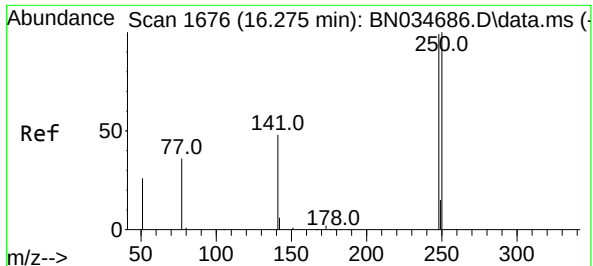
Ion Ratio Lower Upper

198 100

51 87.9 91.8 137.8#

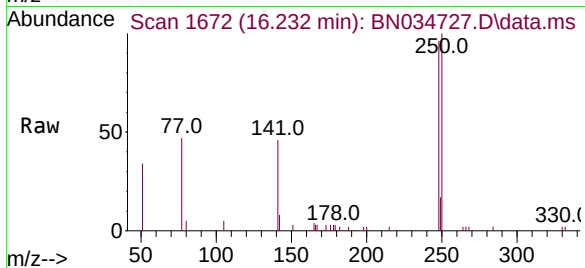
105 56.1 44.3 66.5





#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.232 min Scan# 1676
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

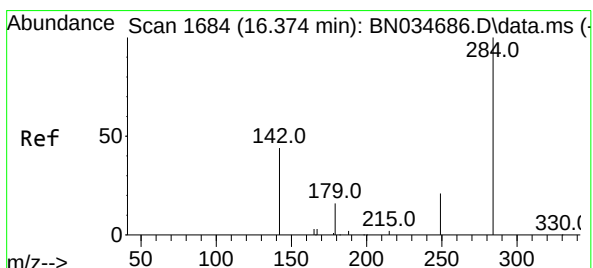
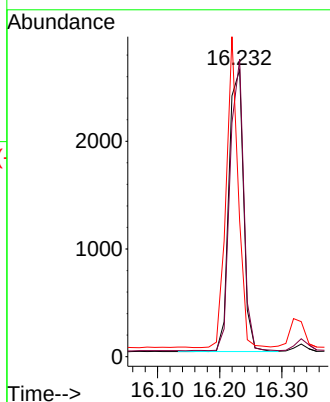
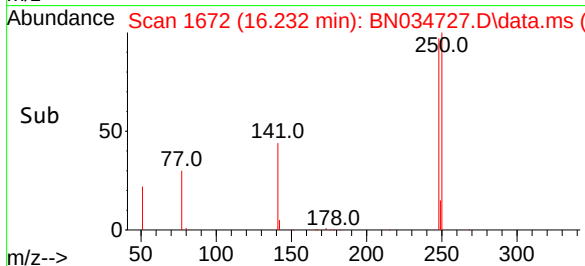
Instrument :
BNA_N
ClientSampleId :
PB164409BS



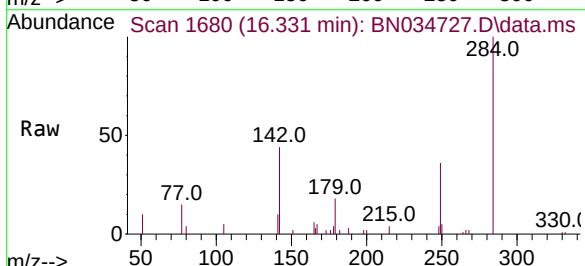
Tgt Ion:248 Resp: 4254
Ion Ratio Lower Upper
248 100
250 103.6 80.9 121.3
141 47.4 40.5 60.7

Manual Integrations
APPROVED

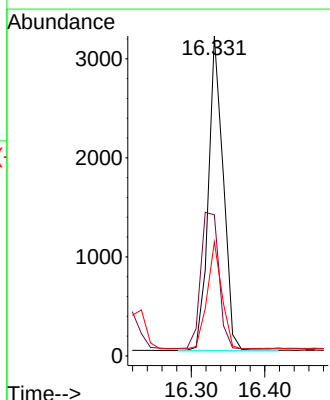
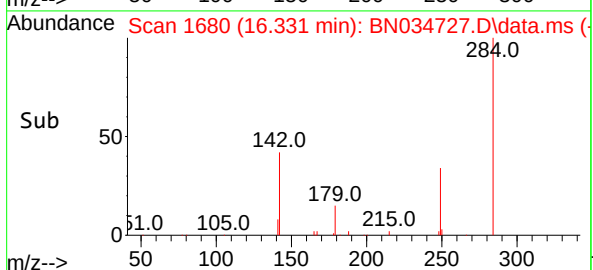
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024

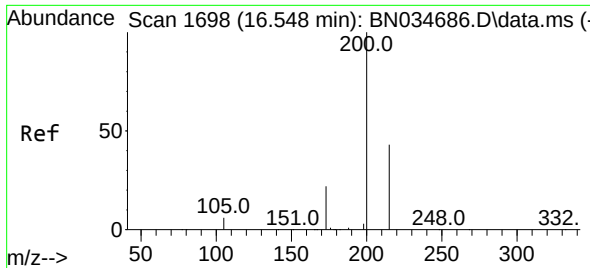


#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.331 min Scan# 1680
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40



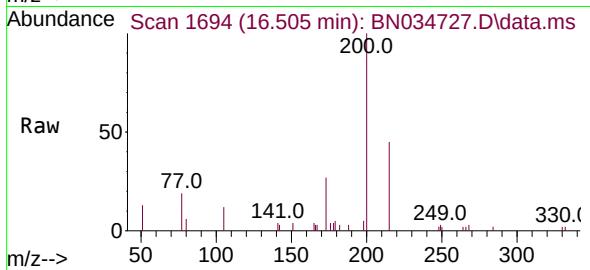
Tgt Ion:284 Resp: 4442
Ion Ratio Lower Upper
284 100
142 53.3 43.6 65.4
249 33.5 26.6 40.0





#23
Atrazine
Concen: 0.416 ng
RT: 16.505 min Scan# 110
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

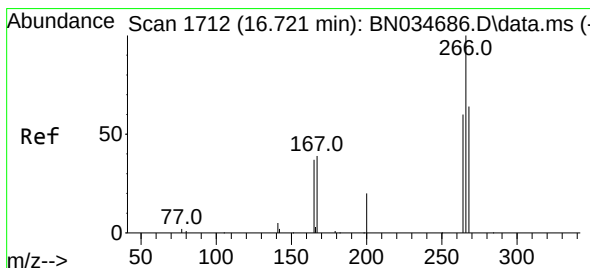
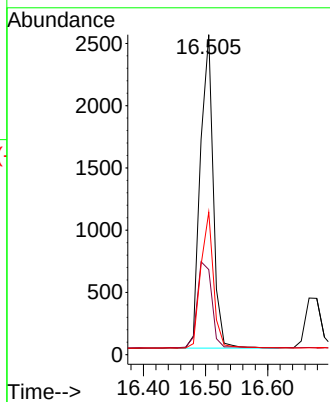
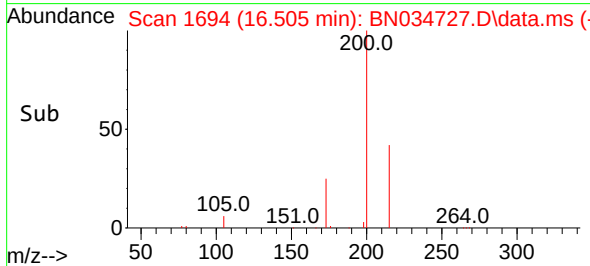
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:200 Resp: 3620
Ion Ratio Lower Upper
200 100
173 26.6 19.7 29.5
215 44.6 35.7 53.5

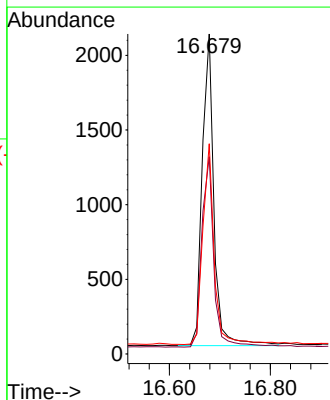
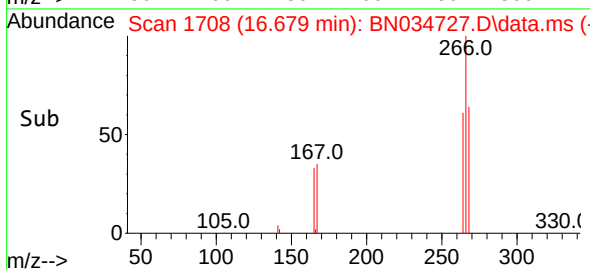
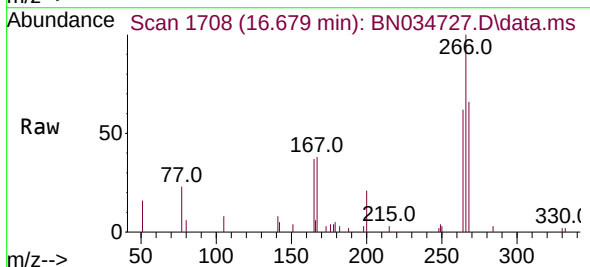
Manual Integrations
APPROVED

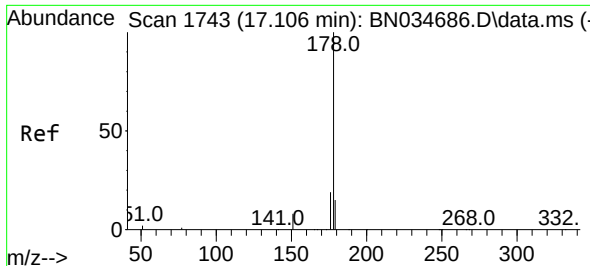
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#24
Pentachlorophenol
Concen: 0.789 ng
RT: 16.679 min Scan# 1708
Delta R.T. -0.042 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

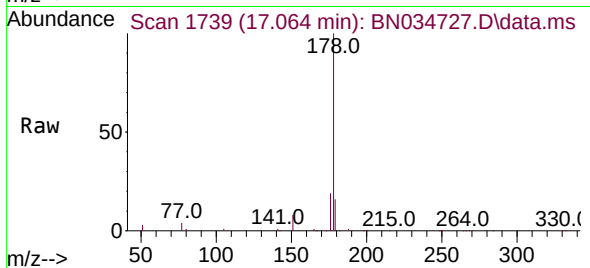
Tgt Ion:266 Resp: 3356
Ion Ratio Lower Upper
266 100
264 62.7 49.4 74.2
268 63.5 50.5 75.7





#25
Phenanthrene
Concen: 0.375 ng
RT: 17.064 min Scan# 1743
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

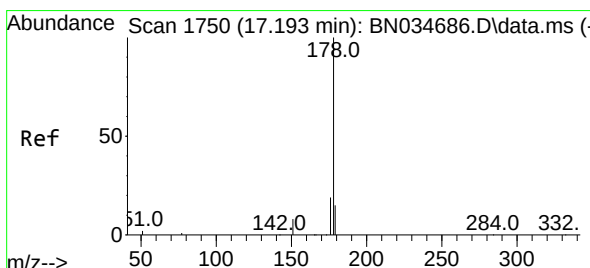
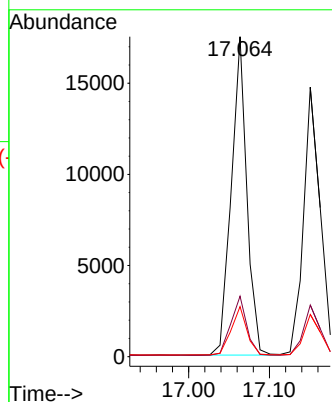
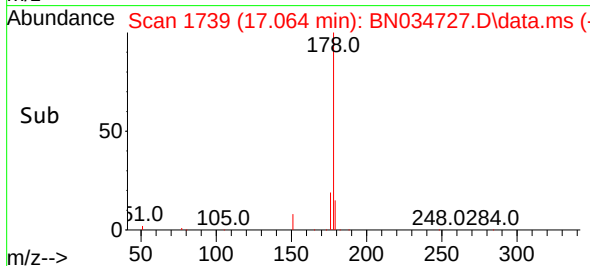
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:178 Resp: 2344
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.4 12.2 18.4

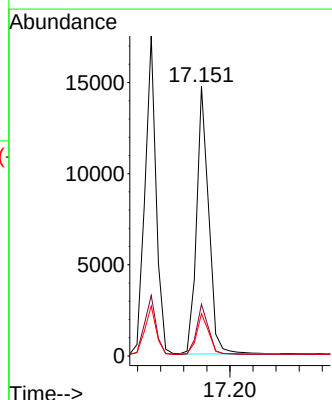
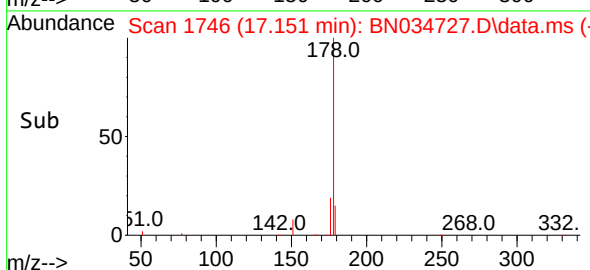
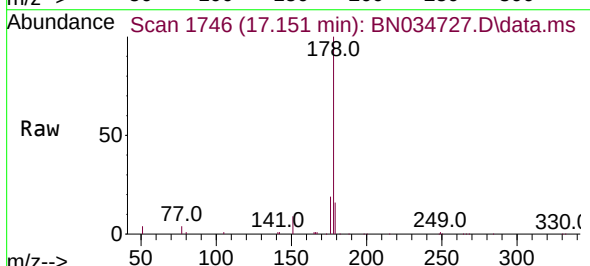
Manual Integrations
APPROVED

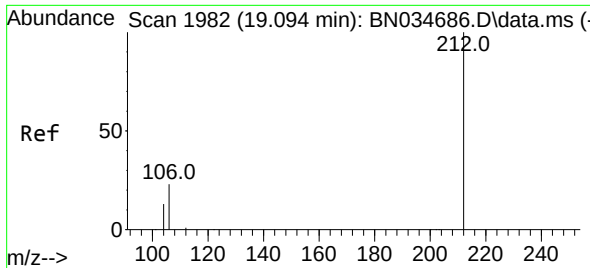
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#26
Anthracene
Concen: 0.386 ng
RT: 17.151 min Scan# 1746
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

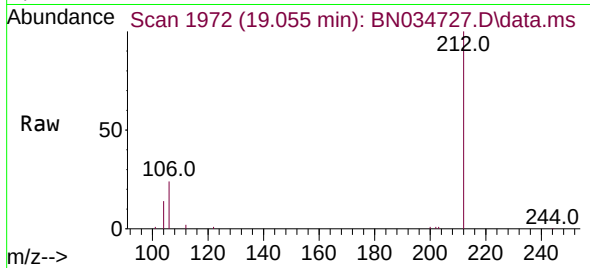
Tgt Ion:178 Resp: 21418
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.4 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.055 min Scan# 1972
Delta R.T. -0.039 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

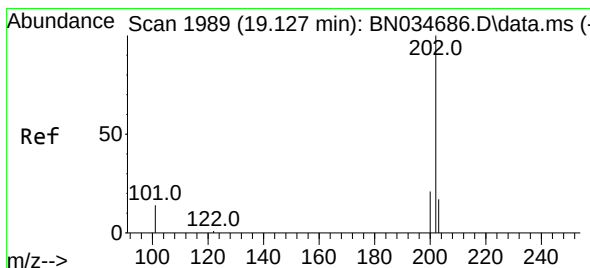
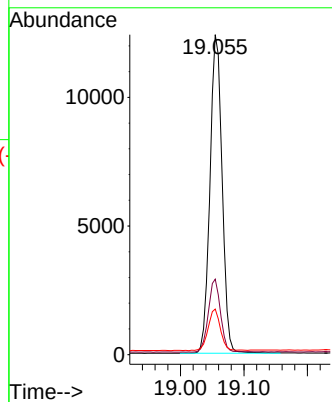
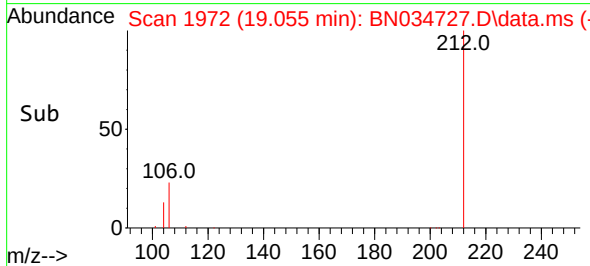
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:212 Resp: 1651
Ion Ratio Lower Upper
212 100
106 22.8 17.8 26.8
104 13.1 10.2 15.4

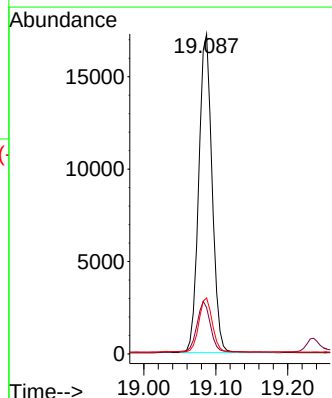
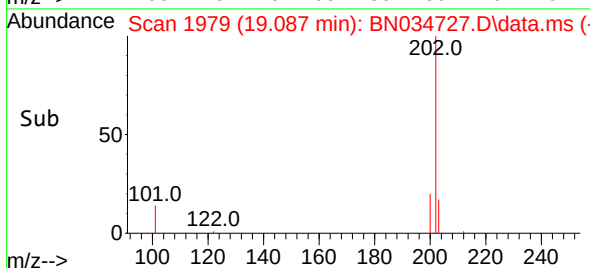
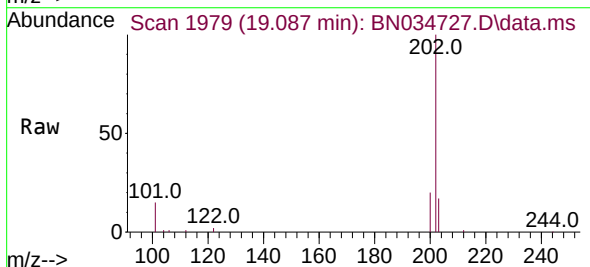
Manual Integrations
APPROVED

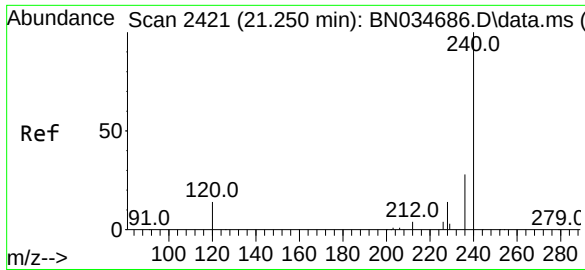
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#28
Fluoranthene
Concen: 0.340 ng
RT: 19.087 min Scan# 1979
Delta R.T. -0.039 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

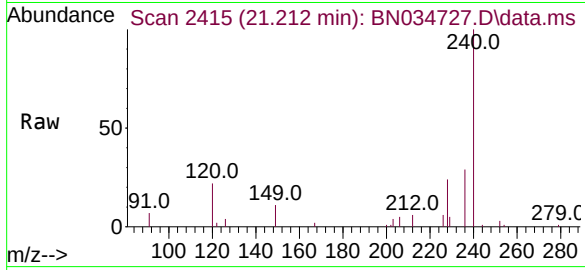
Tgt Ion:202 Resp: 22165
Ion Ratio Lower Upper
202 100
101 16.6 12.8 19.2
203 17.0 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

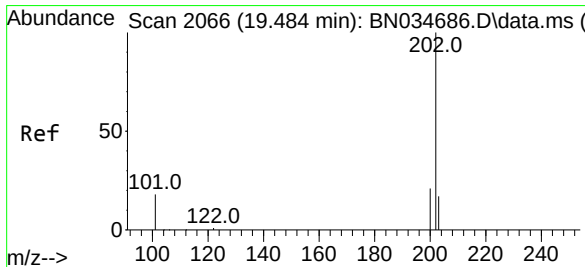
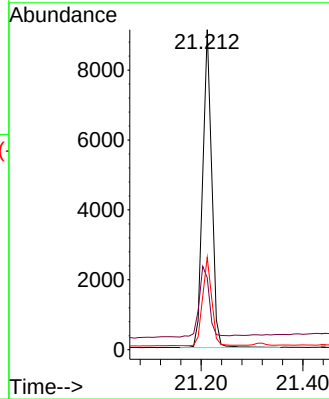
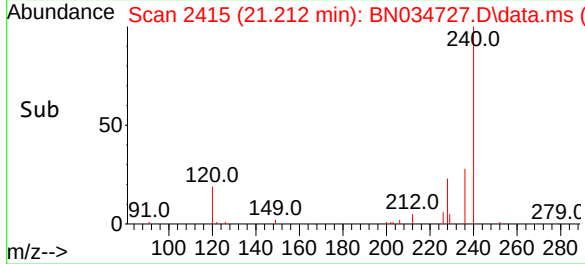
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:240 Resp: 1121
Ion Ratio Lower Upper
240 100
120 22.5 14.2 21.2
236 28.9 23.1 34.7

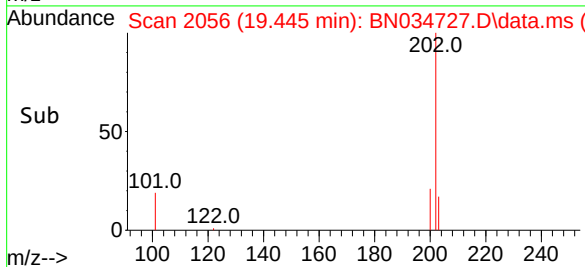
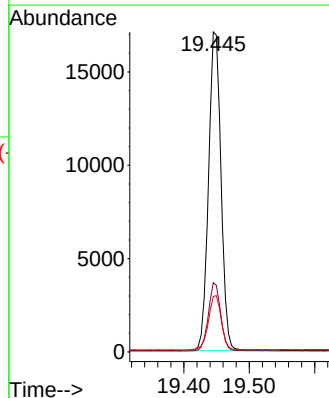
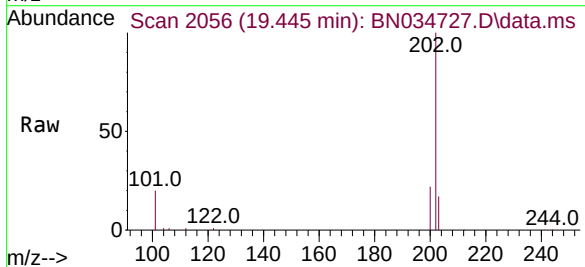
Manual Integrations
APPROVED

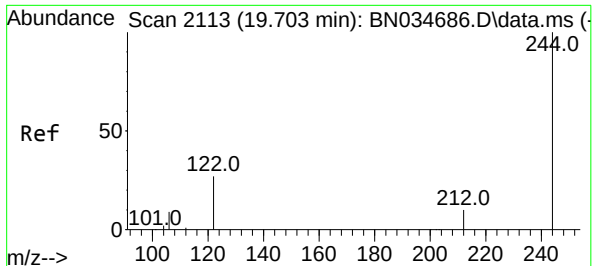
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#30
Pyrene
Concen: 0.393 ng
RT: 19.445 min Scan# 2056
Delta R.T. -0.039 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:202 Resp: 22644
Ion Ratio Lower Upper
202 100
200 21.0 16.6 25.0
203 17.6 14.2 21.4





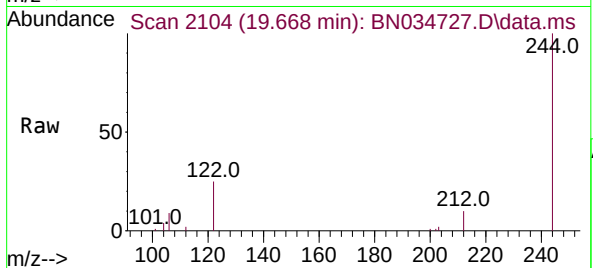
#31
Terphenyl-d14
Concen: 0.475 ng
RT: 19.668 min Scan# 2113
Delta R.T. -0.035 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

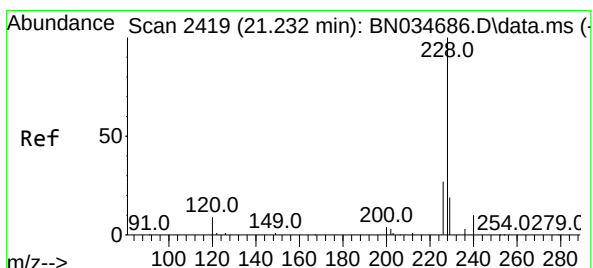
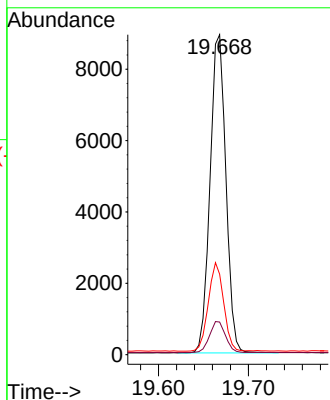
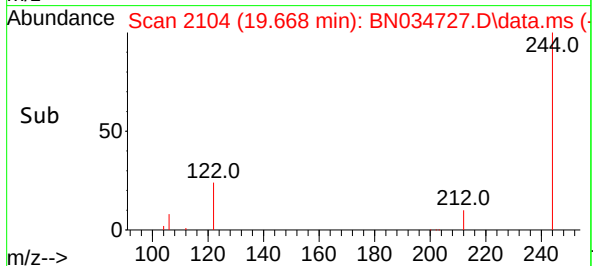
PB164409BS



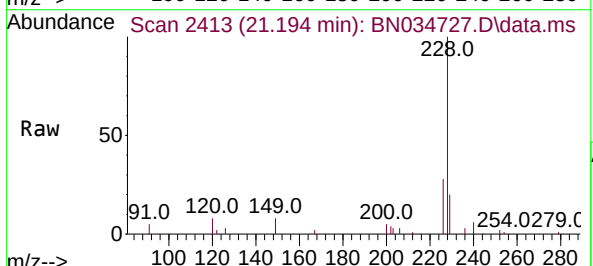
Tgt Ion:244 Resp: 10894
Ion Ratio Lower Upper
244 100
212 10.2 8.6 13.0
122 25.1 22.3 33.5

Manual Integrations
APPROVED

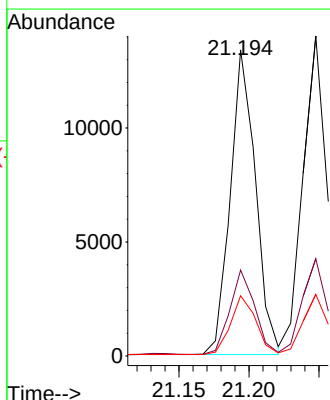
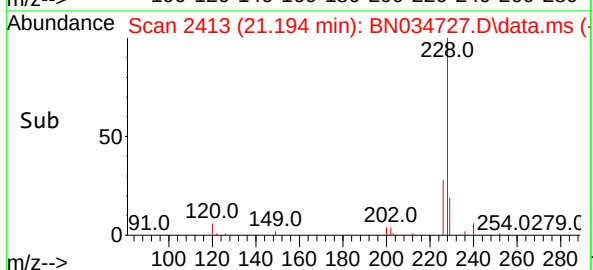
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024

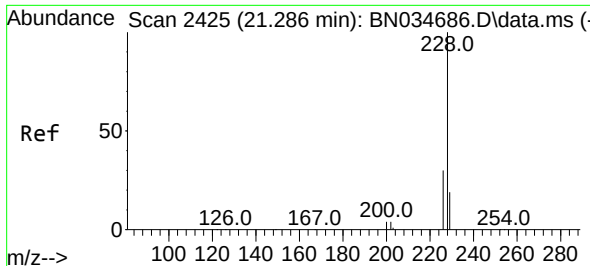


#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40



Tgt Ion:228 Resp: 16780
Ion Ratio Lower Upper
228 100
226 28.1 22.0 33.0
229 19.7 15.6 23.4





#33

Chrysene

Concen: 0.384 ng

RT: 21.248 min Scan# 2419

Delta R.T. -0.038 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS

Tgt Ion:228 Resp: 17018

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

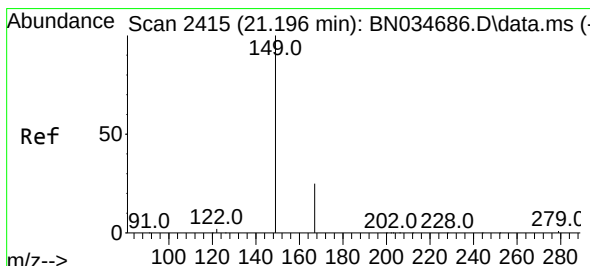
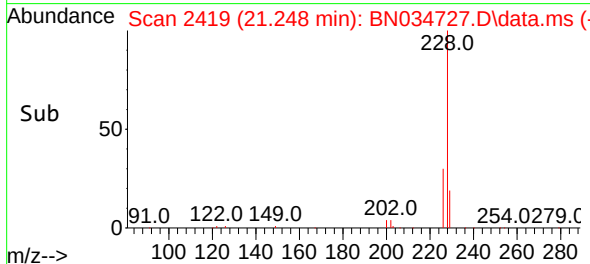
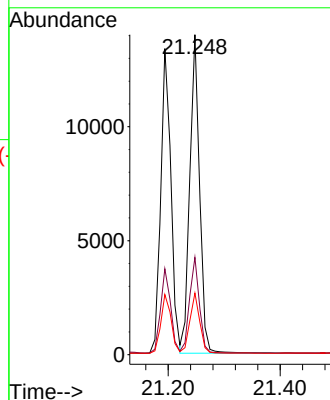
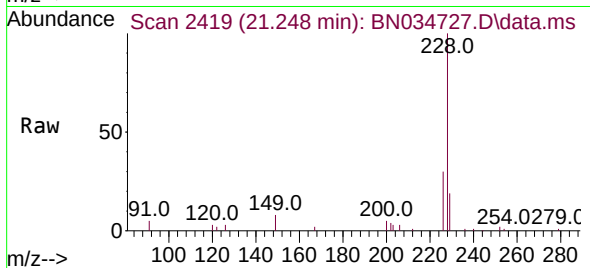
229 19.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.530 ng

RT: 21.158 min Scan# 2409

Delta R.T. -0.038 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

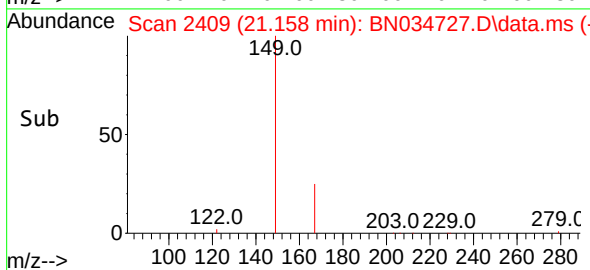
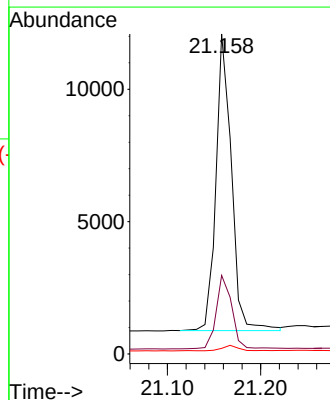
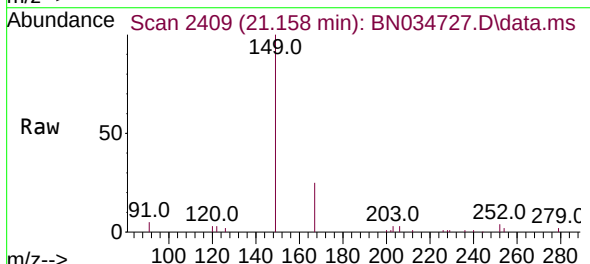
Tgt Ion:149 Resp: 12888

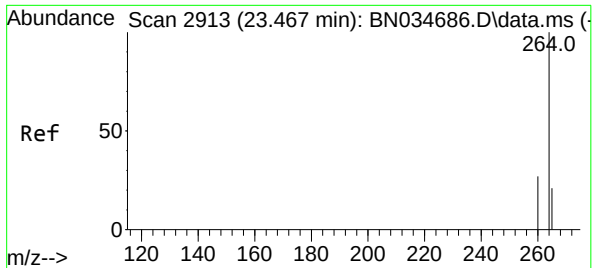
Ion Ratio Lower Upper

149 100

167 24.9 19.7 29.5

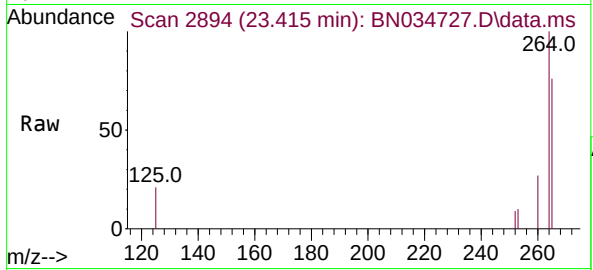
279 2.0 1.8 2.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 21
Delta R.T. -0.052 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

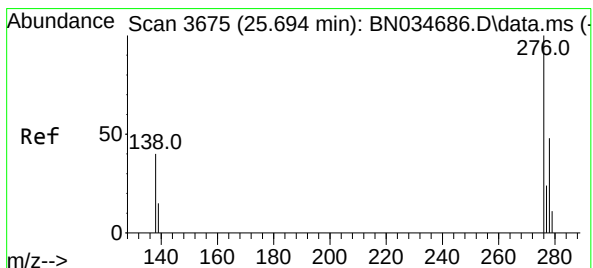
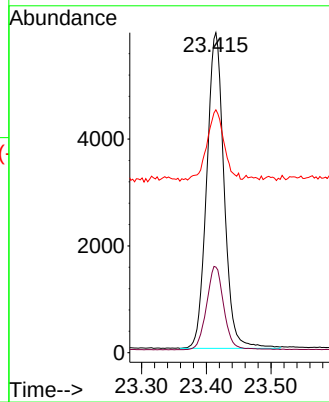
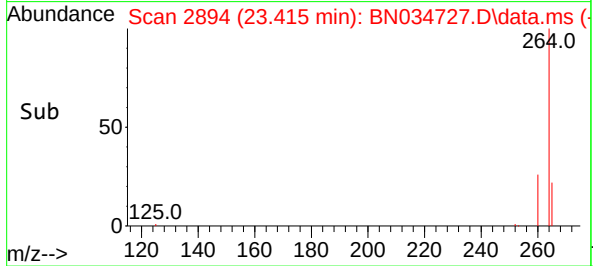
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:264 Resp: 1099
Ion Ratio Lower Upper
264 100
260 26.7 21.9 32.9
265 75.9 60.6 91.0

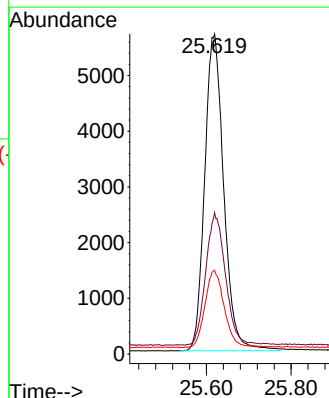
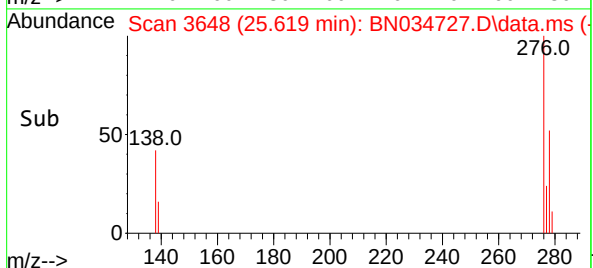
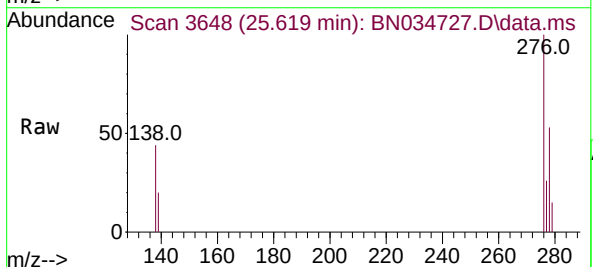
Manual Integrations
APPROVED

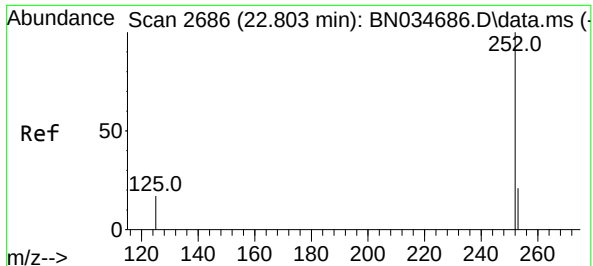
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 25.619 min Scan# 3648
Delta R.T. -0.075 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:276 Resp: 17784
Ion Ratio Lower Upper
276 100
138 42.7 35.1 52.7
277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.757 min Scan# 2669

Delta R.T. -0.046 min

Lab File: BN034727.D

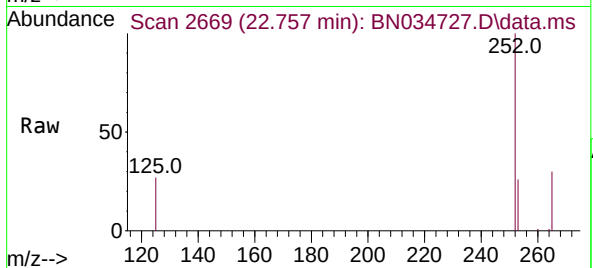
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS



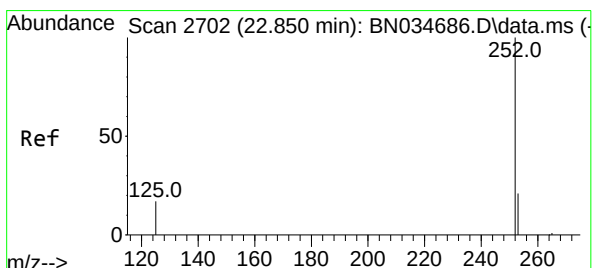
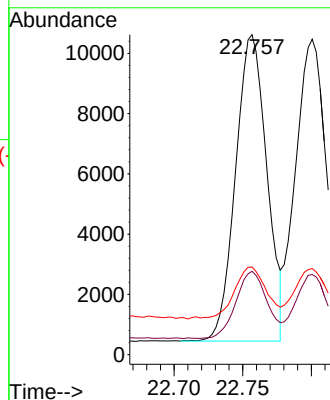
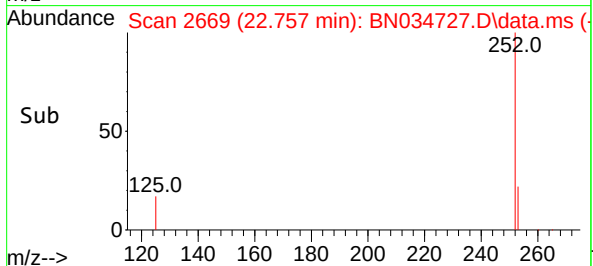
Tgt Ion:	252	Resp:	1608
Ion Ratio	Lower	Upper	
252	100		
253	26.1	20.0	30.0
125	27.4	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2024

Supervised By :mohammad ahmed 10/28/2024



#38

Benzo(k)fluoranthene

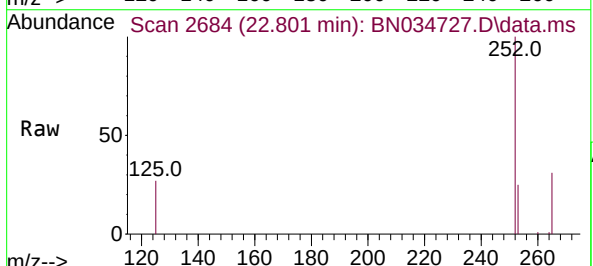
Concen: 0.373 ng

RT: 22.801 min Scan# 2684

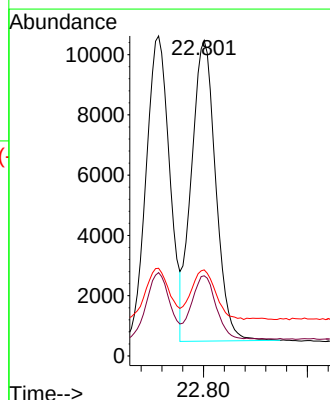
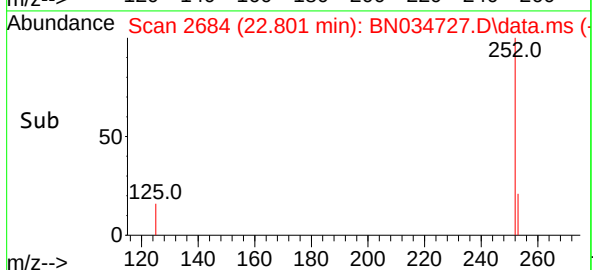
Delta R.T. -0.049 min

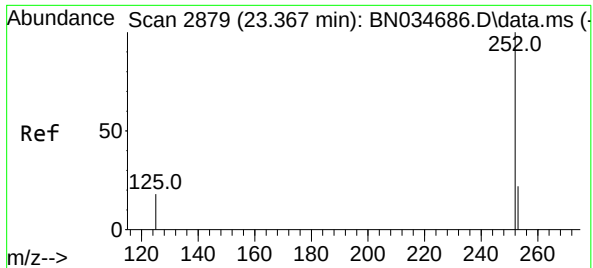
Lab File: BN034727.D

Acq: 25 Oct 2024 17:40



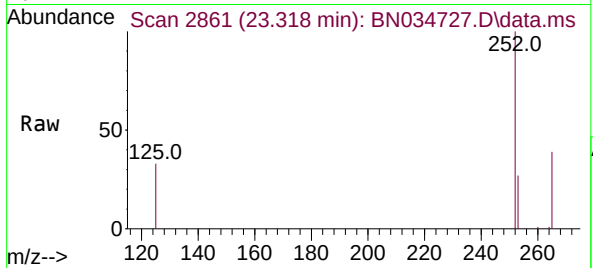
Tgt Ion:	252	Resp:	16158
Ion Ratio	Lower	Upper	
252	100		
253	25.4	20.6	31.0
125	27.3	21.6	32.4





#39
Benzo(a)pyrene
Concen: 0.415 ng
RT: 23.318 min Scan# 21
Delta R.T. -0.049 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

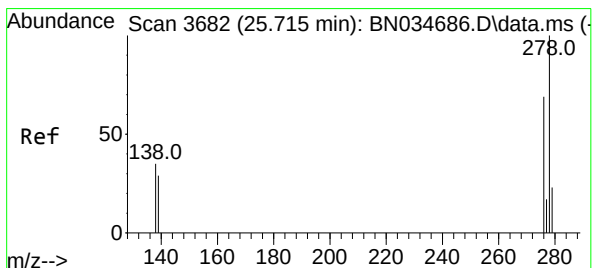
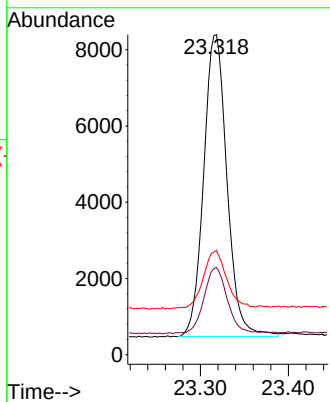
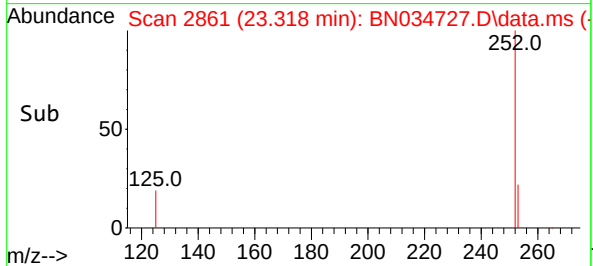
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:252 Resp: 14630
Ion Ratio Lower Upper
252 100
253 27.3 22.2 33.4
125 32.6 26.0 39.0

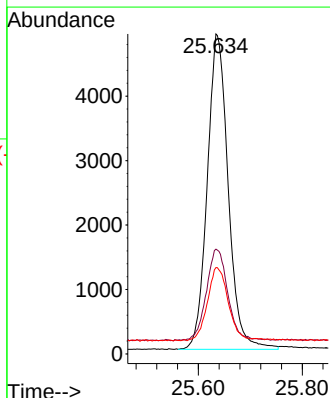
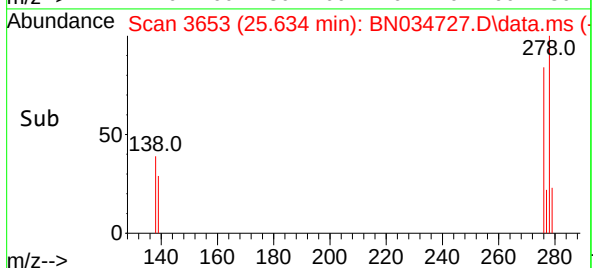
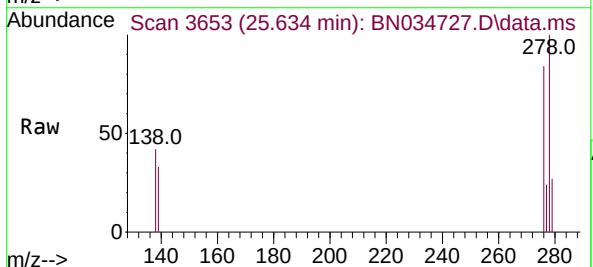
Manual Integrations
APPROVED

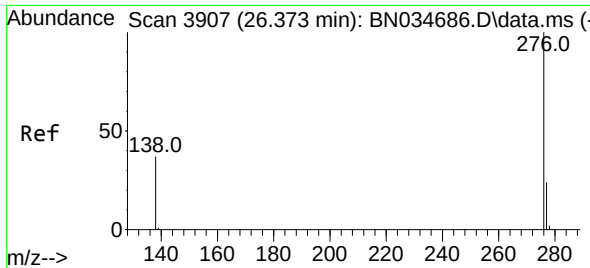
Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.410 ng
RT: 25.634 min Scan# 3653
Delta R.T. -0.081 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

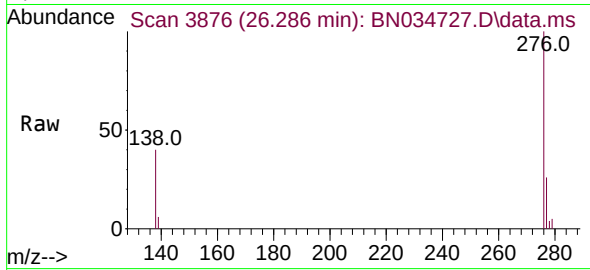
Tgt Ion:278 Resp: 13681
Ion Ratio Lower Upper
278 100
139 32.7 25.4 38.2
279 27.0 22.4 33.6





#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.286 min Scan# 3876
Delta R.T. -0.087 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

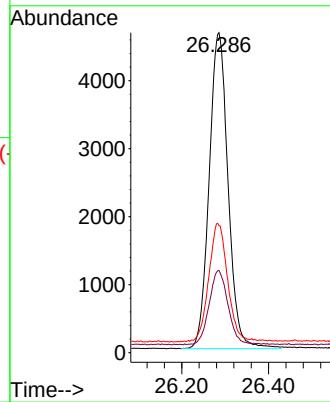
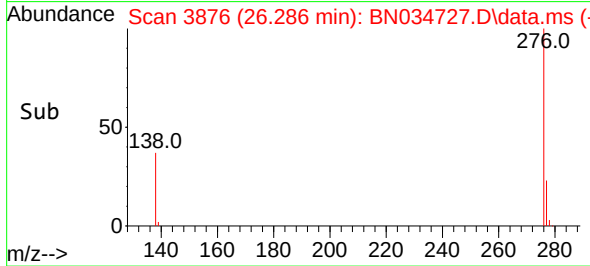
Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:276 Resp: 14059
Ion Ratio Lower Upper
276 100
277 25.7 21.3 31.9
138 39.7 31.9 47.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :mohammad ahmed 10/28/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	CTO WE13		Date Received:		
Client Sample ID:	PB164409BSD		SDG No.:	P4550	
Lab Sample ID:	PB164409BSD		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
BN034728.D	1	10/25/24 10:45	10/25/24 18:16	PB164409

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	0.48		30 - 150		119%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8430	7.654				
1146-65-2	Naphthalene-d8	23400	10.426				
15067-26-2	Acenaphthene-d10	10700	14.283				
1517-22-2	Phenanthrene-d10	19200	17.026				
1719-03-5	Chrysene-d12	10300	21.212				
1520-96-3	Perylene-d12	10000	23.415				

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\BN102524\
Data File : BN034728.D
Acq On : 25 Oct 2024 18:16
Operator : RC/JU
Sample : PB164409BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Quant Time: Oct 25 22:43:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8434	0.400	ng	-0.06
7) Naphthalene-d8	10.426	136	23419	0.400	ng	#-0.05
13) Acenaphthene-d10	14.283	164	10653	0.400	ng	-0.05
19) Phenanthrene-d10	17.026	188	19220	0.400	ng	-0.04
29) Chrysene-d12	21.212	240	10276	0.400	ng	-0.04
35) Perylene-d12	23.415	264	10044	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	8988	0.358	ng	-0.06
5) Phenol-d6	6.824	99	11777	0.356	ng	-0.06
8) Nitrobenzene-d5	8.781	82	7564	0.385	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	15297m	0.475	ng	-0.06
14) 2,4,6-Tribromophenol	15.773	330	1241	0.377	ng	-0.04
15) 2-Fluorobiphenyl	12.903	172	16558	0.391	ng	-0.05
27) Fluoranthene-d10	19.055	212	15149	0.350	ng	-0.04
31) Terphenyl-d14	19.663	244	9926	0.473	ng	-0.04
Target Compounds						
2) 1,4-Dioxane	3.242	88	3249	0.289	ng	# 44
3) n-Nitrosodimethylamine	3.531	42	5952	0.364	ng	98
6) bis(2-Chloroethyl)ether	7.084	93	9909	0.369	ng	100
9) Naphthalene	10.468	128	23716	0.366	ng	100
10) Hexachlorobutadiene	10.767	225	3519	0.362	ng	# 98
12) 2-Methylnaphthalene	12.090	142	14677	0.365	ng	100
16) Acenaphthylene	13.994	152	19500	0.381	ng	100
17) Acenaphthene	14.336	154	12757	0.362	ng	99
18) Fluorene	15.330	166	15063	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	854	0.319	ng	85
21) 4-Bromophenyl-phenylether	16.232	248	3991	0.389	ng	93
22) Hexachlorobenzene	16.331	284	4170	0.375	ng	98
23) Atrazine	16.505	200	3262	0.405	ng	98
24) Pentachlorophenol	16.679	266	2988	0.760	ng	98
25) Phenanthrene	17.064	178	22141	0.384	ng	100
26) Anthracene	17.150	178	19966	0.390	ng	100
28) Fluoranthene	19.087	202	20378	0.338	ng	99
30) Pyrene	19.450	202	20914	0.396	ng	99
32) Benzo(a)anthracene	21.194	228	15505	0.395	ng	99
33) Chrysene	21.248	228	15838	0.390	ng	100
34) Bis(2-ethylhexyl)phtha...	21.158	149	10465	0.470	ng	100
36) Indeno(1,2,3-cd)pyrene	25.613	276	16941	0.438	ng	100
37) Benzo(b)fluoranthene	22.757	252	15194	0.379	ng	98
38) Benzo(k)fluoranthene	22.801	252	15226	0.385	ng	99
39) Benzo(a)pyrene	23.315	252	13861	0.431	ng	99
40) Dibenzo(a,h)anthracene	25.637	278	13054	0.428	ng	98
41) Benzo(g,h,i)perylene	26.286	276	13399	0.398	ng	100

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

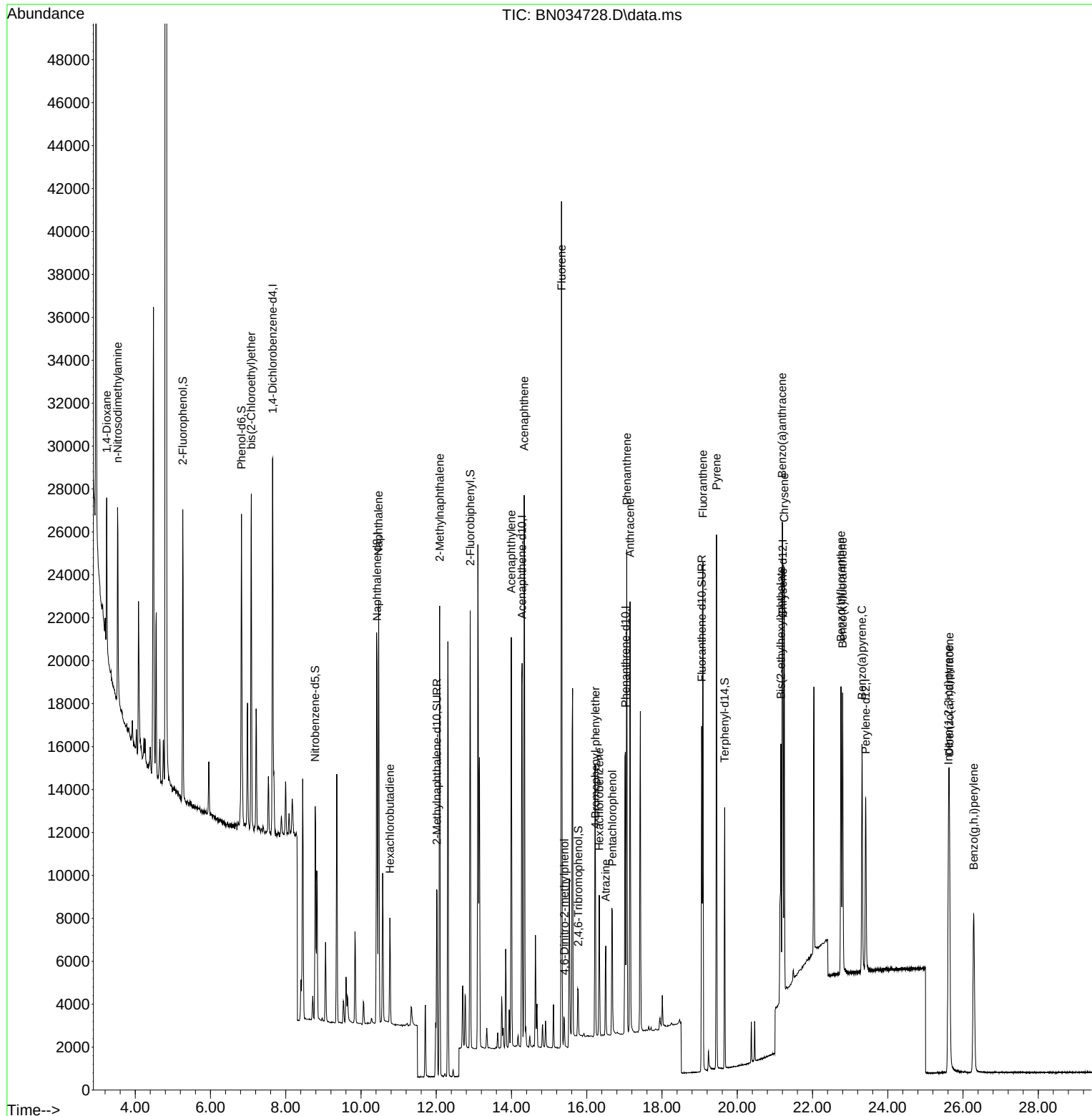
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034728.D
Acq On : 25 Oct 2024 18:16
Operator : RC/JU
Sample : PB164409BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

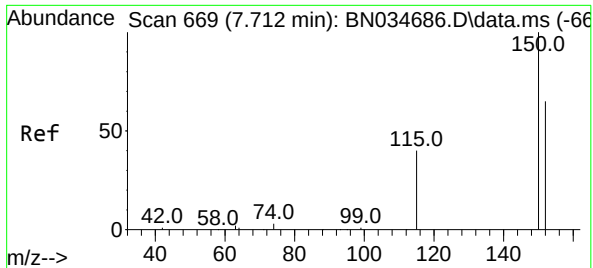
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Quant Time: Oct 25 22:43:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 25 22:11:36 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

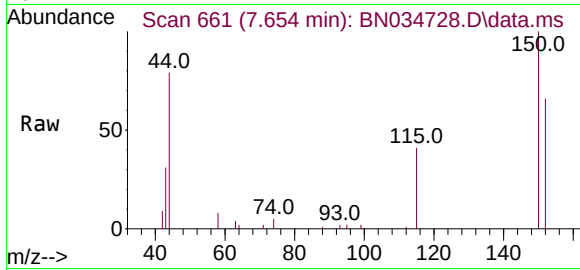
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 60
Delta R.T. -0.058 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

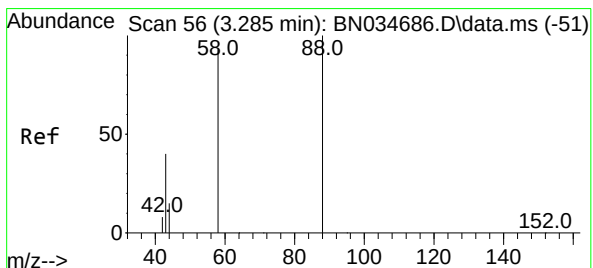
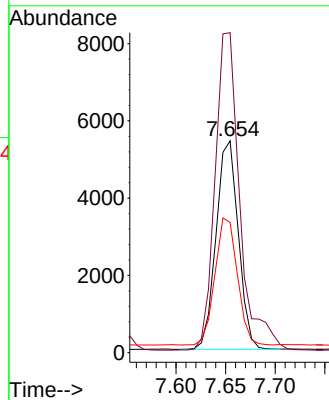
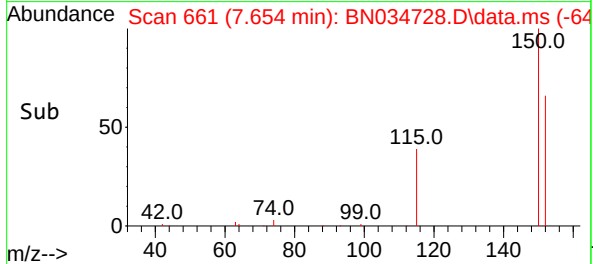
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion: 152 Resp: 8434
Ion Ratio Lower Upper
152 100
150 151.1 122.7 184.1
115 61.5 51.0 76.6

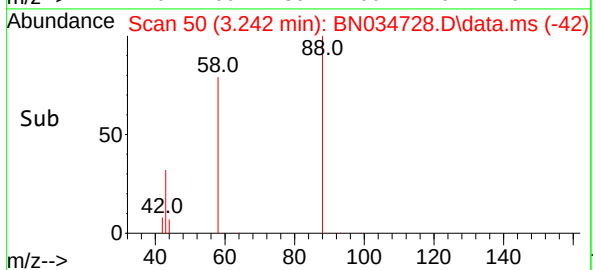
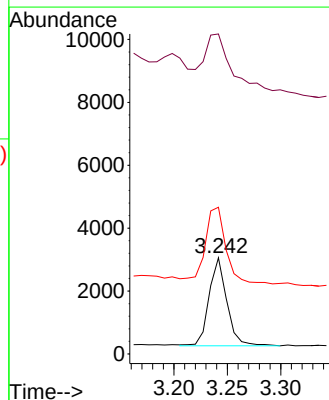
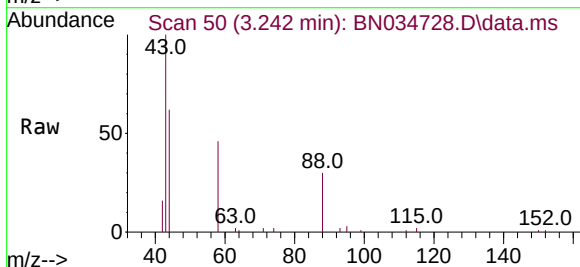
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

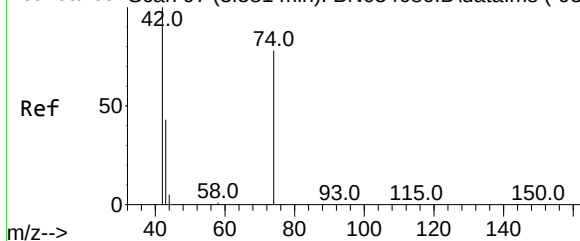


#2
1,4-Dioxane
Concen: 0.289 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

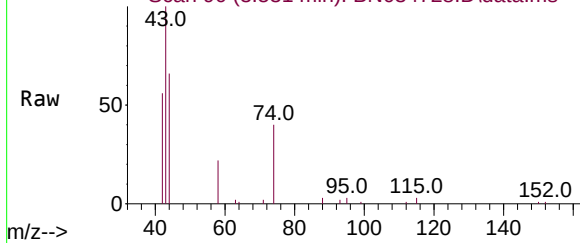
Tgt Ion: 88 Resp: 3249
Ion Ratio Lower Upper
88 100
43 123.2 32.1 48.1#
58 113.1 73.7 110.5#



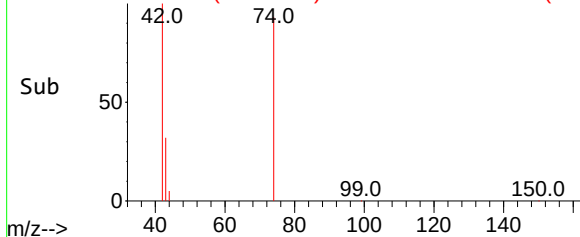
Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



Abundance Scan 90 (3.531 min): BN034728.D\data.ms



Abundance Scan 90 (3.531 min): BN034728.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.364 ng

RT: 3.531 min Scan# 90

Delta R.T. -0.050 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

Tgt Ion: 42 Resp: 595

Ion Ratio Lower Upper

42 100

74 97.7 77.2 115.8

44 20.1 13.4 20.2

Instrument :

BNA_N

ClientSampleId :

PB164409BSD

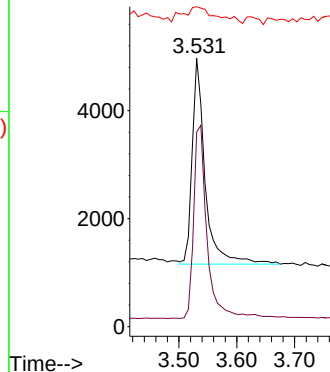
Manual Integrations

APPROVED

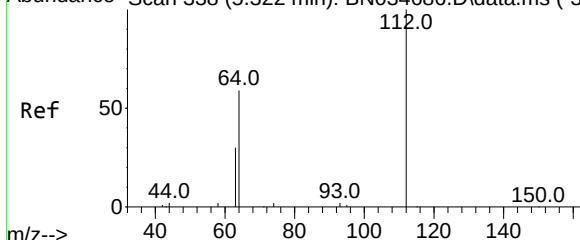
Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024

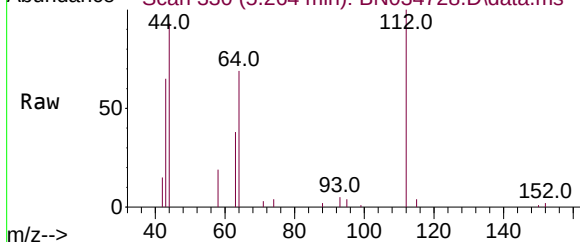
Abundance



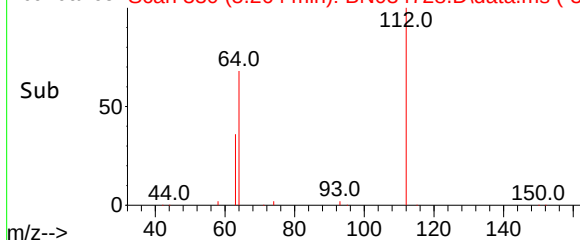
Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



Abundance Scan 330 (5.264 min): BN034728.D\data.ms



Abundance Scan 330 (5.264 min): BN034728.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.358 ng

RT: 5.264 min Scan# 330

Delta R.T. -0.058 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

Tgt Ion:112 Resp: 8988

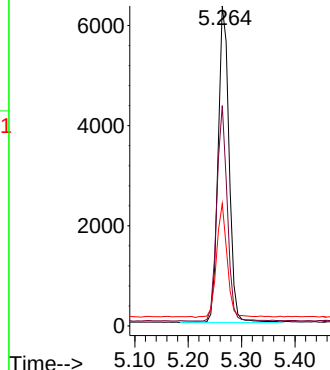
Ion Ratio Lower Upper

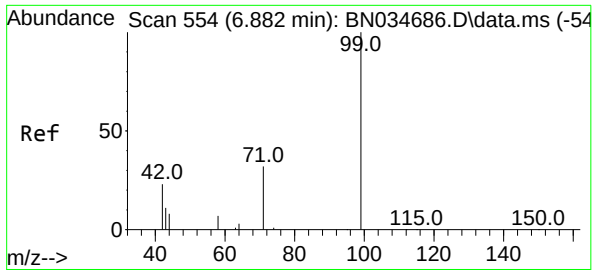
112 100

64 65.1 53.0 79.6

63 34.8 27.6 41.4

Abundance





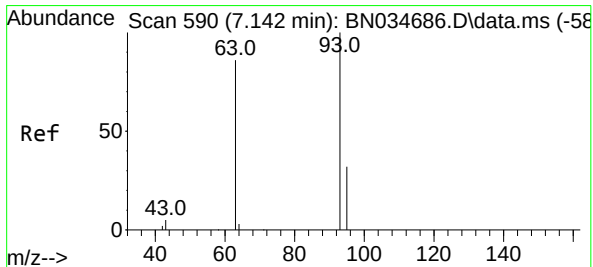
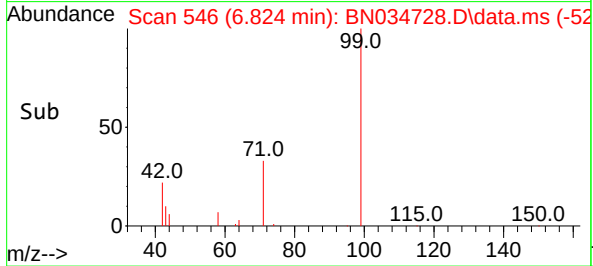
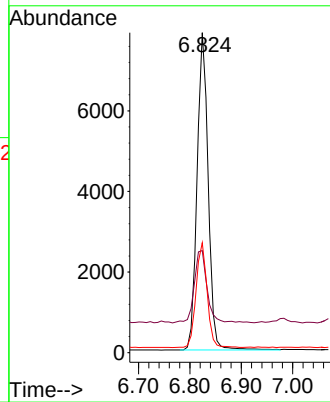
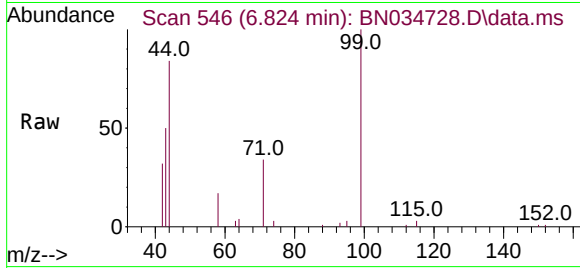
#5
Phenol-d6
Concen: 0.356 ng
RT: 6.824 min Scan# 54
Delta R.T. -0.058 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Tgt Ion: 99 Resp: 1177
Ion Ratio Lower Upper
99 100
42 26.7 21.8 32.8
71 32.9 26.6 40.0

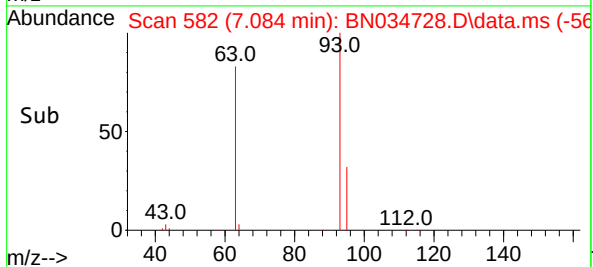
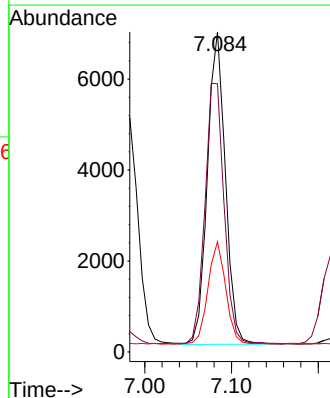
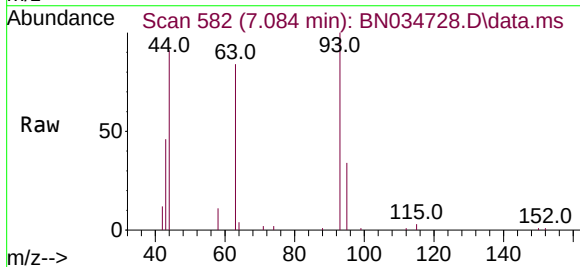
Manual Integrations
APPROVED

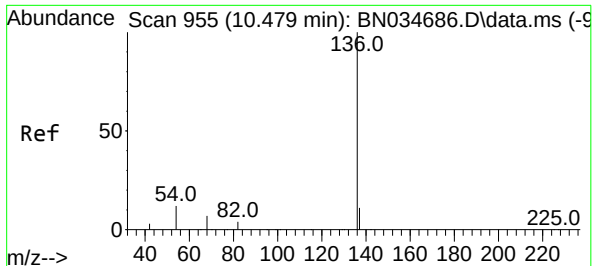
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.058 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

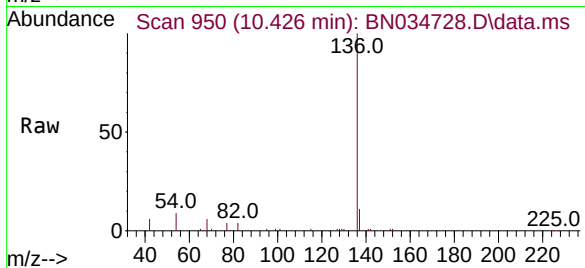
Tgt Ion: 93 Resp: 9909
Ion Ratio Lower Upper
93 100
63 89.2 71.5 107.3
95 32.3 25.8 38.6





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.053 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

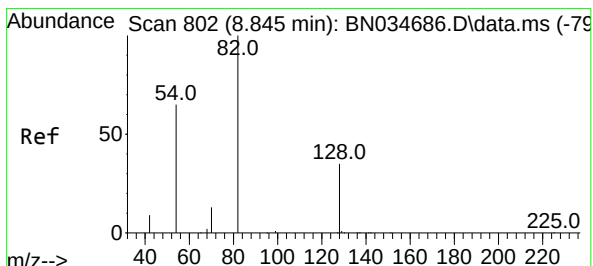
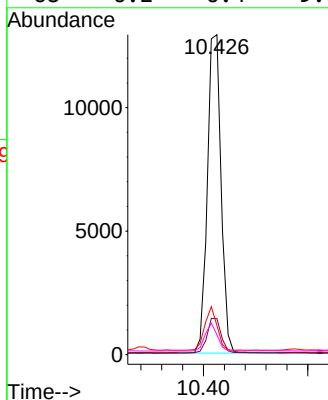
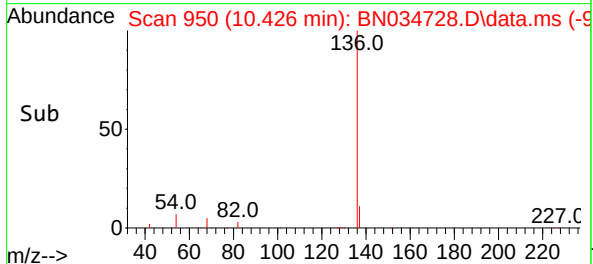
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion: 136 Resp: 23419
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 9.1 9.8 14.8
68 6.2 6.4 9.6#

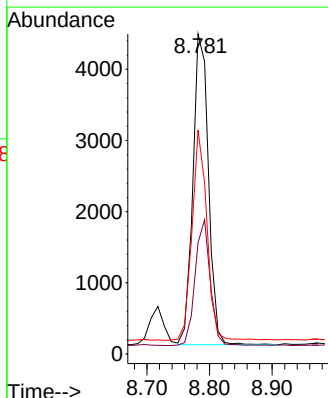
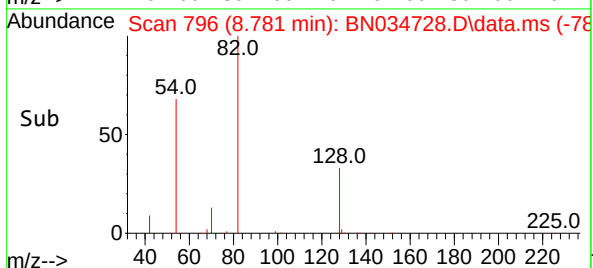
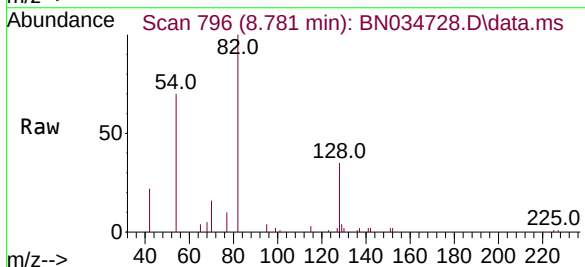
Manual Integrations
APPROVED

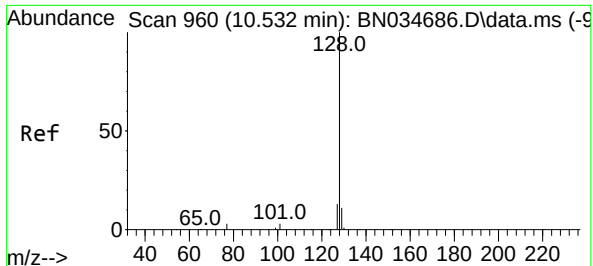
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion: 82 Resp: 7564
Ion Ratio Lower Upper
82 100
128 34.7 29.7 44.5
54 69.9 53.0 79.6





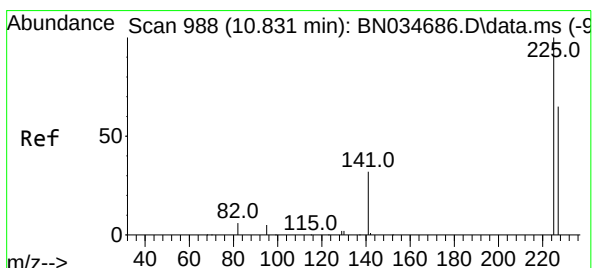
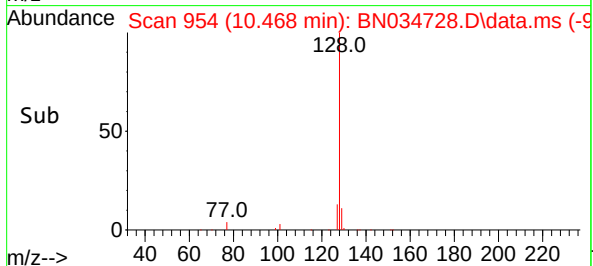
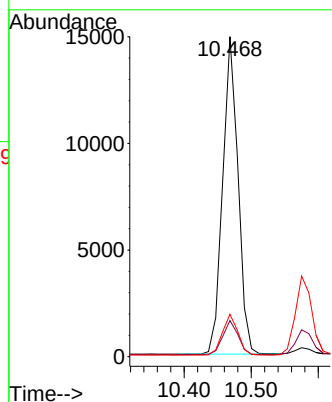
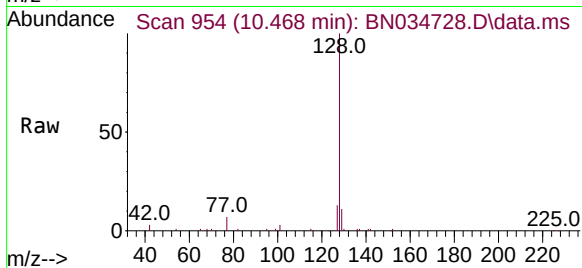
#9
Naphthalene
Concen: 0.366 ng
RT: 10.468 min Scan# 91
Delta R.T. -0.064 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Tgt Ion:128 Resp: 23710
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.2 10.5 15.7

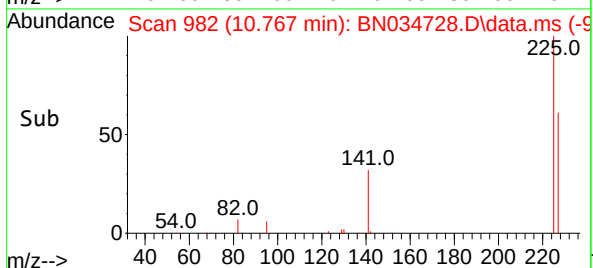
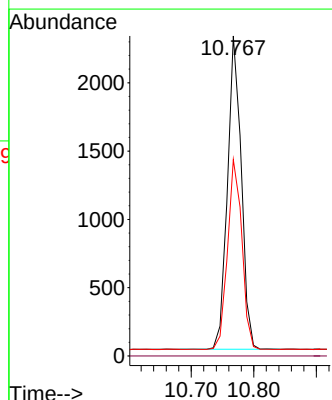
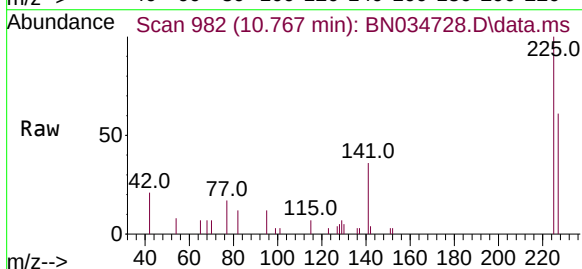
Manual Integrations
APPROVED

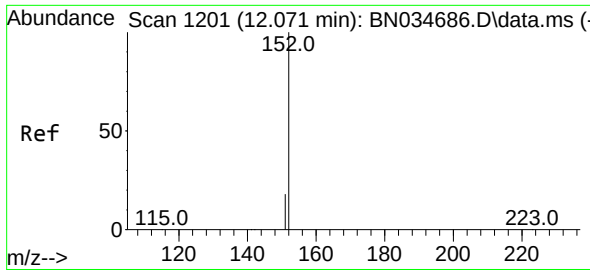
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.767 min Scan# 982
Delta R.T. -0.064 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:225 Resp: 3519
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.8 51.4 77.0





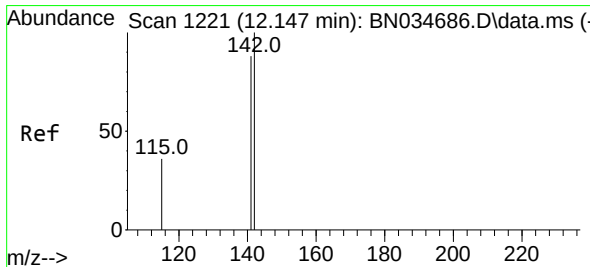
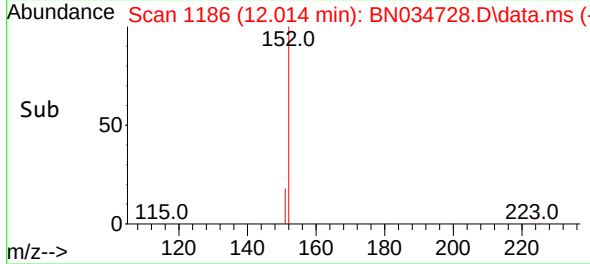
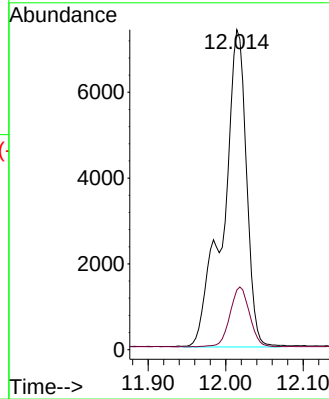
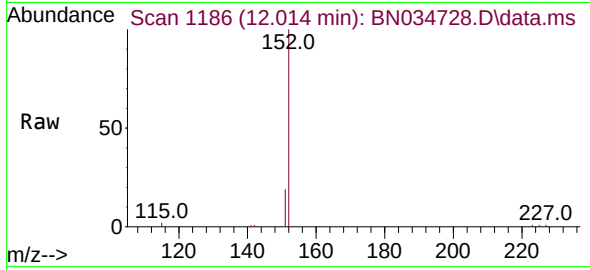
#11
2-Methylnaphthalene-d10
Concen: 0.475 ng m
RT: 12.014 min Scan# 11
Delta R.T. -0.057 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Tgt Ion:152 Resp: 1529
Ion Ratio Lower Upper
152 100
151 16.0 16.7 25.1

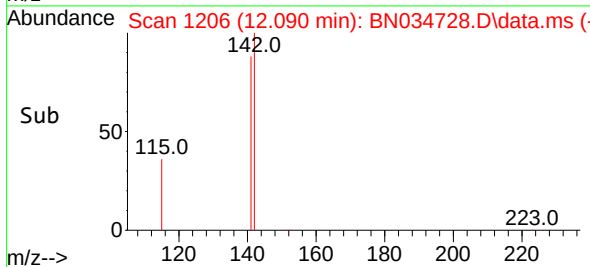
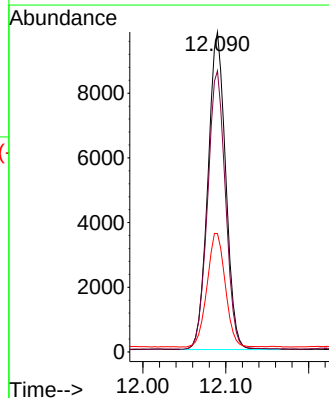
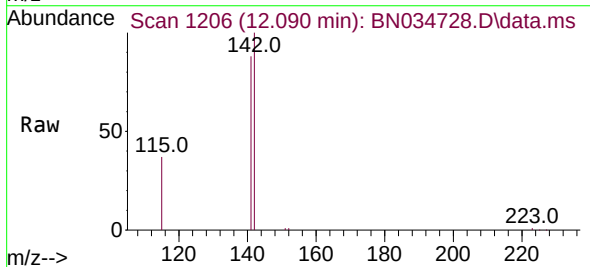
Manual Integrations
APPROVED

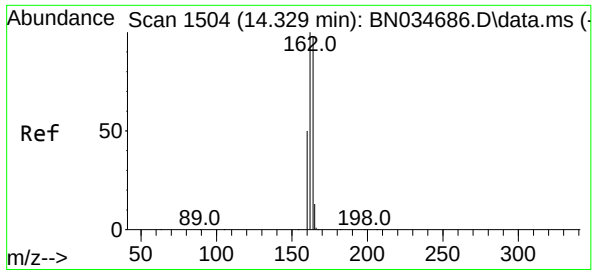
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.090 min Scan# 1206
Delta R.T. -0.057 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

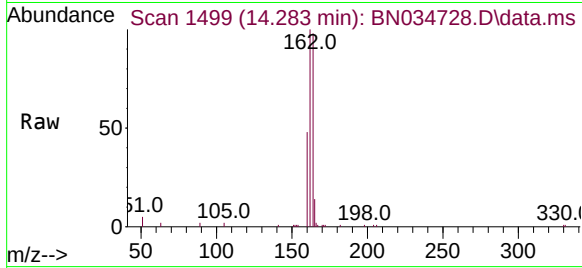
Tgt Ion:142 Resp: 14677
Ion Ratio Lower Upper
142 100
141 87.8 70.4 105.6
115 37.0 29.8 44.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 1499
Delta R.T. -0.046 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

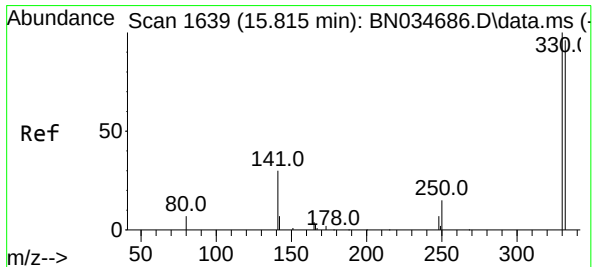
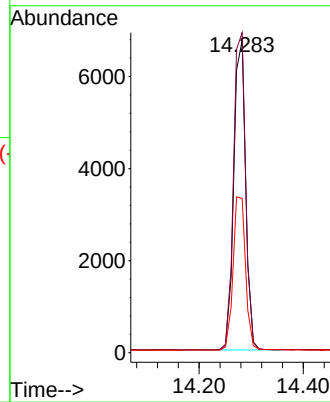
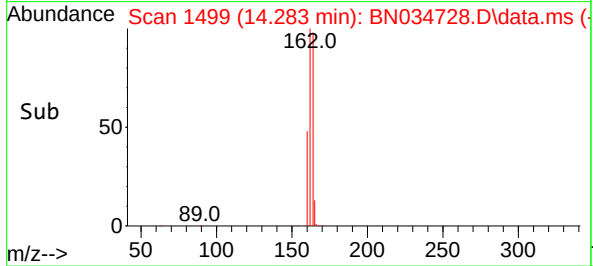
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



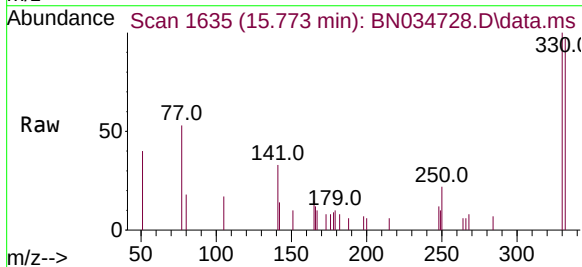
Tgt Ion:164 Resp: 1065
Ion Ratio Lower Upper
164 100
162 102.5 81.4 122.0
160 49.4 40.6 61.0

Manual Integrations
APPROVED

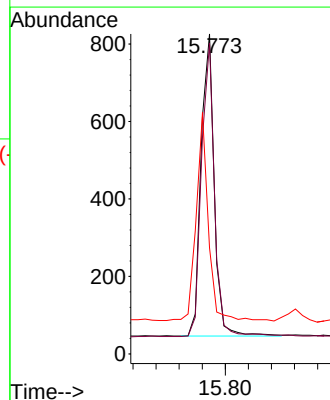
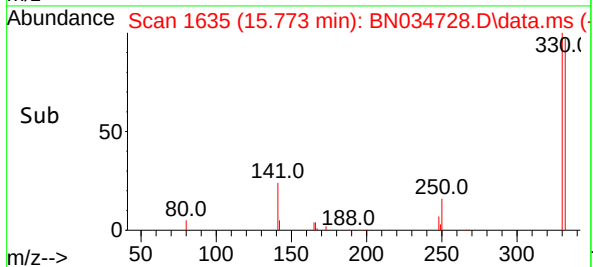
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

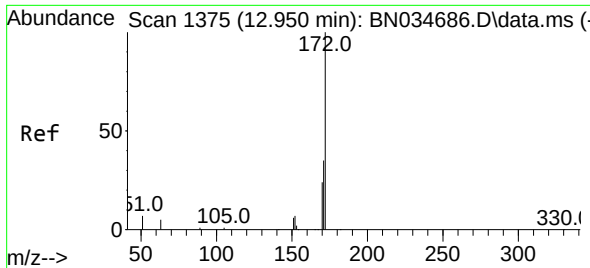


#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.773 min Scan# 1635
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16



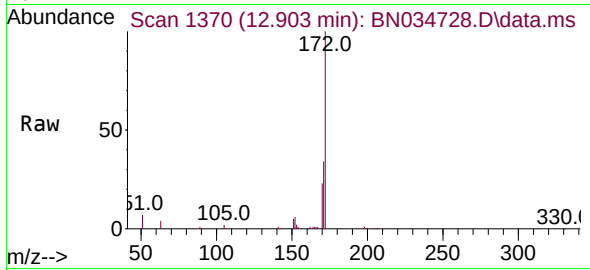
Tgt Ion:330 Resp: 1241
Ion Ratio Lower Upper
330 100
332 95.9 76.6 115.0
141 62.4 54.6 81.8





#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.903 min Scan# 11
Delta R.T. -0.046 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

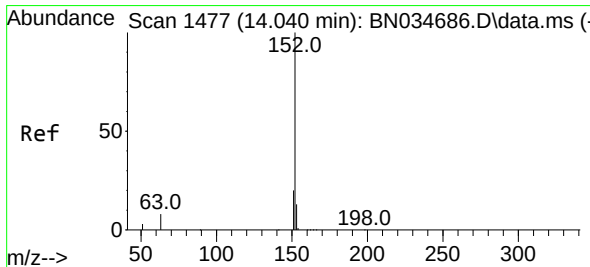
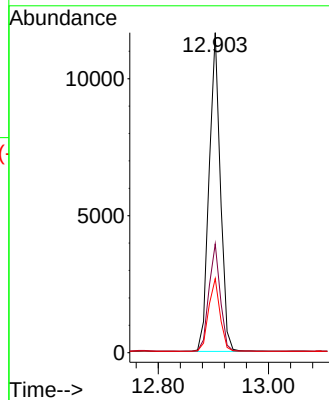
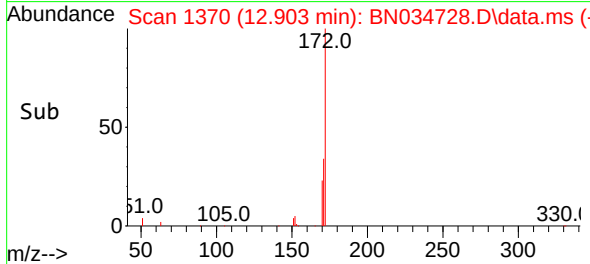
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:172 Resp: 1655
Ion Ratio Lower Upper
172 100
171 34.0 28.3 42.5
170 23.2 19.8 29.6

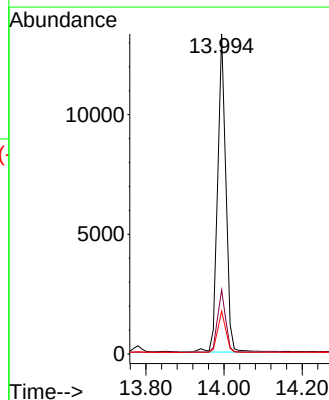
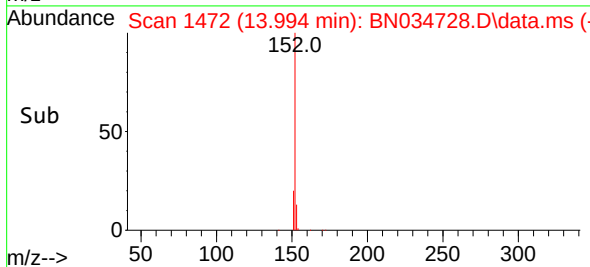
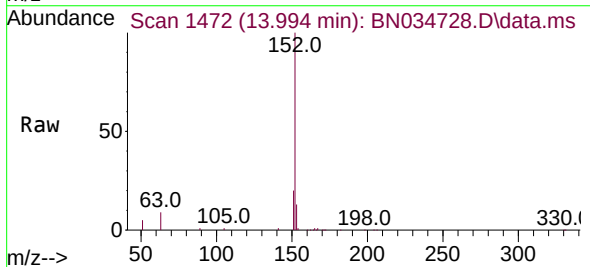
Manual Integrations
APPROVED

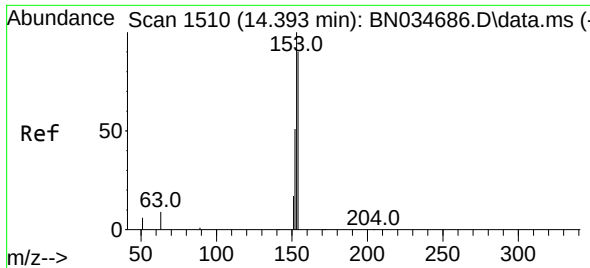
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.994 min Scan# 1472
Delta R.T. -0.046 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:152 Resp: 19500
Ion Ratio Lower Upper
152 100
151 19.4 15.6 23.4
153 13.0 10.6 15.8





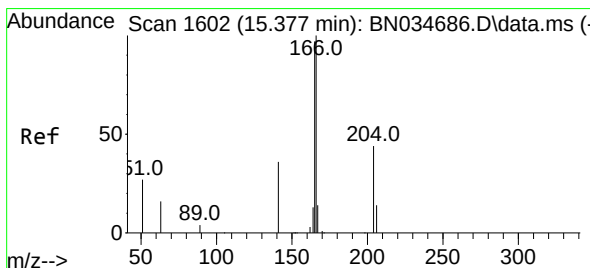
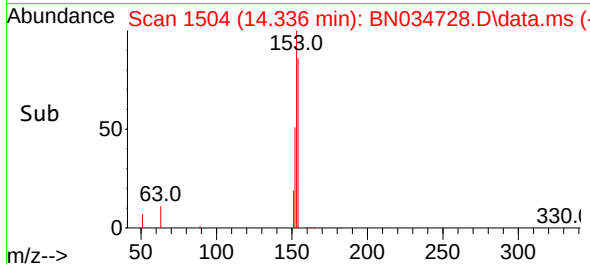
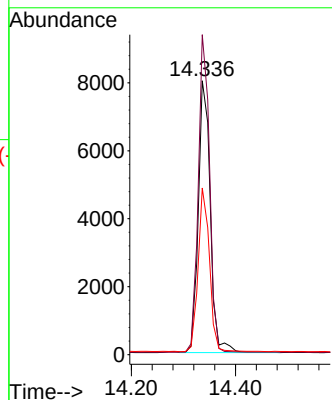
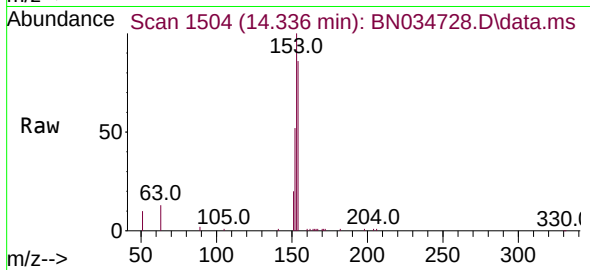
#17
Acenaphthene
Concen: 0.362 ng
RT: 14.336 min Scan# 1510
Delta R.T. -0.057 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

Tgt Ion:154 Resp: 1275
Ion Ratio Lower Upper
154 100
153 110.8 88.2 132.2
152 57.1 46.9 70.3

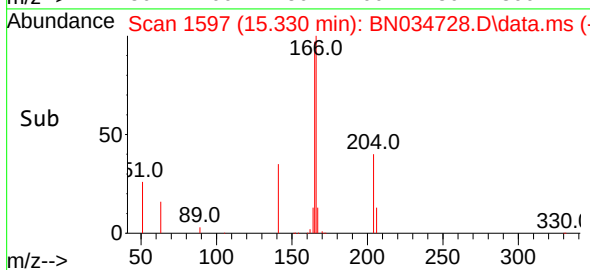
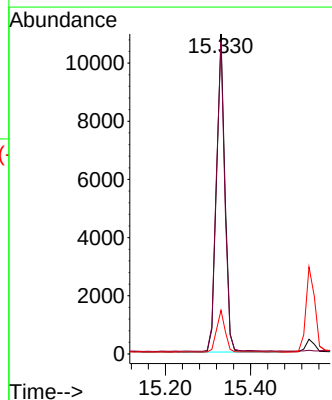
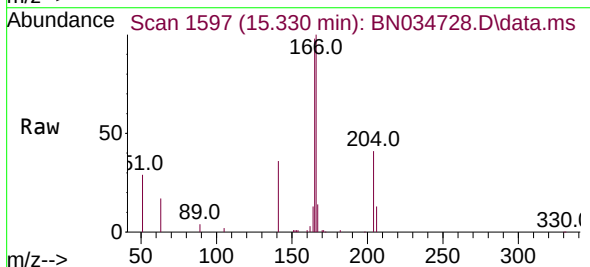
Manual Integrations
APPROVED

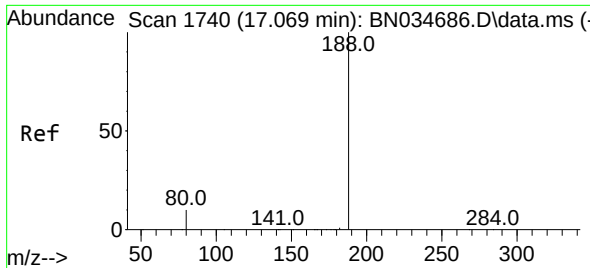
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#18
Fluorene
Concen: 0.346 ng
RT: 15.330 min Scan# 1597
Delta R.T. -0.046 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:166 Resp: 15063
Ion Ratio Lower Upper
166 100
165 97.3 78.8 118.2
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.026 min Scan# 11

Delta R.T. -0.043 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

Instrument :

BNA_N

ClientSampleId :

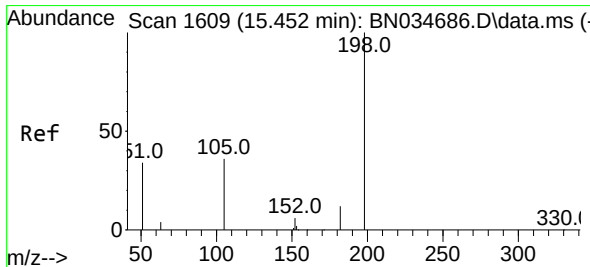
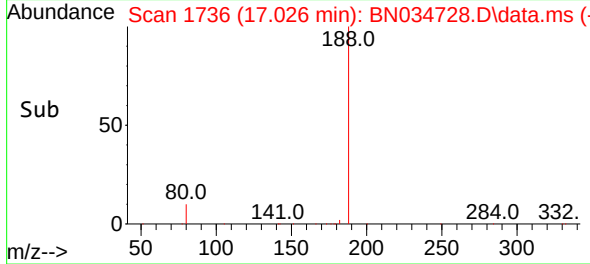
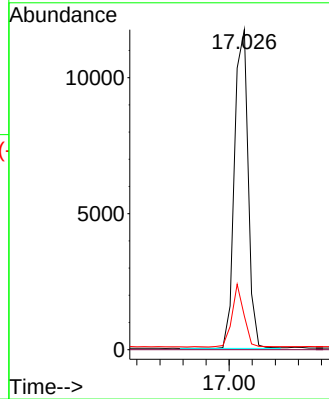
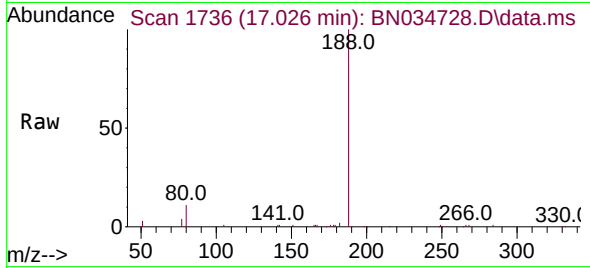
PB164409BSD

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.9	13.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.319 ng

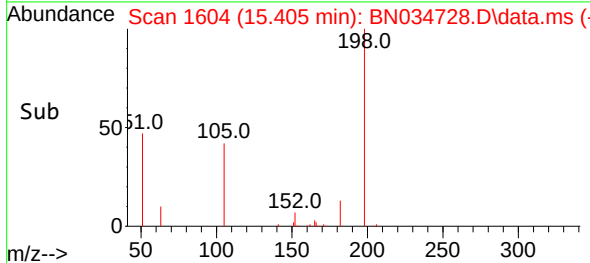
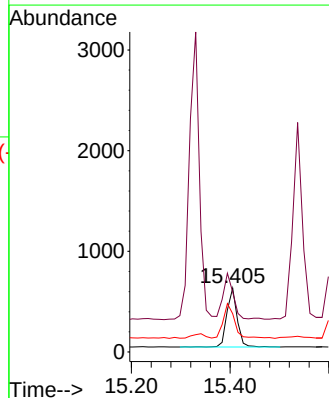
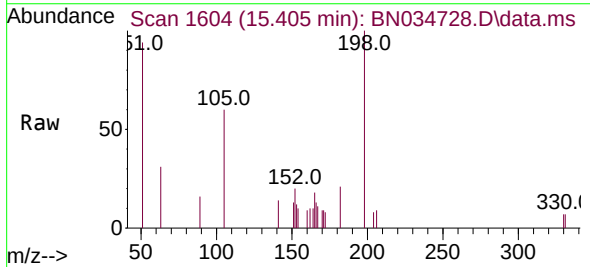
RT: 15.405 min Scan# 1604

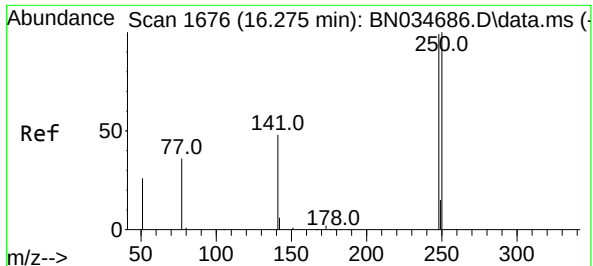
Delta R.T. -0.047 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

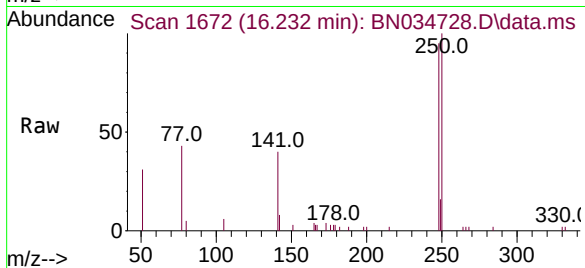
Tgt Ion	Ratio	Lower	Upper
198	100		
51	94.0	91.8	137.8
105	60.1	44.3	66.5





#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.232 min Scan# 1676
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

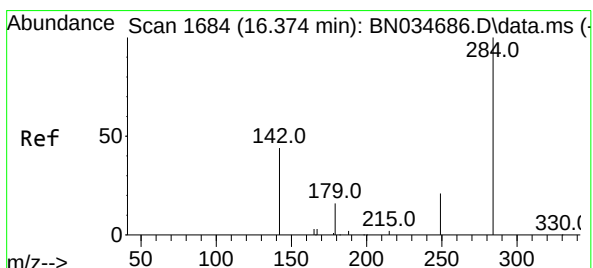
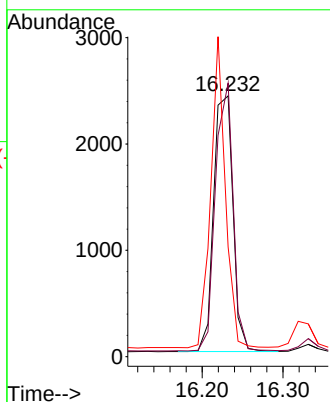
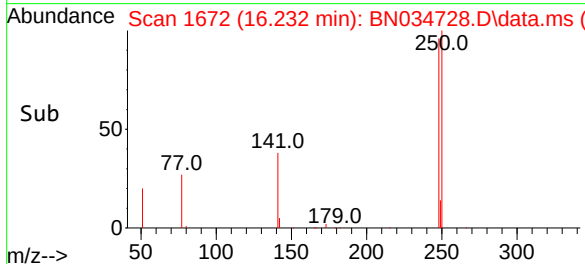
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



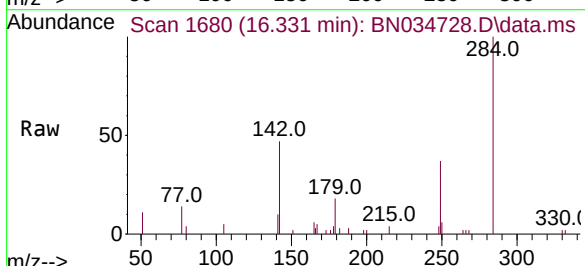
Tgt Ion:248 Resp: 399
Ion Ratio Lower Upper
248 100
250 104.9 80.9 121.3
141 42.1 40.5 60.7

Manual Integrations
APPROVED

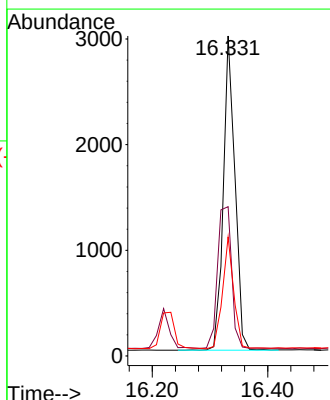
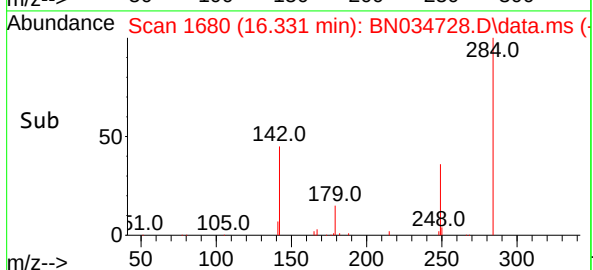
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

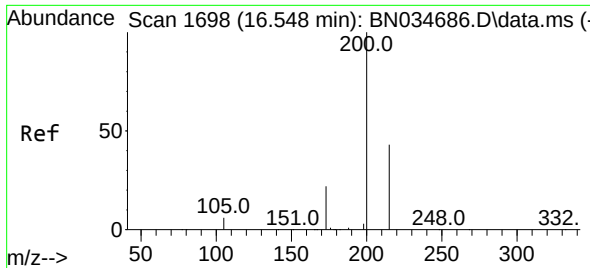


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.331 min Scan# 1680
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16



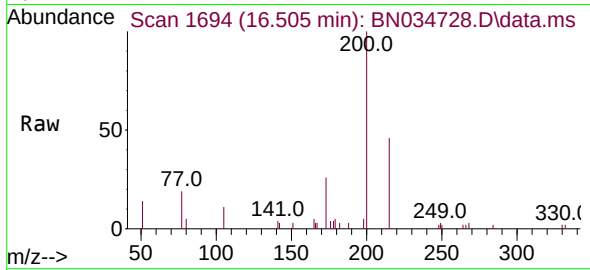
Tgt Ion:284 Resp: 4170
Ion Ratio Lower Upper
284 100
142 55.4 43.6 65.4
249 34.7 26.6 40.0





#23
Atrazine
Concen: 0.405 ng
RT: 16.505 min Scan# 1708
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

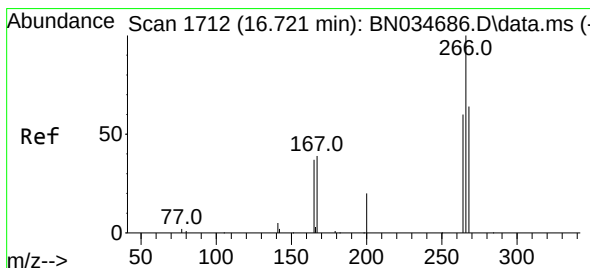
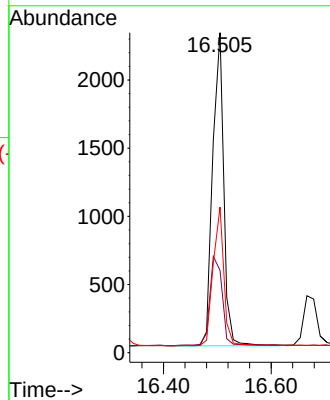
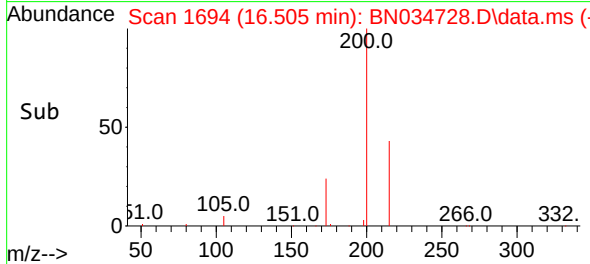
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:200 Resp: 326
Ion Ratio Lower Upper
200 100
173 25.7 19.7 29.5
215 45.5 35.7 53.5

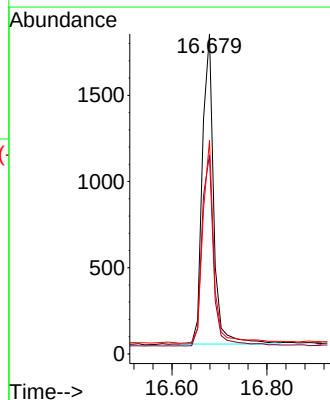
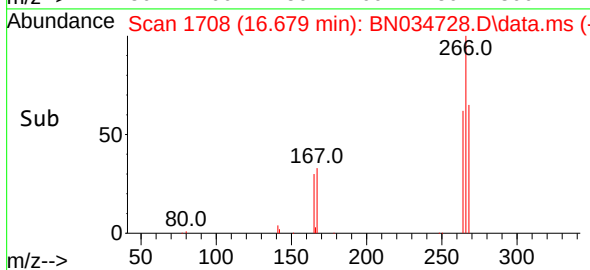
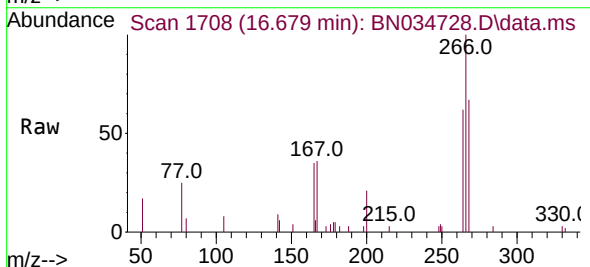
Manual Integrations
APPROVED

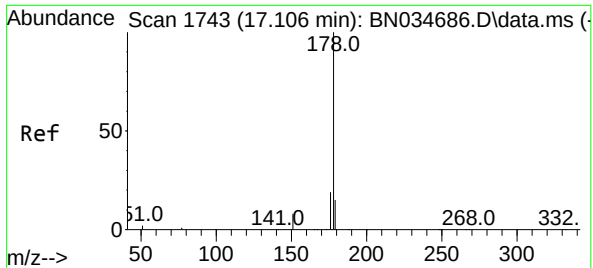
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#24
Pentachlorophenol
Concen: 0.760 ng
RT: 16.679 min Scan# 1708
Delta R.T. -0.042 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

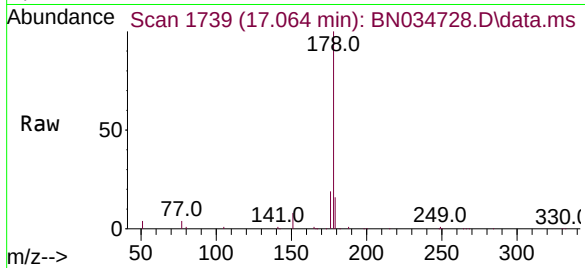
Tgt Ion:266 Resp: 2988
Ion Ratio Lower Upper
266 100
264 63.9 49.4 74.2
268 64.5 50.5 75.7





#25
Phenanthrene
Concen: 0.384 ng
RT: 17.064 min Scan# 1743
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

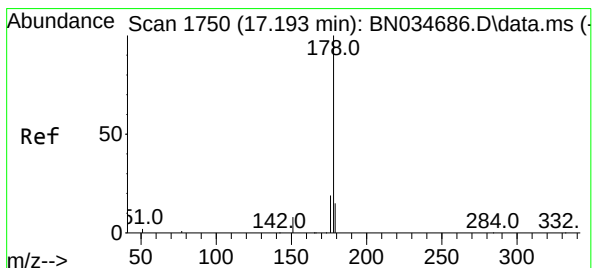
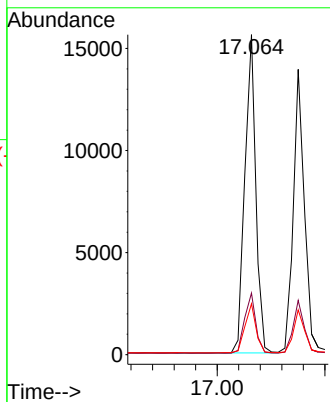
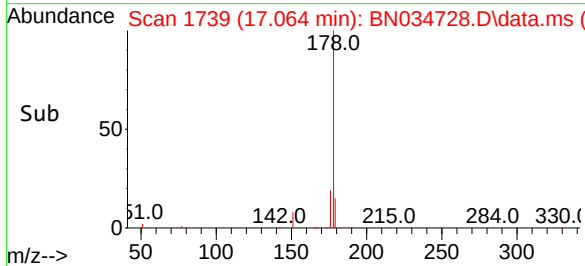
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:178 Resp: 2214
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.3 12.2 18.4

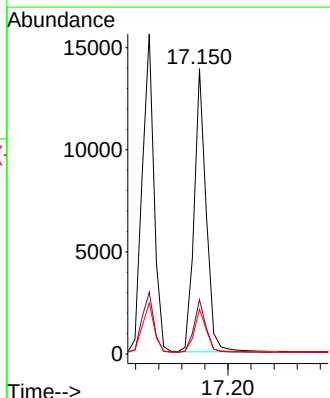
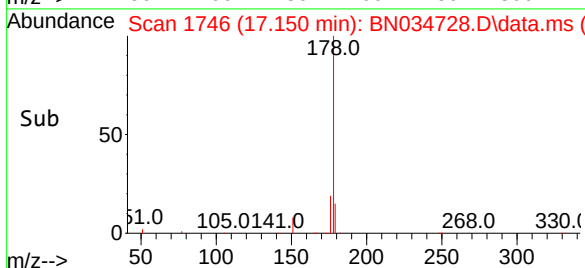
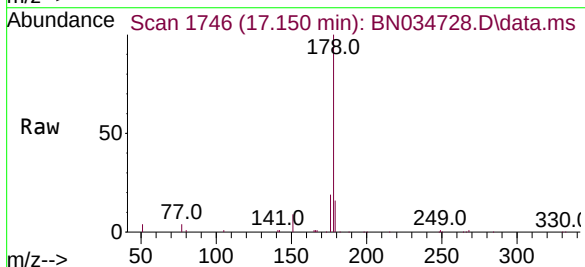
Manual Integrations
APPROVED

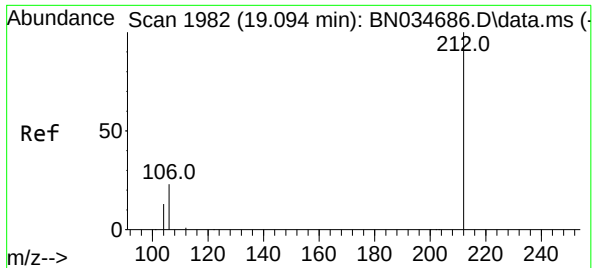
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#26
Anthracene
Concen: 0.390 ng
RT: 17.150 min Scan# 1746
Delta R.T. -0.043 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

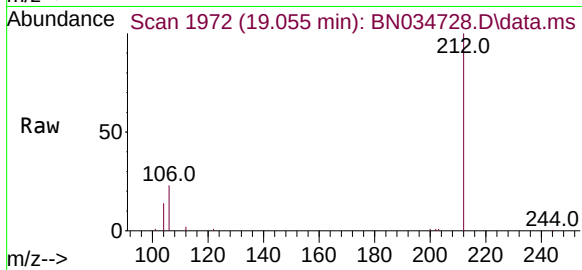
Tgt Ion:178 Resp: 19966
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.4 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.055 min Scan# 1972
Delta R.T. -0.039 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

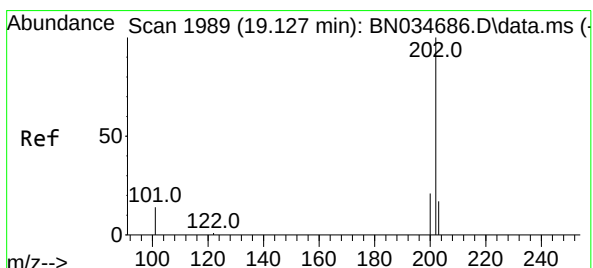
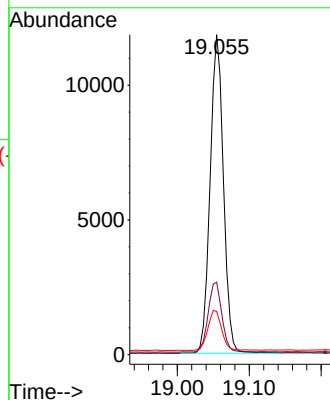
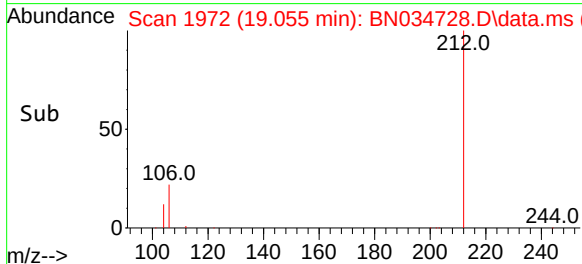
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



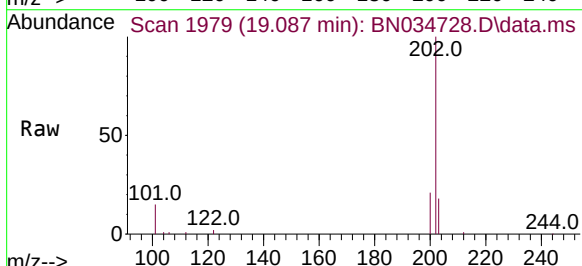
Tgt Ion:212 Resp: 15149
Ion Ratio Lower Upper
212 100
106 22.6 17.8 26.8
104 13.1 10.2 15.4

Manual Integrations
APPROVED

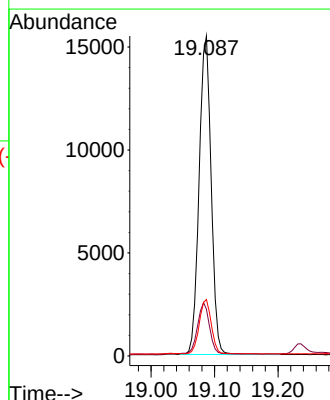
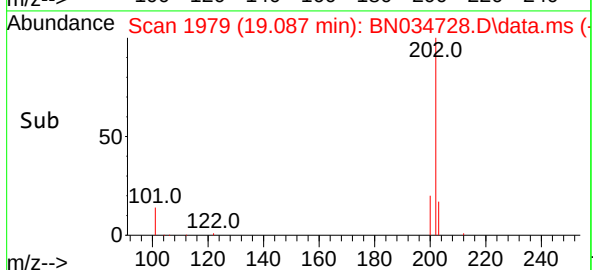
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024

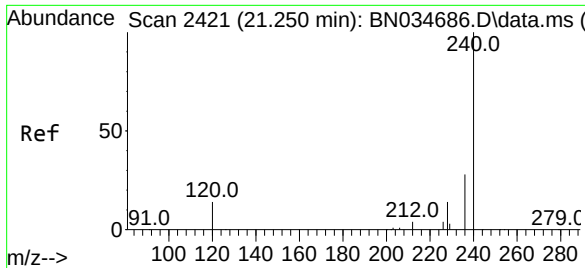


#28
Fluoranthene
Concen: 0.338 ng
RT: 19.087 min Scan# 1979
Delta R.T. -0.039 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16



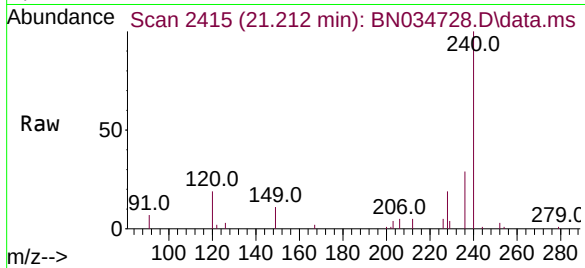
Tgt Ion:202 Resp: 20378
Ion Ratio Lower Upper
202 100
101 16.6 12.8 19.2
203 17.1 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2421
Delta R.T. -0.038 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

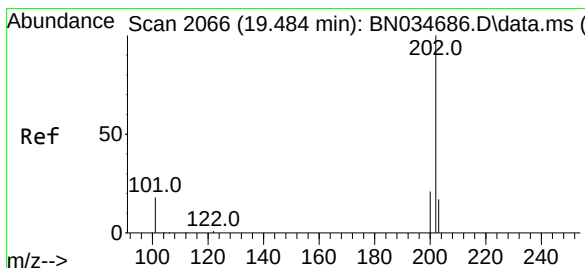
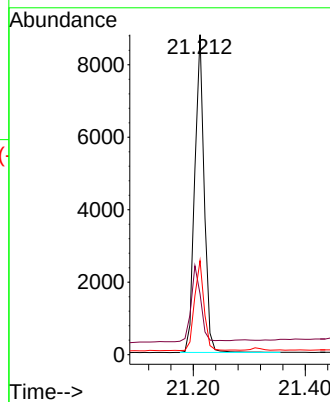
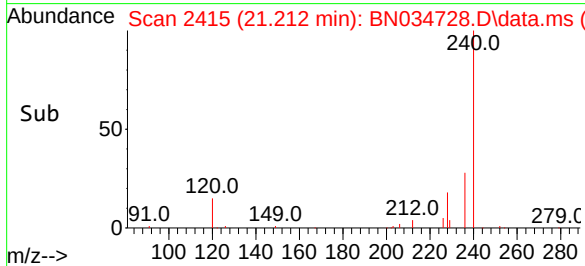
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:240 Resp: 10270
Ion Ratio Lower Upper
240 100
120 19.0 14.2 21.2
236 29.4 23.1 34.7

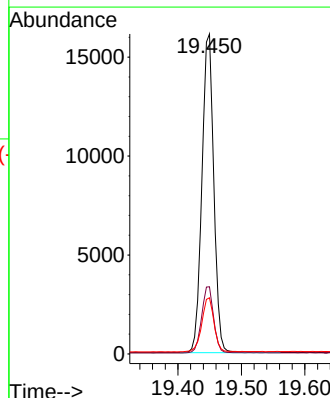
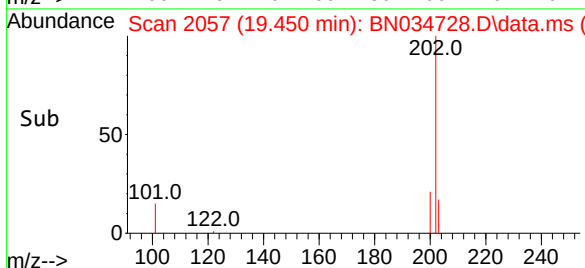
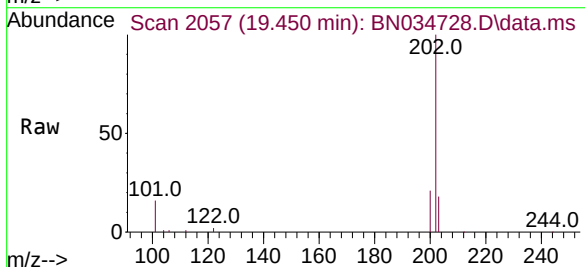
Manual Integrations
APPROVED

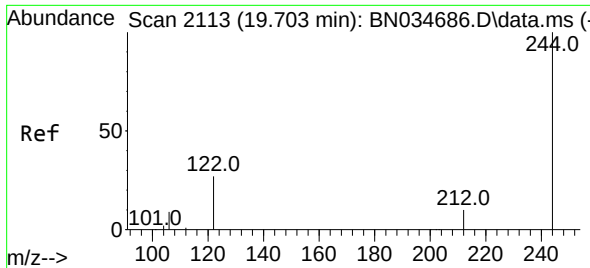
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#30
Pyrene
Concen: 0.396 ng
RT: 19.450 min Scan# 2057
Delta R.T. -0.035 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

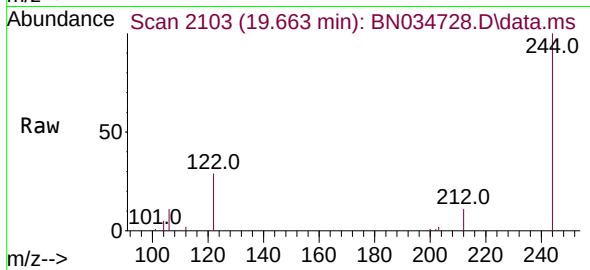
Tgt Ion:202 Resp: 20914
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.5 14.2 21.4





#31
Terphenyl-d14
Concen: 0.473 ng
RT: 19.663 min Scan# 2113
Delta R.T. -0.039 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

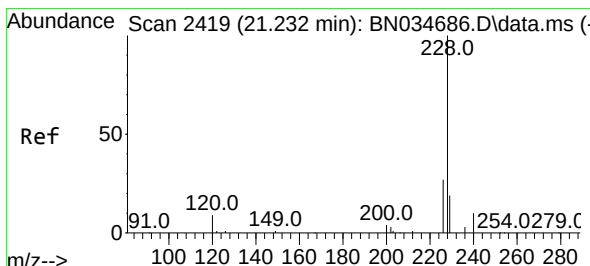
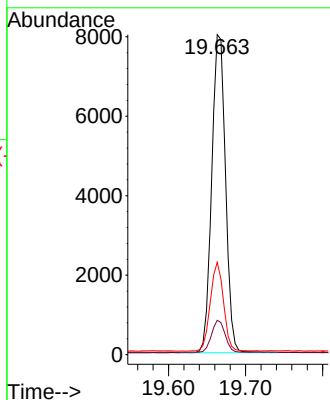
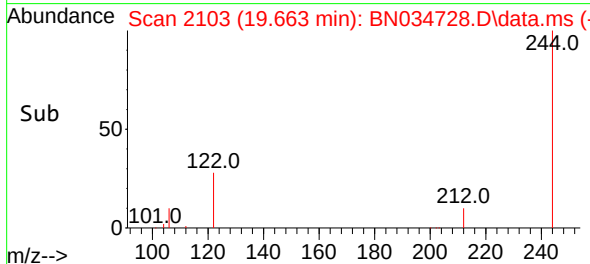
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:244 Resp: 9920
Ion Ratio Lower Upper
244 100
212 10.7 8.6 13.0
122 28.9 22.3 33.5

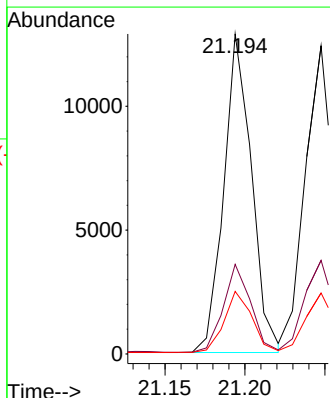
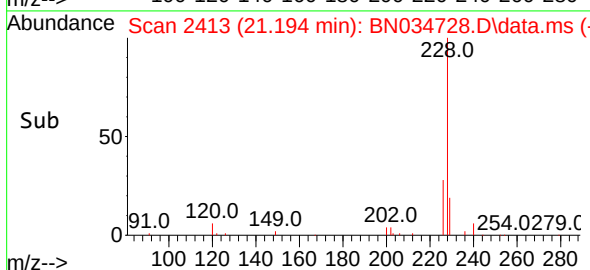
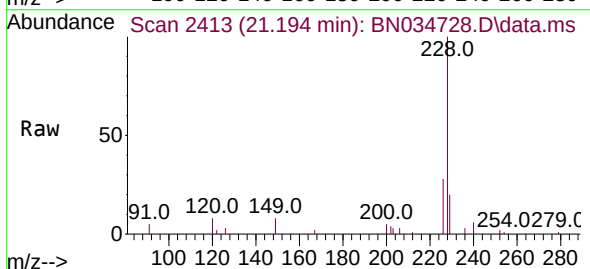
Manual Integrations
APPROVED

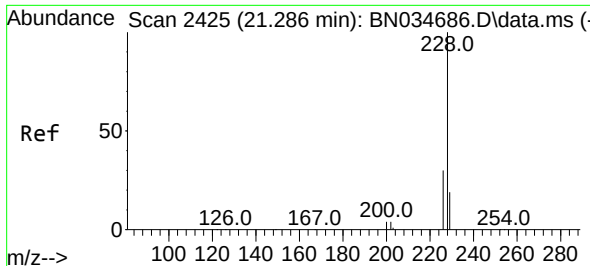
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#32
Benzo(a)anthracene
Concen: 0.395 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.038 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:228 Resp: 15505
Ion Ratio Lower Upper
228 100
226 28.0 22.0 33.0
229 19.6 15.6 23.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.248 min Scan# 2419

Delta R.T. -0.038 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

Instrument :

BNA_N

ClientSampleId :

PB164409BSD

Tgt Ion:228 Resp: 1583

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

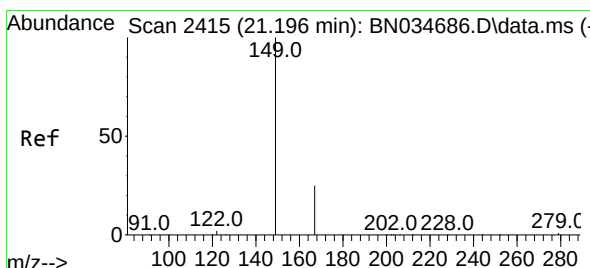
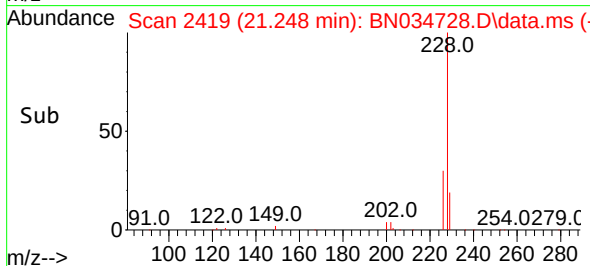
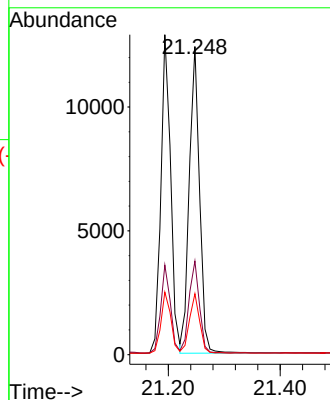
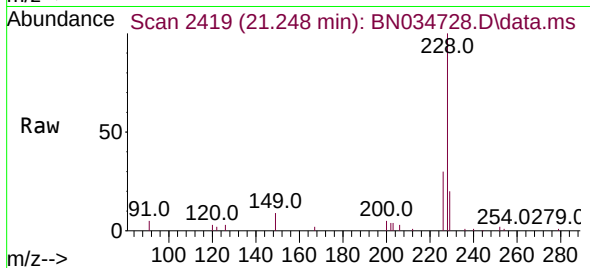
229 19.8 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.470 ng

RT: 21.158 min Scan# 2409

Delta R.T. -0.038 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

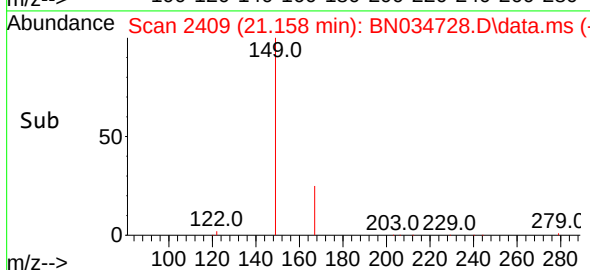
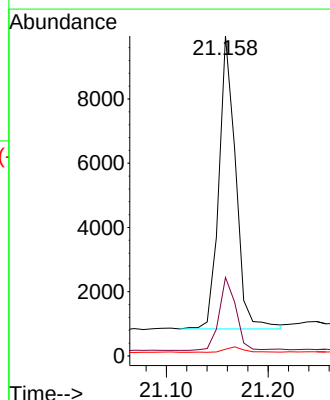
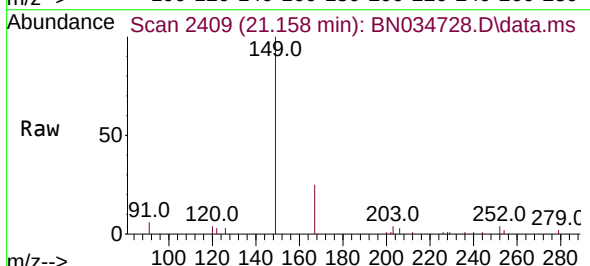
Tgt Ion:149 Resp: 10465

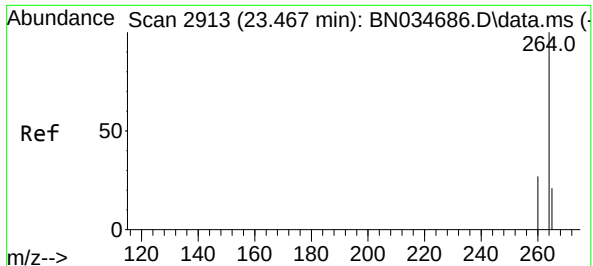
Ion Ratio Lower Upper

149 100

167 24.8 19.7 29.5

279 2.0 1.8 2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.052 min

Lab File: BN034728.D

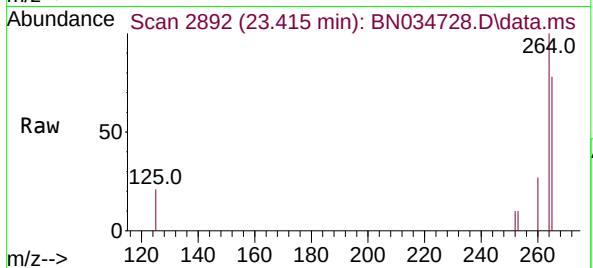
Acq: 25 Oct 2024 18:16

Instrument :

BNA_N

ClientSampleId :

PB164409BSD



Tgt Ion:264 Resp: 1004

Ion Ratio Lower Upper

264 100

260 27.1 21.9 32.9

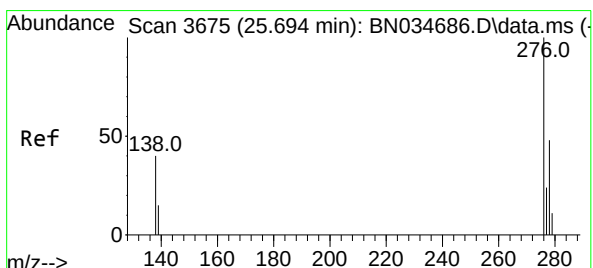
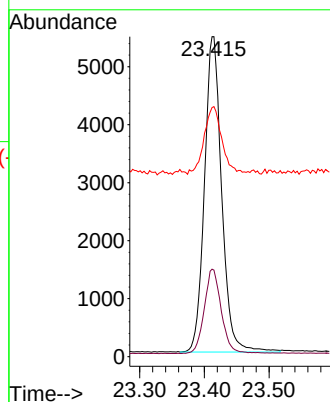
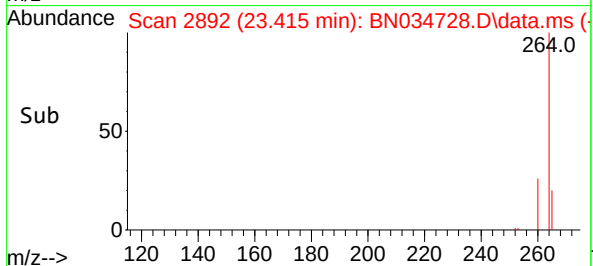
265 78.1 60.6 91.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.438 ng

RT: 25.613 min Scan# 3644

Delta R.T. -0.081 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

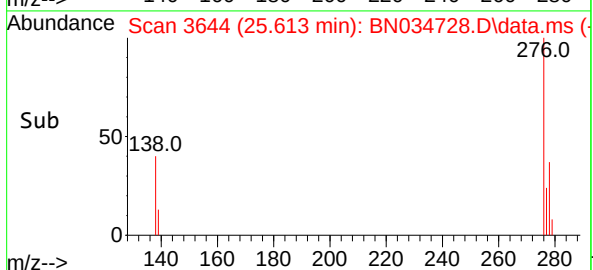
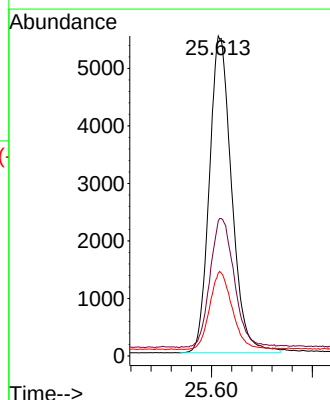
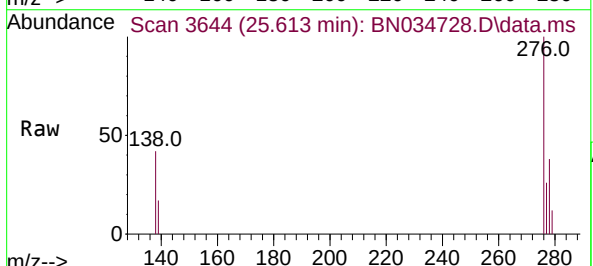
Tgt Ion:276 Resp: 16941

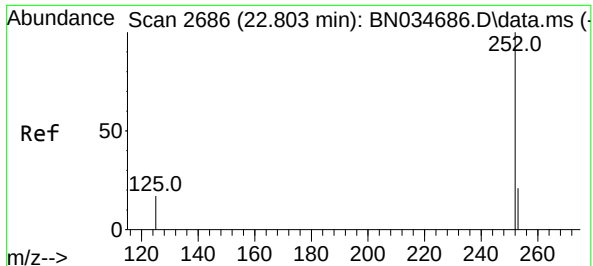
Ion Ratio Lower Upper

276 100

138 43.6 35.1 52.7

277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.757 min Scan# 2667

Delta R.T. -0.046 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

Instrument :

BNA_N

ClientSampleId :

PB164409BSD

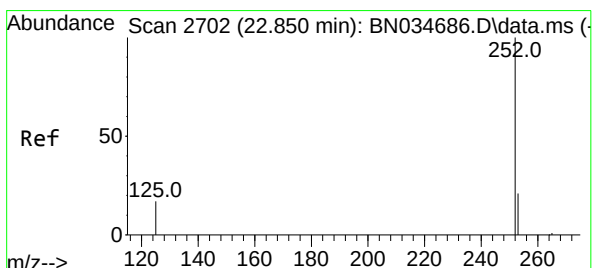
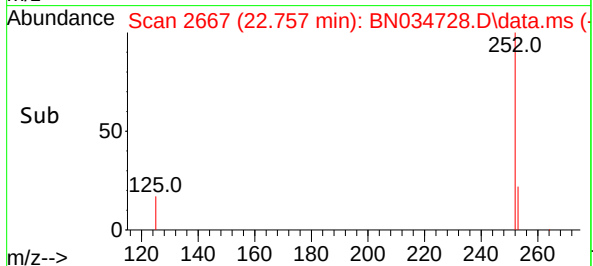
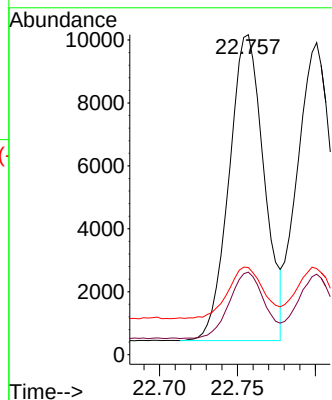
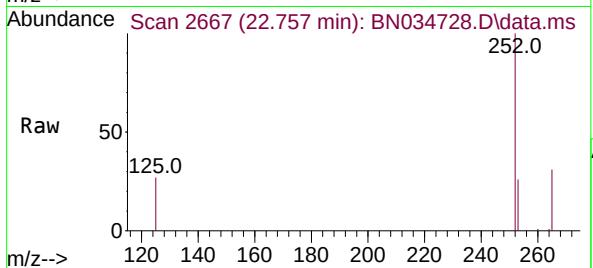
Tgt Ion:	252	Resp:	15194
Ion Ratio	Lower	Upper	
252	100		
253	25.8	20.0	30.0
125	27.2	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



#38

Benzo(k)fluoranthene

Concen: 0.385 ng

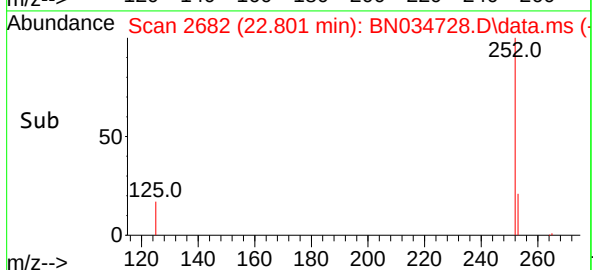
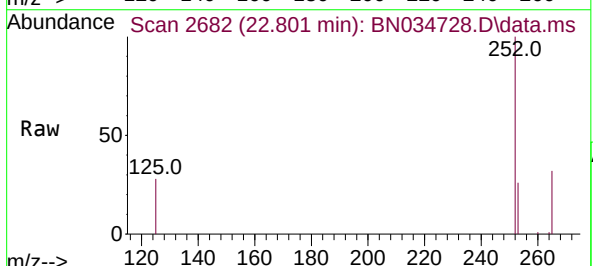
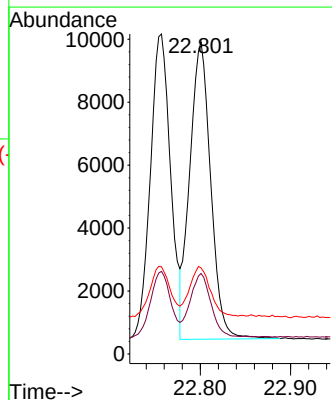
RT: 22.801 min Scan# 2682

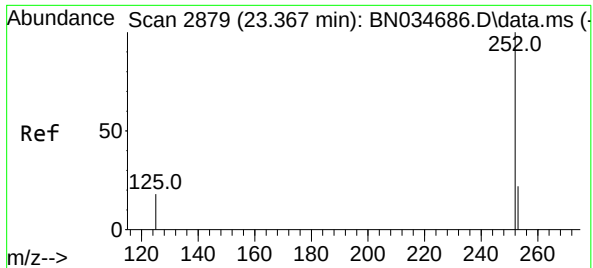
Delta R.T. -0.049 min

Lab File: BN034728.D

Acq: 25 Oct 2024 18:16

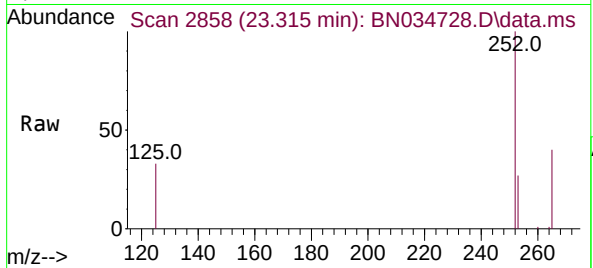
Tgt Ion:	252	Resp:	15226
Ion Ratio	Lower	Upper	
252	100		
253	25.8	20.6	31.0
125	27.6	21.6	32.4





#39
Benzo(a)pyrene
Concen: 0.431 ng
RT: 23.315 min Scan# 21
Delta R.T. -0.052 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

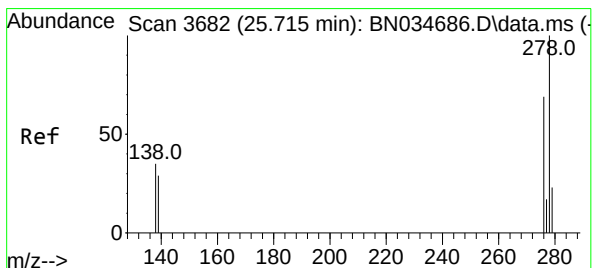
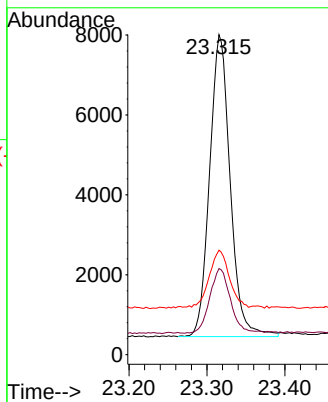
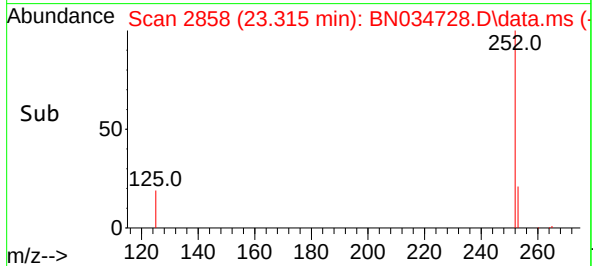
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:252 Resp: 1386
Ion Ratio Lower Upper
252 100
253 26.9 22.2 33.4
125 32.7 26.0 39.0

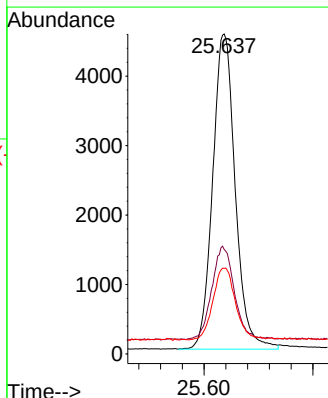
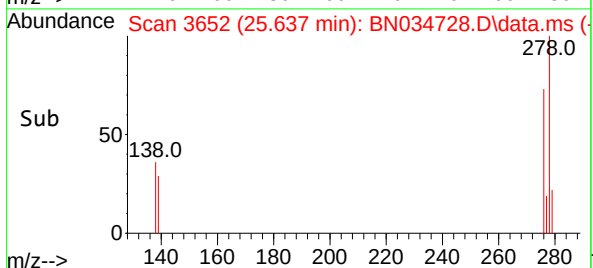
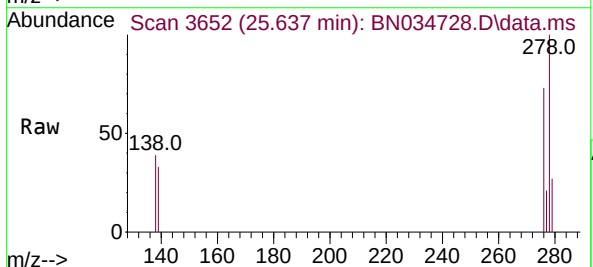
Manual Integrations
APPROVED

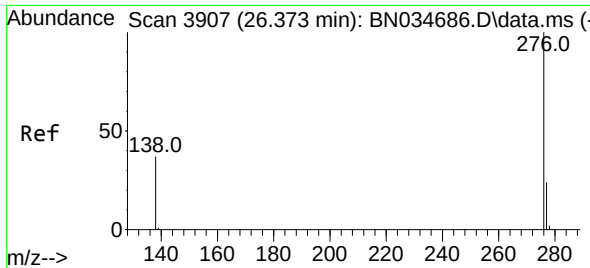
Reviewed By :Yogesh Patel 10/26/2024
Supervised By :mohammad ahmed 10/28/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.428 ng
RT: 25.637 min Scan# 3652
Delta R.T. -0.078 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:278 Resp: 13054
Ion Ratio Lower Upper
278 100
139 32.7 25.4 38.2
279 26.7 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.286 min Scan# 30

Delta R.T. -0.087 min

Lab File: BN034728.D

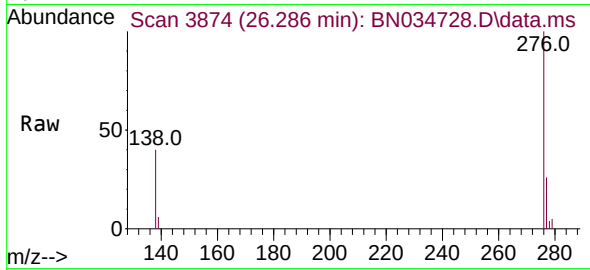
Acq: 25 Oct 2024 18:16

Instrument :

BNA_N

ClientSampleId :

PB164409BSD



Tgt Ion:276 Resp: 13399

Ion Ratio Lower Upper

276 100

277 26.1 21.3 31.9

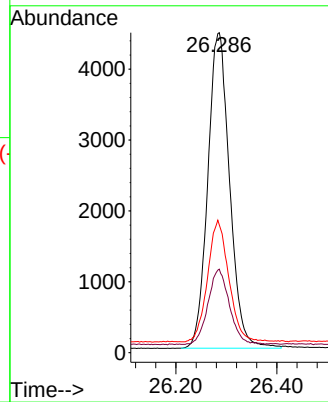
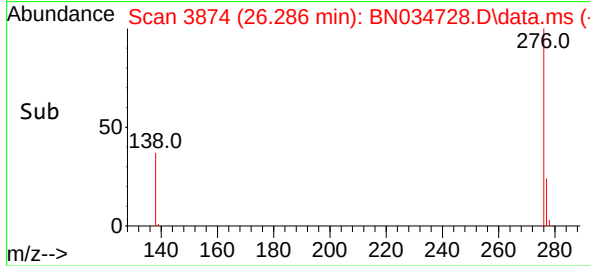
138 40.0 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2024

Supervised By :mohammad ahmed 10/28/2024



Manual Integration Report

Sequence:	BN102424	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.8	BN034687.D	Benzo(b)fluoranthene	yogesh	10/25/2024 11:48:33 PM	mohammad	10/26/2024 4:13:48 AM	Peak Integrated by Software
SSTDICV0.4	BN034691.D	Bis(2-ethylhexyl)phthalate	yogesh	10/25/2024 11:48:35 PM	mohammad	10/26/2024 4:13:48 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN102524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164409BS	BN034727.D	2-Methylnaphthalene-d10	yogesh	10/28/2024 2:43:04 AM	mohammad	10/28/2024 3:13:44 AM	Peak Integrated by Software
PB164409BSD	BN034728.D	2-Methylnaphthalene-d10	yogesh	10/26/2024 12:00:47 AM	mohammad	10/28/2024 3:13:44 AM	Peak Integrated by Software
P4550-05	BN034730.D	Anthracene	yogesh	10/26/2024 12:00:54 AM	mohammad	10/28/2024 3:13:44 AM	Peak Integrated by Software
P4550-05	BN034730.D	Phenanthrene	yogesh	10/26/2024 12:00:54 AM	mohammad	10/28/2024 3:13:44 AM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102424

Review By	yogesh	Review On	10/25/2024 11:49:23 PM
Supervise By	mohammad	Supervise On	10/26/2024 4:13:48 AM
SubDirectory	BN102424	HP Acquire Method	BNA_N
		HP Processing Method	bn102424
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	BN034683.D	24 Oct 2024 07:59	RC/JU	Ok
2	SSTDIC0.1	BN034684.D	24 Oct 2024 09:11	RC/JU	Ok
3	SSTDIC0.2	BN034685.D	24 Oct 2024 09:47	RC/JU	Ok
4	SSTDIC0.4	BN034686.D	24 Oct 2024 10:23	RC/JU	Ok
5	SSTDIC0.8	BN034687.D	24 Oct 2024 10:59	RC/JU	Ok,M
6	SSTDIC1.6	BN034688.D	24 Oct 2024 11:35	RC/JU	Ok
7	SSTDIC3.2	BN034689.D	24 Oct 2024 12:11	RC/JU	Ok
8	SSTDIC5.0	BN034690.D	24 Oct 2024 12:48	RC/JU	Ok
9	SSTDICV0.4	BN034691.D	24 Oct 2024 14:14	RC/JU	Ok,M
10	PB164229BL	BN034692.D	24 Oct 2024 14:50	RC/JU	Ok
11	P4428-01	BN034693.D	24 Oct 2024 15:28	RC/JU	Ok
12	PB164229BS	BN034694.D	24 Oct 2024 16:05	RC/JU	Ok
13	P4428-03	BN034695.D	24 Oct 2024 16:41	RC/JU	Ok
14	P4428-04	BN034696.D	24 Oct 2024 17:18	RC/JU	Ok
15	P4475-04	BN034697.D	24 Oct 2024 17:54	RC/JU	Ok
16	P4475-06	BN034698.D	24 Oct 2024 18:30	RC/JU	Ok
17	SSTDIC0.4	BN034699.D	24 Oct 2024 19:06	RC/JU	Ok
18	DFTPP	BN034700.D	24 Oct 2024 20:22	RC/JU	Ok
19	SSTDIC0.4	BN034701.D	24 Oct 2024 21:01	RC/JU	Ok
20	PB164230BL	BN034702.D	24 Oct 2024 21:38	RC/JU	Ok
21	PB164323BL	BN034703.D	24 Oct 2024 22:14	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102424

Review By	yogesh	Review On	10/25/2024 11:49:23 PM		
Supervise By	mohammad	Supervise On	10/26/2024 4:13:48 AM		
SubDirectory	BN102424	HP Acquire Method	BNA_N	HP Processing Method	bn102424
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					

22	PB164229BSD	BN034704.D	24 Oct 2024 22:50	RC/JU	Ok
23	PB164282BL	BN034705.D	24 Oct 2024 23:26	RC/JU	Ok
24	PB164282BS	BN034706.D	25 Oct 2024 00:02	RC/JU	Ok,M
25	PB164230BS	BN034707.D	25 Oct 2024 00:38	RC/JU	Ok,M
26	PB164323BS	BN034708.D	25 Oct 2024 01:14	RC/JU	Ok,M
27	PB164323BSD	BN034709.D	25 Oct 2024 01:50	RC/JU	Ok,M
28	P4428-02	BN034710.D	25 Oct 2024 02:26	RC/JU	Ok
29	PB164282BSD	BN034711.D	25 Oct 2024 03:02	RC/JU	Ok,M
30	P4438-03	BN034712.D	25 Oct 2024 03:38	RC/JU	ReRun
31	P4438-04	BN034713.D	25 Oct 2024 04:14	RC/JU	Ok
32	P4438-05	BN034714.D	25 Oct 2024 04:51	RC/JU	Ok
33	P4438-06	BN034715.D	25 Oct 2024 05:27	RC/JU	Ok
34	P4438-07	BN034716.D	25 Oct 2024 06:03	RC/JU	Ok
35	P4440-01	BN034717.D	25 Oct 2024 06:39	RC/JU	ReRun
36	P4432-01	BN034718.D	25 Oct 2024 07:15	RC/JU	Not Ok
37	SSTDCCC0.4	BN034719.D	25 Oct 2024 07:51	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102524

Review By	yogesh	Review On	10/26/2024 12:01:15 AM
Supervise By	mohammad	Supervise On	10/28/2024 3:13:44 AM
SubDirectory	BN102524	HP Acquire Method	BNA_N
		HP Processing Method	bn102424
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	BN034720.D	25 Oct 2024 09:07	RC/JU	Ok
2	SSTDCCC0.4	BN034721.D	25 Oct 2024 09:46	RC/JU	Ok
3	PB164323BL	BN034722.D	25 Oct 2024 10:22	RC/JU	Ok
4	P4438-03RE	BN034723.D	25 Oct 2024 10:58	RC/JU	Confirms
5	P4440-01RE	BN034724.D	25 Oct 2024 11:34	RC/JU	Confirms
6	PB164409BL	BN034725.D	25 Oct 2024 16:28	RC/JU	Not Ok
7	PB164409BL	BN034726.D	25 Oct 2024 17:04	RC/JU	Ok
8	PB164409BS	BN034727.D	25 Oct 2024 17:40	RC/JU	Ok,M
9	PB164409BSD	BN034728.D	25 Oct 2024 18:16	RC/JU	Ok,M
10	P4550-02	BN034729.D	25 Oct 2024 18:53	RC/JU	ReRun
11	P4550-05	BN034730.D	25 Oct 2024 19:29	RC/JU	Ok,M
12	P4550-09	BN034731.D	25 Oct 2024 20:05	RC/JU	Ok
13	SSTDCCC0.4	BN034732.D	25 Oct 2024 20:41	RC/JU	Ok
14	DFTPP	BN034733.D	26 Oct 2024 09:37	RC/JU	Ok
15	SSTDCCC0.4	BN034734.D	26 Oct 2024 10:16	RC/JU	Ok
16	PB164409BL	BN034735.D	26 Oct 2024 10:52	RC/JU	Ok
17	P4550-11	BN034736.D	26 Oct 2024 11:28	RC/JU	Ok
18	P4550-02RE	BN034737.D	26 Oct 2024 12:05	RC/JU	Confirms
19	SSTDCCC0.4	BN034738.D	26 Oct 2024 12:41	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102424

Review By	yogesh	Review On	10/25/2024 11:49:23 PM
Supervise By	mohammad	Supervise On	10/26/2024 4:13:48 AM
SubDirectory	BN102424	HP Acquire Method	BNA_N
		HP Processing Method	bn102424

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	BN034683.D	24 Oct 2024 07:59		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN034684.D	24 Oct 2024 09:11	Compound#20,24 removed from 0.1 ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN034685.D	24 Oct 2024 09:47		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN034686.D	24 Oct 2024 10:23	Calibration Good for DOD & Non-DOD both	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN034687.D	24 Oct 2024 10:59		RC/JU	Ok,M
6	SSTDICC1.6	SSTDICC1.6	BN034688.D	24 Oct 2024 11:35		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN034689.D	24 Oct 2024 12:11		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN034690.D	24 Oct 2024 12:48		RC/JU	Ok
9	SSTDICV0.4	ICVBN102424	BN034691.D	24 Oct 2024 14:14		RC/JU	Ok,M
10	PB164229BL	PB164229BL	BN034692.D	24 Oct 2024 14:50	USE For Only P4428	RC/JU	Ok
11	P4428-01	RW7-SP100-20241016	BN034693.D	24 Oct 2024 15:28		RC/JU	Ok
12	PB164229BS	PB164229BS	BN034694.D	24 Oct 2024 16:05	USE For Only P4428	RC/JU	Ok
13	P4428-03	RW7-SP302-20241016	BN034695.D	24 Oct 2024 16:41		RC/JU	Ok
14	P4428-04	RW7-SP303-20241016	BN034696.D	24 Oct 2024 17:18		RC/JU	Ok
15	P4475-04	BP-VPB-190-GW-238-2	BN034697.D	24 Oct 2024 17:54		RC/JU	Ok
16	P4475-06	BP-VPB-190-GW-278-2	BN034698.D	24 Oct 2024 18:30		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN034699.D	24 Oct 2024 19:06		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102424

Review By	yogesh	Review On	10/25/2024 11:49:23 PM		
Supervise By	mohammad	Supervise On	10/26/2024 4:13:48 AM		
SubDirectory	BN102424	HP Acquire Method	BNA_N	HP Processing Method	bn102424
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					

18	DFTPP	DFTPP	BN034700.D	24 Oct 2024 20:22		RC/JU	Ok
19	SSTDCCC0.4	SSTDCCC0.4	BN034701.D	24 Oct 2024 21:01		RC/JU	Ok
20	PB164230BL	PB164230BL	BN034702.D	24 Oct 2024 21:38	USE For Only P4432	RC/JU	Ok
21	PB164323BL	PB164323BL	BN034703.D	24 Oct 2024 22:14		RC/JU	Ok
22	PB164229BSD	PB164229BSD	BN034704.D	24 Oct 2024 22:50		RC/JU	Ok
23	PB164282BL	PB164282BL	BN034705.D	24 Oct 2024 23:26		RC/JU	Ok
24	PB164282BS	PB164282BS	BN034706.D	25 Oct 2024 00:02		RC/JU	Ok,M
25	PB164230BS	PB164230BS	BN034707.D	25 Oct 2024 00:38	USE For Only P4432	RC/JU	Ok,M
26	PB164323BS	PB164323BS	BN034708.D	25 Oct 2024 01:14		RC/JU	Ok,M
27	PB164323BSD	PB164323BSD	BN034709.D	25 Oct 2024 01:50		RC/JU	Ok,M
28	P4428-02	RW7-SP201-20241016	BN034710.D	25 Oct 2024 02:26		RC/JU	Ok
29	PB164282BSD	PB164282BSD	BN034711.D	25 Oct 2024 03:02		RC/JU	Ok,M
30	P4438-03	VPB190-HYD-2024101	BN034712.D	25 Oct 2024 03:38	Surrogate Fail	RC/JU	ReRun
31	P4438-04	BP-VPB-190-GW-58-60	BN034713.D	25 Oct 2024 04:14		RC/JU	Ok
32	P4438-05	BP-VPB-190-GW-98-10	BN034714.D	25 Oct 2024 04:51		RC/JU	Ok
33	P4438-06	BP-VPB-190-GW-158-1	BN034715.D	25 Oct 2024 05:27		RC/JU	Ok
34	P4438-07	BP-VPB-190-GW-198-2	BN034716.D	25 Oct 2024 06:03		RC/JU	Ok
35	P4440-01	BPOW6-11-HYD-20241	BN034717.D	25 Oct 2024 06:39	Surrogate Fail	RC/JU	ReRun
36	P4432-01	LOT-4078A	BN034718.D	25 Oct 2024 07:15	Need Straight Run	RC/JU	Not Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102424

Review By	yogesh	Review On	10/25/2024 11:49:23 PM					
Supervise By	mohammad	Supervise On	10/26/2024 4:13:48 AM					
SubDirectory	BN102424	HP Acquire Method	BNA_N	HP Processing Method	bn102424			
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								

37	SSTDCCC0.4	SSTDCCC0.4EC	BN034719.D	25 Oct 2024 07:51		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102524

Review By	yogesh	Review On	10/26/2024 12:01:15 AM
Supervise By	mohammad	Supervise On	10/28/2024 3:13:44 AM
SubDirectory	BN102524	HP Acquire Method	BNA_N
		HP Processing Method	bn102424

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	BN034720.D	25 Oct 2024 09:07		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034721.D	25 Oct 2024 09:46		RC/JU	Ok
3	PB164323BL	PB164323BL	BN034722.D	25 Oct 2024 10:22		RC/JU	Ok
4	P4438-03RE	VPB190-HYD-2024101	BN034723.D	25 Oct 2024 10:58	Surrogate Fail	RC/JU	Confirms
5	P4440-01RE	BPOW6-11-HYD-20241	BN034724.D	25 Oct 2024 11:34	Surrogate Fail	RC/JU	Confirms
6	PB164409BL	PB164409BL	BN034725.D	25 Oct 2024 16:28	Analyzed for contamination check	RC/JU	Not Ok
7	PB164409BL	PB164409BL	BN034726.D	25 Oct 2024 17:04		RC/JU	Ok
8	PB164409BS	PB164409BS	BN034727.D	25 Oct 2024 17:40		RC/JU	Ok,M
9	PB164409BSD	PB164409BSD	BN034728.D	25 Oct 2024 18:16		RC/JU	Ok,M
10	P4550-02	VPB190-HYD-2024102	BN034729.D	25 Oct 2024 18:53	Surrogate Fail	RC/JU	ReRun
11	P4550-05	BP-VPB-190-GW-318-3	BN034730.D	25 Oct 2024 19:29		RC/JU	Ok,M
12	P4550-09	BP-VPB-190-GW-358-3	BN034731.D	25 Oct 2024 20:05		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4EC	BN034732.D	25 Oct 2024 20:41		RC/JU	Ok
14	DFTPP	DFTPP	BN034733.D	26 Oct 2024 09:37		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN034734.D	26 Oct 2024 10:16		RC/JU	Ok
16	PB164409BL	PB164409BL	BN034735.D	26 Oct 2024 10:52		RC/JU	Ok
17	P4550-11	BP-VPB-190-GW-398-4	BN034736.D	26 Oct 2024 11:28		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102524

Review By	yogesh	Review On	10/26/2024 12:01:15 AM		
Supervise By	mohammad	Supervise On	10/28/2024 3:13:44 AM		
SubDirectory	BN102524	HP Acquire Method	BNA_N	HP Processing Method	bn102424
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					

18	P4550-02RE	VPB190-HYD-2024102	BN034737.D	26 Oct 2024 12:05	Surrogate Fail	RC/JU	Confirms
19	SSTDCCC0.4	SSTDCCC0.4EC	BN034738.D	26 Oct 2024 12:41		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 10/25/2024

Matrix : Water **Extraction Start Time :** 10:45

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 10/25/2024

Balance check: N/A **Filter By:** RS **Extraction End Time :** 15:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3574 **Hood ID:** 4,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded 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	E3822
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24	RP (Epi Lab)	RC/SVOC
15:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164409BL	SBLK409	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-01
PB164409BS	SLCS409	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
PB164409BS D	SLCSD409	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			3
P4550-02	VPB190-HYD-20241023	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		4
P4550-05	BP-VPB-190-GW-318-320	SVOC-SIMGrou p1	760	6	RUPESH	rajesh	1	C	Muddy	5
P4550-09	BP-VPB-190-GW-358-360	SVOC-SIMGrou p1	710	6	RUPESH	rajesh	1	C	Muddy	6
P4550-11	BP-VPB-190-GW-398-400	SVOC-SIMGrou p1	750	6	RUPESH	rajesh	1	C	Muddy	7

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4550 WorkList ID : 184780 Department : Extraction Date : 10-25-2024 10:40:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4550-02	VPB190-HYD-20241023	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/22/2024	8270-Modified
P4550-05	BP-VPB-190-GW-318-320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/22/2024	8270-Modified
P4550-09	BP-VPB-190-GW-358-360	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/23/2024	8270-Modified
P4550-11	BP-VPB-190-GW-398-400	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/24/2024	8270-Modified

Date/Time 10/25/24 10:42
 Raw Sample Received by: Rs Get las
 Raw Sample Relinquished by: Rs Get las

Date/Time 10/25/24 11:05
 Raw Sample Received by: Rs Get las
 Raw Sample Relinquished by: Rs Get las

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

Prep Standard - Chemical Standard Summary

Order ID : P4550
Test : SVOC-SIMGroup1
Prepbatch ID : PB164409,
Sequence ID/Qc Batch ID: BN102524,

Standard ID :
EP2548,EP2550,EP2551,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3822,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	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

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 DFTPP 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								

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

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	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

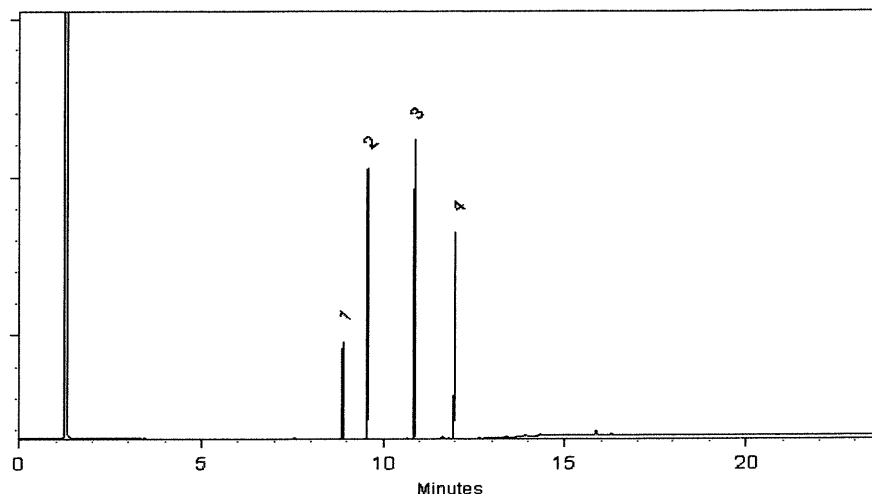
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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
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:

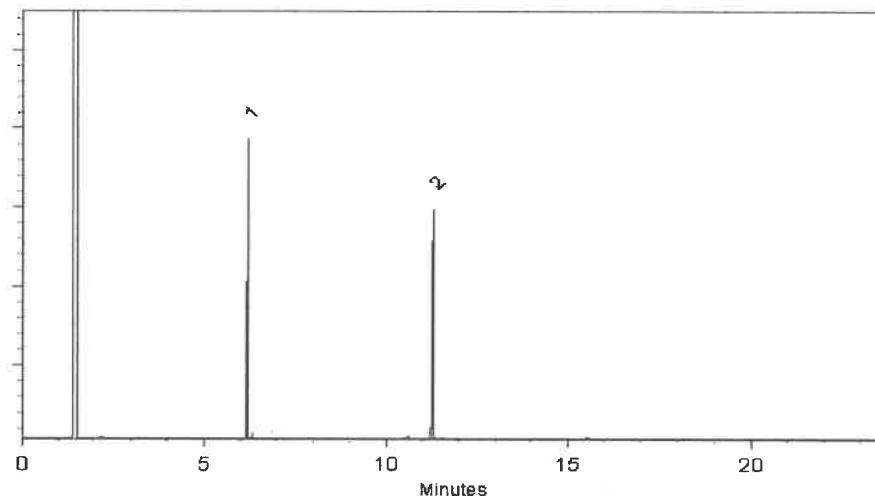
250°C

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



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 by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

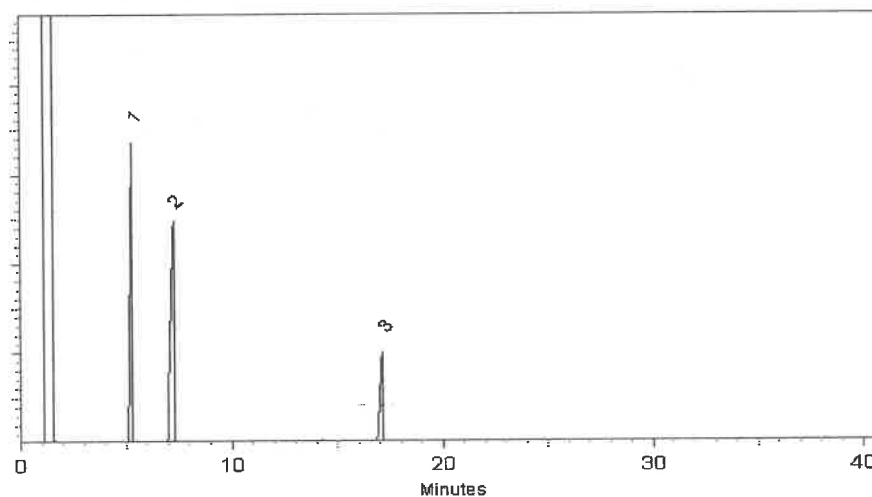
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

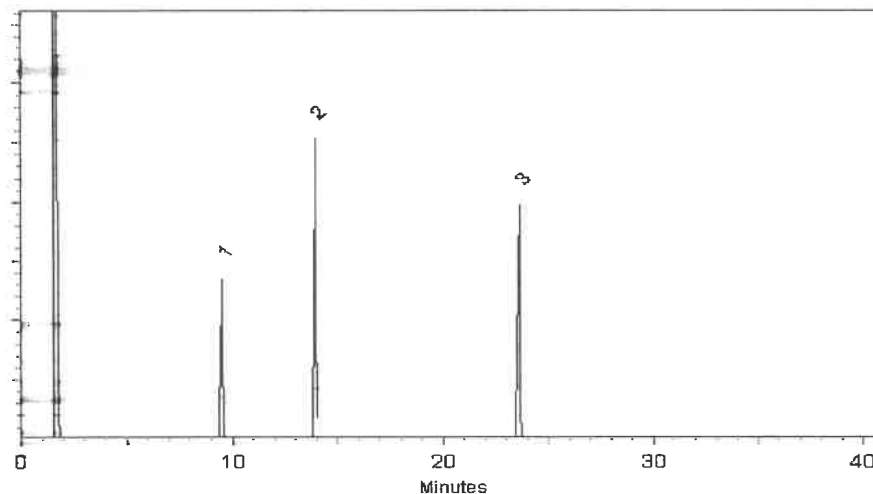
250°C

Det. Temp:

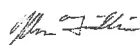
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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. : 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.

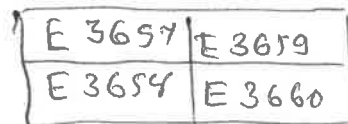
This document has been electronically produced and is valid without a signature.

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 ₂ Cl 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)

avantor™



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 3822

Jamie Croak
Director Quality Operations, Bioscience Production

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 Pkg Amt: > 1 mL
Expiration Date: September 30, 2025 Storage: 10°C or colder
Handling: This product is photosensitive. 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

511749
↓
511794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

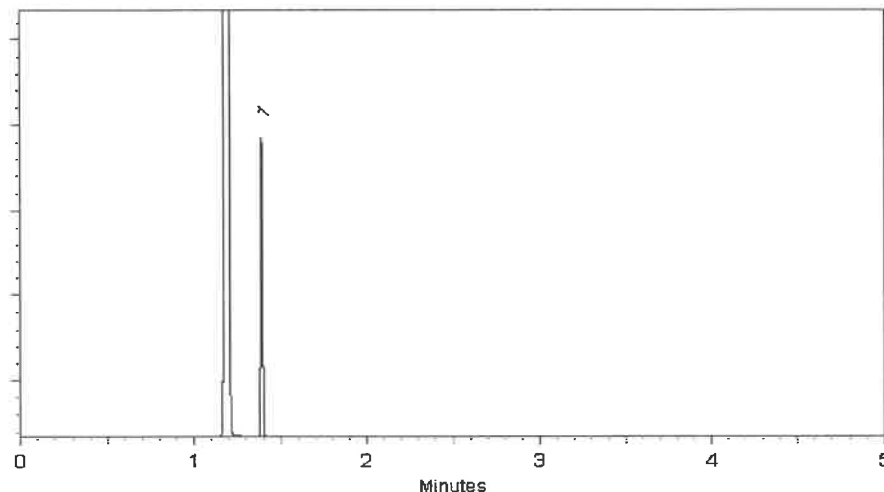
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

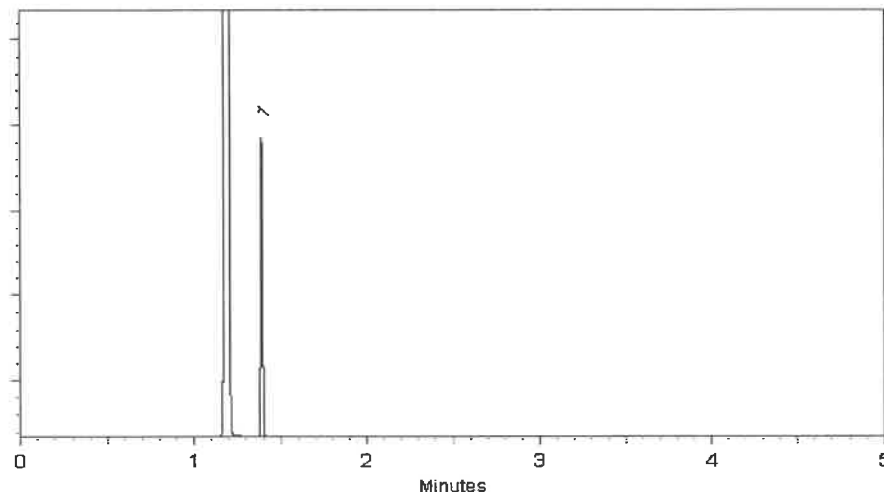
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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:

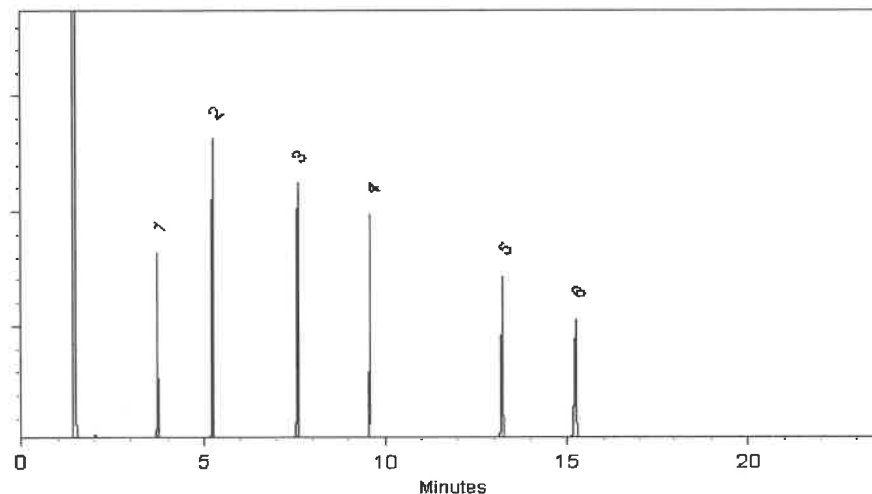
FID

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

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. : 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

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. : 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

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.



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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



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



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

P4550

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-189
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

☐ 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 _____

ANALYSIS

VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1,4 Dioxane (522 PREC)							
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		A									
1.	BP-VPB-190-TB-20241022	QA		X	10/22/24	8:00	2	2									Trip Blank
2.	VPB190-HYD-20241023	QA		X	10/23/24	9:05	5	2	1	2							Hydrant Sample
3.	BP-VPB-190-EB-20241023	QA		X	10/23/24	11:05	2	2									Equipment Blank
4.	BP-VPB-190-GW-298-300	AQ		X	10/22/24	9:55	2	2									
5.	BP-VPB-190-GW-318-320	AQ		X	10/22/24	12:05	3	2	1								
6.	BP-VPB-190-GW-338-340	AQ		X	10/22/24	14:30	6	6									MS/MSD
7.	BP-VPB-190-GW-358-360	AQ		X	10/23/24	10:40	3	2	1								
8.	BP-VPB-190-GW-378-380	AQ		X	10/23/24	13:05	2	2									
9.	BP-VPB-190-GW-398-400	AQ		X	10/23/24	15:25	3	2	1								
10.	BP-VPB-190-GW-418-420	AQ		X	10/24/24	12:35	4	4									Collected extra vials due to high particulate matter

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER 1. <i>[Signature]</i>	DATE/TIME 10/24/24 15:30	RECEIVED BY 1. <i>[Signature]</i>	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>2.9°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Ice in Cooler?: <u>Yes</u> Comments: 48hr TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)	
RELINQUISHED BY 2. <i>[Signature]</i>	DATE/TIME 10-24-2024	RECEIVED BY		
RELINQUISHED BY 3. <i>[Signature]</i>	DATE/TIME 10-24-2024	RECEIVED FOR LAB BY 3. <i>[Signature]</i>		
Page <u>1</u> of <u>1</u>			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4550 TETR06 Order Date : 10/24/2024 5:50:00 PM Project Mgr :
Client Name : Tetra Tech NUS, Inc. Project Name : CTO WE13 Report Type : Level 4
Client Contact : Ernie Wu Receive DateTime : 10/24/2024 12:00:00 AM EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc. Purchase Order : 19:05 Hard Copy Date :
Invoice Contact : Ernie Wu Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4550-01	BP-VPB-190-TB-20241022	Water	10/22/2024	08:00	VOCMS Group1		8260-Low		2 Bus. Days
P4550-02	~~BP-VPB-190-HYD-20241023~~ VPB190-HYD-20241023	Water	10/22/2024 23	09:05	VOCMS Group1		8260-Low		2 Bus. Days
P4550-03	BP-VPB-190-EB-20241023	Water	10/22/2024 23	11:05	VOCMS Group1		8260-Low		2 Bus. Days
P4550-04	BP-VPB-190-GW-298-300	Water	10/22/2024	09:55	VOCMS Group1		8260-Low		2 Bus. Days
P4550-05	BP-VPB-190-GW-318-320	Water	10/22/2024	12:05	VOCMS Group1		8260-Low		2 Bus. Days
P4550-06	BP-VPB-190-GW-338-340	Water	10/22/2024	14:30	VOCMS Group1		8260-Low		2 Bus. Days
P4550-07	P4550-06MS	Water	10/22/2024	14:30	VOCMS Group1		8260-Low		2 Bus. Days
P4550-08	P4550-06MSD	Water	10/22/2024	14:30					



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4550 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 10/24/2024 5:50:00 PM
Project Name : CTO WE13
Receive DateTime : 10/24/2024 12:00:00 AM
Purchase Order : 19:05

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		2 Bus. Days
P4550-09	BP-VPB-190-GW-358-360	Water	10/23/2024	10:40					
					VOCMS Group1		8260-Low		2 Bus. Days
P4550-10	BP-VPB-190-GW-378-380	Water	10/23/2024	13:05					
					VOCMS Group1		8260-Low		2 Bus. Days
P4550-11	BP-VPB-190-GW-398-400	Water	10/24/2024 23	15:25					
					VOCMS Group1		8260-Low		2 Bus. Days
P4550-12	BP-VPB-190-GW-418-420	Water	10/24/2024	12:35					
					VOCMS Group1		8260-Low		2 Bus. Days

Relinquished By : 

Date / Time : 10/25/24 0900

Received By : 

Date / Time : 10/25/24 0900

Rg 4

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034687.D
 Acq On : 24 Oct 2024 10:59
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Oct 24 12:43:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration

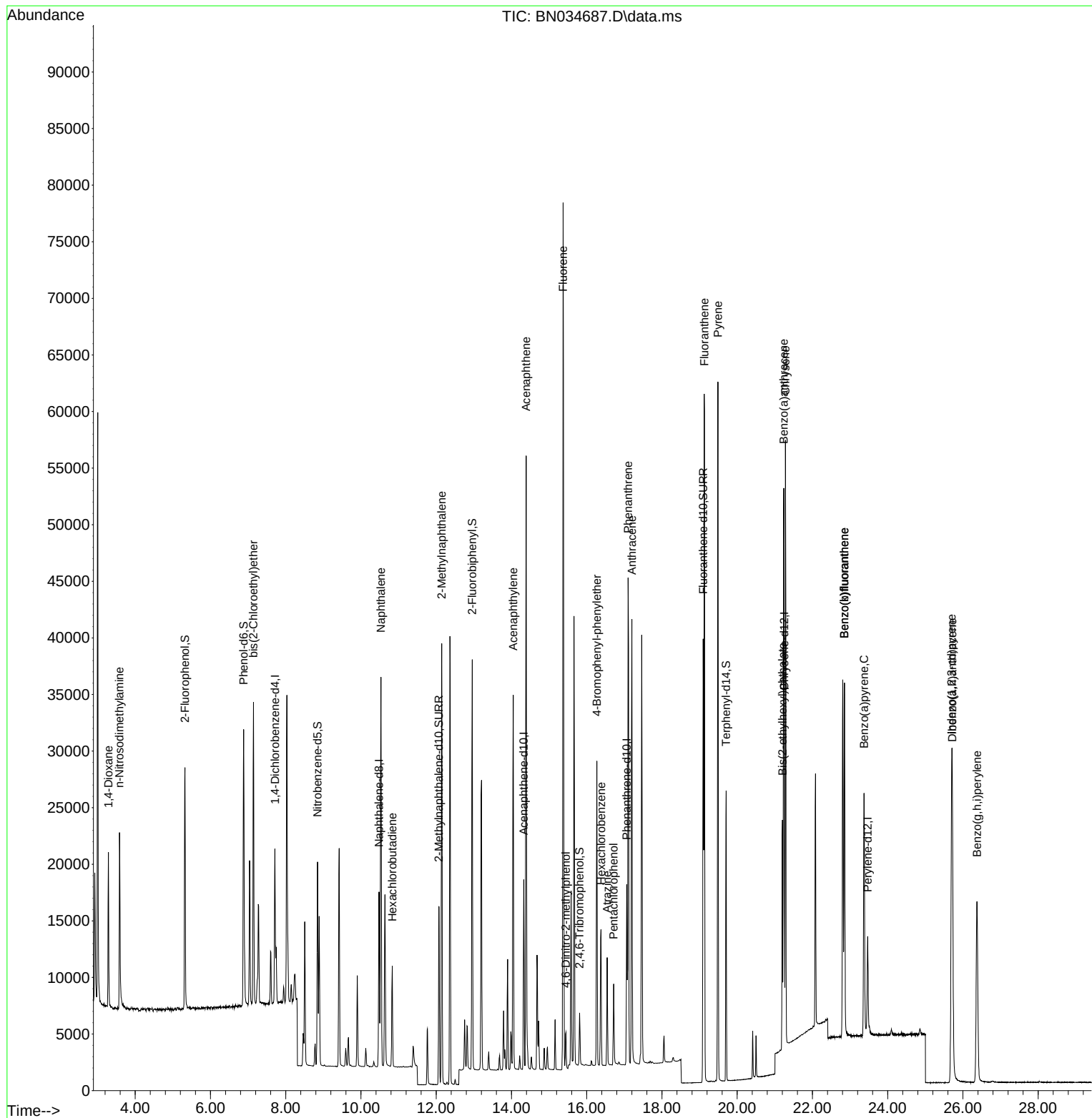
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6279	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18298	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	8788	0.400	ng	0.00
19) Phenanthrene-d10	17.063	188	18528	0.400	ng	# 0.00
29) Chrysene-d12	21.247	240	12066	0.400	ng	# 0.00
35) Perylene-d12	23.467	264	10772	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.321	112	15922	0.829	ng	0.00
5) Phenol-d6	6.881	99	20820	0.847	ng	0.00
8) Nitrobenzene-d5	8.845	82	12949	0.854	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	21347	0.829	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	2227	0.598	ng	0.00
15) 2-Fluorobiphenyl	12.957	172	29939	0.864	ng	0.00
27) Fluoranthene-d10	19.096	212	36834	0.812	ng	0.00
31) Terphenyl-d14	19.705	244	20915	0.896	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	6845	0.895	ng	98
3) n-Nitrosodimethylamine	3.581	42	10574	1.144	ng	# 97
6) bis(2-Chloroethyl)ether	7.141	93	17336	0.921	ng	99
9) Naphthalene	10.532	128	43252	0.857	ng	99
10) Hexachlorobutadiene	10.831	225	6528	0.807	ng	# 99
12) 2-Methylnaphthalene	12.146	142	26668	0.836	ng	100
16) Acenaphthylene	14.047	152	35850	0.849	ng	99
17) Acenaphthene	14.389	154	25224	0.876	ng	99
18) Fluorene	15.373	166	31002	0.864	ng	100
20) 4,6-Dinitro-2-methylph...	15.448	198	2025	0.799	ng	# 77
21) 4-Bromophenyl-phenylether	16.269	248	8290	0.818	ng	# 80
22) Hexachlorobenzene	16.381	284	9007	0.801	ng	98
23) Atrazine	16.542	200	6777	0.764	ng	# 93
24) Pentachlorophenol	16.716	266	3059	0.693	ng	99
25) Phenanthrene	17.101	178	47181	0.856	ng	100
26) Anthracene	17.200	178	41660	0.845	ng	100
28) Fluoranthene	19.129	202	51141	0.827	ng	100
30) Pyrene	19.486	202	51944	0.963	ng	100
32) Benzo(a)anthracene	21.238	228	39570	0.860	ng	99
33) Chrysene	21.283	228	41243	0.906	ng	99
34) Bis(2-ethylhexyl)phtha...	21.203	149	20342	0.650	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.698	276	34379	0.828	ng	100
37) Benzo(b)fluoranthene	22.850	252	37118	0.954	ng	93
38) Benzo(k)fluoranthene	22.850	252	37118	0.977	ng	# 91
39) Benzo(a)pyrene	23.371	252	29490	0.892	ng	# 88
40) Dibenzo(a,h)anthracene	25.718	278	26850	0.823	ng	96
41) Benzo(g,h,i)perylene	26.373	276	29665	0.824	ng	97

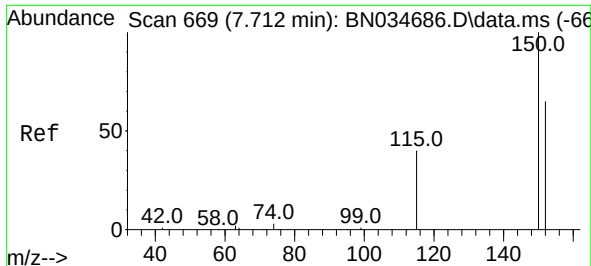
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034687.D
Acq On : 24 Oct 2024 10:59
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

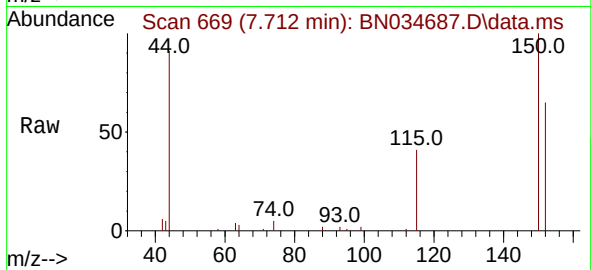
Quant Time: Oct 24 12:43:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration



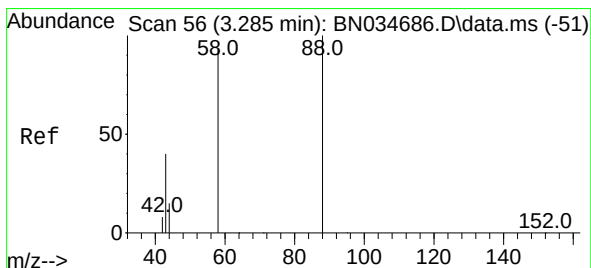
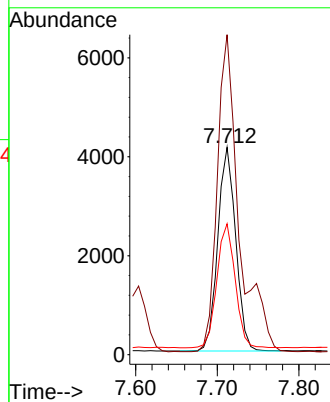
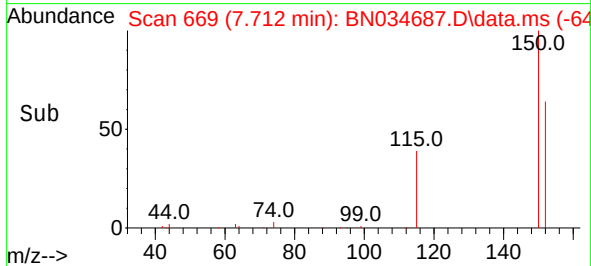


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

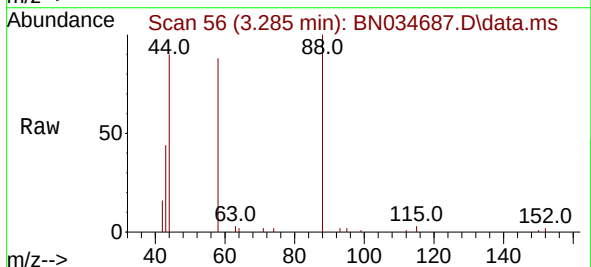
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



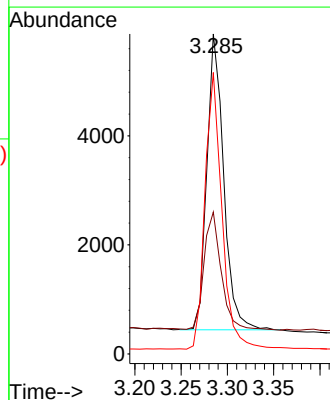
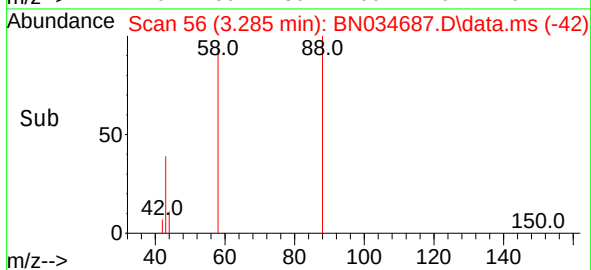
Tgt Ion:152 Resp: 6279
Ion Ratio Lower Upper
152 100
150 154.4 122.7 184.1
115 63.2 51.0 76.6

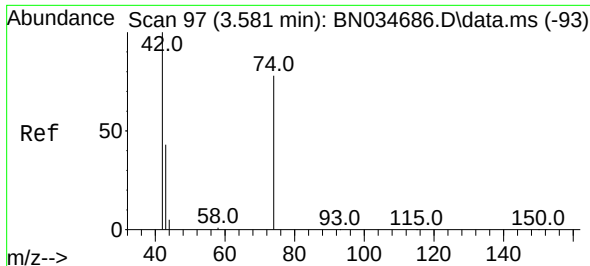


#2
1,4-Dioxane
Concen: 0.895 ng
RT: 3.285 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59



Tgt Ion: 88 Resp: 6845
Ion Ratio Lower Upper
88 100
43 41.3 32.1 48.1
58 93.9 73.7 110.5

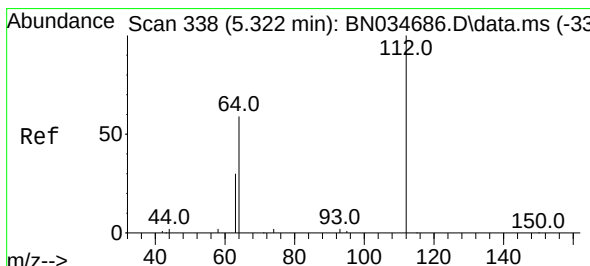
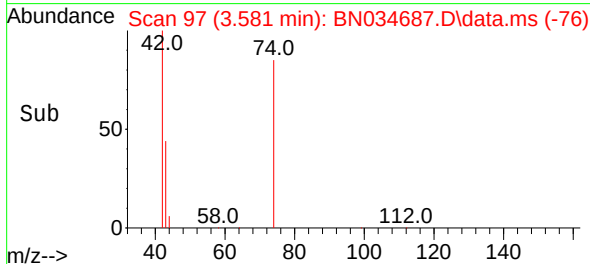
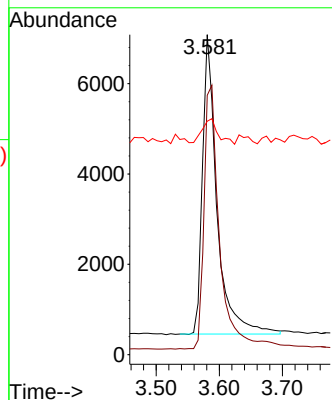
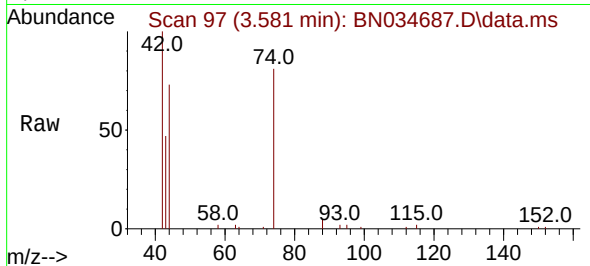




#3
 n-Nitrosodimethylamine
 Concen: 1.144 ng
 RT: 3.581 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

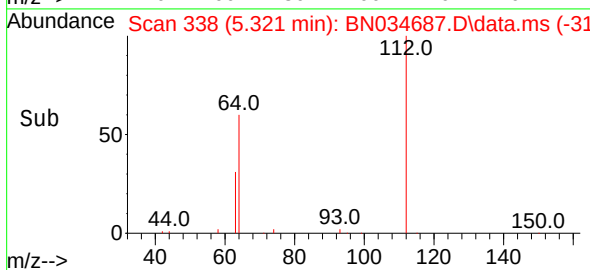
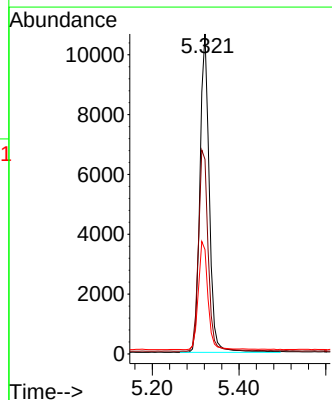
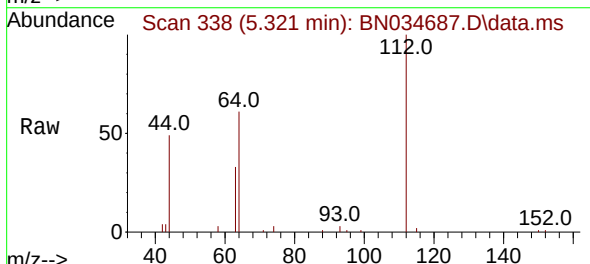
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

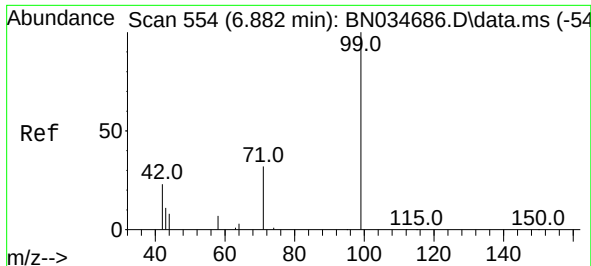
Tgt Ion: 42 Resp: 10574
 Ion Ratio Lower Upper
 42 100
 74 95.9 77.2 115.8
 44 9.3 13.4 20.2#



#4
 2-Fluorophenol
 Concen: 0.829 ng
 RT: 5.321 min Scan# 338
 Delta R.T. -0.000 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

Tgt Ion: 112 Resp: 15922
 Ion Ratio Lower Upper
 112 100
 64 66.1 53.0 79.6
 63 34.5 27.6 41.4

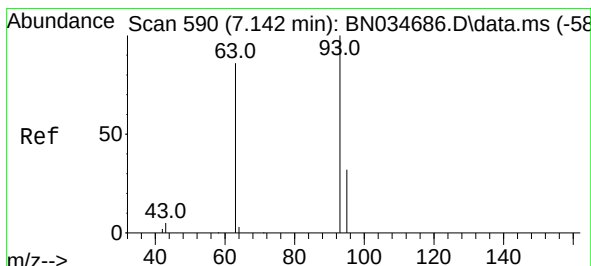
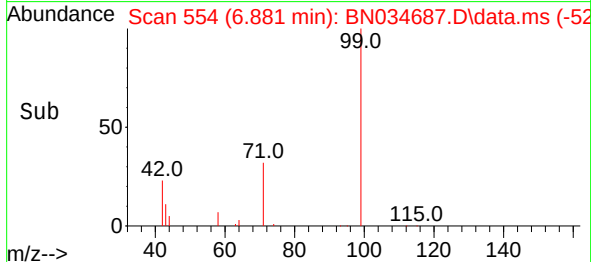
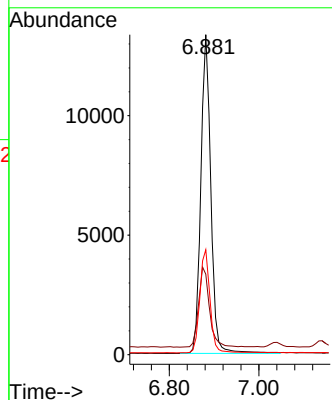
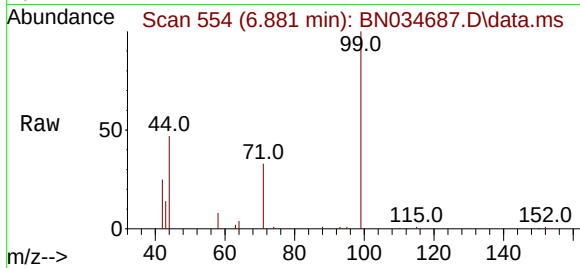




#5
Phenol-d6
Concen: 0.847 ng
RT: 6.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

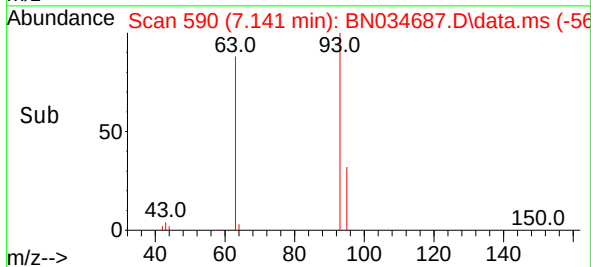
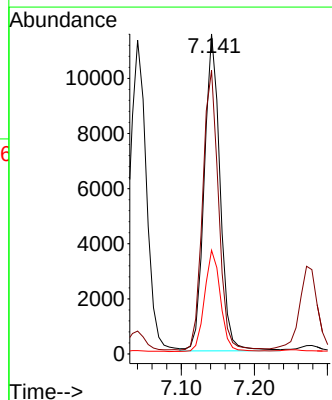
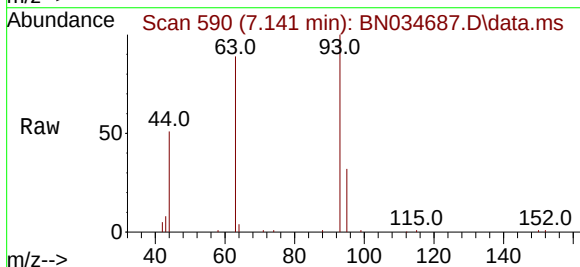
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

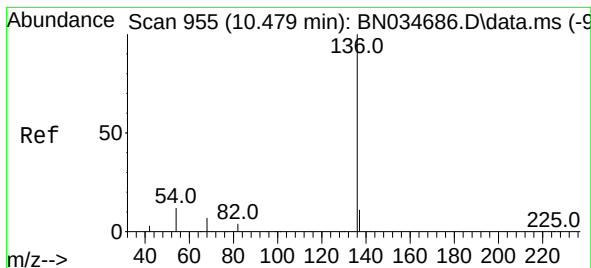
Tgt Ion: 99 Resp: 20820
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.1 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.921 ng
RT: 7.141 min Scan# 590
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion: 93 Resp: 17336
Ion Ratio Lower Upper
93 100
63 88.1 71.5 107.3
95 32.1 25.8 38.6





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.479 min Scan# 955

Delta R.T. -0.000 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:136 Resp: 18298

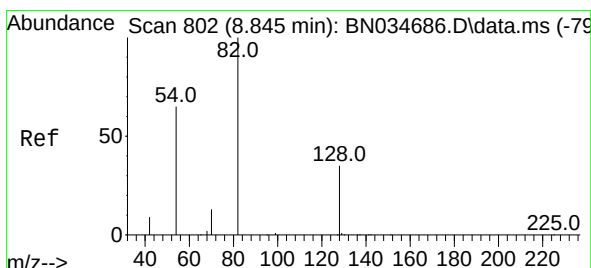
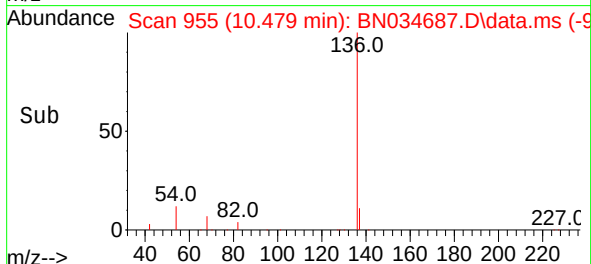
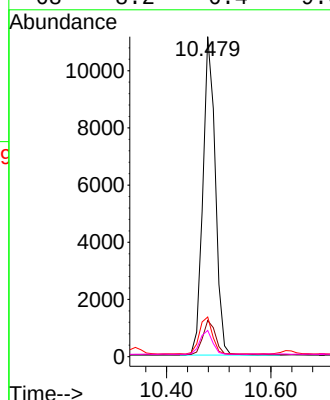
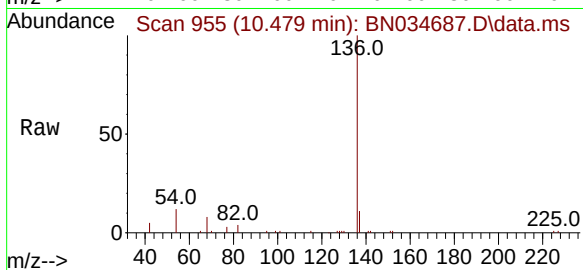
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 12.4 9.8 14.8

68 8.2 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.854 ng

RT: 8.845 min Scan# 802

Delta R.T. -0.000 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

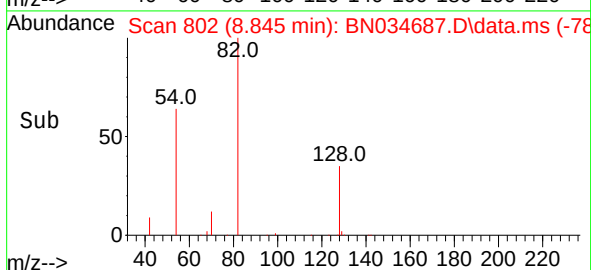
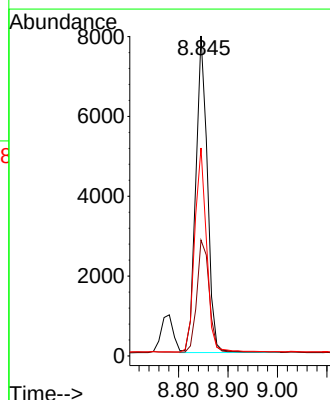
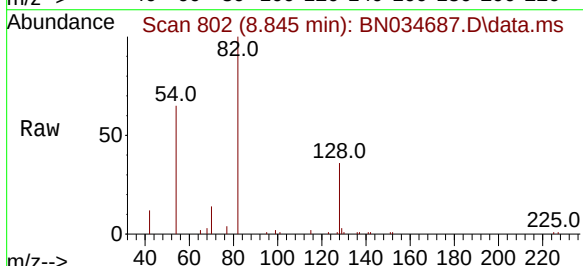
Tgt Ion: 82 Resp: 12949

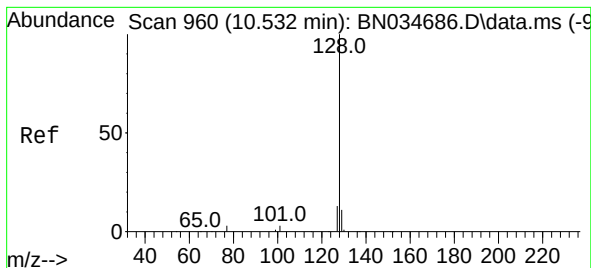
Ion Ratio Lower Upper

82 100

128 36.2 29.7 44.5

54 65.0 53.0 79.6





#9

Naphthalene

Concen: 0.857 ng

RT: 10.532 min Scan# 9

Delta R.T. -0.000 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

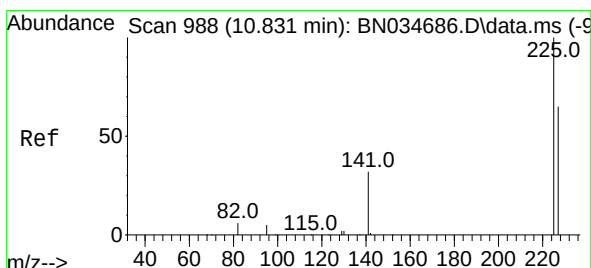
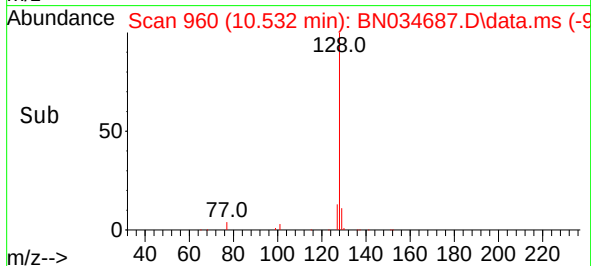
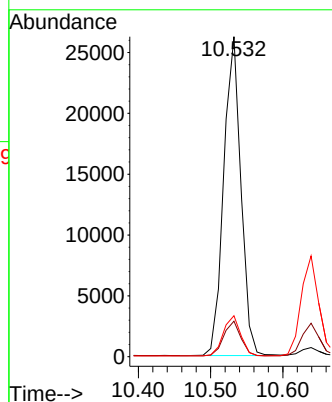
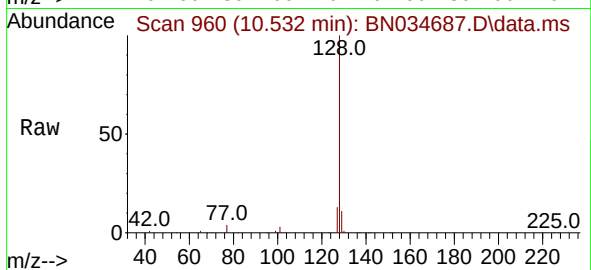
Tgt Ion:128 Resp: 43252

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

127 12.8 10.5 15.7



#10

Hexachlorobutadiene

Concen: 0.807 ng

RT: 10.831 min Scan# 988

Delta R.T. -0.000 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

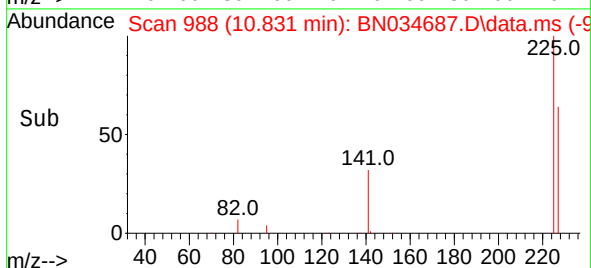
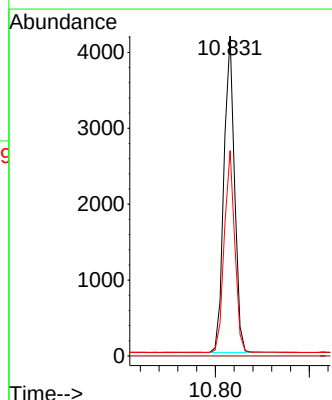
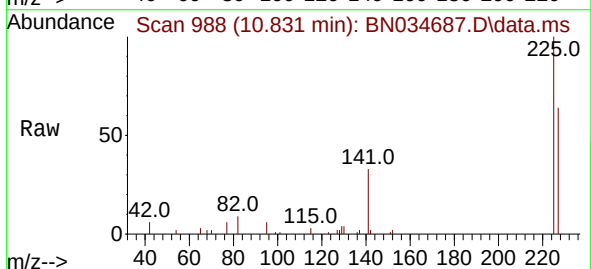
Tgt Ion:225 Resp: 6528

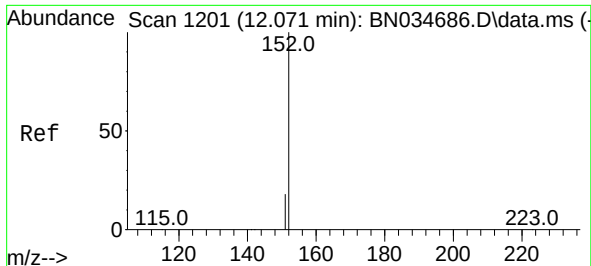
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.3 51.4 77.0

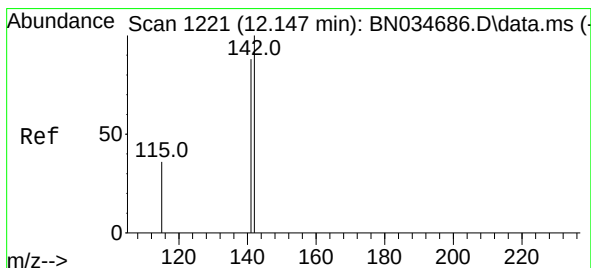
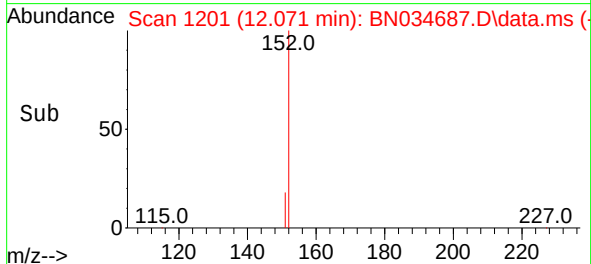
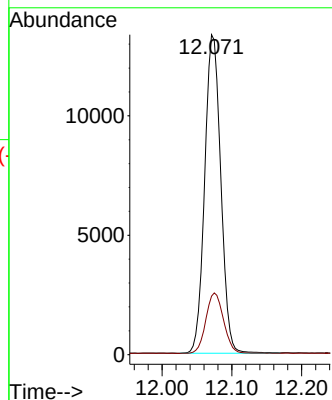
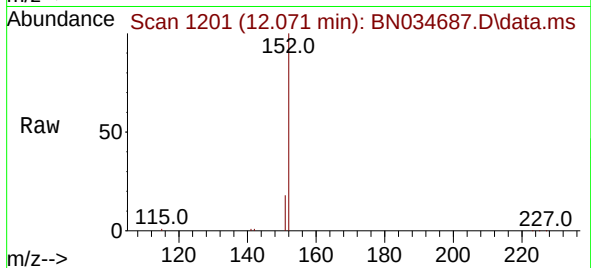




#11
2-Methylnaphthalene-d10
Concen: 0.829 ng
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

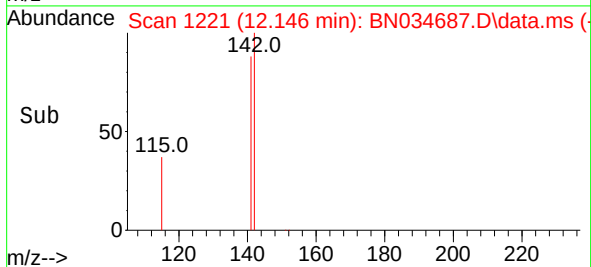
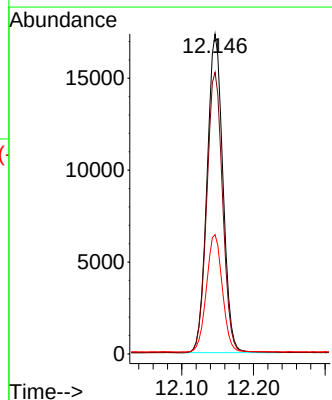
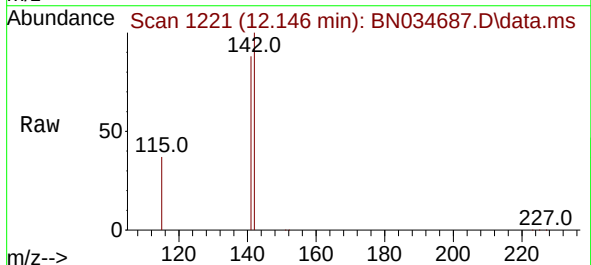
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

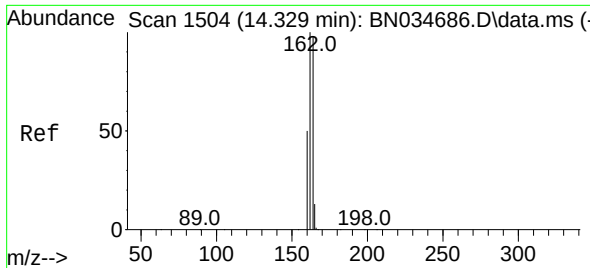
Tgt Ion:152 Resp: 21347
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.836 ng
RT: 12.146 min Scan# 1221
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:142 Resp: 26668
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 37.3 29.8 44.6

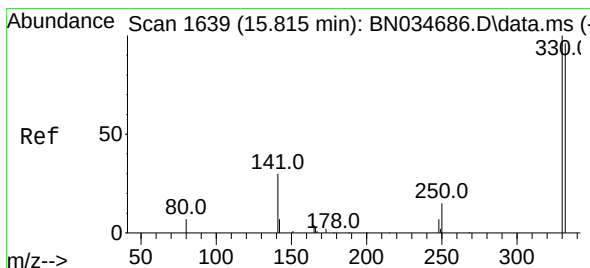
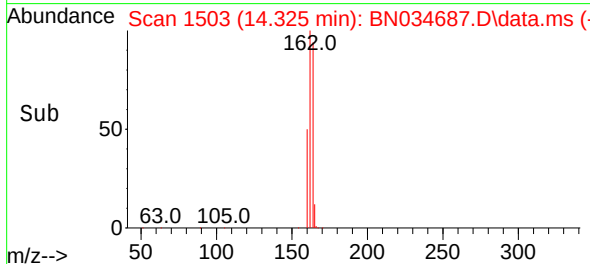
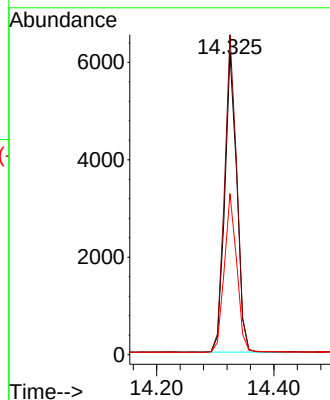
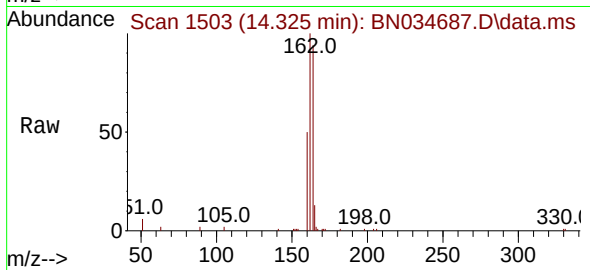




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

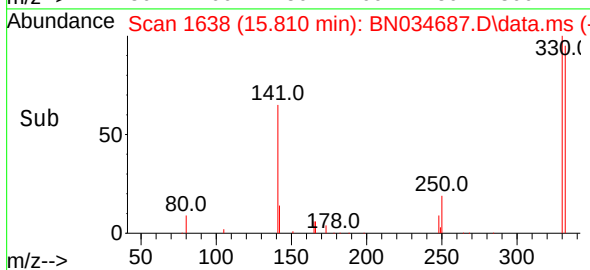
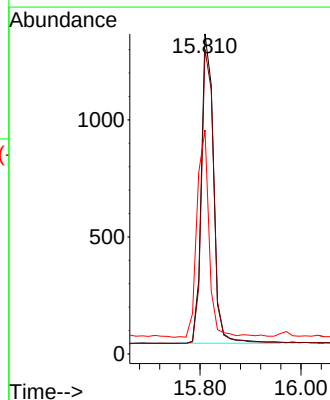
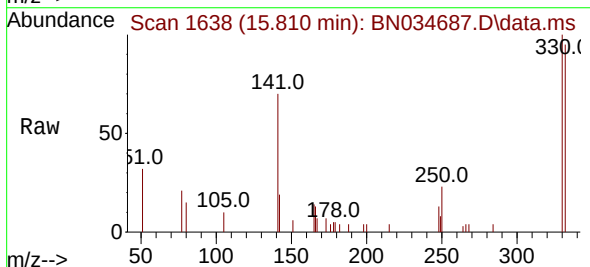
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

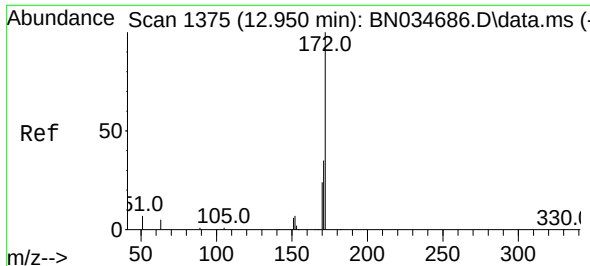
Tgt Ion:164 Resp: 8788
Ion Ratio Lower Upper
164 100
162 106.2 81.4 122.0
160 53.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.598 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:330 Resp: 2227
Ion Ratio Lower Upper
330 100
332 96.3 76.6 115.0
141 67.4 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 0.864 ng

RT: 12.957 min Scan# 1375

Delta R.T. 0.007 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

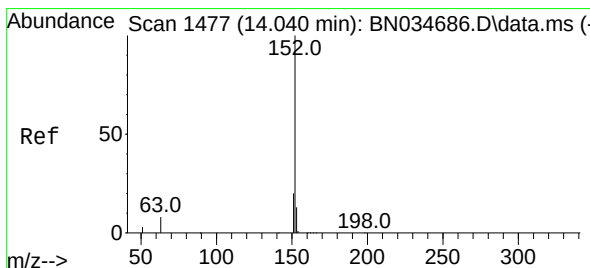
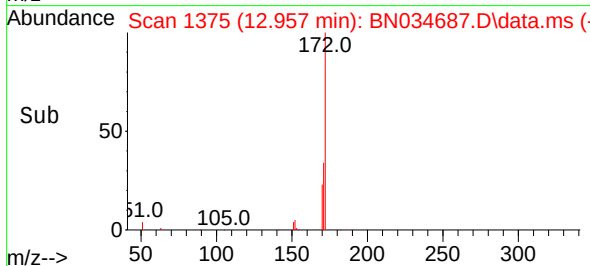
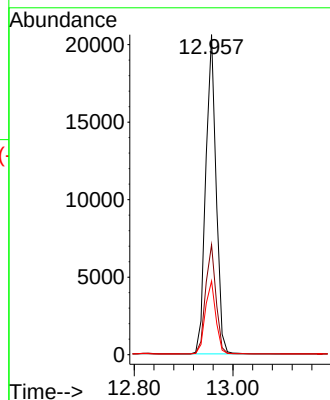
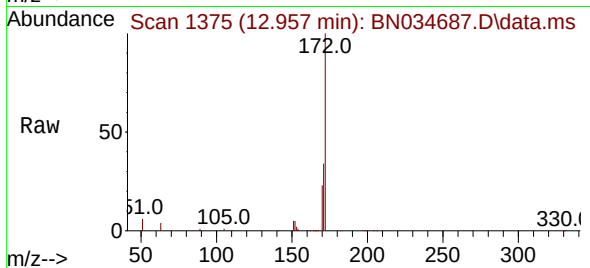
Tgt Ion:172 Resp: 29939

Ion Ratio Lower Upper

172 100

171 34.3 28.3 42.5

170 23.0 19.8 29.6



#16

Acenaphthylene

Concen: 0.849 ng

RT: 14.047 min Scan# 1477

Delta R.T. 0.007 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

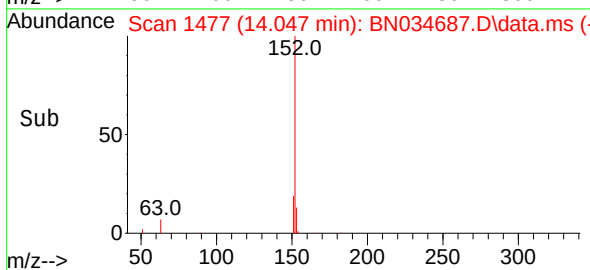
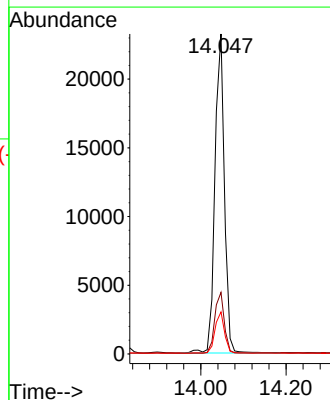
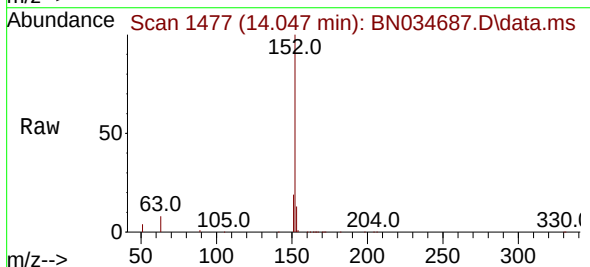
Tgt Ion:152 Resp: 35850

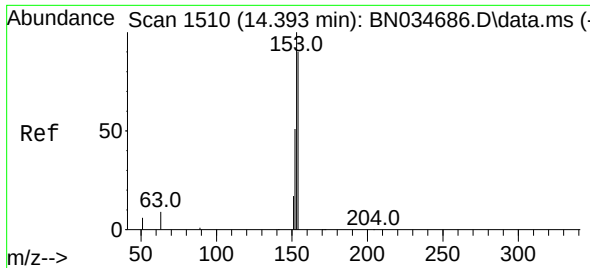
Ion Ratio Lower Upper

152 100

151 19.1 15.6 23.4

153 12.8 10.6 15.8

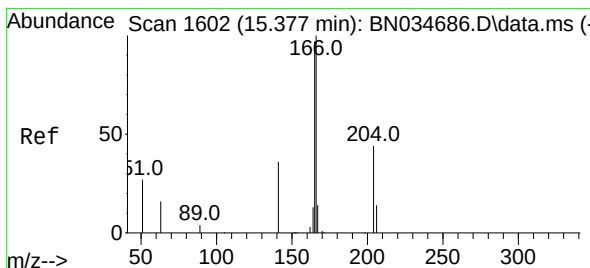
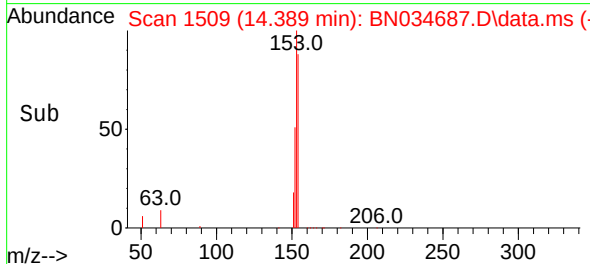
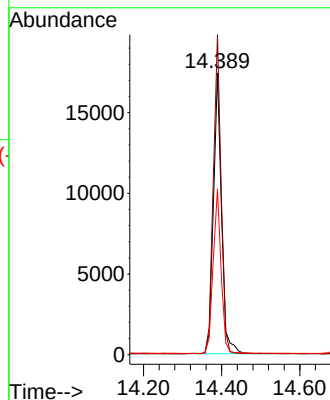
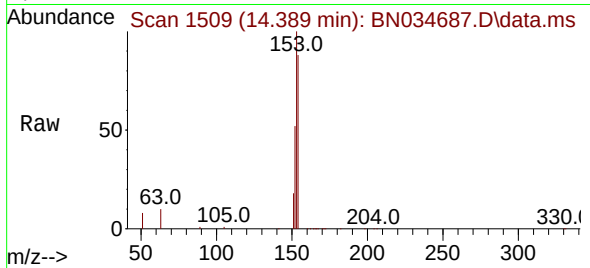




#17
Acenaphthene
Concen: 0.876 ng
RT: 14.389 min Scan# 1509
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

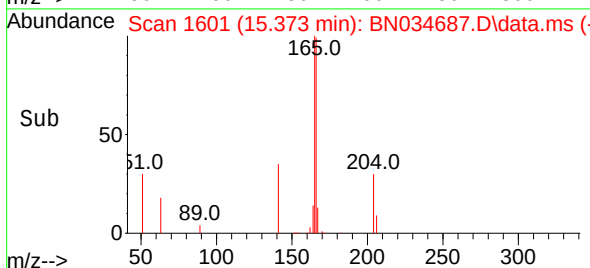
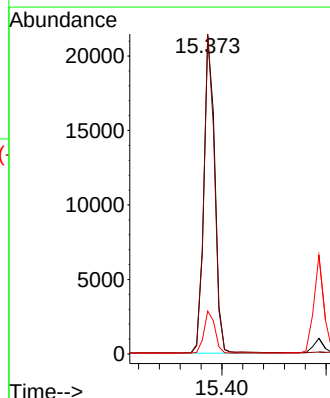
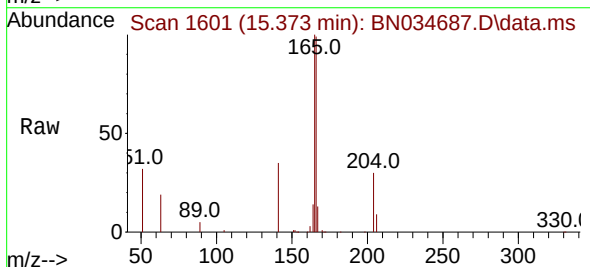
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

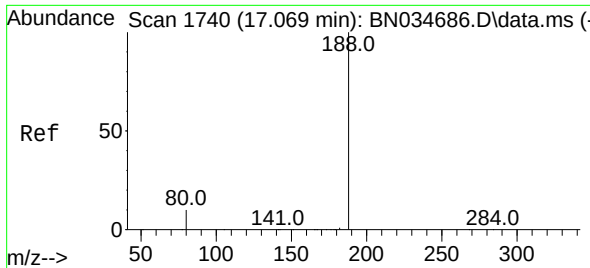
Tgt Ion:154 Resp: 25224
Ion Ratio Lower Upper
154 100
153 109.5 88.2 132.2
152 57.2 46.9 70.3



#18
Fluorene
Concen: 0.864 ng
RT: 15.373 min Scan# 1601
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:166 Resp: 31002
Ion Ratio Lower Upper
166 100
165 98.5 78.8 118.2
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.063 min Scan# 1

Delta R.T. -0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

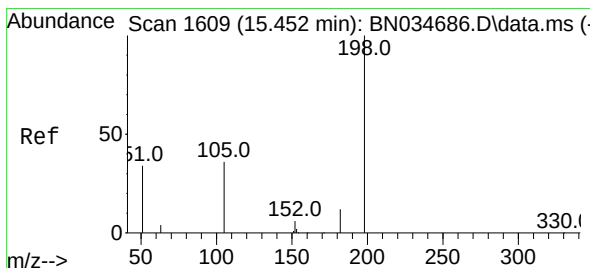
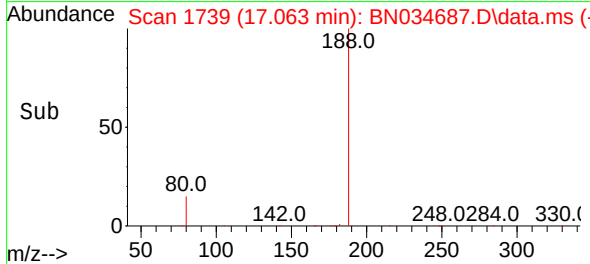
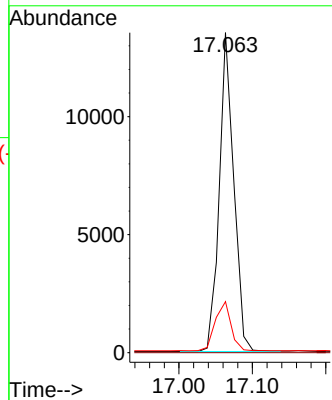
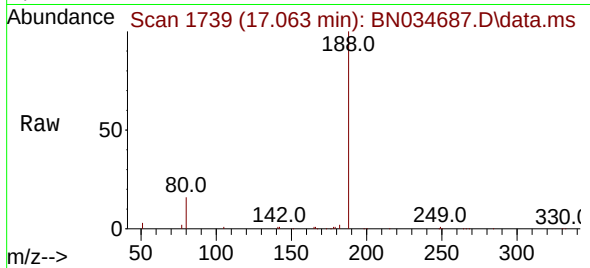
Tgt Ion:188 Resp: 18528

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.9 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.799 ng

RT: 15.448 min Scan# 1608

Delta R.T. -0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

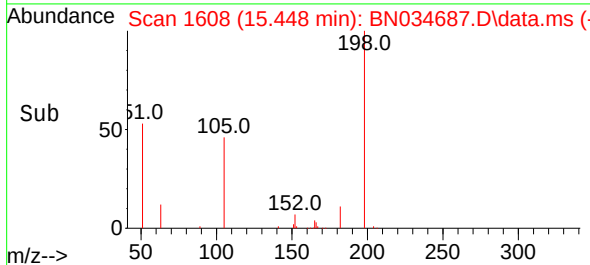
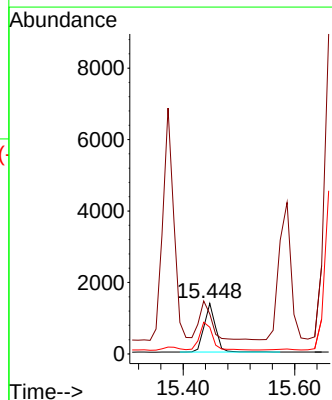
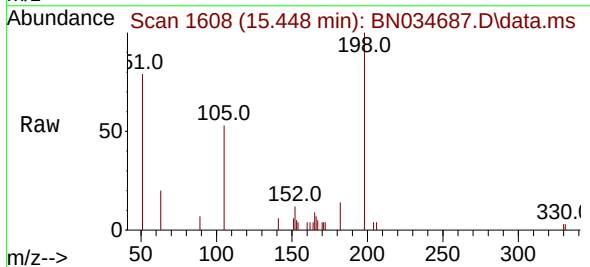
Tgt Ion:198 Resp: 2025

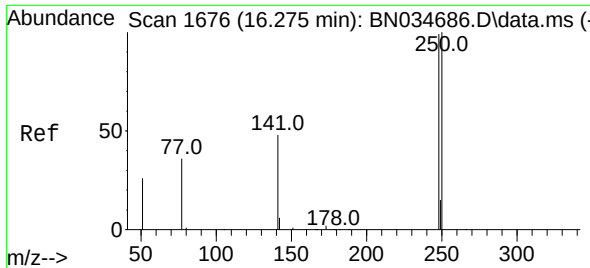
Ion Ratio Lower Upper

198 100

51 79.0 91.8 137.8#

105 52.7 44.3 66.5

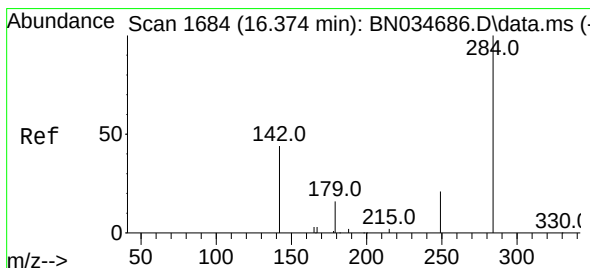
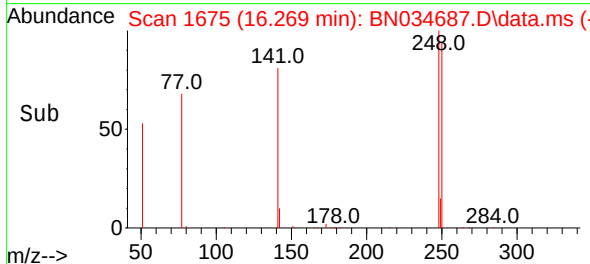
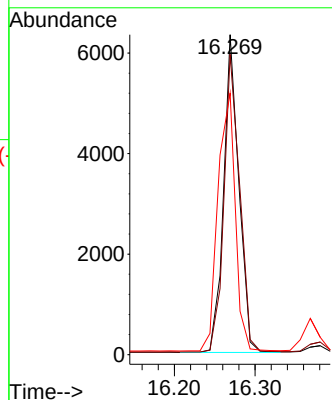
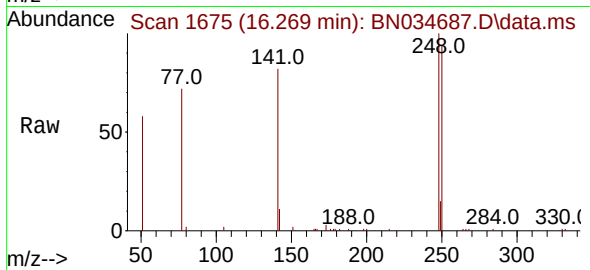




#21
4-Bromophenyl-phenylether
Concen: 0.818 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

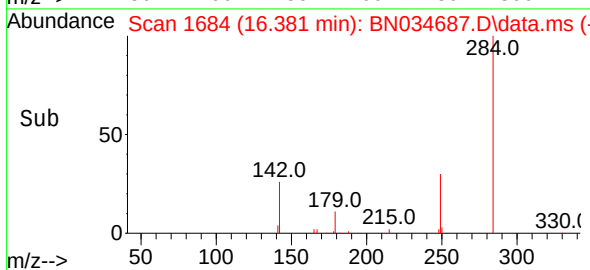
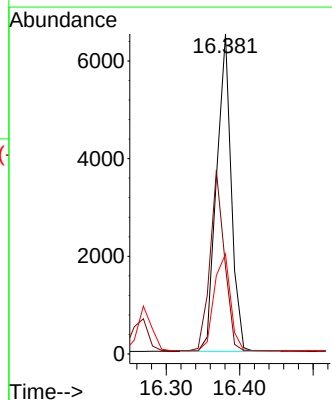
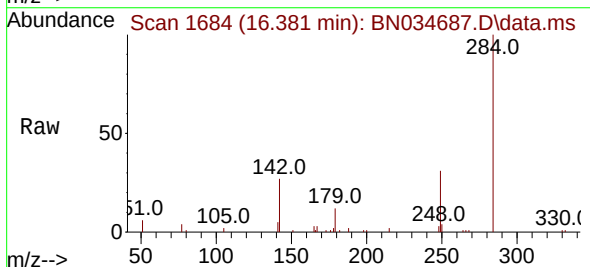
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

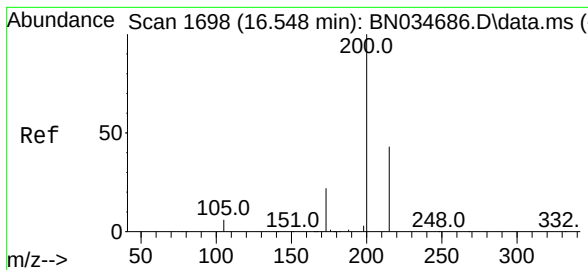
Tgt Ion:248 Resp: 8290
Ion Ratio Lower Upper
248 100
250 93.8 80.9 121.3
141 81.7 40.5 60.7#



#22
Hexachlorobenzene
Concen: 0.801 ng
RT: 16.381 min Scan# 1684
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:284 Resp: 9007
Ion Ratio Lower Upper
284 100
142 56.0 43.6 65.4
249 34.1 26.6 40.0

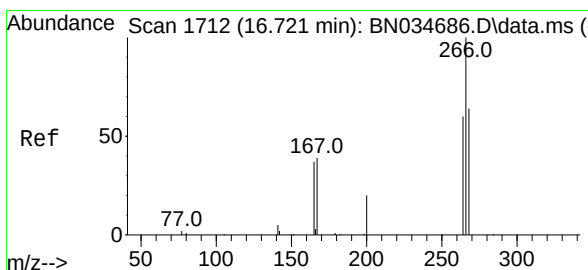
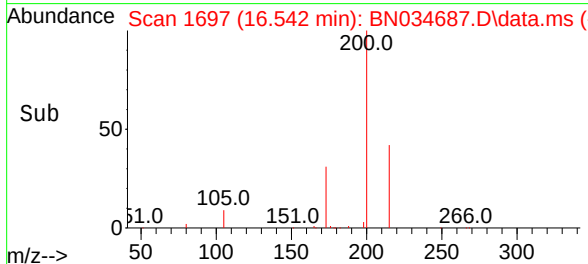
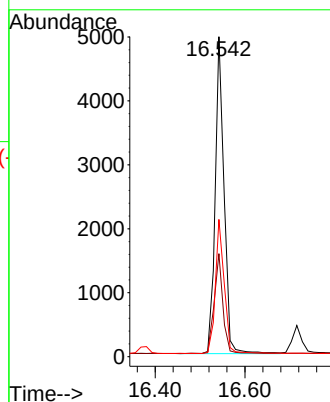
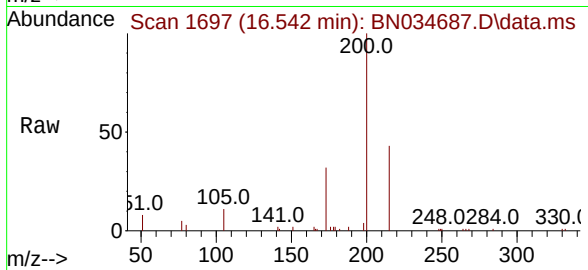




#23
 Atrazine
 Concen: 0.764 ng
 RT: 16.542 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

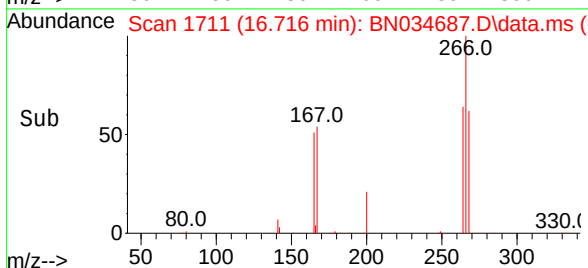
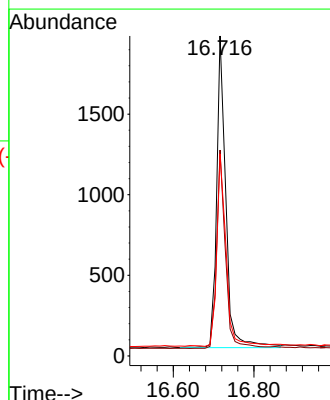
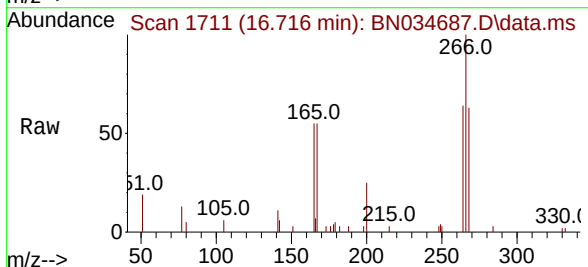
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

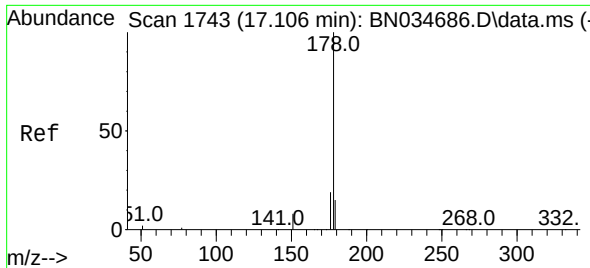
Tgt Ion:200 Resp: 6777
 Ion Ratio Lower Upper
 200 100
 173 32.2 19.7 29.5#
 215 42.9 35.7 53.5



#24
 Pentachlorophenol
 Concen: 0.693 ng
 RT: 16.716 min Scan# 1711
 Delta R.T. -0.006 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

Tgt Ion:266 Resp: 3059
 Ion Ratio Lower Upper
 266 100
 264 61.0 49.4 74.2
 268 62.3 50.5 75.7

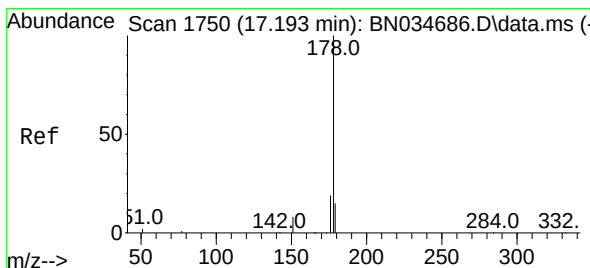
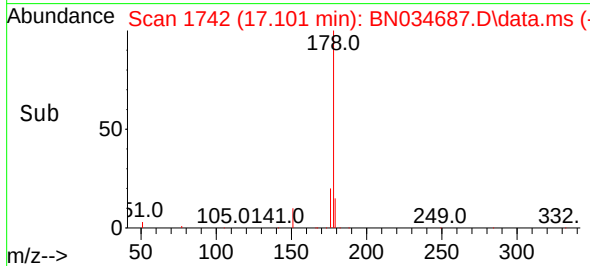
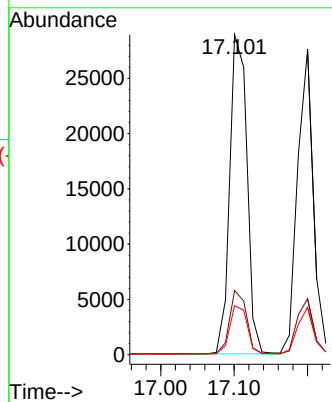
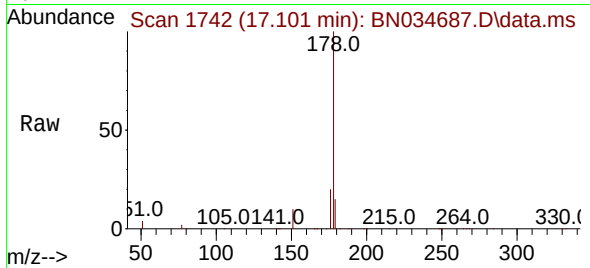




#25
Phenanthrene
Concen: 0.856 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

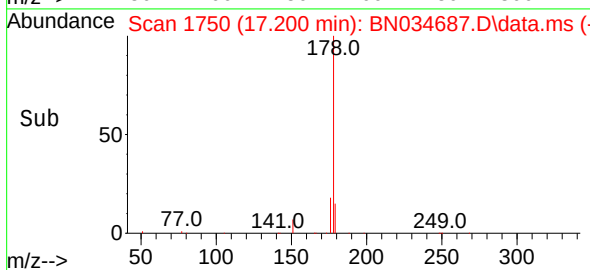
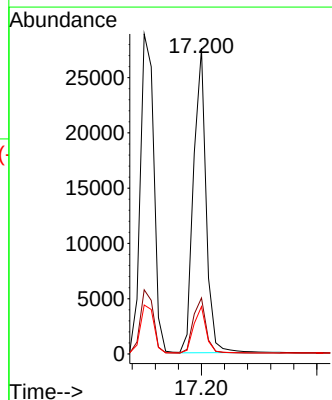
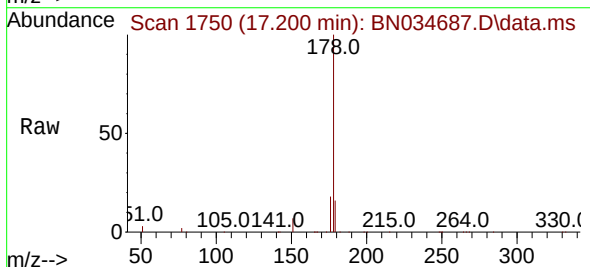
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

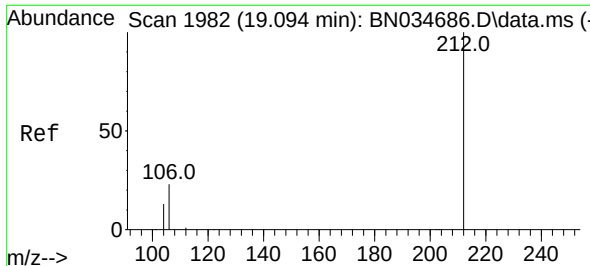
Tgt Ion:178 Resp: 47181
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.845 ng
RT: 17.200 min Scan# 1750
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:178 Resp: 41660
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.812 ng

RT: 19.096 min Scan# 1981

Delta R.T. 0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

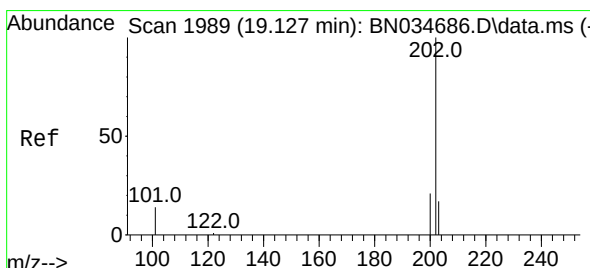
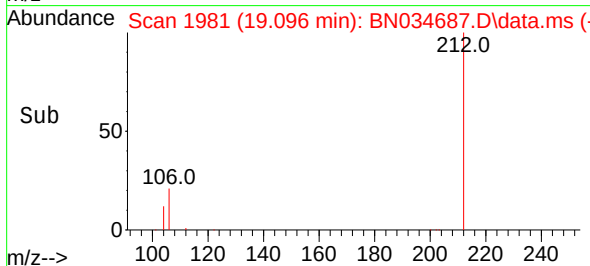
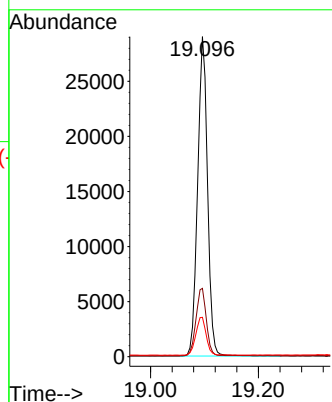
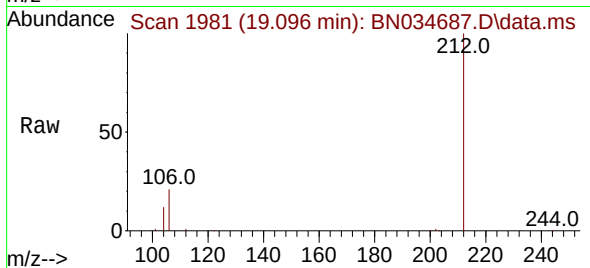
Tgt Ion:212 Resp: 36834

Ion Ratio Lower Upper

212 100

106 22.1 17.8 26.8

104 12.5 10.2 15.4



#28

Fluoranthene

Concen: 0.827 ng

RT: 19.129 min Scan# 1988

Delta R.T. 0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

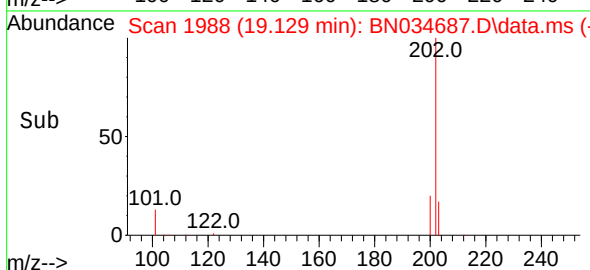
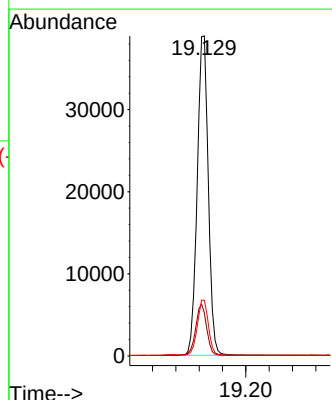
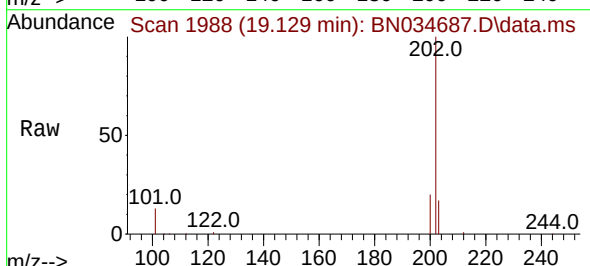
Tgt Ion:202 Resp: 51141

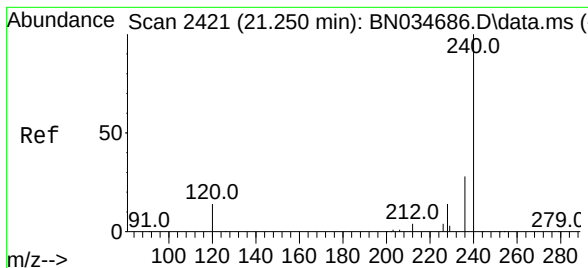
Ion Ratio Lower Upper

202 100

101 16.0 12.8 19.2

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.247 min Scan# 2419

Delta R.T. -0.003 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

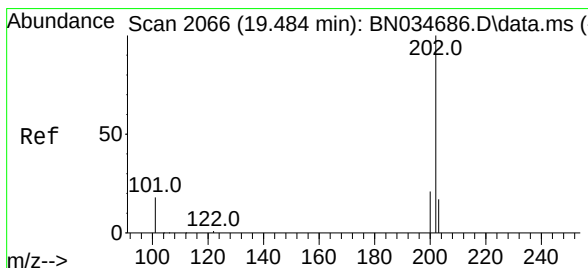
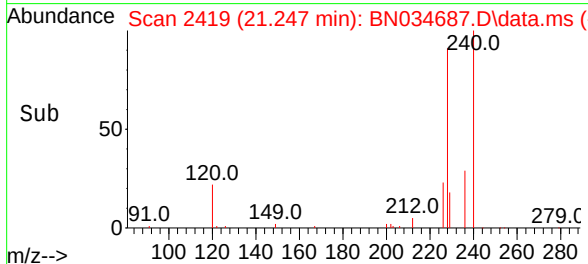
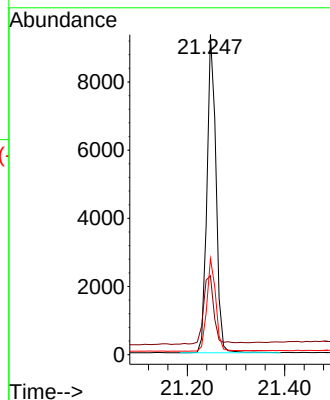
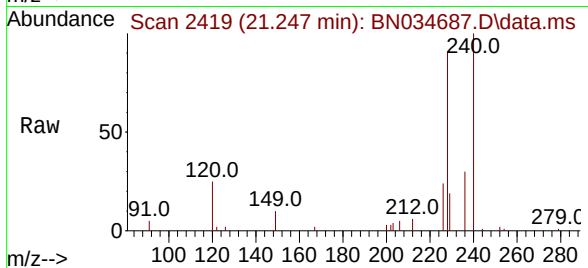
Tgt Ion:240 Resp: 12066

Ion Ratio Lower Upper

240 100

120 24.6 14.2 21.2#

236 30.0 23.1 34.7



#30

Pyrene

Concen: 0.963 ng

RT: 19.486 min Scan# 2065

Delta R.T. 0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

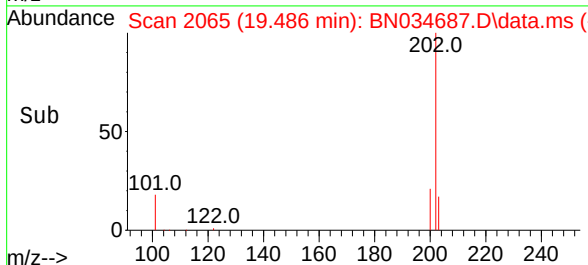
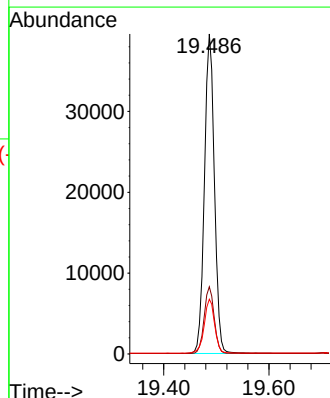
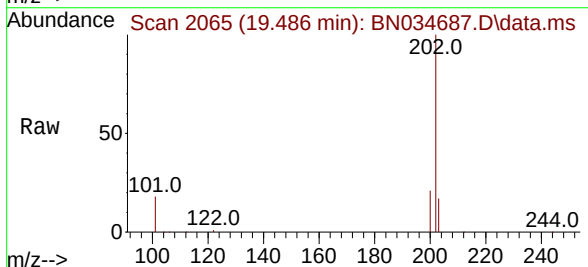
Tgt Ion:202 Resp: 51944

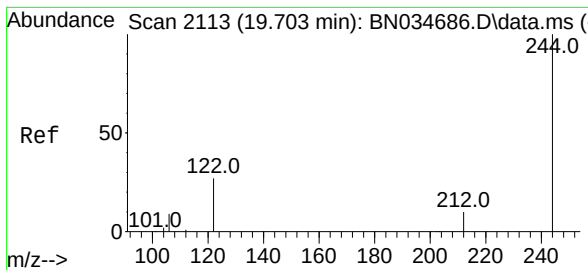
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

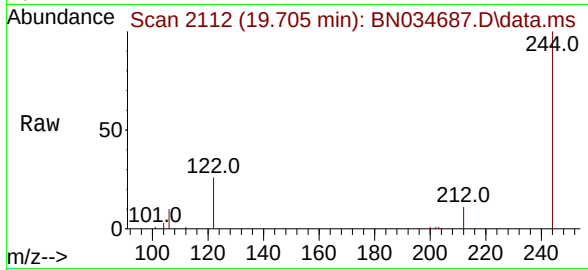
203 17.5 14.2 21.4



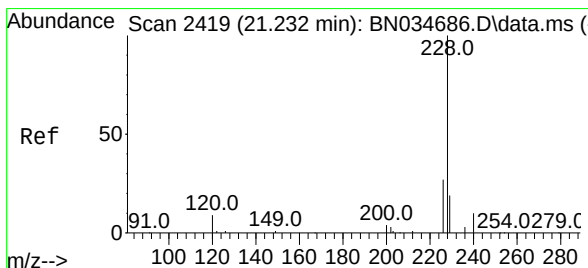
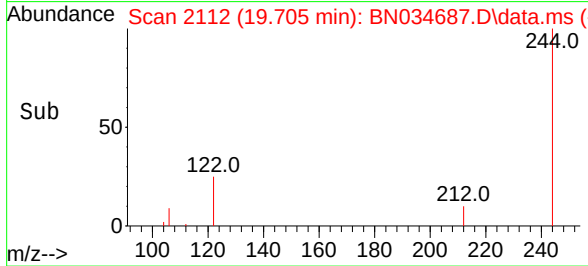
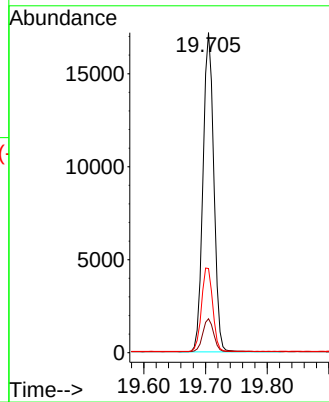


#31
 Terphenyl-d14
 Concen: 0.896 ng
 RT: 19.705 min Scan# 2112
 Delta R.T. 0.002 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

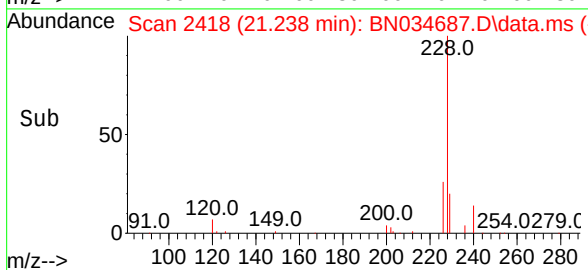
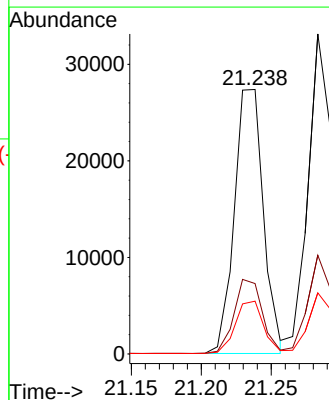
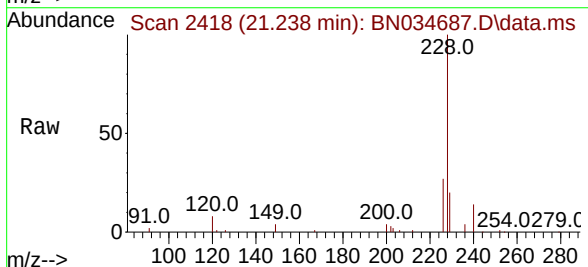


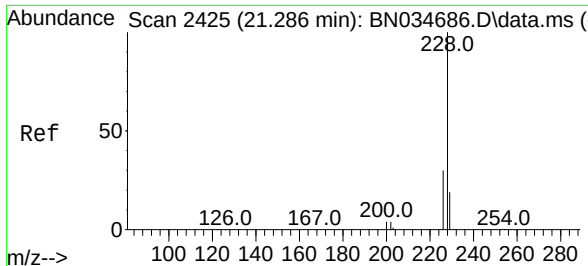
Tgt Ion:244 Resp: 20915
 Ion Ratio Lower Upper
 244 100
 212 10.6 8.6 13.0
 122 26.3 22.3 33.5



#32
 Benzo(a)anthracene
 Concen: 0.860 ng
 RT: 21.238 min Scan# 2418
 Delta R.T. 0.006 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

Tgt Ion:228 Resp: 39570
 Ion Ratio Lower Upper
 228 100
 226 26.6 22.0 33.0
 229 20.0 15.6 23.4





#33

Chrysene

Concen: 0.906 ng

RT: 21.283 min Scan# 2425

Delta R.T. -0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

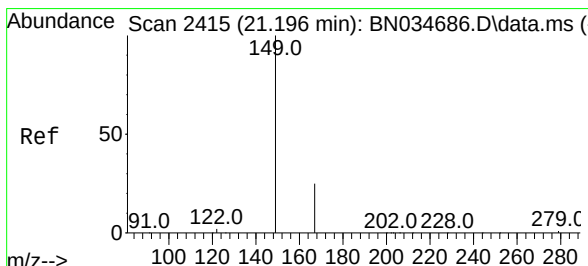
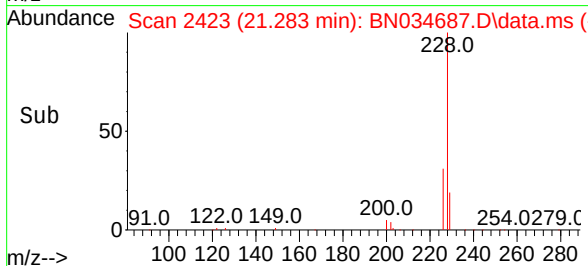
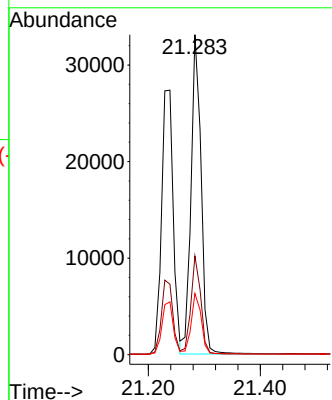
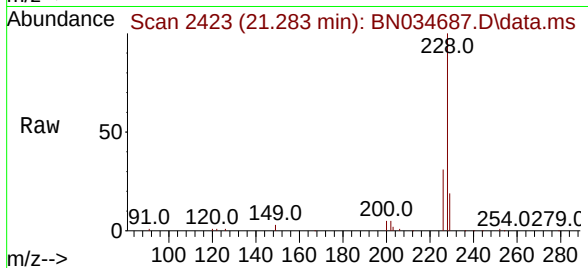
Tgt Ion:228 Resp: 41243

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 19.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.650 ng

RT: 21.203 min Scan# 2414

Delta R.T. 0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

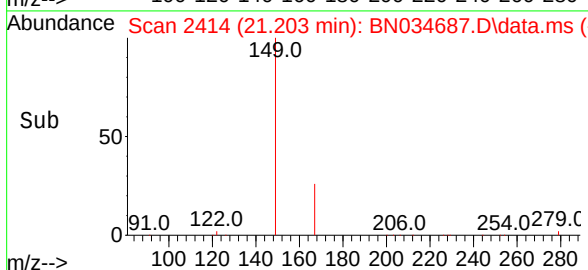
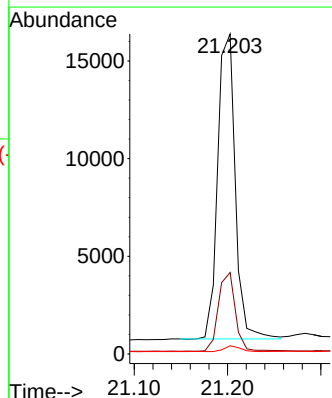
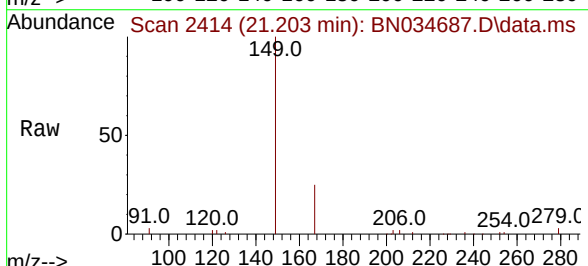
Tgt Ion:149 Resp: 20342

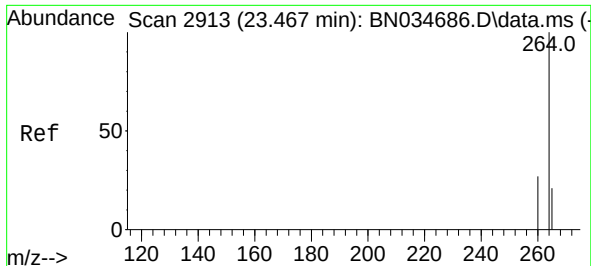
Ion Ratio Lower Upper

149 100

167 25.0 19.7 29.5

279 1.7 1.8 2.6#

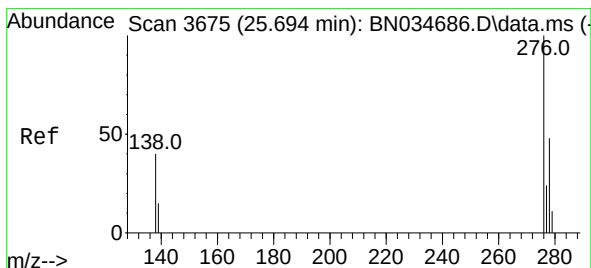
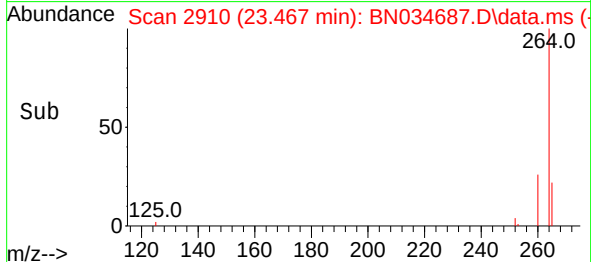
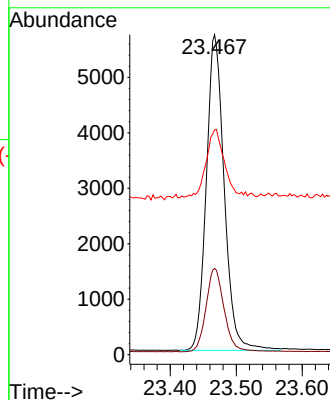
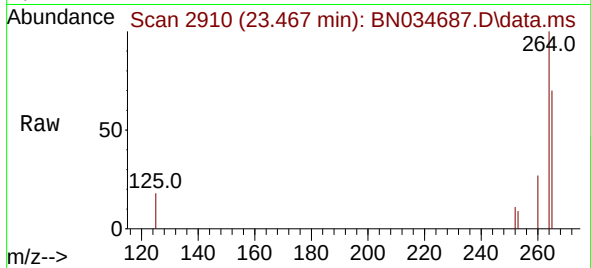




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.467 min Scan# 2913
Delta R.T. 0.001 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

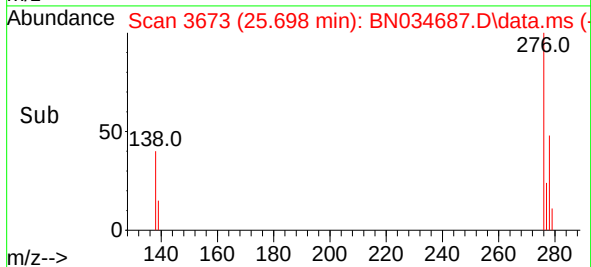
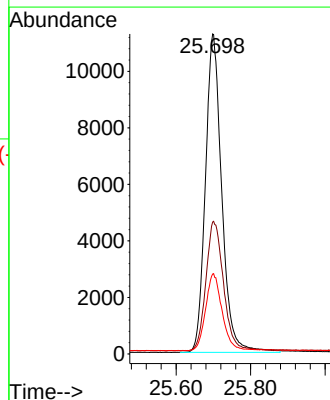
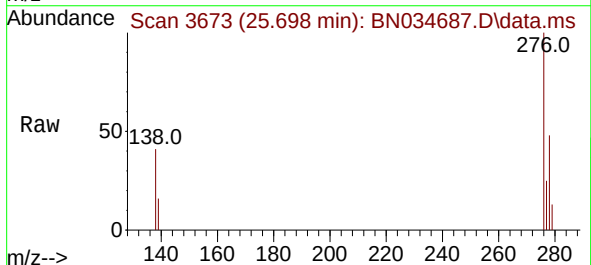
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

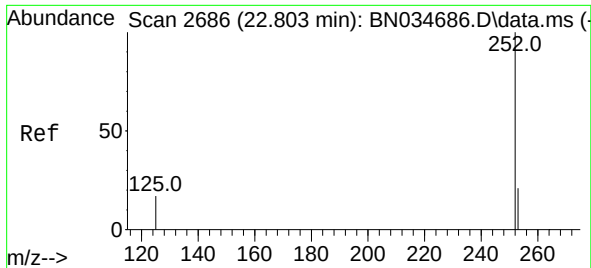
Tgt Ion:264 Resp: 10772
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 70.3 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.828 ng
RT: 25.698 min Scan# 3673
Delta R.T. 0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

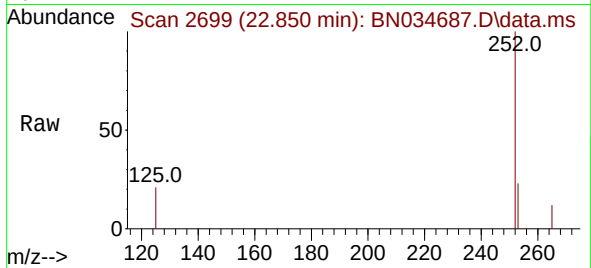
Tgt Ion:276 Resp: 34379
Ion Ratio Lower Upper
276 100
138 43.6 35.1 52.7
277 24.4 19.7 29.5



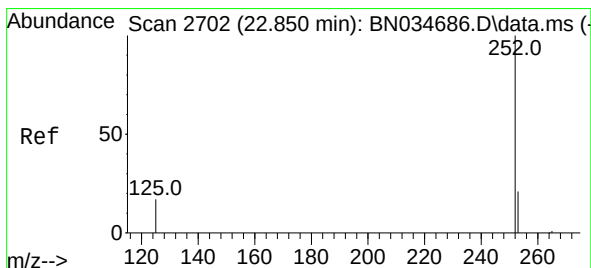
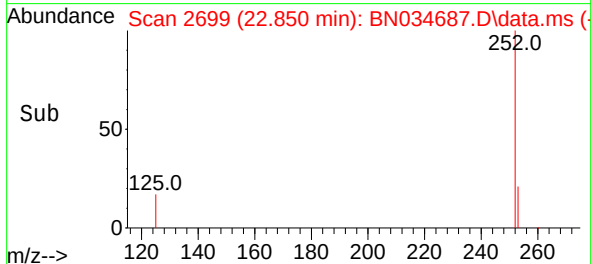
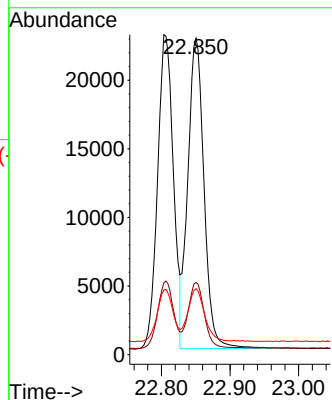


#37
Benzo(b)fluoranthene
Concen: 0.954 ng
RT: 22.850 min Scan# 2699
Delta R.T. 0.047 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

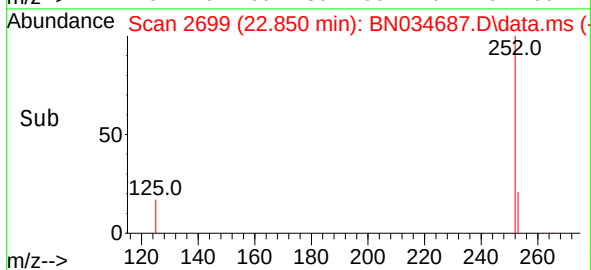
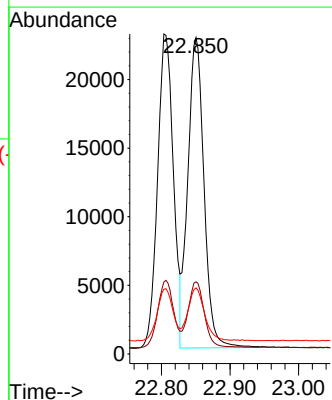
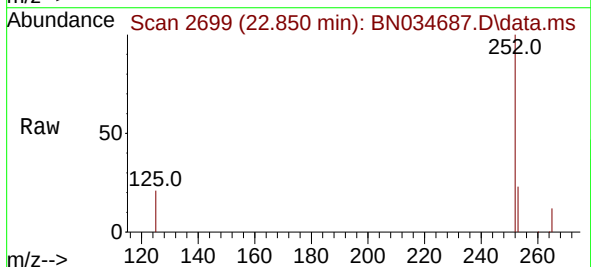


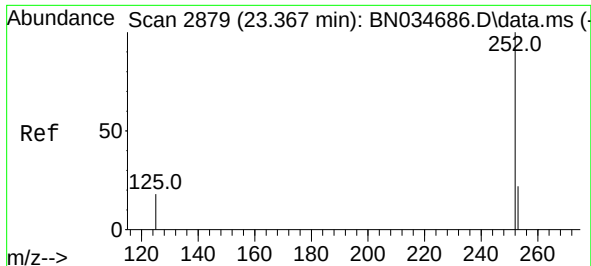
Tgt Ion:252 Resp: 37118
Ion Ratio Lower Upper
252 100
253 22.8 20.0 30.0
125 20.9 20.9 31.3



#38
Benzo(k)fluoranthene
Concen: 0.977 ng
RT: 22.850 min Scan# 2699
Delta R.T. 0.001 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Tgt Ion:252 Resp: 37118
Ion Ratio Lower Upper
252 100
253 22.8 20.6 31.0
125 20.9 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 0.892 ng

RT: 23.371 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

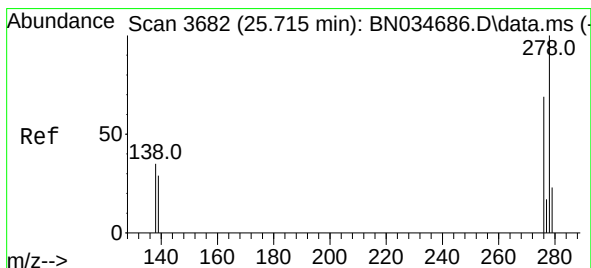
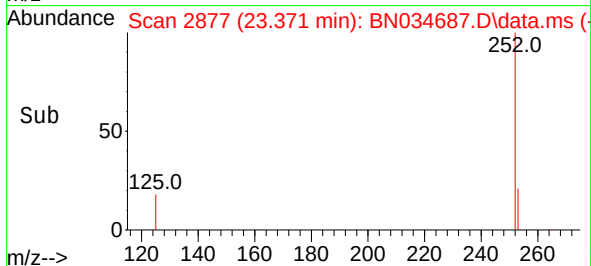
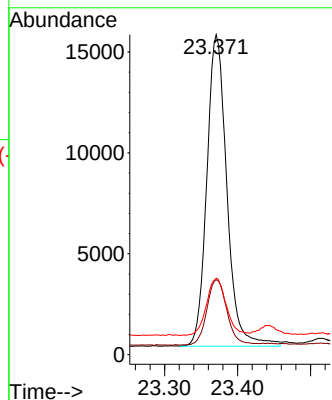
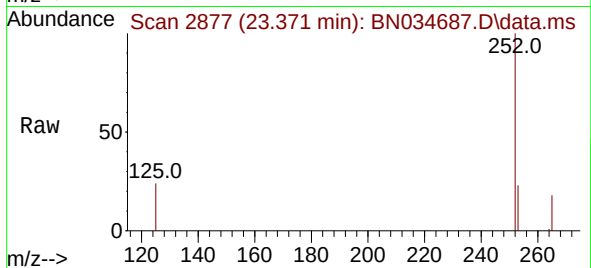
Tgt Ion:252 Resp: 29490

Ion Ratio Lower Upper

252 100

253 23.4 22.2 33.4

125 23.9 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.823 ng

RT: 25.718 min Scan# 3680

Delta R.T. 0.004 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

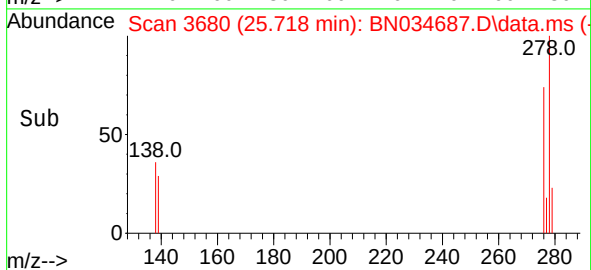
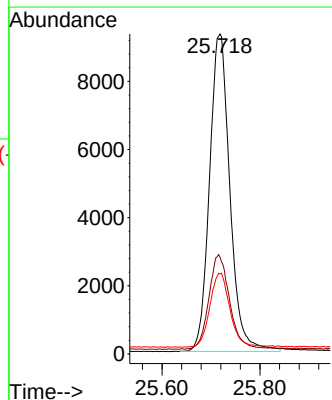
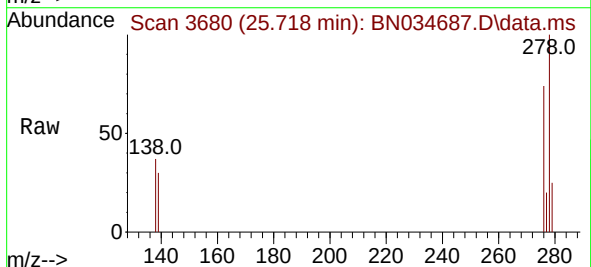
Tgt Ion:278 Resp: 26850

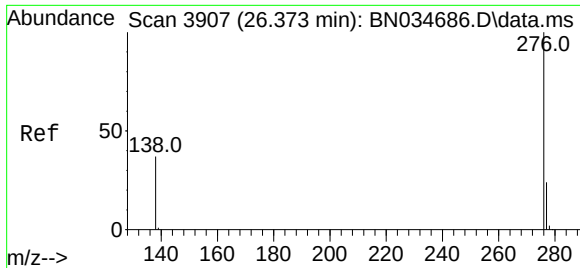
Ion Ratio Lower Upper

278 100

139 30.3 25.4 38.2

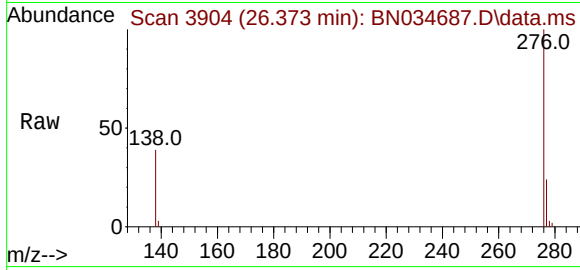
279 25.0 22.4 33.6



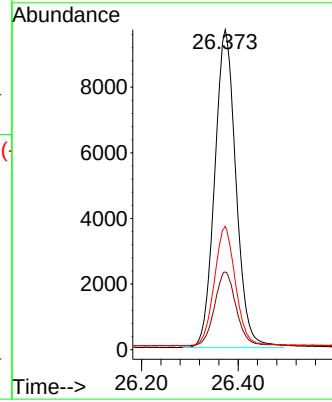
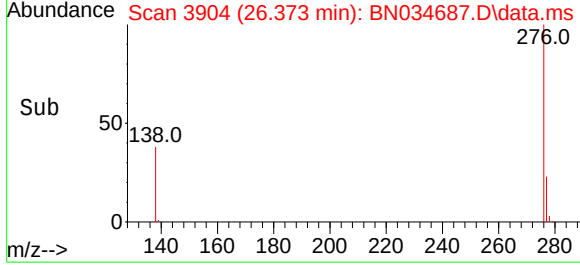


#41
 Benzo(g,h,i)perylene
 Concen: 0.824 ng
 RT: 26.373 min Scan# 30
 Delta R.T. 0.001 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8



Tgt Ion:	276	Resp:	29665
Ion Ratio	Lower	Upper	
276	100		
277	24.2	21.3	31.9
138	38.6	31.9	47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034691.D
 Acq On : 24 Oct 2024 14:14
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424

Quant Time: Oct 24 14:43:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 13:17:02 2024
 Response via : Initial Calibration

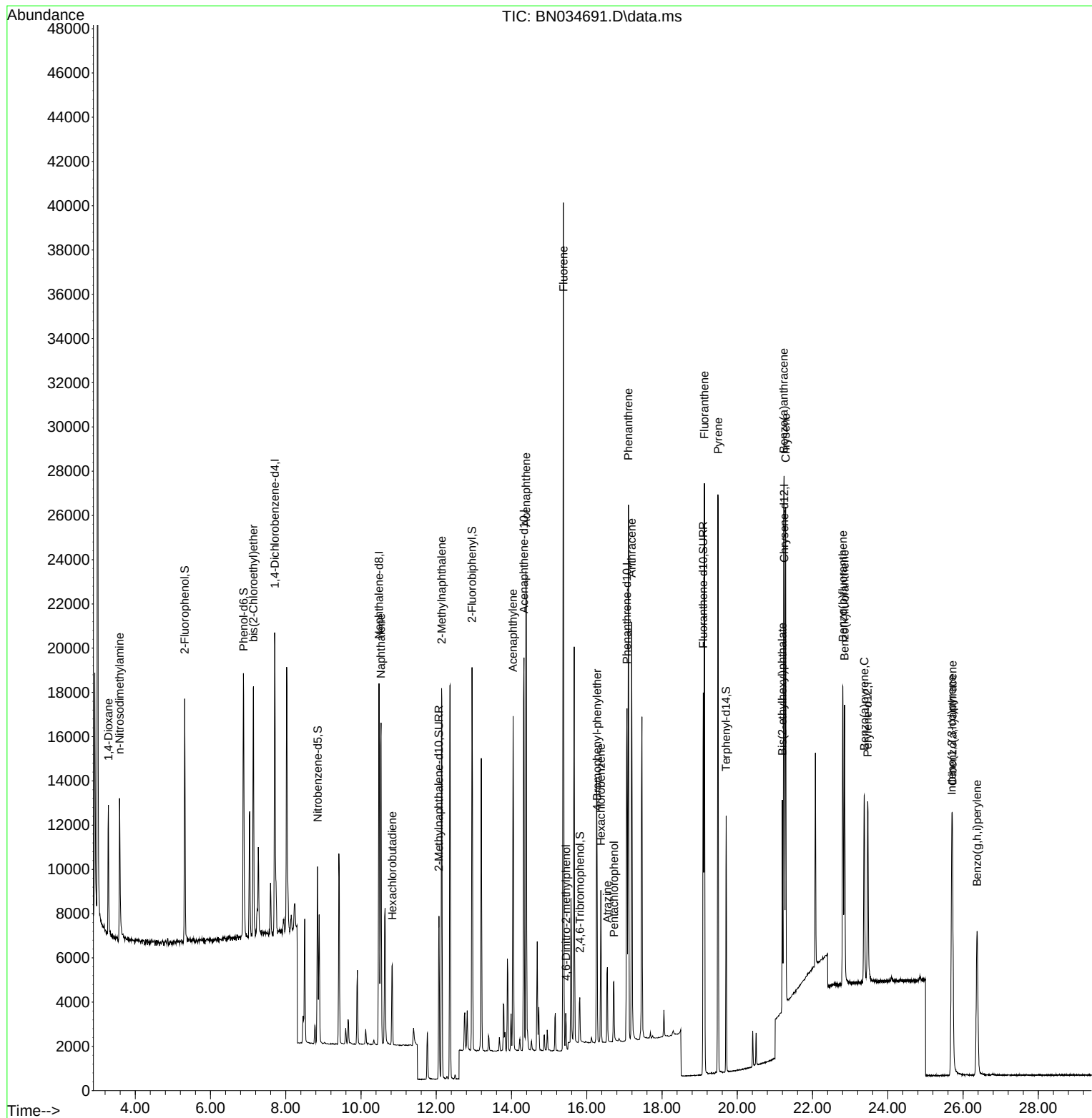
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	6674	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19848	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	10372	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	21015	0.400	ng	0.00
29) Chrysene-d12	21.250	240	12401	0.400	ng	0.00
35) Perylene-d12	23.466	264	10594	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.314	112	7964	0.401	ng	0.00
5) Phenol-d6	6.882	99	10366	0.396	ng	0.00
8) Nitrobenzene-d5	8.845	82	5758	0.346	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	9741	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	1099	0.343	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	14035	0.341	ng	0.00
27) Fluoranthene-d10	19.094	212	16566	0.350	ng	0.00
31) Terphenyl-d14	19.703	244	9400	0.371	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	3154	0.355	ng	100
3) n-Nitrosodimethylamine	3.581	42	4576	0.354	ng	# 97
6) bis(2-Chloroethyl)ether	7.141	93	7850	0.369	ng	99
9) Naphthalene	10.532	128	19666	0.358	ng	100
10) Hexachlorobutadiene	10.831	225	2964	0.360	ng	# 99
12) 2-Methylnaphthalene	12.143	142	12146	0.356	ng	98
16) Acenaphthylene	14.040	152	16384	0.329	ng	99
17) Acenaphthene	14.382	154	11510	0.335	ng	99
18) Fluorene	15.377	166	14579	0.344	ng	99
20) 4,6-Dinitro-2-methylph...	15.451	198	947	0.324	ng	88
21) 4-Bromophenyl-phenylether	16.275	248	3884	0.347	ng	98
22) Hexachlorobenzene	16.374	284	4355	0.358	ng	98
23) Atrazine	16.548	200	2928	0.333	ng	99
24) Pentachlorophenol	16.721	266	1463	0.340	ng	98
25) Phenanthrene	17.106	178	22550	0.357	ng	100
26) Anthracene	17.193	178	19340	0.345	ng	100
28) Fluoranthene	19.127	202	22945	0.348	ng	100
30) Pyrene	19.489	202	23297	0.366	ng	100
32) Benzo(a)anthracene	21.232	228	16543	0.349	ng	99
33) Chrysene	21.286	228	17696	0.361	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	8375	0.312	ng	100
36) Indeno(1,2,3-cd)pyrene	25.697	276	14157	0.347	ng	100
37) Benzo(b)fluoranthene	22.803	252	15350	0.363	ng	99
38) Benzo(k)fluoranthene	22.850	252	14742	0.353	ng	99
39) Benzo(a)pyrene	23.373	252	12054	0.355	ng	99
40) Dibenzo(a,h)anthracene	25.718	278	11142	0.346	ng	99
41) Benzo(g,h,i)perylene	26.373	276	12576	0.354	ng	99

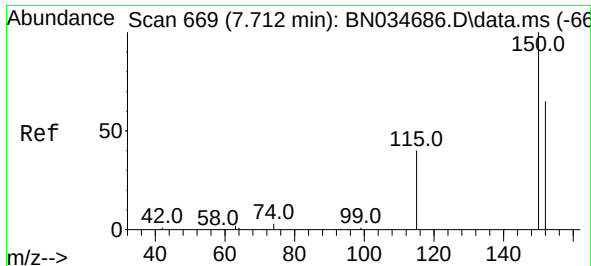
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034691.D
Acq On : 24 Oct 2024 14:14
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

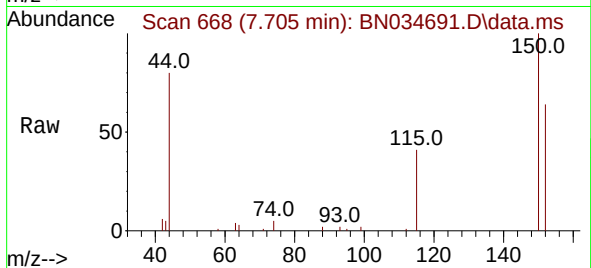
Quant Time: Oct 24 14:43:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



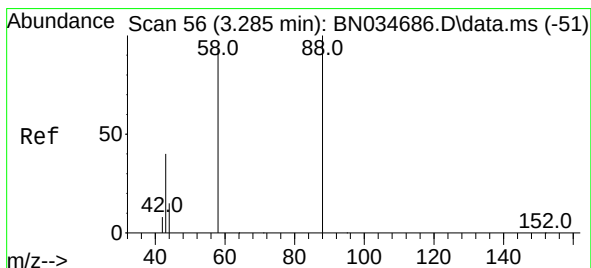
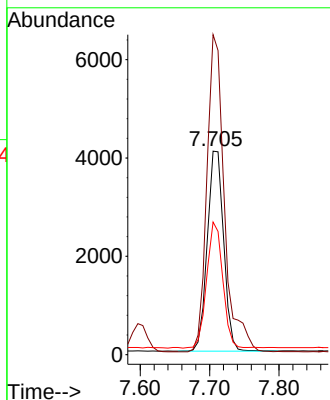
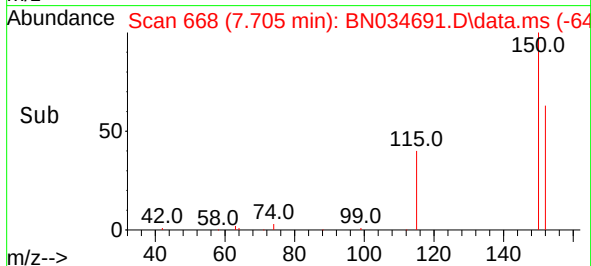


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.705 min Scan# 669
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

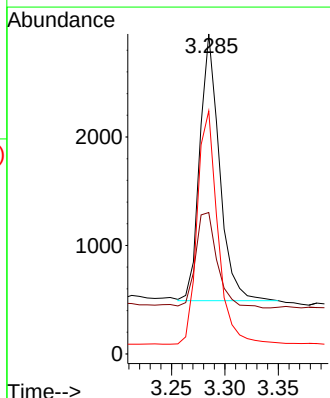
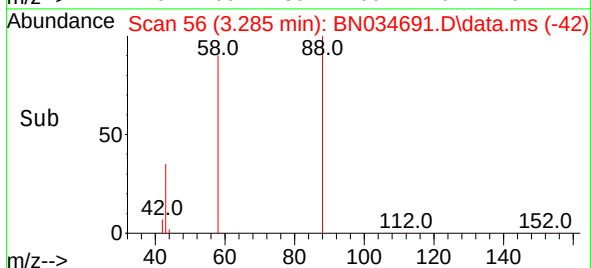
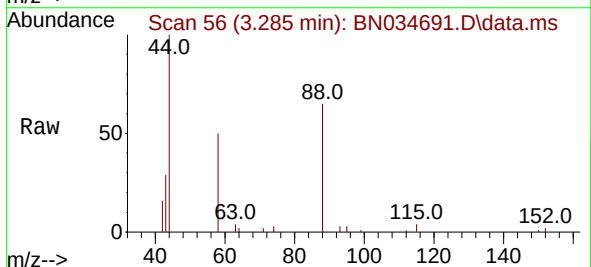


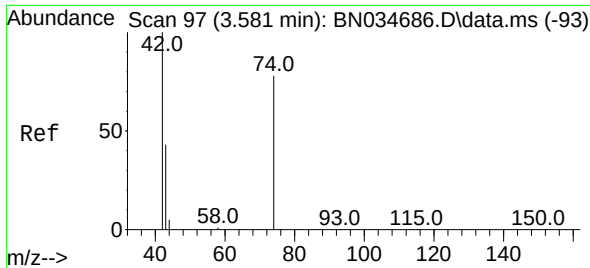
Tgt Ion: 152 Resp: 6674
Ion Ratio Lower Upper
152 100
150 157.2 122.7 184.1
115 65.2 51.0 76.6



#2
1,4-Dioxane
Concen: 0.355 ng
RT: 3.285 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion: 88 Resp: 3154
Ion Ratio Lower Upper
88 100
43 39.5 32.1 48.1
58 91.9 73.7 110.5

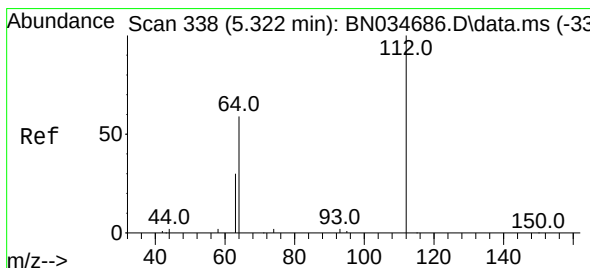
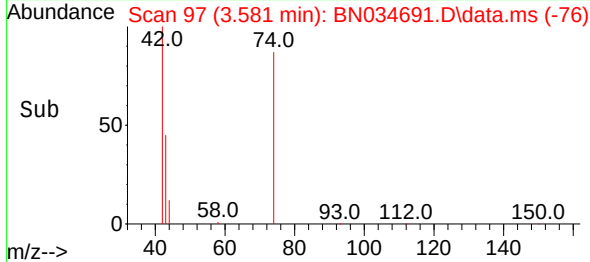
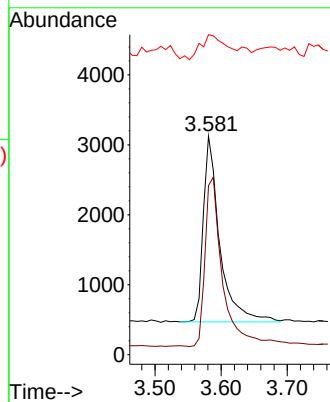
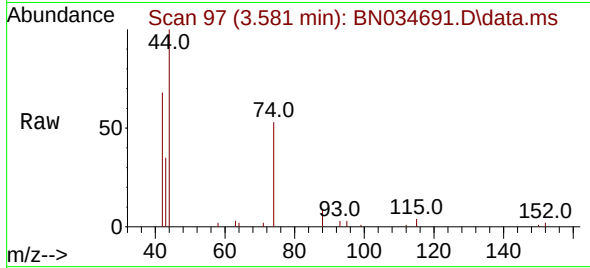




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.581 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

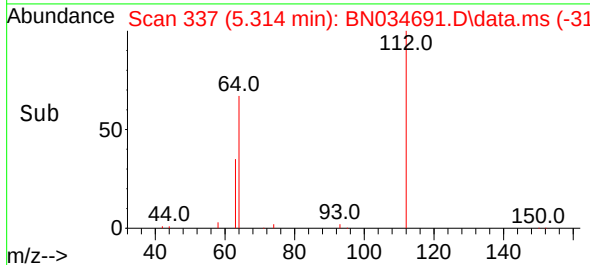
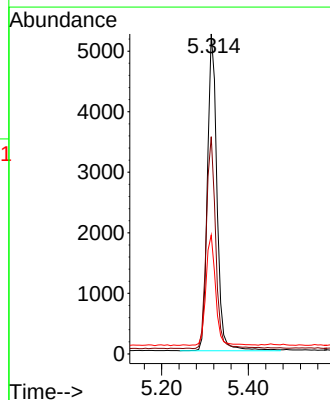
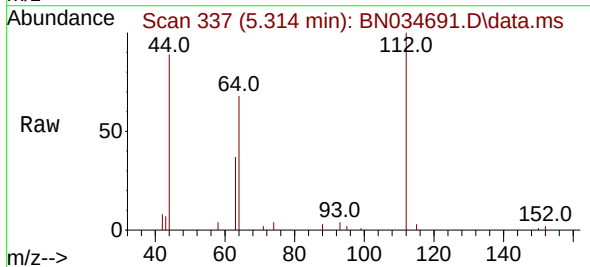
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

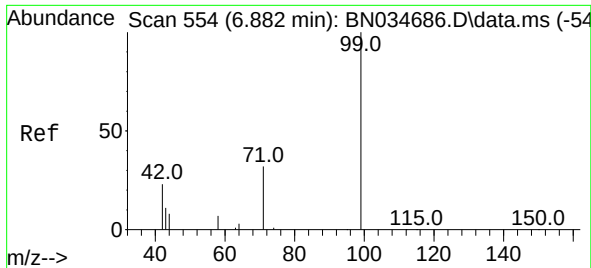
Tgt Ion: 42 Resp: 4576
Ion Ratio Lower Upper
42 100
74 98.6 77.2 115.8
44 20.5 13.4 20.2#



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 5.314 min Scan# 337
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion: 112 Resp: 7964
Ion Ratio Lower Upper
112 100
64 66.0 53.0 79.6
63 35.2 27.6 41.4

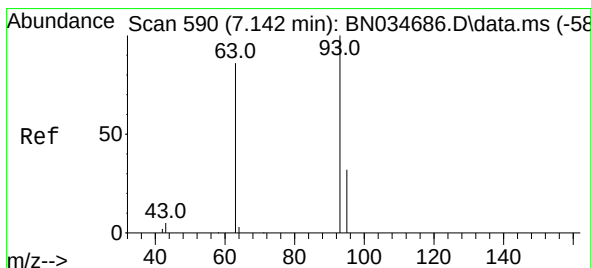
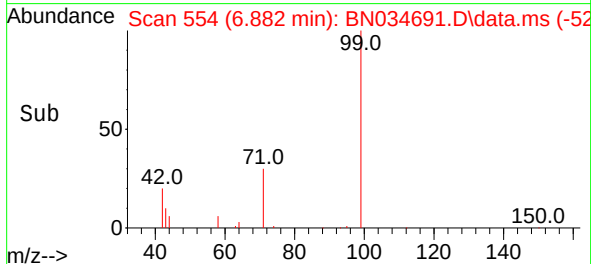
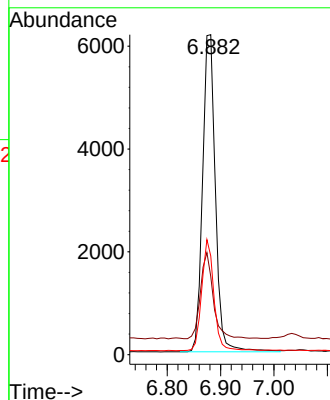
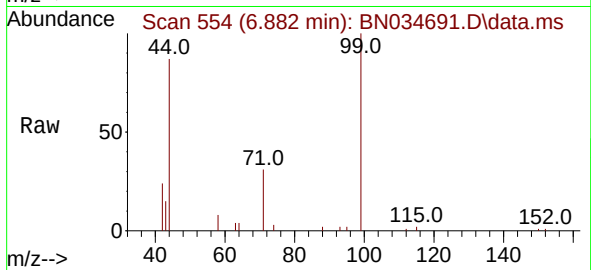




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.882 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

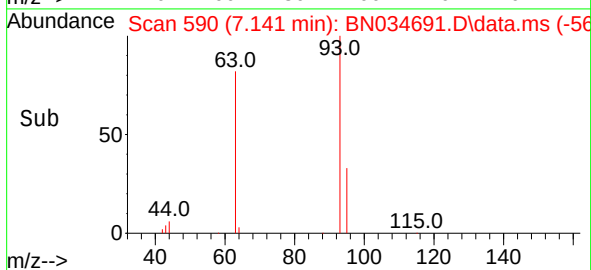
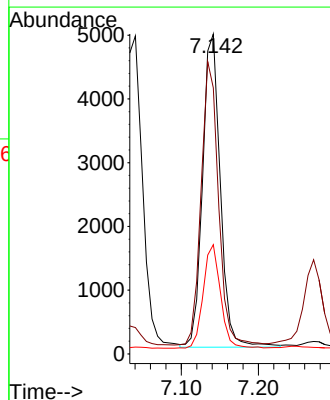
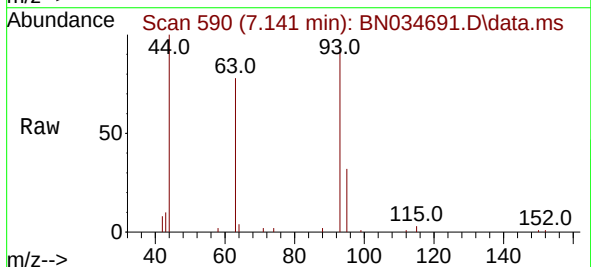
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

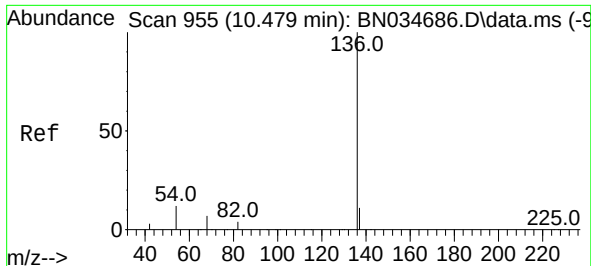
Tgt Ion: 99 Resp: 10366
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.3 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.141 min Scan# 590
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion: 93 Resp: 7850
Ion Ratio Lower Upper
93 100
63 87.8 71.5 107.3
95 32.2 25.8 38.6

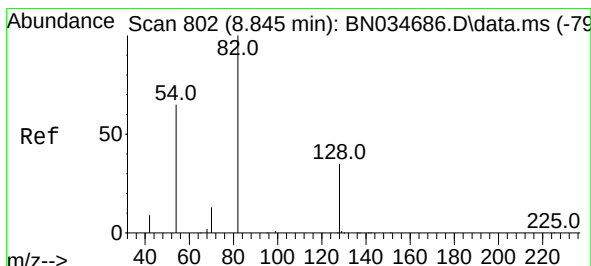
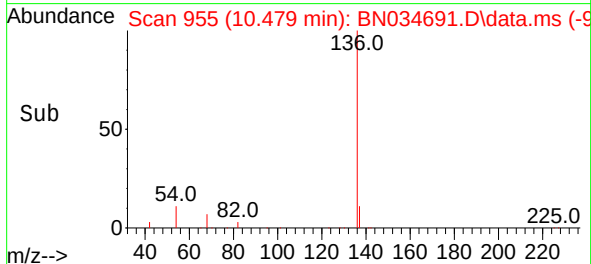
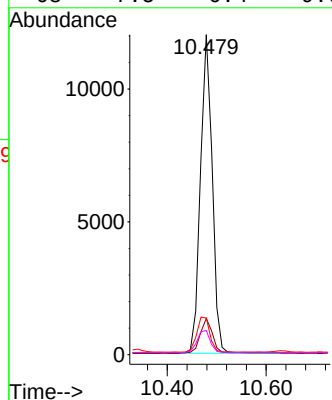
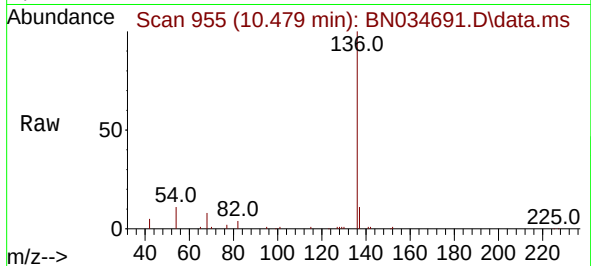




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

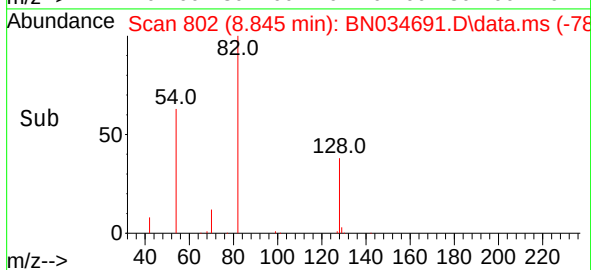
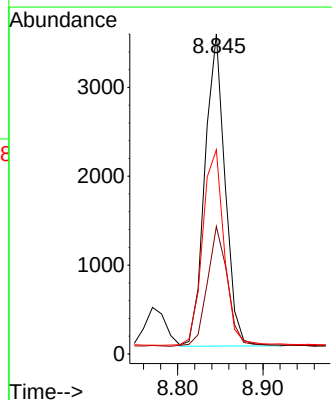
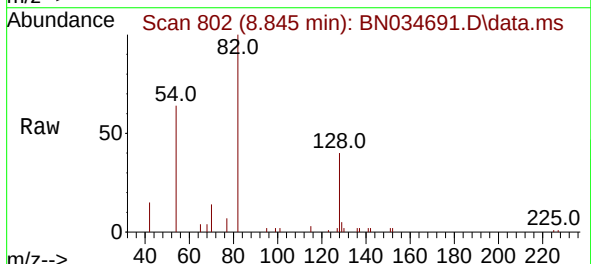
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

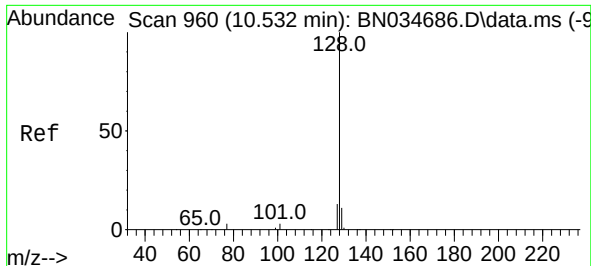
Tgt Ion:	136	Resp:	19848
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	11.4	9.8	14.8
68	7.5	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:	82	Resp:	5758
Ion Ratio	Lower	Upper	
82	100		
128	39.9	29.7	44.5
54	63.8	53.0	79.6

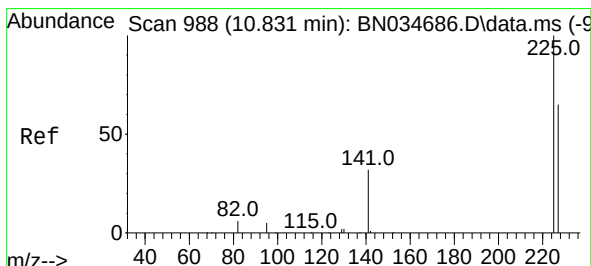
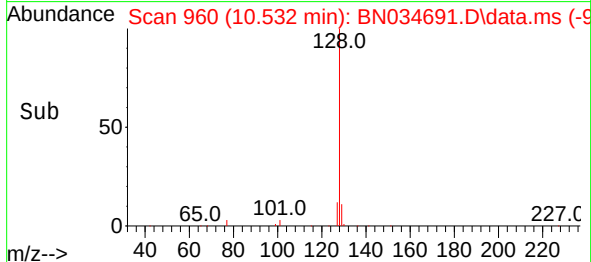
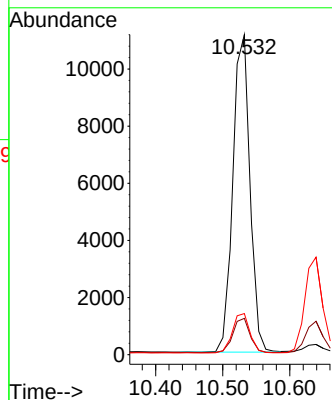
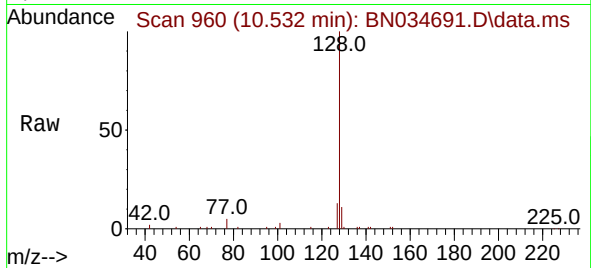




#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 901
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

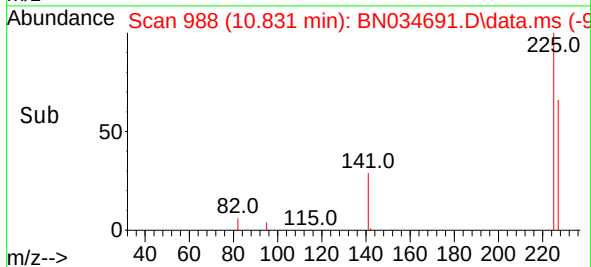
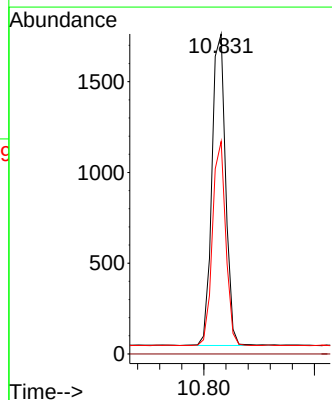
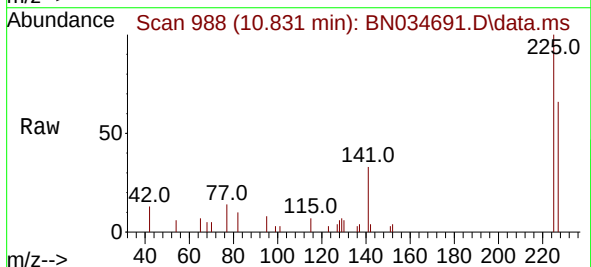
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

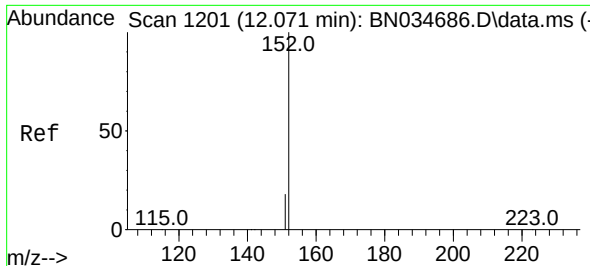
Tgt Ion:128 Resp: 19666
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 12.8 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.831 min Scan# 988
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:225 Resp: 2964
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.4 77.0





#11

2-Methylnaphthalene-d10

Concen: 0.357 ng

RT: 12.071 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

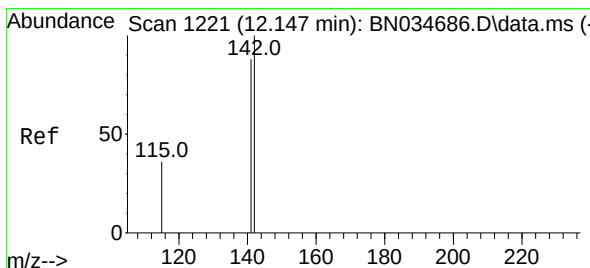
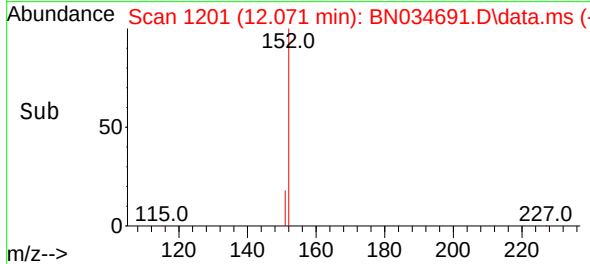
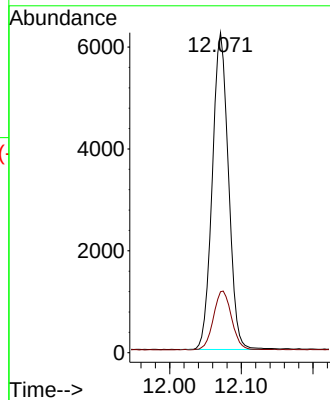
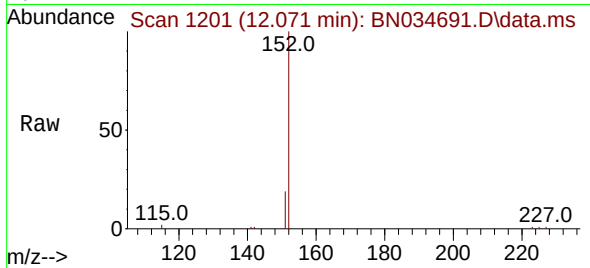
ICVBN102424

Tgt Ion:152 Resp: 9741

Ion Ratio Lower Upper

152 100

151 20.7 16.7 25.1



#12

2-Methylnaphthalene

Concen: 0.356 ng

RT: 12.143 min Scan# 1220

Delta R.T. -0.004 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

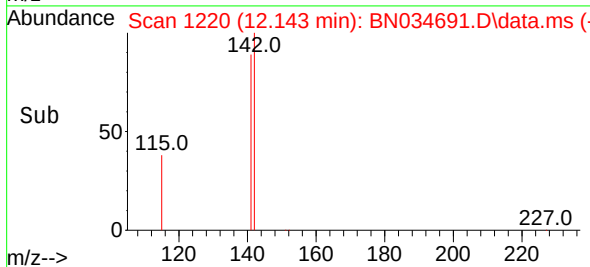
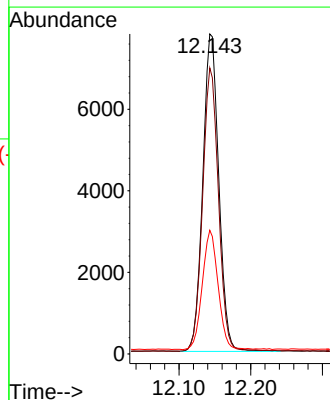
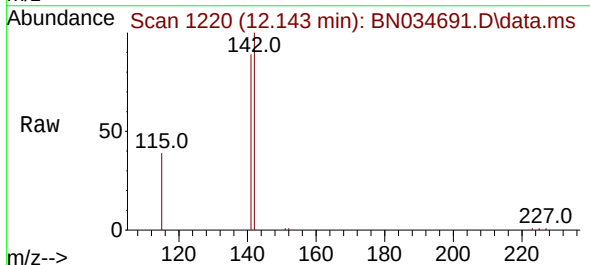
Tgt Ion:142 Resp: 12146

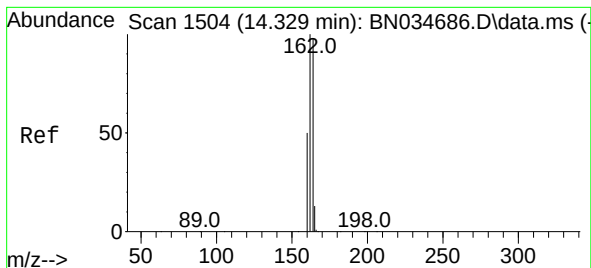
Ion Ratio Lower Upper

142 100

141 89.4 70.4 105.6

115 38.7 29.8 44.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.329 min Scan# 1504

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

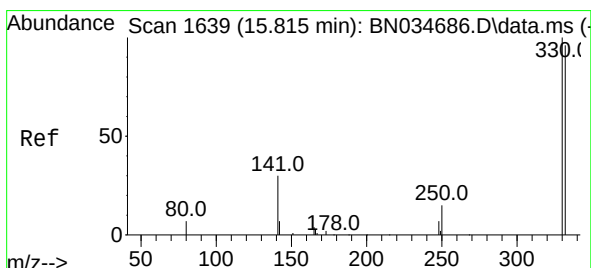
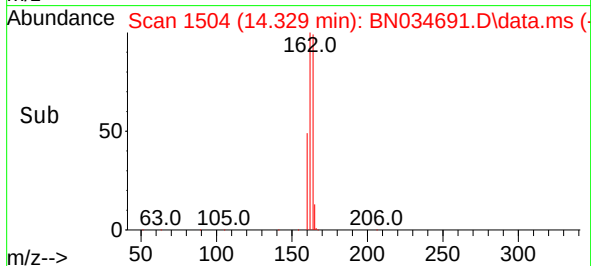
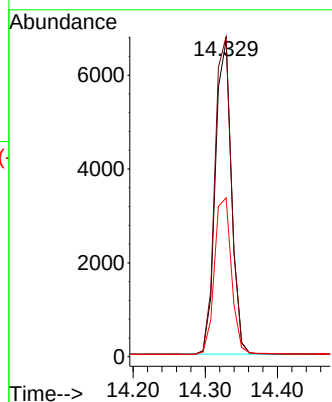
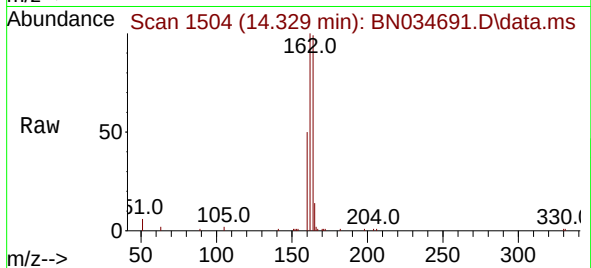
Tgt Ion:164 Resp: 10372

Ion Ratio Lower Upper

164 100

162 101.1 81.4 122.0

160 50.2 40.6 61.0



#14

2,4,6-Tribromophenol

Concen: 0.343 ng

RT: 15.815 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

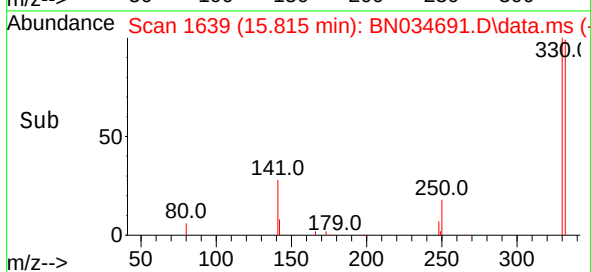
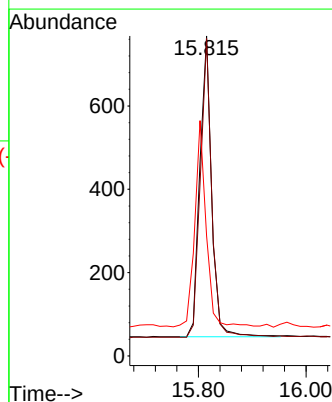
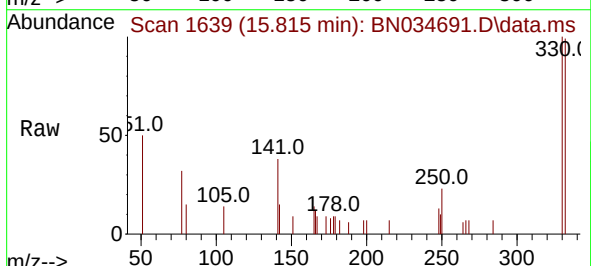
Tgt Ion:330 Resp: 1099

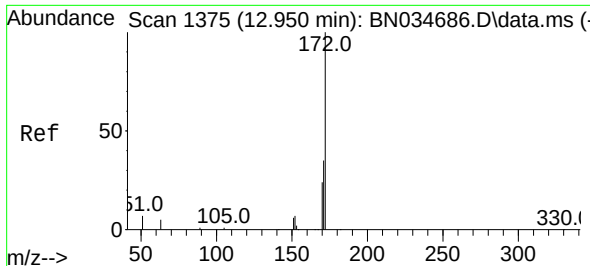
Ion Ratio Lower Upper

330 100

332 96.5 76.6 115.0

141 66.2 54.6 81.8





#15

2-Fluorobiphenyl

Concen: 0.341 ng

RT: 12.950 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

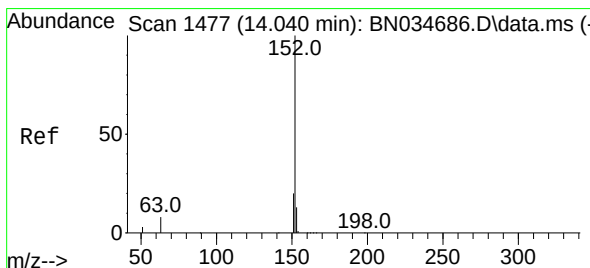
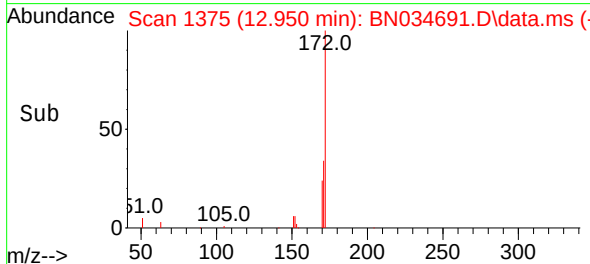
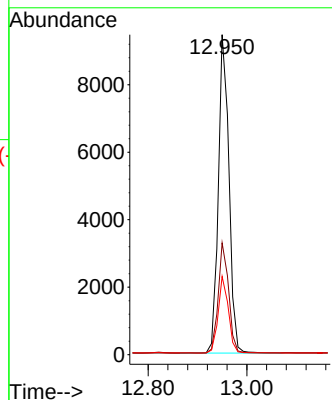
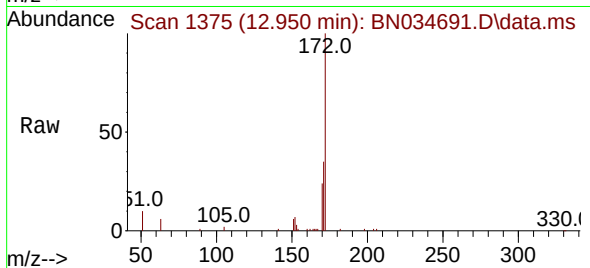
Tgt Ion:172 Resp: 14035

Ion Ratio Lower Upper

172 100

171 35.0 28.3 42.5

170 24.5 19.8 29.6



#16

Acenaphthylene

Concen: 0.329 ng

RT: 14.040 min Scan# 1477

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

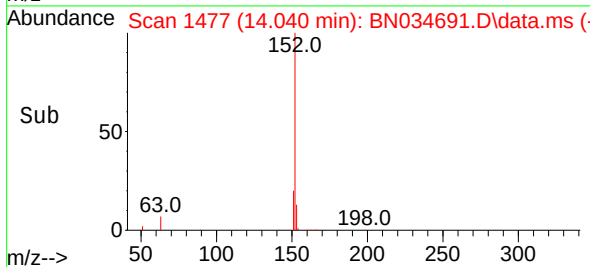
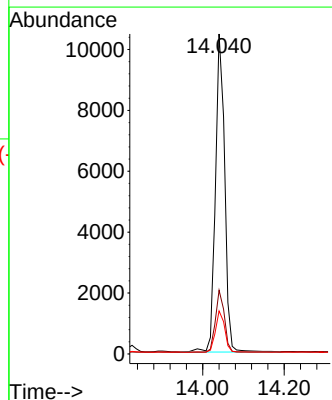
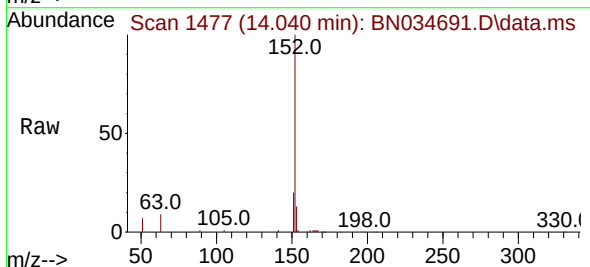
Tgt Ion:152 Resp: 16384

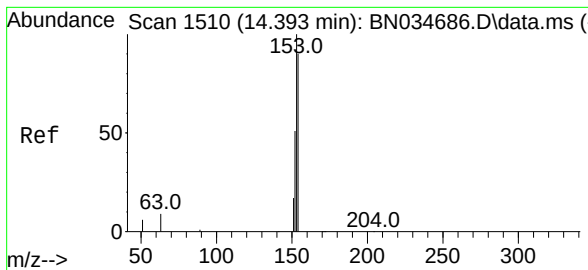
Ion Ratio Lower Upper

152 100

151 19.0 15.6 23.4

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.335 ng

RT: 14.382 min Scan# 1509

Delta R.T. -0.011 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

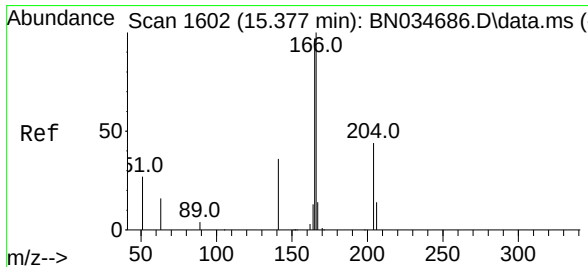
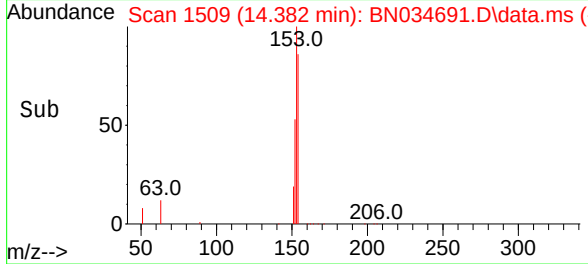
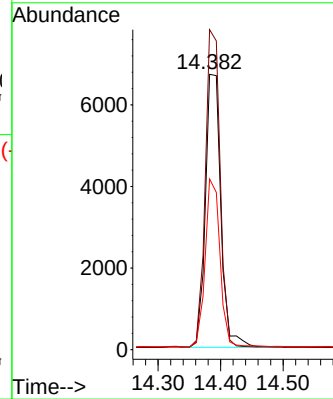
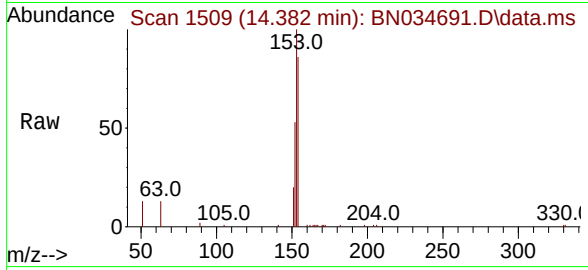
Tgt Ion:154 Resp: 11510

Ion Ratio Lower Upper

154 100

153 111.6 88.2 132.2

152 58.6 46.9 70.3



#18

Fluorene

Concen: 0.344 ng

RT: 15.377 min Scan# 1602

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

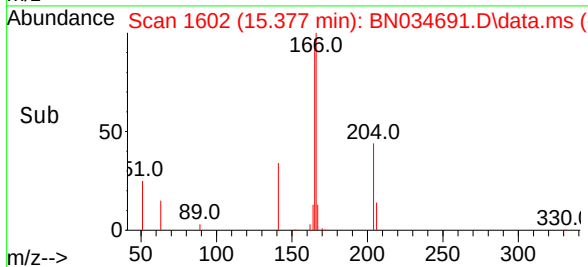
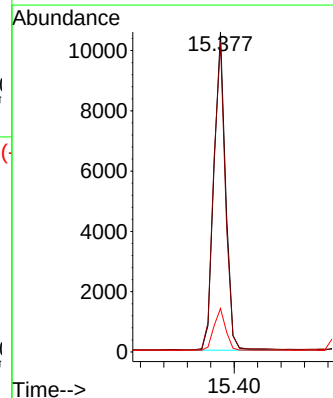
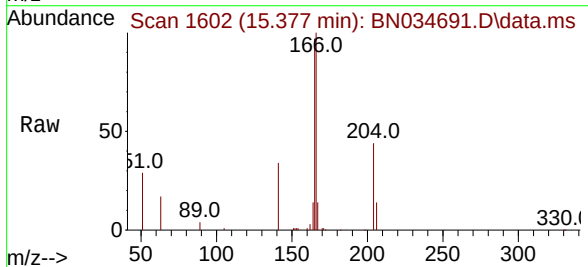
Tgt Ion:166 Resp: 14579

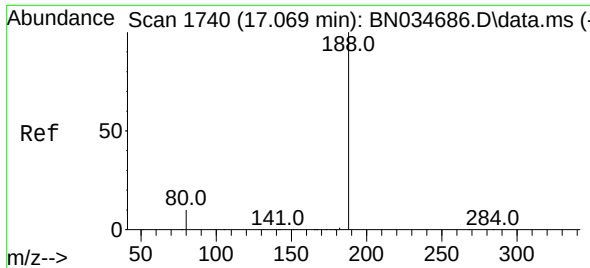
Ion Ratio Lower Upper

166 100

165 99.0 78.8 118.2

167 13.5 10.6 16.0

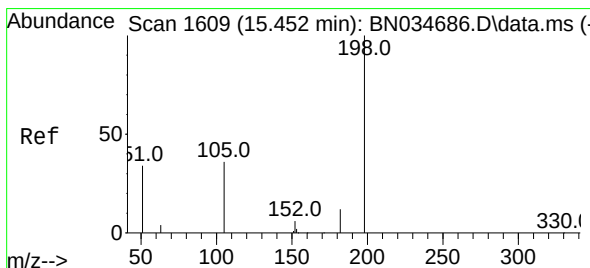
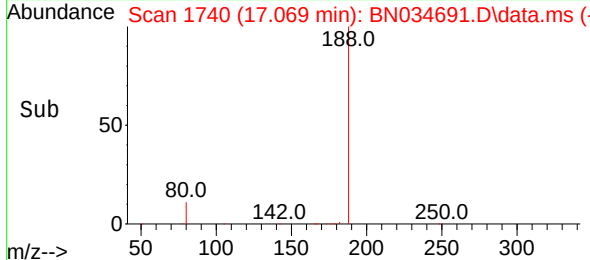
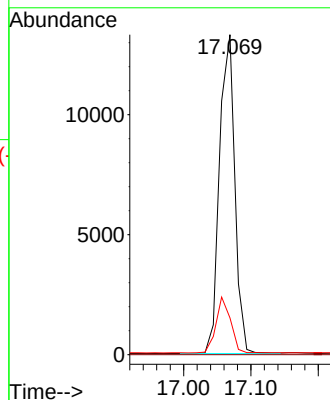
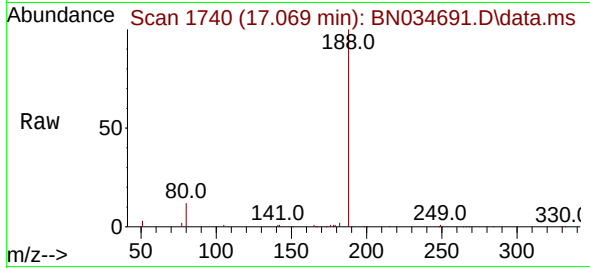




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

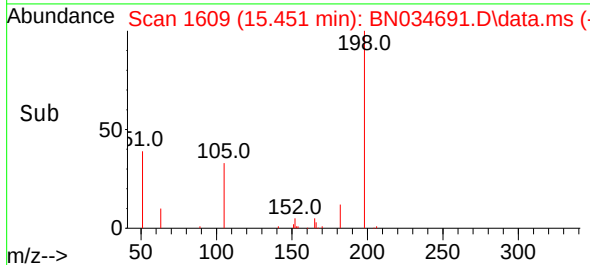
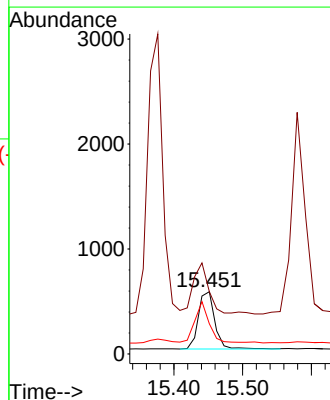
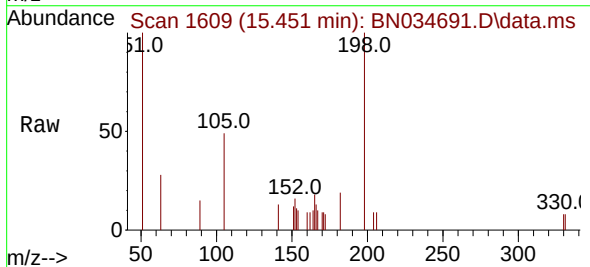
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

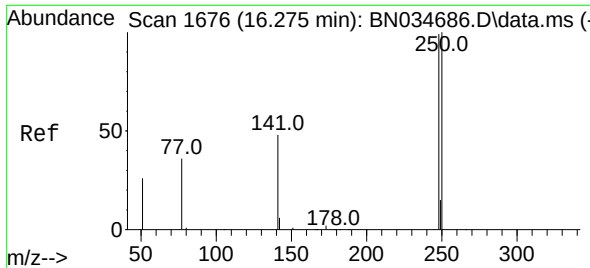
Tgt Ion:	188	Resp:	21015
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.5	8.9	13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.324 ng
RT: 15.451 min Scan# 1609
Delta R.T. -0.001 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:	198	Resp:	947
Ion Ratio	Lower	Upper	
198	100		
51	100.2	91.8	137.8
105	48.7	44.3	66.5

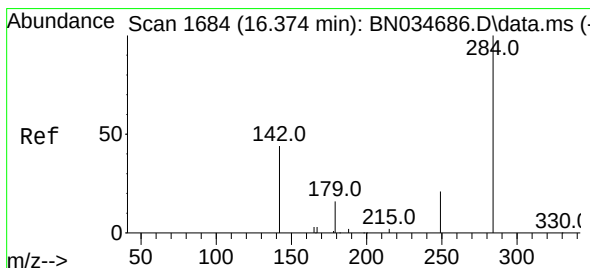
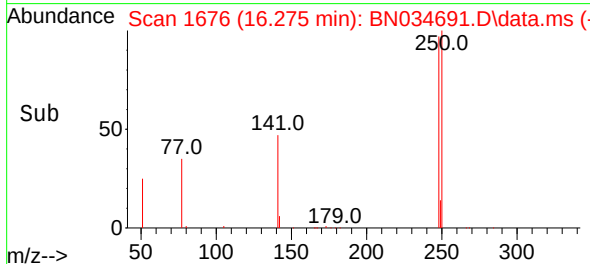
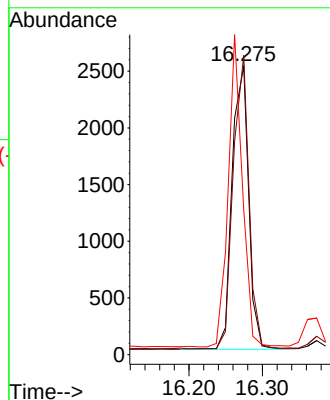
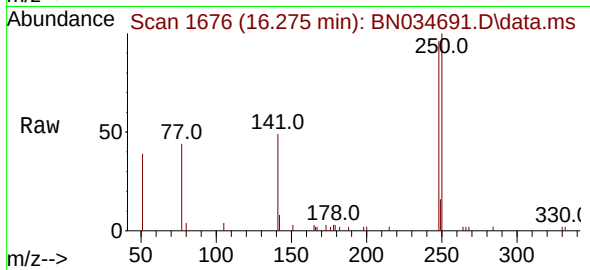




#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

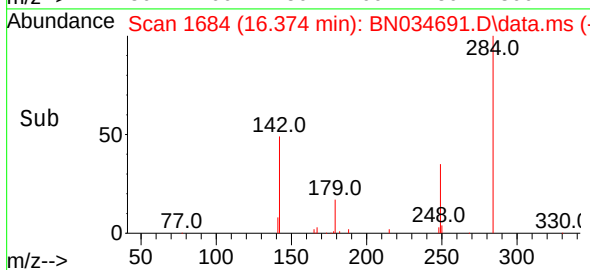
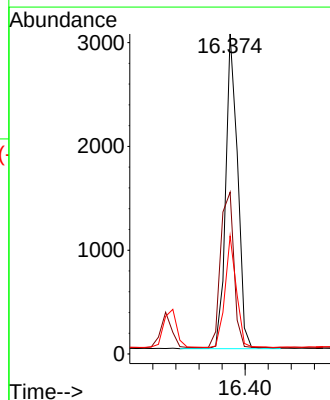
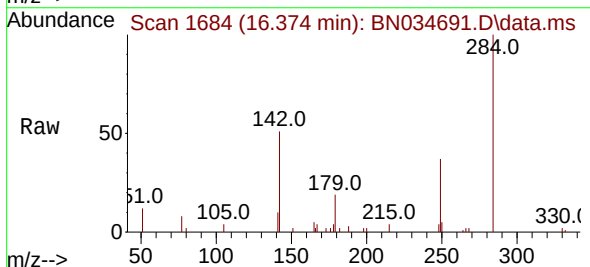
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

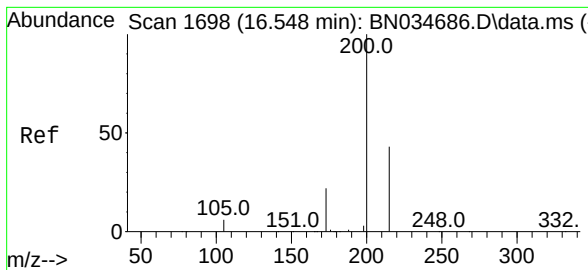
Tgt Ion:248 Resp: 3884
Ion Ratio Lower Upper
248 100
250 103.8 80.9 121.3
141 50.3 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.358 ng
RT: 16.374 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:284 Resp: 4355
Ion Ratio Lower Upper
284 100
142 55.6 43.6 65.4
249 34.2 26.6 40.0





#23

Atrazine

Concen: 0.333 ng

RT: 16.548 min Scan# 1698

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

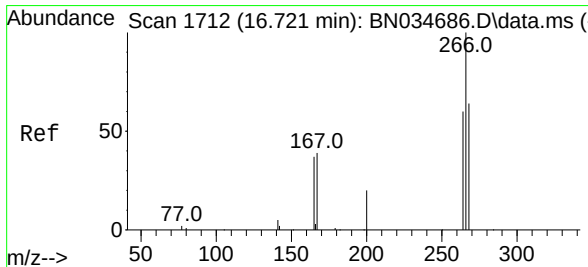
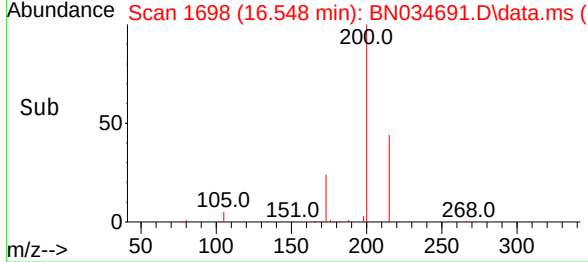
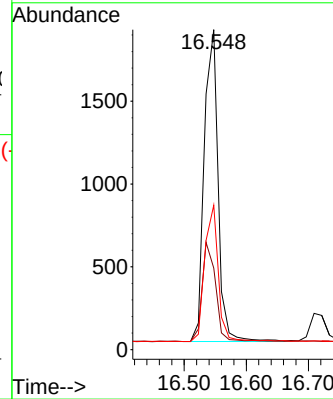
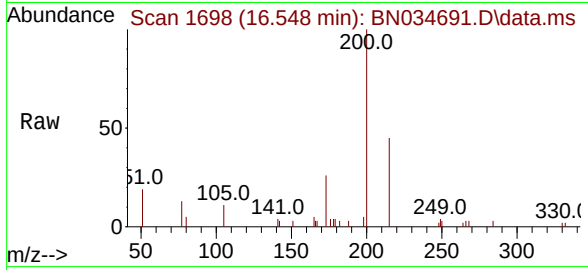
Tgt Ion:200 Resp: 2928

Ion Ratio Lower Upper

200 100

173 25.5 19.7 29.5

215 45.1 35.7 53.5



#24

Pentachlorophenol

Concen: 0.340 ng

RT: 16.721 min Scan# 1712

Delta R.T. 0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

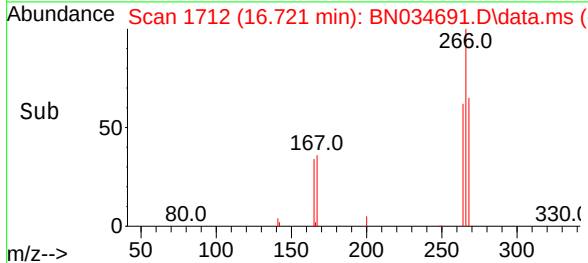
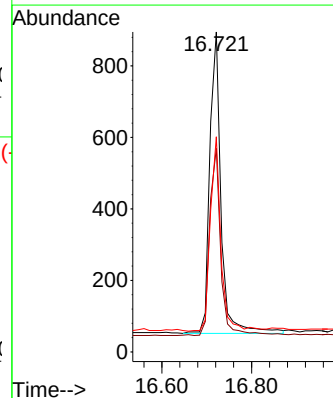
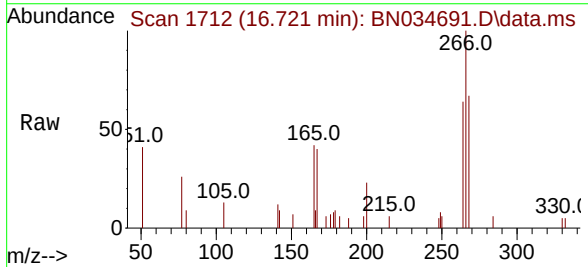
Tgt Ion:266 Resp: 1463

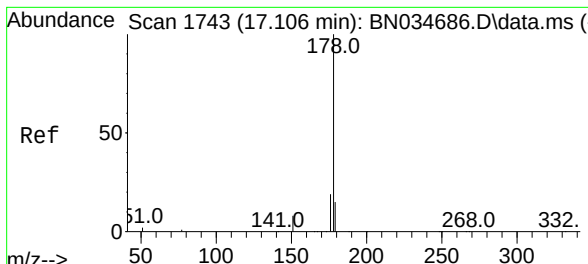
Ion Ratio Lower Upper

266 100

264 61.6 49.4 74.2

268 61.0 50.5 75.7



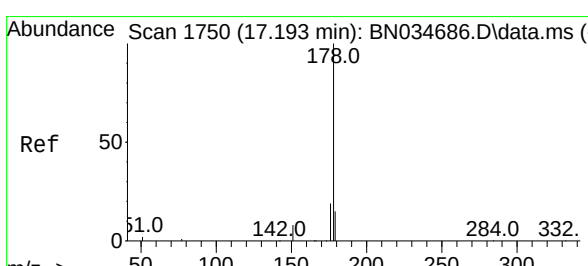
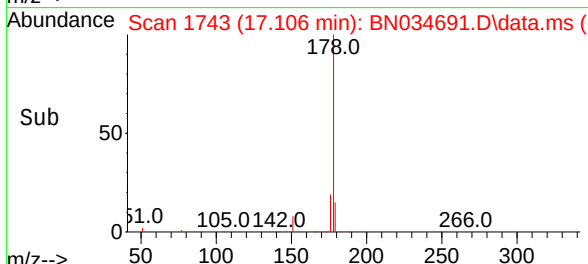
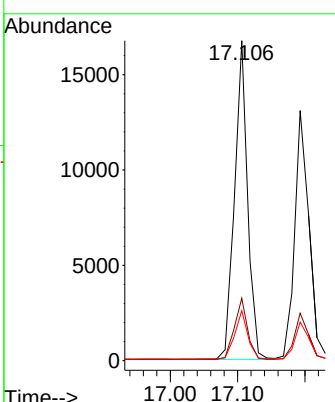
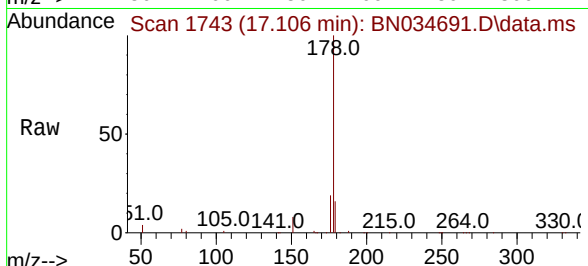


#25
 Phenanthrene
 Concen: 0.357 ng
 RT: 17.106 min Scan# 1743
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424

Tgt Ion:178 Resp: 22550

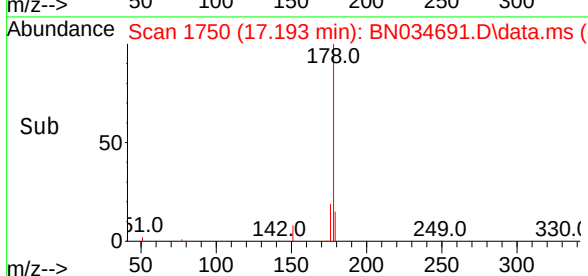
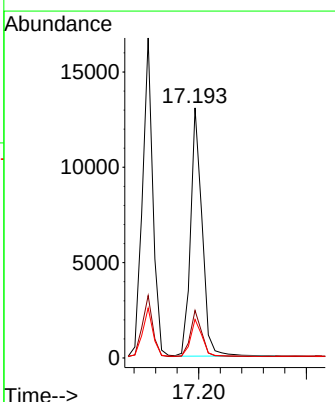
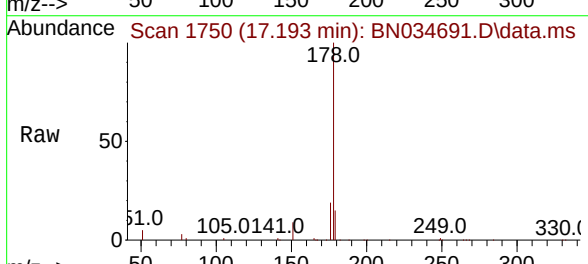
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.2	18.4

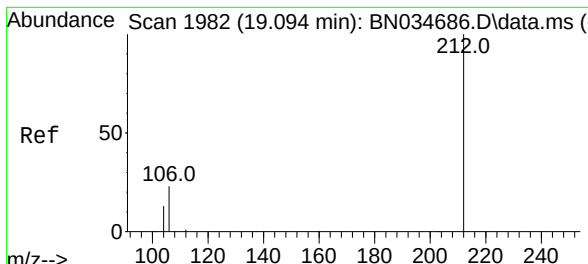


#26
 Anthracene
 Concen: 0.345 ng
 RT: 17.193 min Scan# 1750
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Tgt Ion:178 Resp: 19340

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.1	12.2	18.2

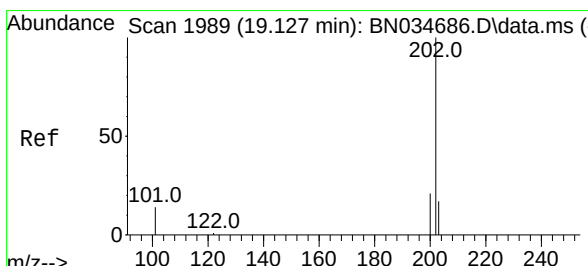
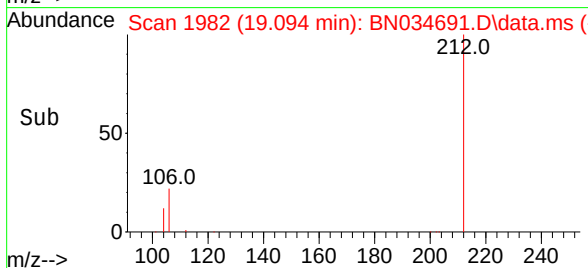
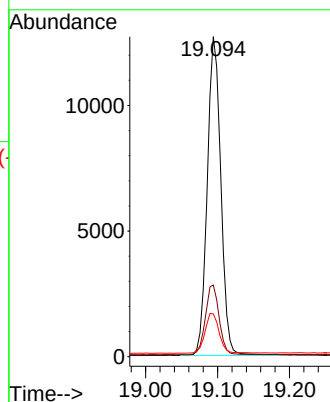
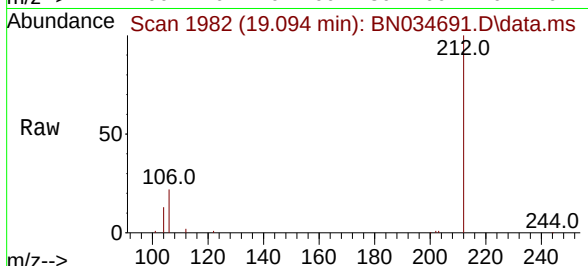




#27
 Fluoranthene-d10
 Concen: 0.350 ng
 RT: 19.094 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

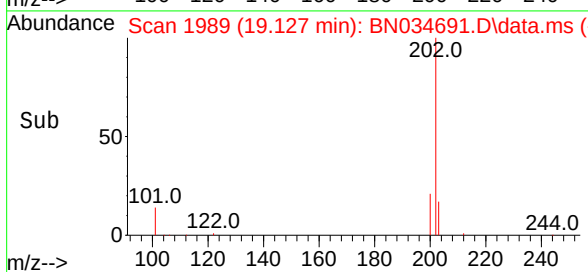
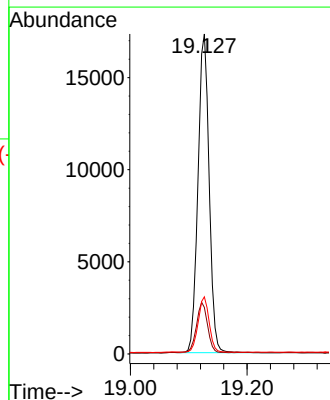
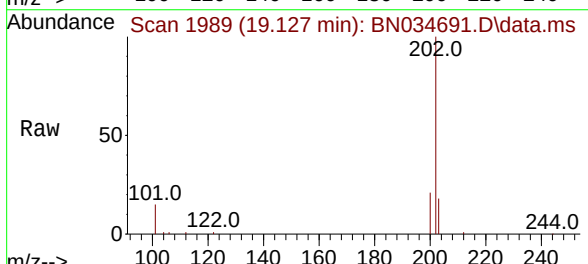
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424

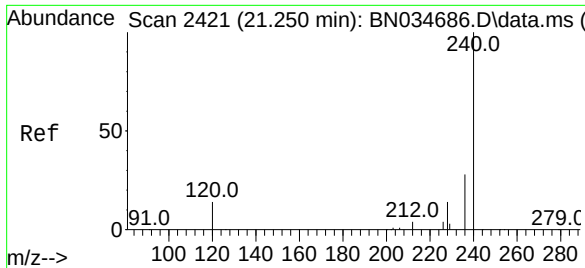
Tgt Ion:212	Resp:	16566
Ion Ratio	Lower	Upper
212	100	
106	22.2	17.8 26.8
104	13.1	10.2 15.4



#28
 Fluoranthene
 Concen: 0.348 ng
 RT: 19.127 min Scan# 1989
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Tgt Ion:202	Resp:	22945
Ion Ratio	Lower	Upper
202	100	
101	16.0	12.8 19.2
203	17.1	13.5 20.3

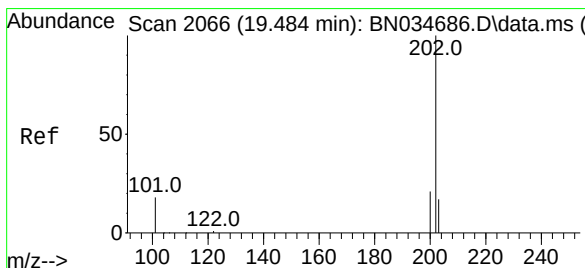
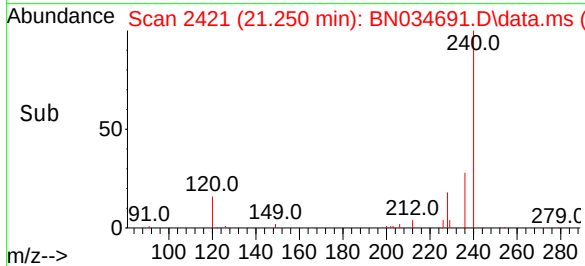
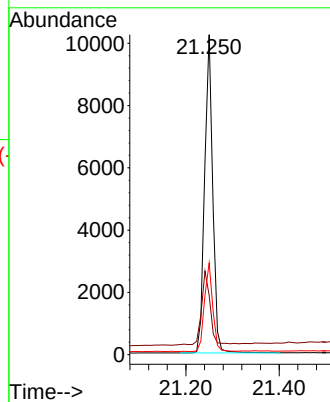
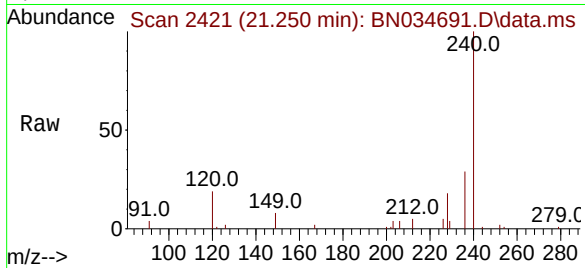




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

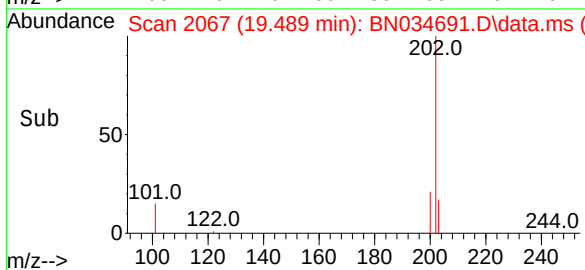
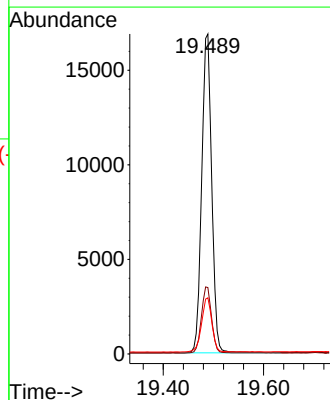
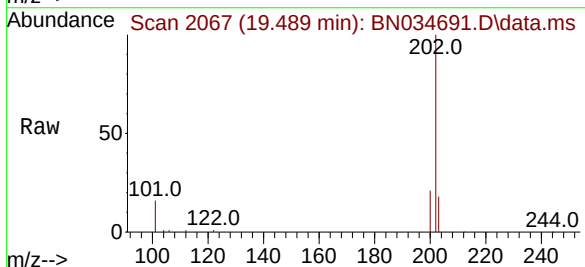
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

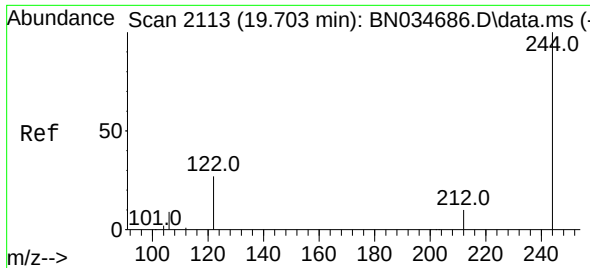
Tgt Ion:240 Resp: 12401
Ion Ratio Lower Upper
240 100
120 18.6 14.2 21.2
236 28.6 23.1 34.7



#30
Pyrene
Concen: 0.366 ng
RT: 19.489 min Scan# 2067
Delta R.T. 0.005 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:202 Resp: 23297
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.7 14.2 21.4

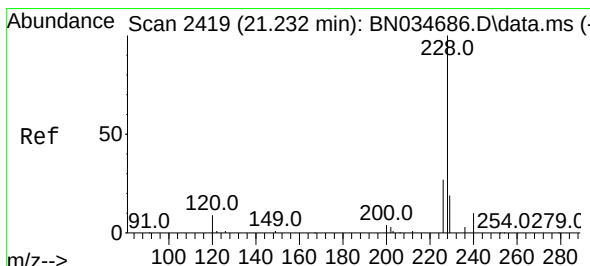
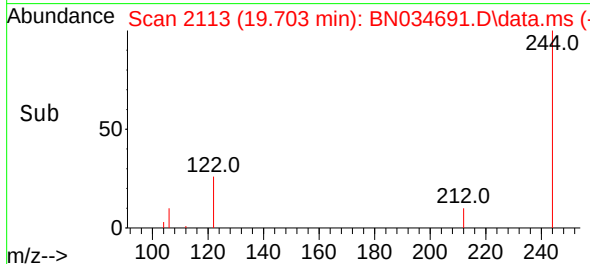
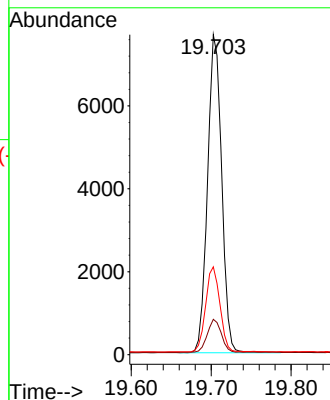
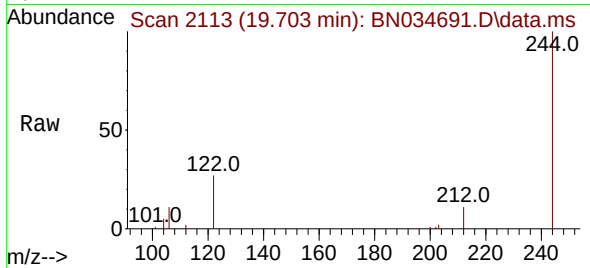




#31
 Terphenyl-d14
 Concen: 0.371 ng
 RT: 19.703 min Scan# 2113
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

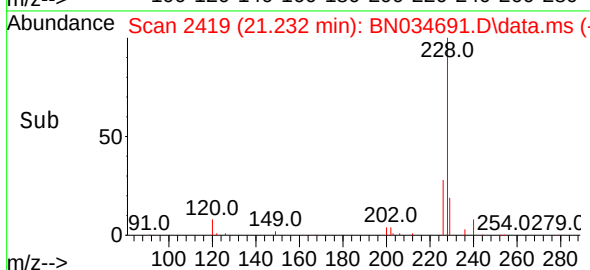
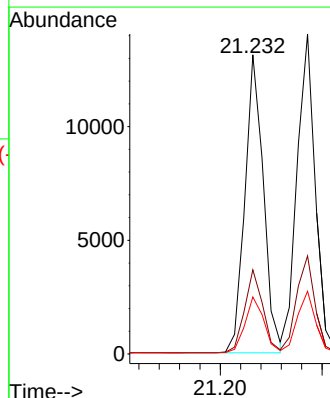
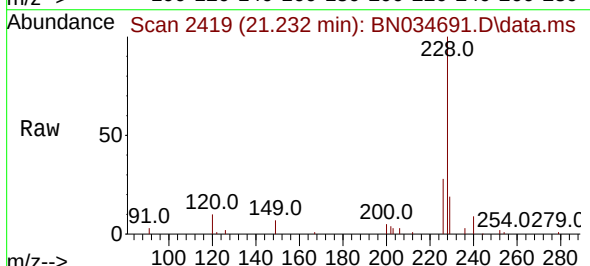
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424

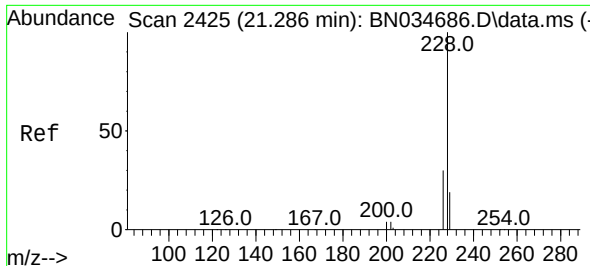
Tgt Ion:244	Resp:	9400
Ion Ratio	Lower	Upper
244	100	
212	11.1	8.6 13.0
122	27.4	22.3 33.5



#32
 Benzo(a)anthracene
 Concen: 0.349 ng
 RT: 21.232 min Scan# 2419
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Tgt Ion:228	Resp:	16543
Ion Ratio	Lower	Upper
228	100	
226	28.1	22.0 33.0
229	19.1	15.6 23.4





#33

Chrysene

Concen: 0.361 ng

RT: 21.286 min Scan# 2425

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

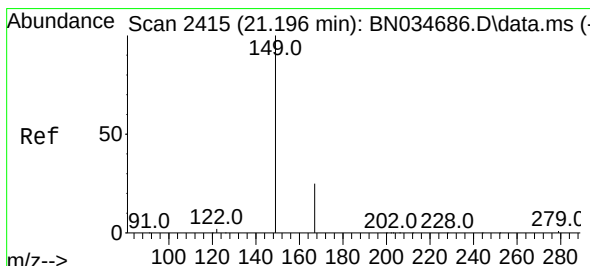
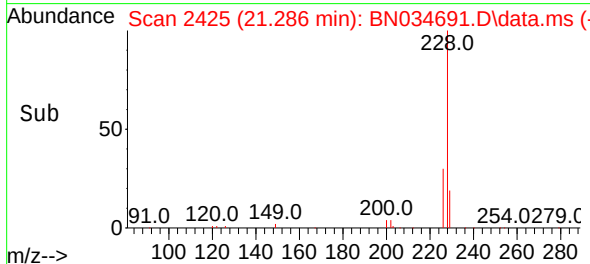
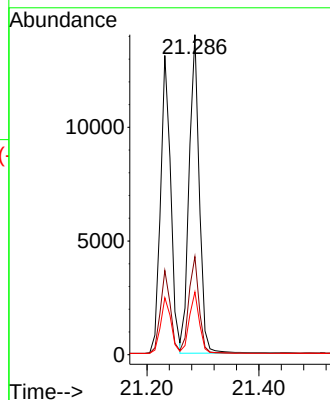
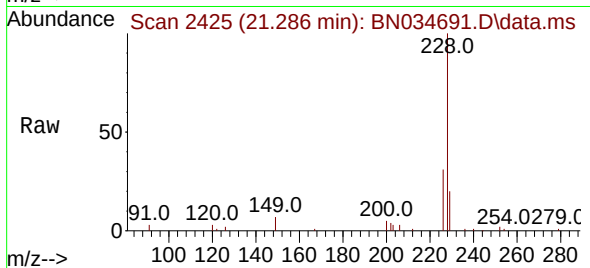
Tgt Ion:228 Resp: 17696

Ion Ratio Lower Upper

228 100

226 30.6 24.1 36.1

229 19.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.312 ng

RT: 21.196 min Scan# 2415

Delta R.T. 0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

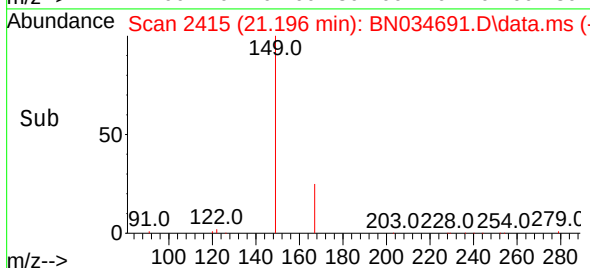
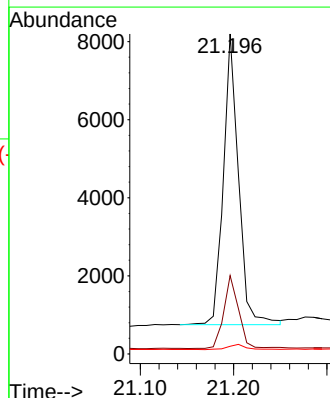
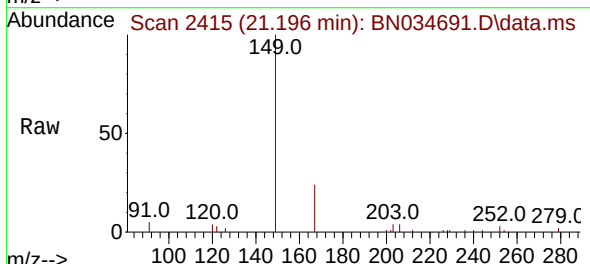
Tgt Ion:149 Resp: 8375

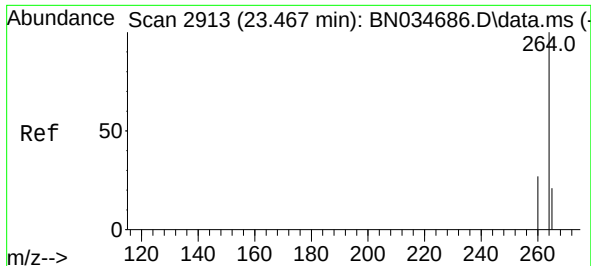
Ion Ratio Lower Upper

149 100

167 24.7 19.7 29.5

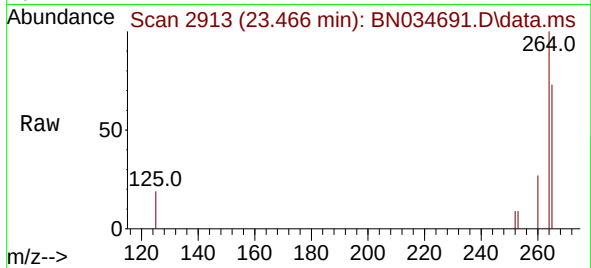
279 2.3 1.8 2.6



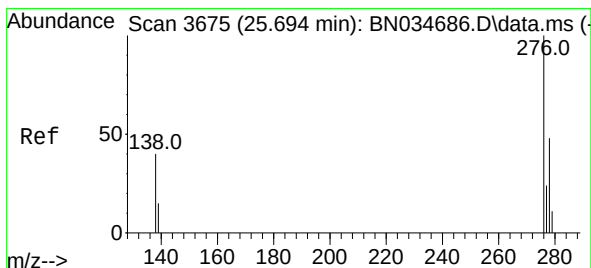
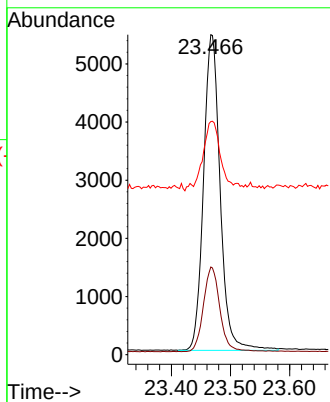
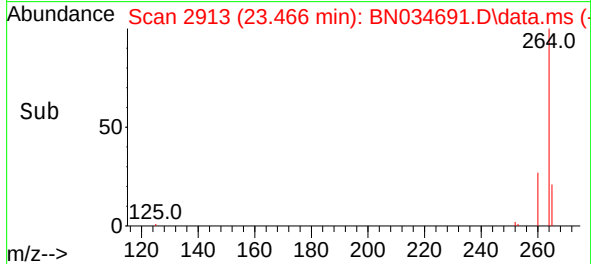


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.466 min Scan# 2913
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

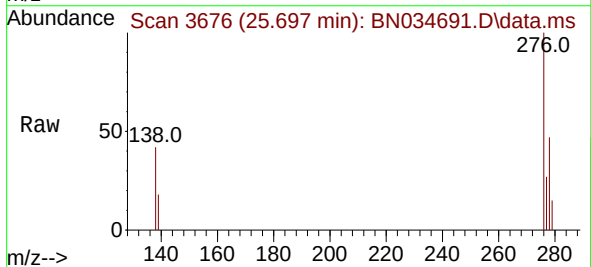
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



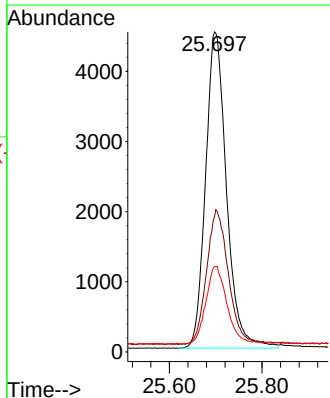
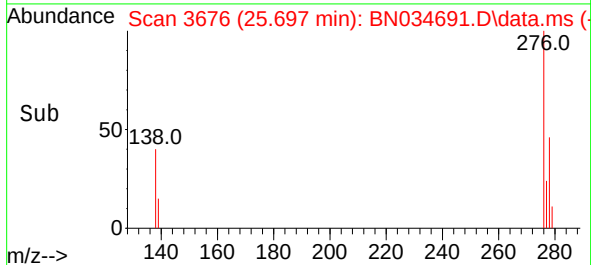
Tgt Ion:264 Resp: 10594
Ion Ratio Lower Upper
264 100
260 27.4 21.9 32.9
265 72.9 60.6 91.0

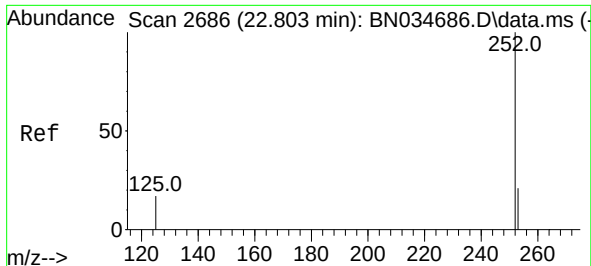


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.347 ng
RT: 25.697 min Scan# 3676
Delta R.T. 0.003 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14



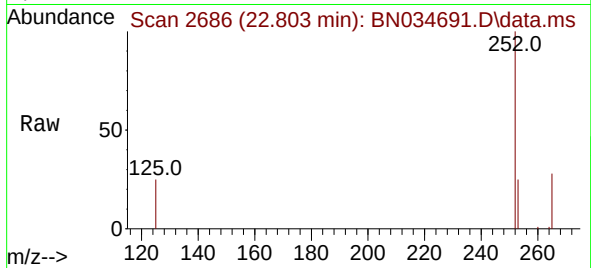
Tgt Ion:276 Resp: 14157
Ion Ratio Lower Upper
276 100
138 43.9 35.1 52.7
277 25.2 19.7 29.5



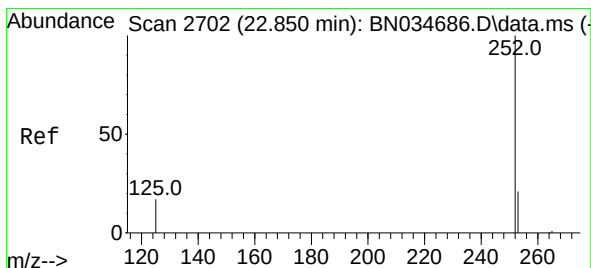
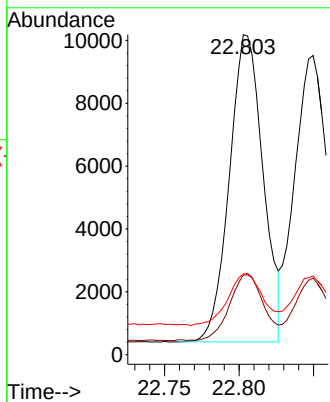
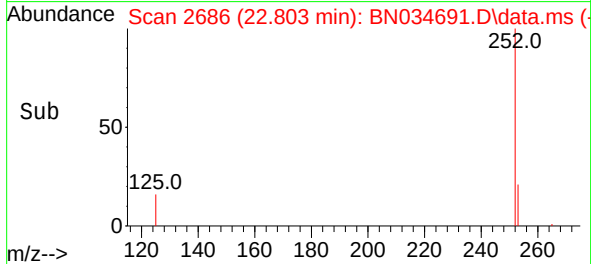


#37
Benzo(b)fluoranthene
Concen: 0.363 ng
RT: 22.803 min Scan# 2686
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :
BNA_N
ClientSampleId :
ICVBN102424

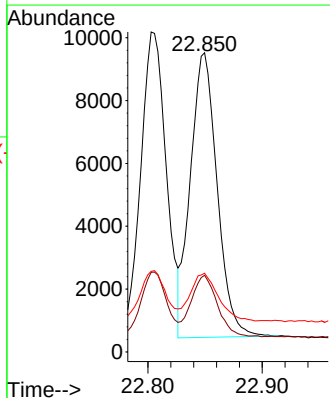
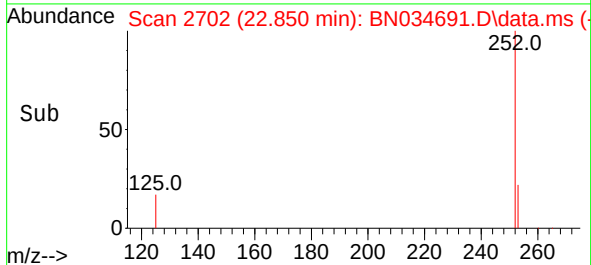
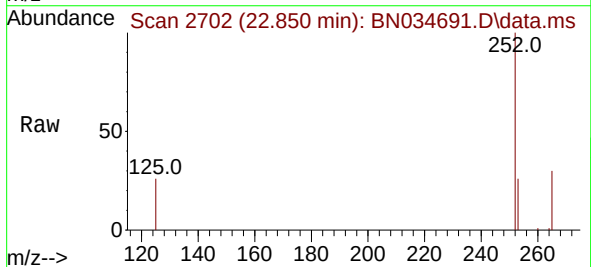


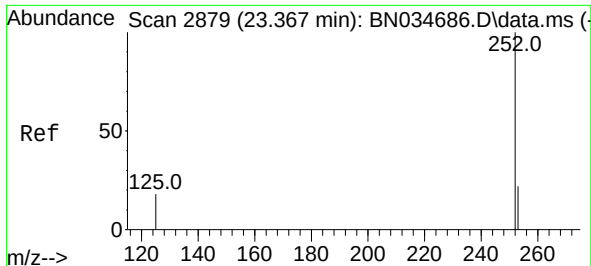
Tgt Ion:252 Resp: 15350
Ion Ratio Lower Upper
252 100
253 24.9 20.0 30.0
125 25.2 20.9 31.3



#38
Benzo(k)fluoranthene
Concen: 0.353 ng
RT: 22.850 min Scan# 2702
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Tgt Ion:252 Resp: 14742
Ion Ratio Lower Upper
252 100
253 25.6 20.6 31.0
125 26.3 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.373 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

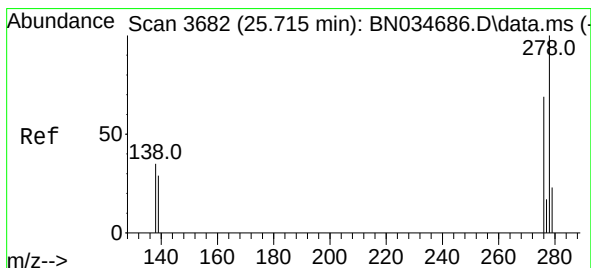
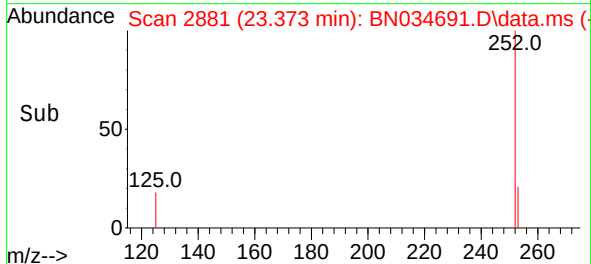
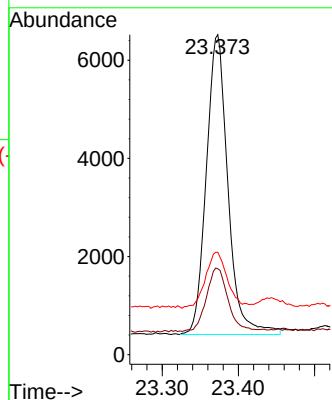
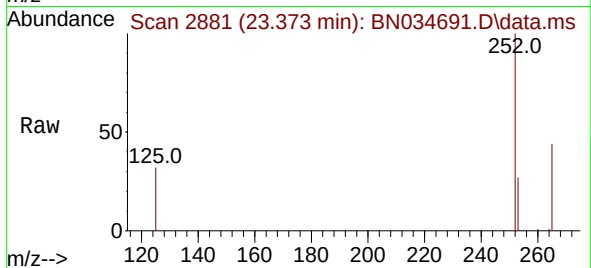
Tgt Ion:252 Resp: 12054

Ion Ratio Lower Upper

252 100

253 26.9 22.2 33.4

125 32.0 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.346 ng

RT: 25.718 min Scan# 3683

Delta R.T. 0.003 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

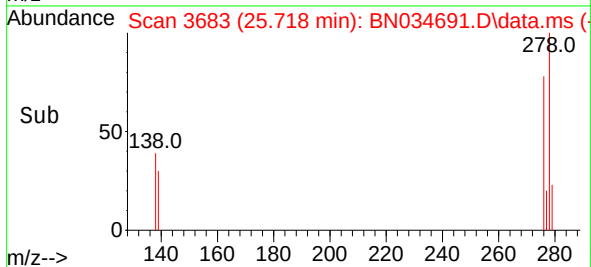
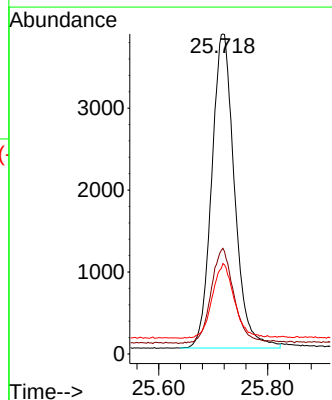
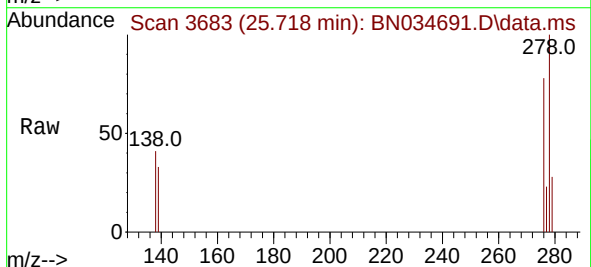
Tgt Ion:278 Resp: 11142

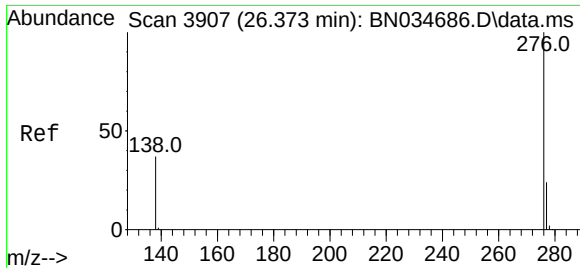
Ion Ratio Lower Upper

278 100

139 33.0 25.4 38.2

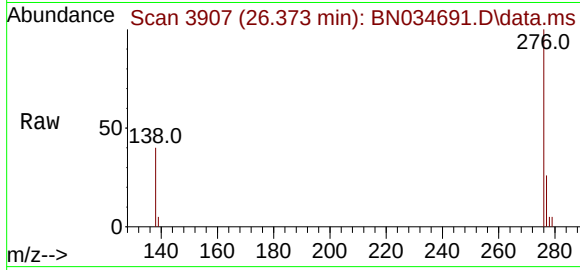
279 28.2 22.4 33.6



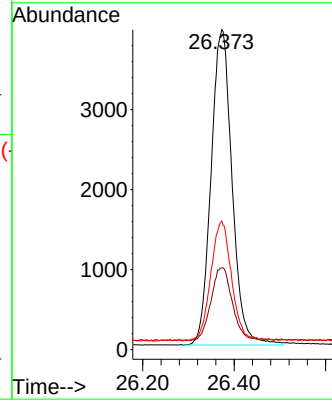
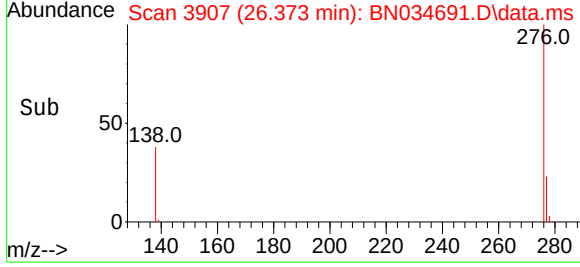


#41
 Benzo(g,h,i)perylene
 Concen: 0.354 ng
 RT: 26.373 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424



Tgt Ion:	276	Resp:	12576
Ion Ratio	Lower	Upper	
276	100		
277	25.5	21.3	31.9
138	40.2	31.9	47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034727.D
 Acq On : 25 Oct 2024 17:40
 Operator : RC/JU
 Sample : PB164409BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164409BS

Quant Time: Oct 25 18:09:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 13:17:02 2024
 Response via : Initial Calibration

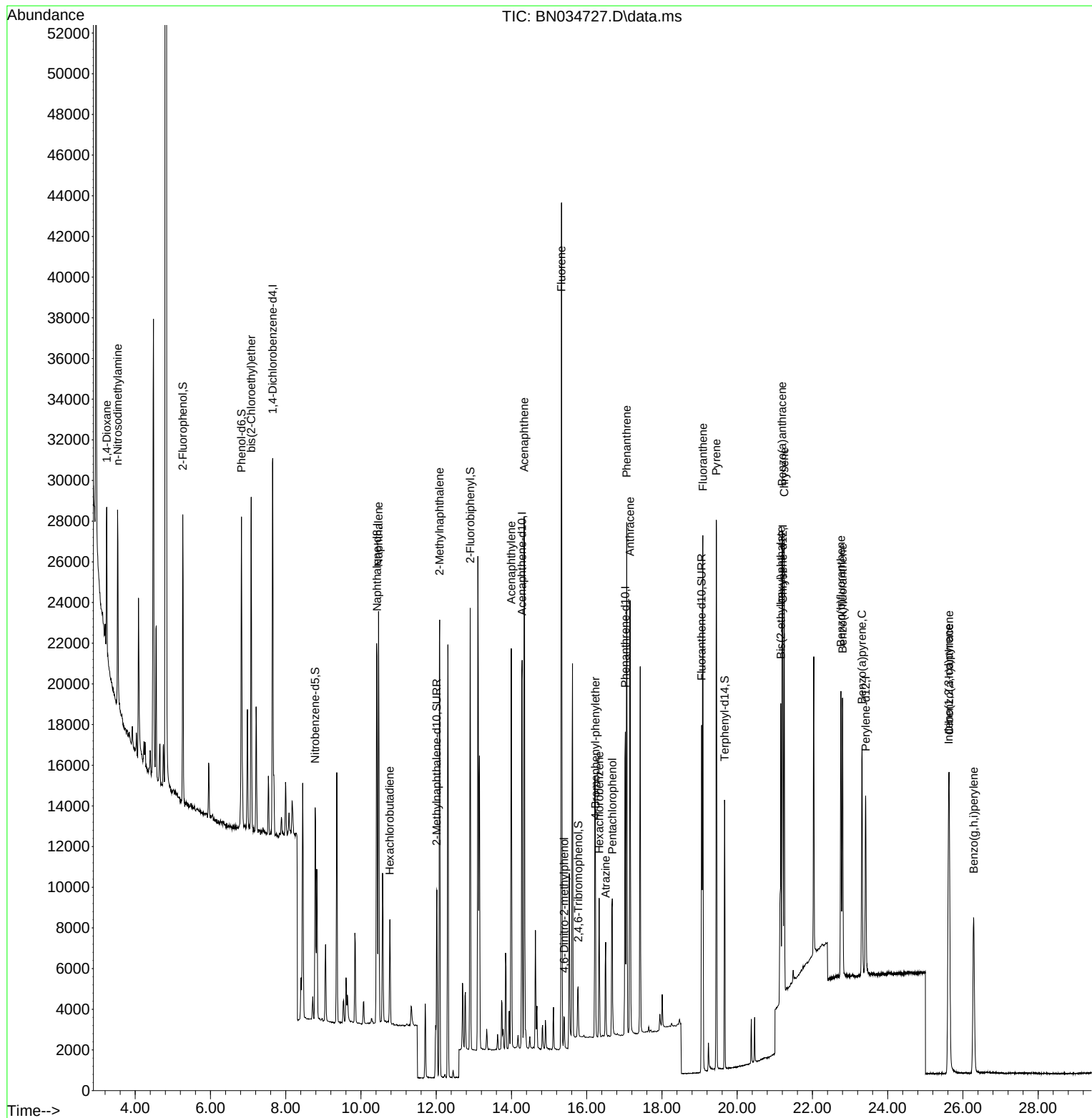
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8770	0.400	ng	-0.06
7) Naphthalene-d8	10.426	136	24617	0.400	ng	#-0.05
13) Acenaphthene-d10	14.283	164	11438	0.400	ng	-0.05
19) Phenanthrene-d10	17.026	188	20789	0.400	ng	-0.04
29) Chrysene-d12	21.212	240	11212	0.400	ng	#-0.04
35) Perylene-d12	23.415	264	10991	0.400	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	9491	0.364	ng	-0.06
5) Phenol-d6	6.824	99	12381	0.360	ng	-0.06
8) Nitrobenzene-d5	8.781	82	8000	0.387	ng	-0.06
11) 2-Methylnaphthalene-d10	12.014	152	12570	0.371	ng	-0.06
14) 2,4,6-Tribromophenol	15.773	330	1427	0.403	ng	-0.04
15) 2-Fluorobiphenyl	12.904	172	17305	0.381	ng	-0.05
27) Fluoranthene-d10	19.055	212	16513	0.353	ng	-0.04
31) Terphenyl-d14	19.668	244	10894	0.475	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.242	88	3291	0.282	ng	# 41
3) n-Nitrosodimethylamine	3.531	42	5980	0.352	ng	# 94
6) bis(2-Chloroethyl)ether	7.084	93	10317	0.369	ng	99
9) Naphthalene	10.468	128	24917	0.366	ng	100
10) Hexachlorobutadiene	10.767	225	3622	0.355	ng	# 99
12) 2-Methylnaphthalene	12.090	142	15296	0.362	ng	99
16) Acenaphthylene	13.994	152	20483	0.373	ng	100
17) Acenaphthene	14.336	154	13491	0.356	ng	98
18) Fluorene	15.330	166	15881	0.340	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	938	0.324	ng	# 83
21) 4-Bromophenyl-phenylether	16.232	248	4254	0.384	ng	97
22) Hexachlorobenzene	16.331	284	4442	0.370	ng	99
23) Atrazine	16.505	200	3620	0.416	ng	99
24) Pentachlorophenol	16.679	266	3356	0.789	ng	99
25) Phenanthrene	17.064	178	23444	0.375	ng	100
26) Anthracene	17.151	178	21418	0.386	ng	100
28) Fluoranthene	19.087	202	22165	0.340	ng	99
30) Pyrene	19.445	202	22644	0.393	ng	100
32) Benzo(a)anthracene	21.194	228	16780	0.392	ng	99
33) Chrysene	21.248	228	17018	0.384	ng	99
34) Bis(2-ethylhexyl)phtha...	21.158	149	12888	0.530	ng	99
36) Indeno(1,2,3-cd)pyrene	25.619	276	17784	0.420	ng	99
37) Benzo(b)fluoranthene	22.757	252	16080	0.366	ng	98
38) Benzo(k)fluoranthene	22.801	252	16158	0.373	ng	99
39) Benzo(a)pyrene	23.318	252	14630	0.415	ng	99
40) Dibenzo(a,h)anthracene	25.634	278	13681	0.410	ng	98
41) Benzo(g,h,i)perylene	26.286	276	14059	0.382	ng	99

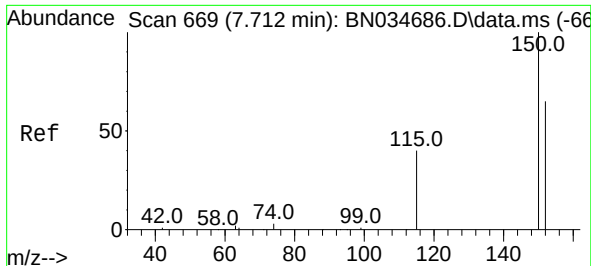
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034727.D
Acq On : 25 Oct 2024 17:40
Operator : RC/JU
Sample : PB164409BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164409BS

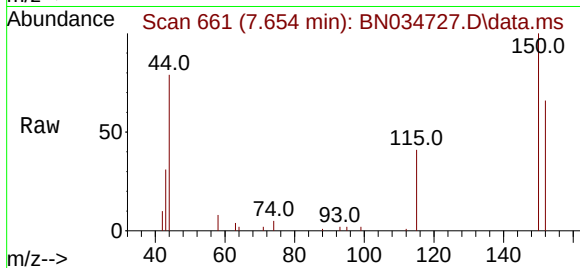
Quant Time: Oct 25 18:09:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



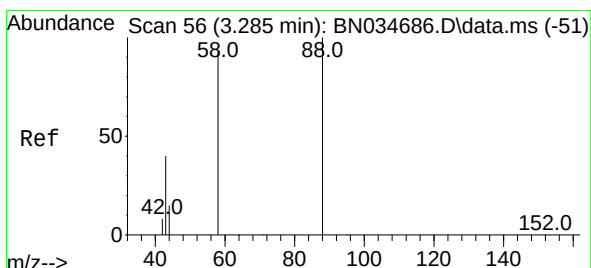
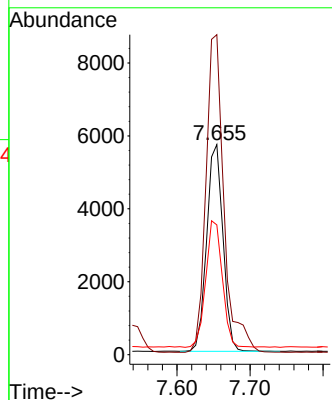
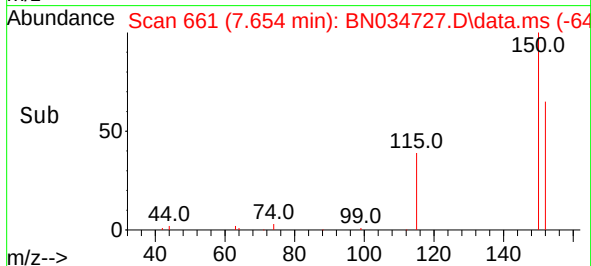


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 61
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

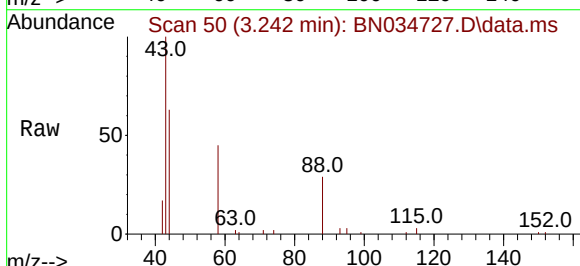
Instrument :
BNA_N
ClientSampleId :
PB164409BS



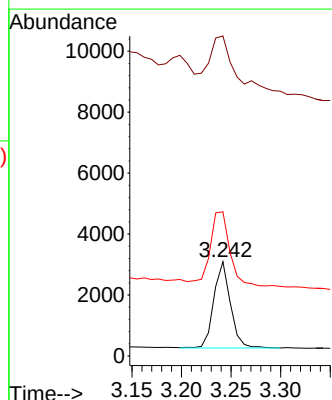
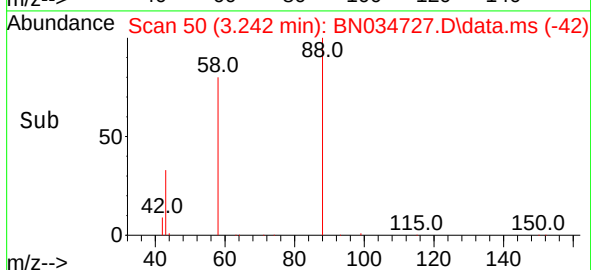
Tgt Ion:152 Resp: 8770
Ion Ratio Lower Upper
152 100
150 152.3 122.7 184.1
115 61.8 51.0 76.6

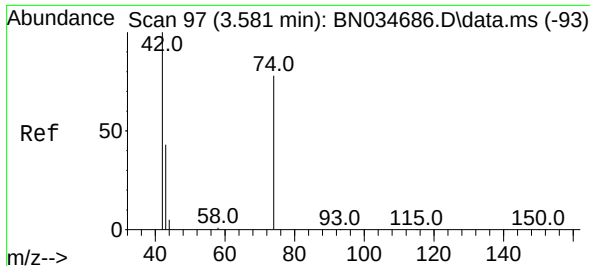


#2
1,4-Dioxane
Concen: 0.282 ng
RT: 3.242 min Scan# 50
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40



Tgt Ion: 88 Resp: 3291
Ion Ratio Lower Upper
88 100
43 128.2 32.1 48.1#
58 114.0 73.7 110.5#

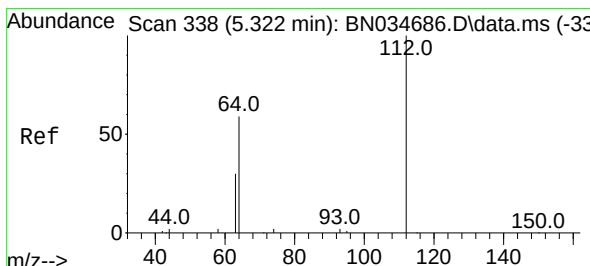
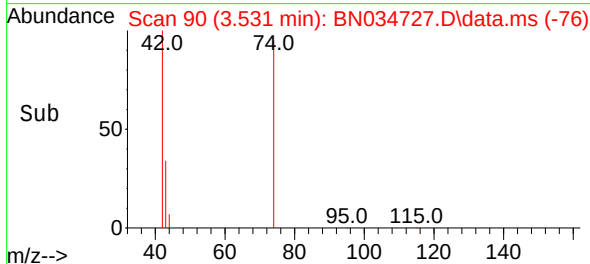
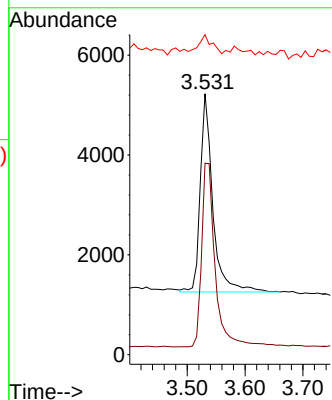
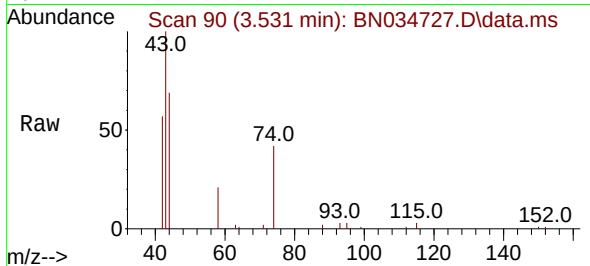




#3
n-Nitrosodimethylamine
Concen: 0.352 ng
RT: 3.531 min Scan# 90
Delta R.T. -0.050 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

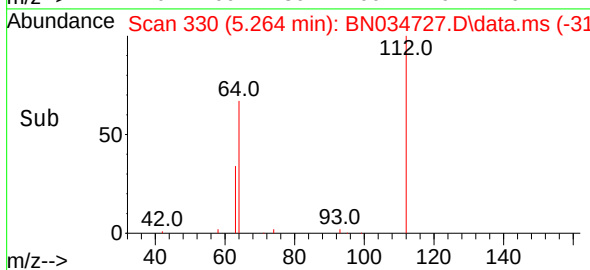
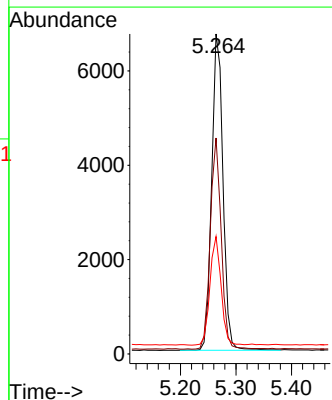
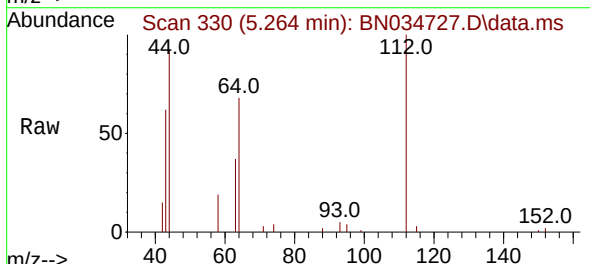
Instrument :
BNA_N
ClientSampleId :
PB164409BS

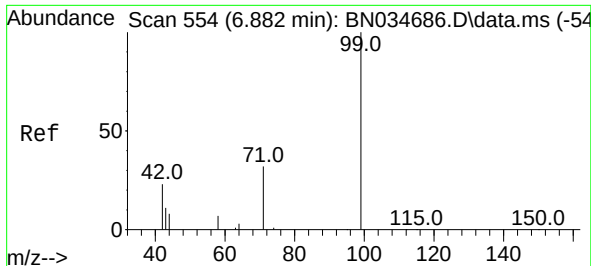
Tgt Ion: 42 Resp: 5980
Ion Ratio Lower Upper
42 100
74 101.2 77.2 115.8
44 11.0 13.4 20.2#



#4
2-Fluorophenol
Concen: 0.364 ng
RT: 5.264 min Scan# 330
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion: 112 Resp: 9491
Ion Ratio Lower Upper
112 100
64 64.8 53.0 79.6
63 33.8 27.6 41.4

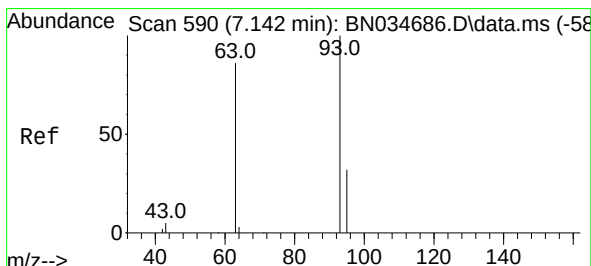
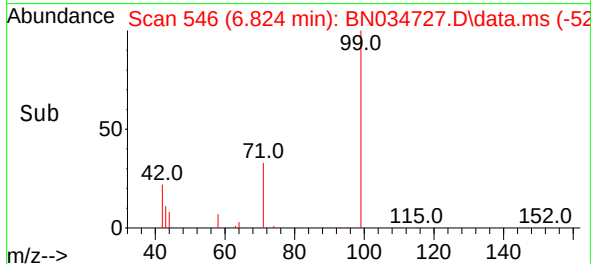
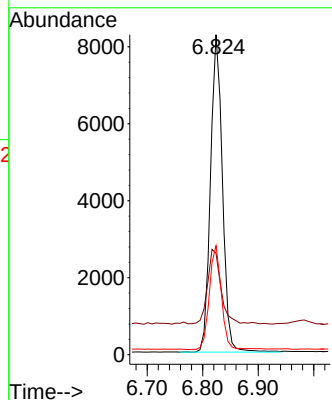
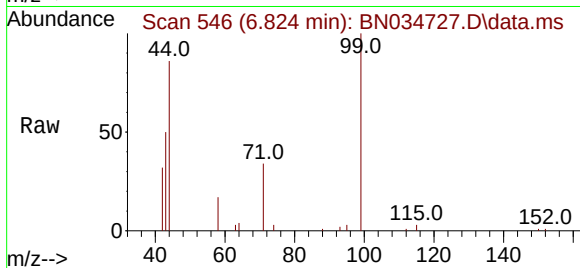




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.824 min Scan# 54
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

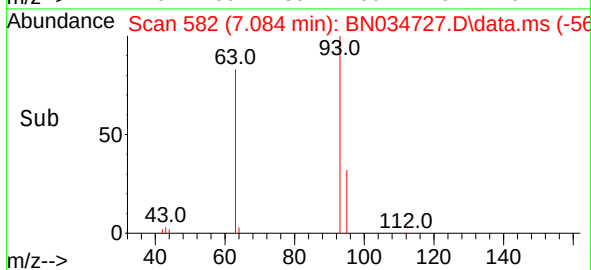
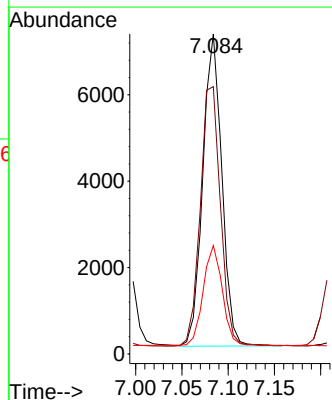
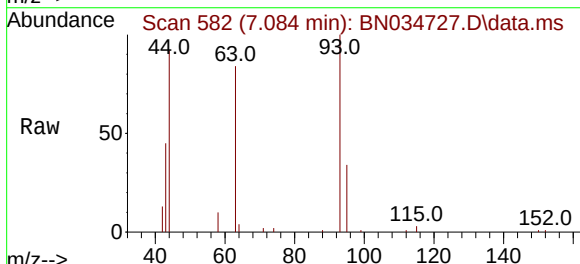
Instrument :
BNA_N
ClientSampleId :
PB164409BS

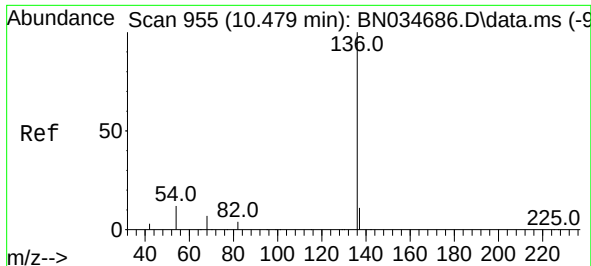
Tgt Ion:	99	Resp:	12381
Ion	Ratio	Lower	Upper
99	100		
42	25.8	21.8	32.8
71	33.0	26.6	40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.058 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:	93	Resp:	10317
Ion	Ratio	Lower	Upper
93	100		
63	88.6	71.5	107.3
95	32.3	25.8	38.6

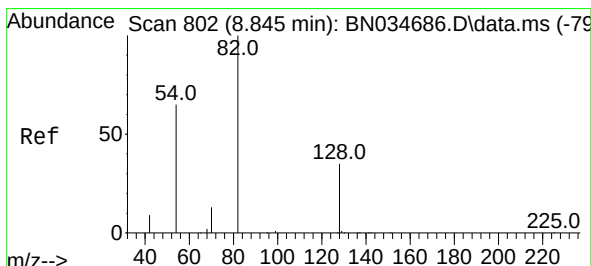
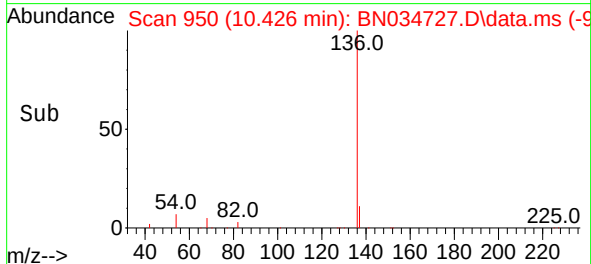
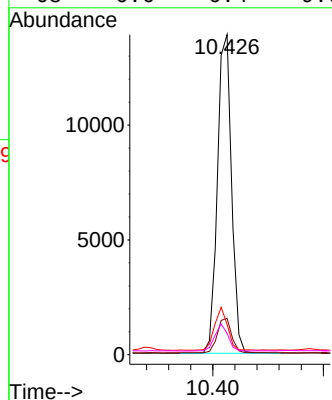
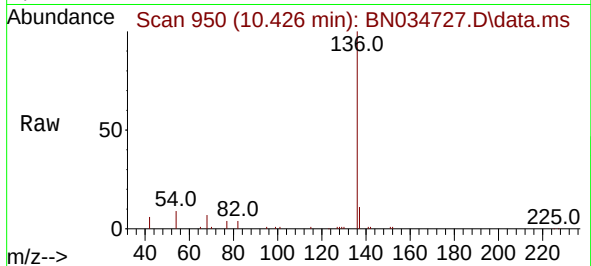




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.053 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

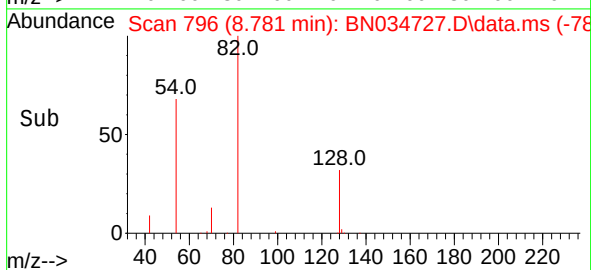
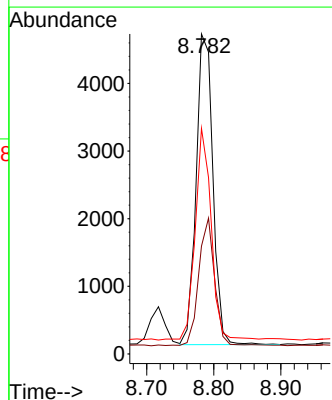
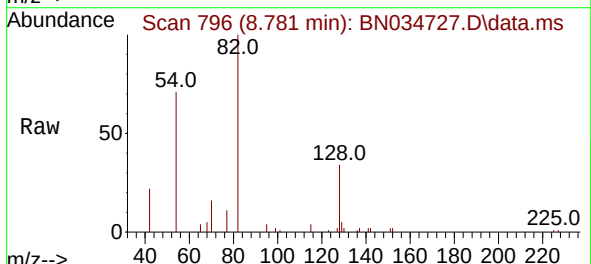
Instrument :
BNA_N
ClientSampleId :
PB164409BS

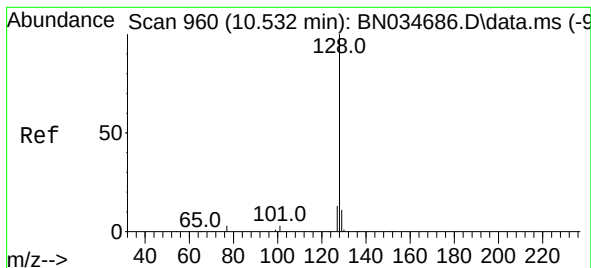
Tgt Ion:136	Resp:	24617
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	9.5	9.8 14.8#
68	6.6	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.064 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion: 82	Resp:	8000
Ion Ratio	Lower	Upper
82	100	
128	33.7	29.7 44.5
54	70.5	53.0 79.6





#9

Naphthalene

Concen: 0.366 ng

RT: 10.468 min Scan# 90

Delta R.T. -0.064 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS

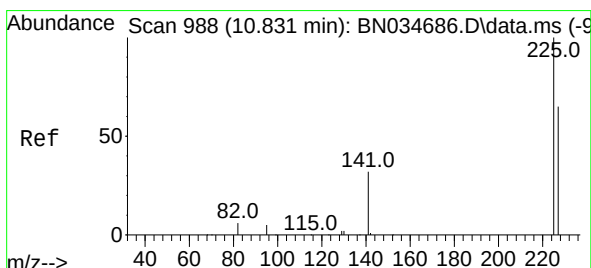
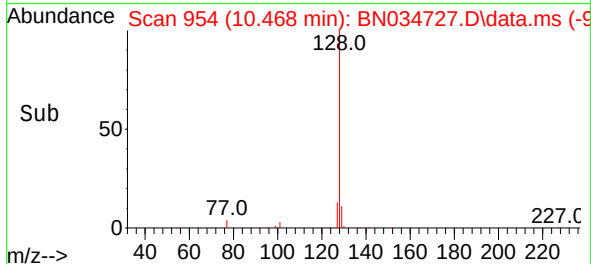
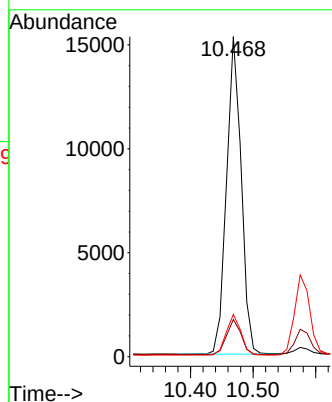
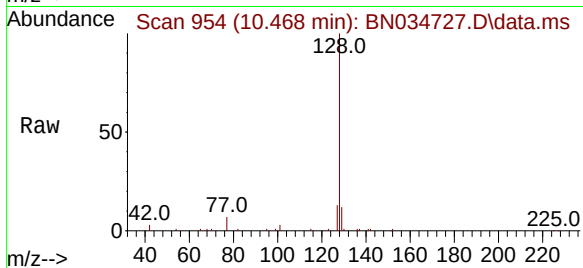
Tgt Ion:128 Resp: 24917

Ion Ratio Lower Upper

128 100

129 11.6 9.0 13.6

127 13.2 10.5 15.7



#10

Hexachlorobutadiene

Concen: 0.355 ng

RT: 10.767 min Scan# 982

Delta R.T. -0.064 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

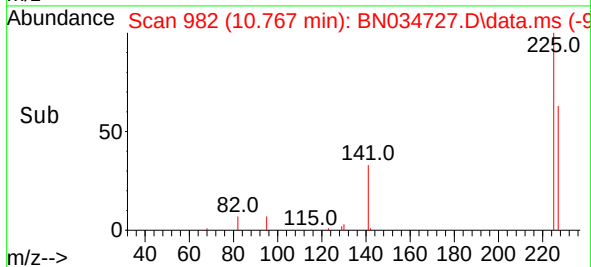
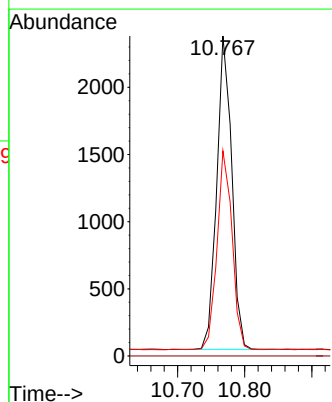
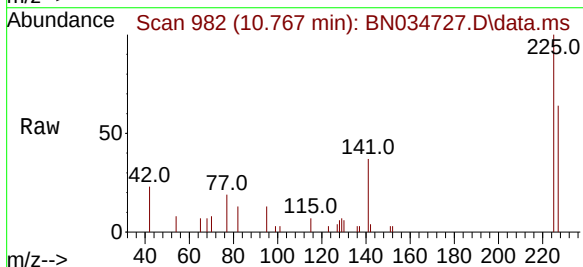
Tgt Ion:225 Resp: 3622

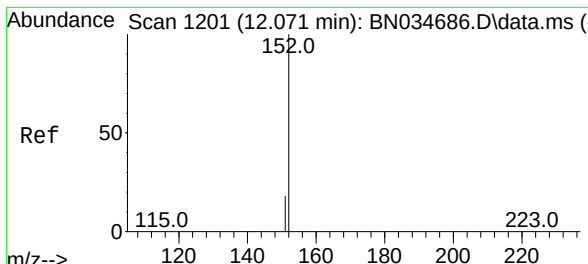
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.4 77.0



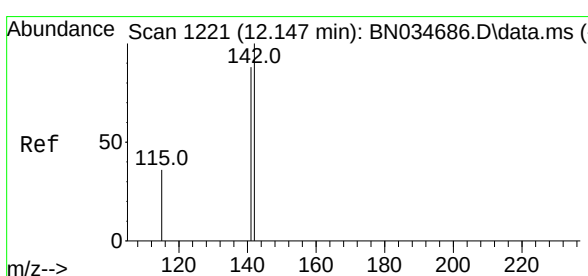
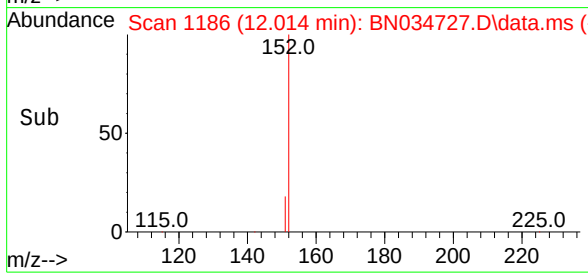
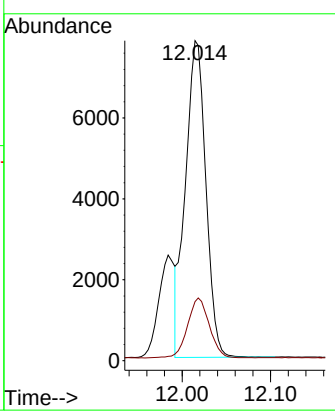
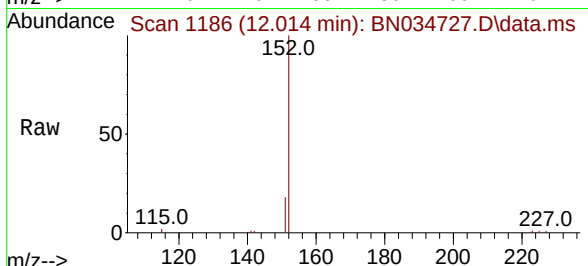


#11
 2-Methylnaphthalene-d10
 Concen: 0.371 ng
 RT: 12.014 min Scan# 1186
 Delta R.T. -0.057 min
 Lab File: BN034727.D
 Acq: 25 Oct 2024 17:40

Instrument : BNA_N
 ClientSampleId : PB164409BS

Tgt Ion:152 Resp: 12570

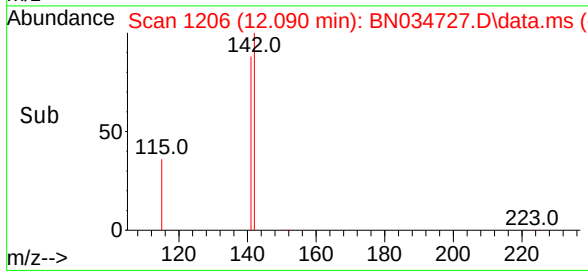
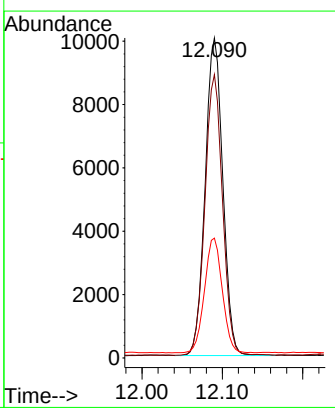
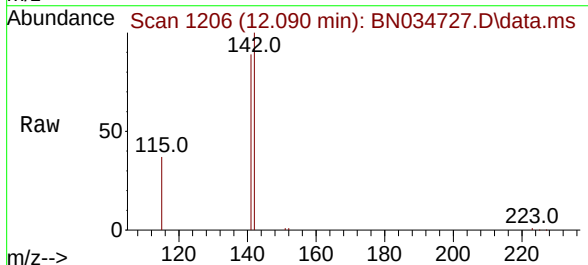
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.7	25.1

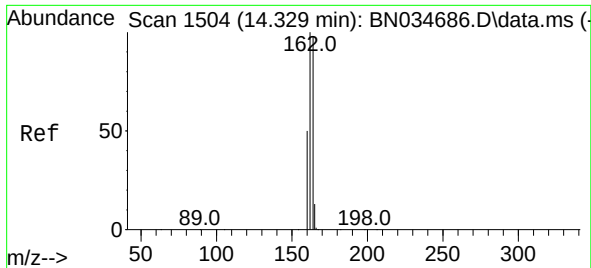


#12
 2-Methylnaphthalene
 Concen: 0.362 ng
 RT: 12.090 min Scan# 1206
 Delta R.T. -0.057 min
 Lab File: BN034727.D
 Acq: 25 Oct 2024 17:40

Tgt Ion:142 Resp: 15296

Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.4	105.6
115	37.4	29.8	44.6

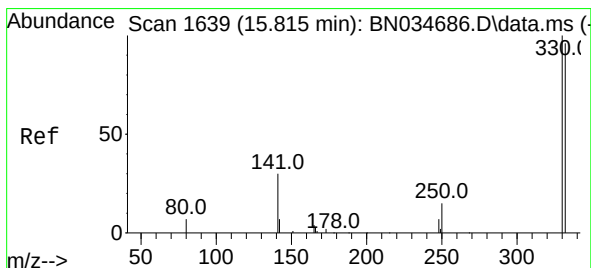
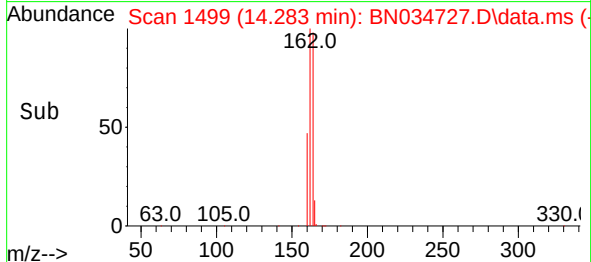
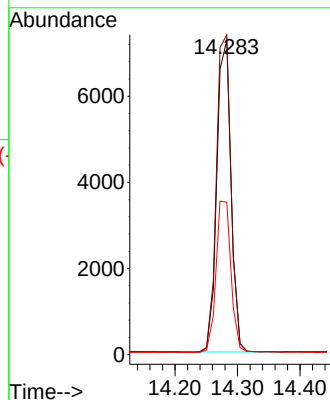
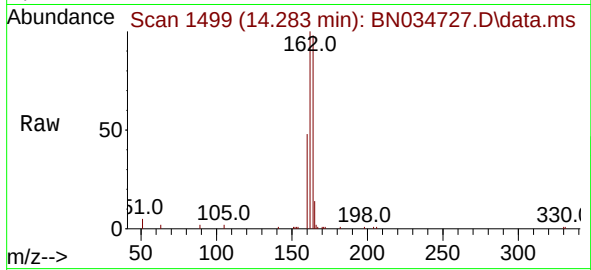




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 14
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

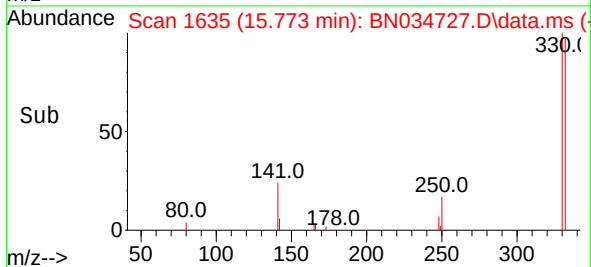
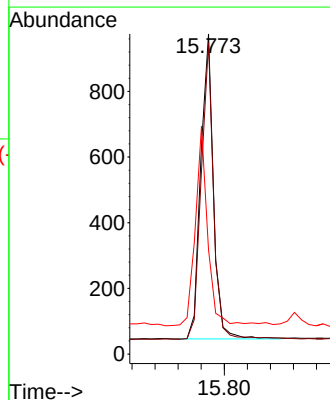
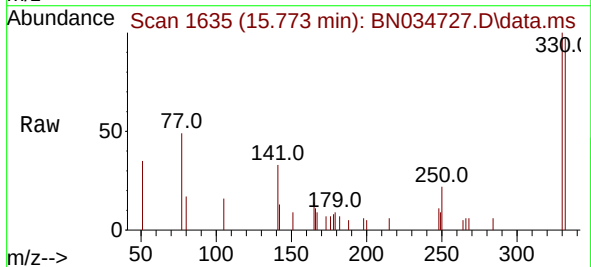
Instrument :
BNA_N
ClientSampleId :
PB164409BS

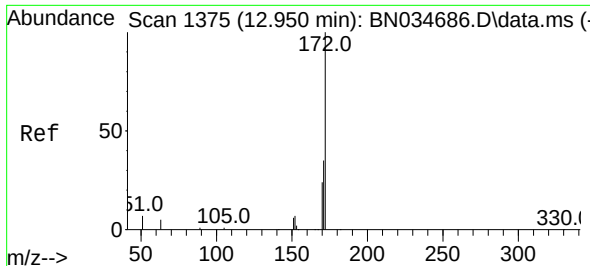
Tgt Ion:164 Resp: 11438
Ion Ratio Lower Upper
164 100
162 101.9 81.4 122.0
160 48.6 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.773 min Scan# 1635
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:330 Resp: 1427
Ion Ratio Lower Upper
330 100
332 94.1 76.6 115.0
141 63.1 54.6 81.8

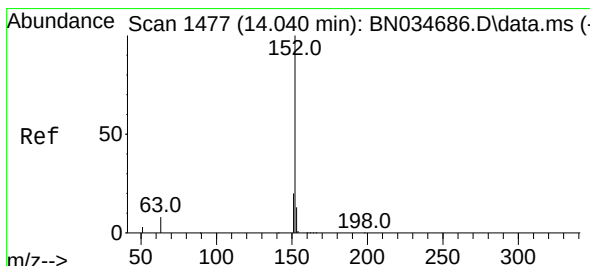
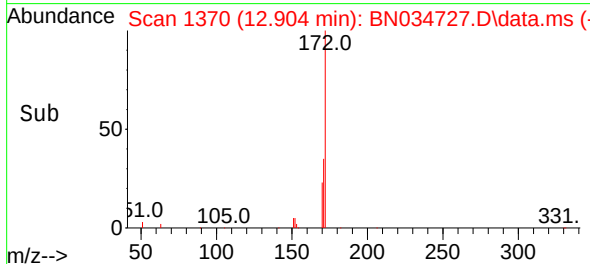
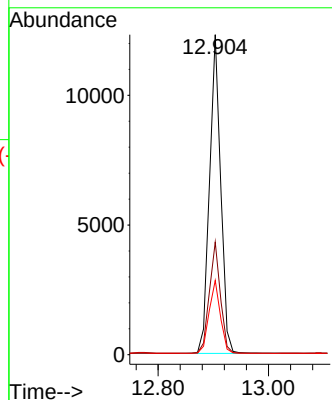
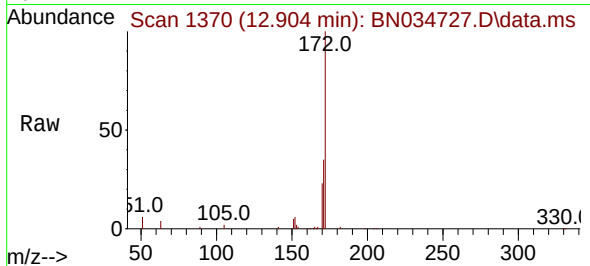




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.904 min Scan# 1471
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

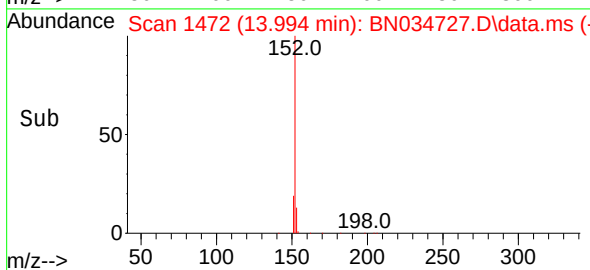
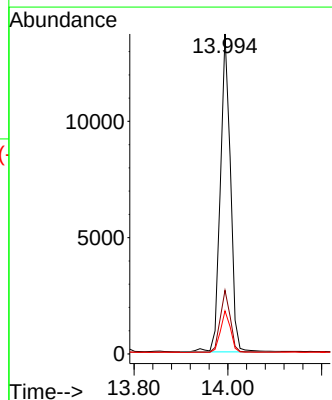
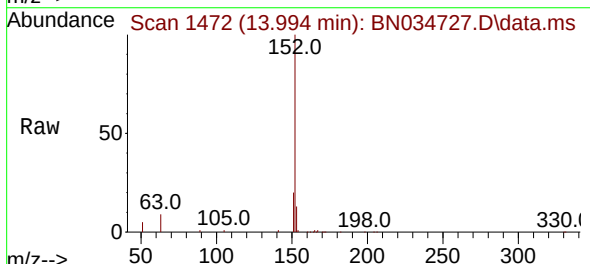
Instrument :
BNA_N
ClientSampleId :
PB164409BS

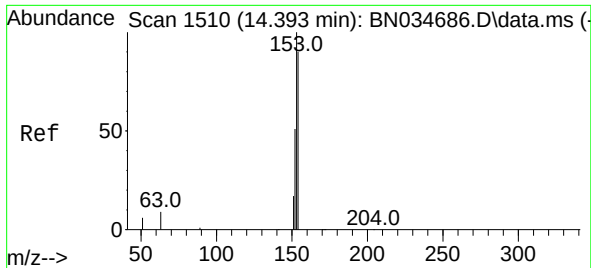
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.3	42.5
170	23.2	19.8	29.6



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.994 min Scan# 1472
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.6	15.8

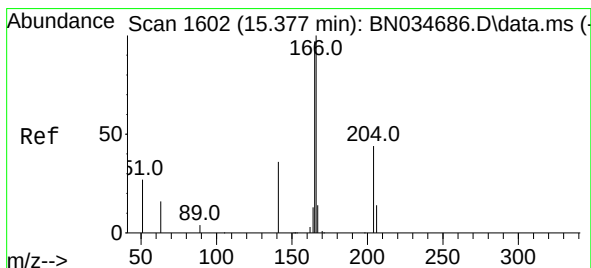
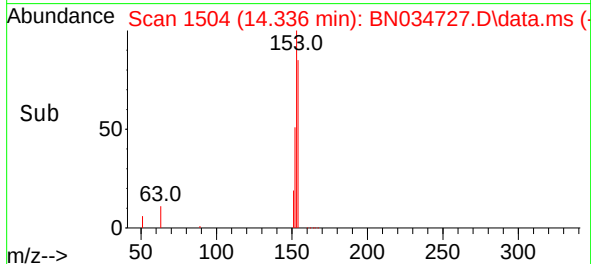
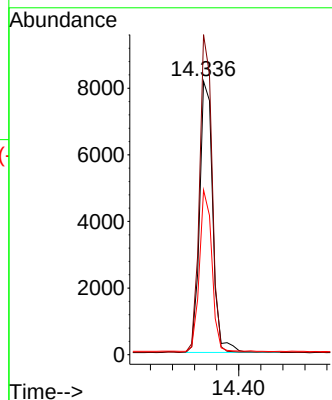
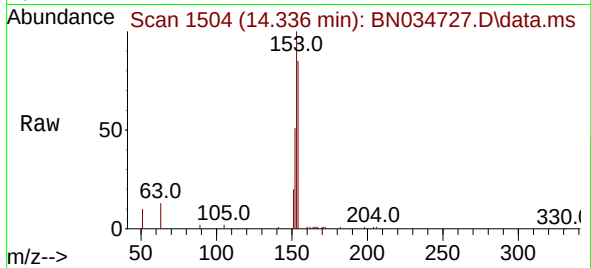




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.336 min Scan# 1504
Delta R.T. -0.057 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

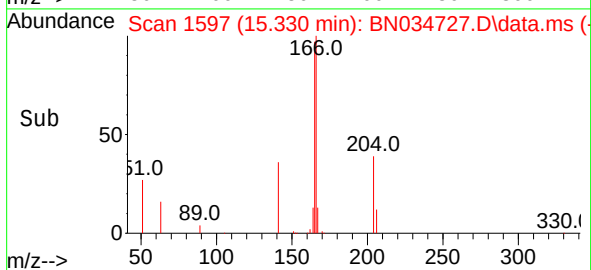
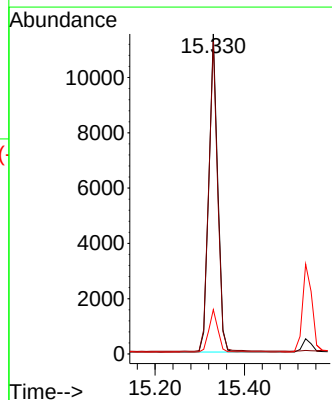
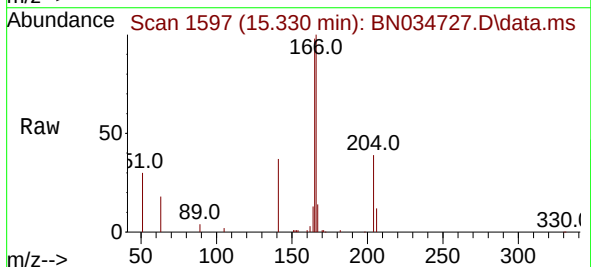
Instrument :
BNA_N
ClientSampleId :
PB164409BS

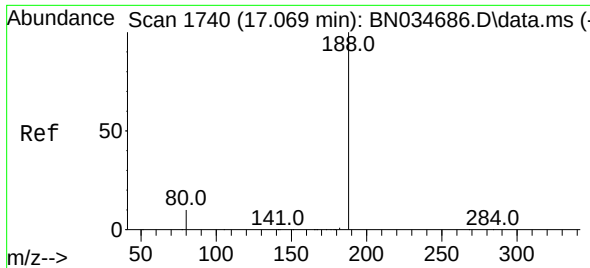
Tgt Ion:154 Resp: 13491
Ion Ratio Lower Upper
154 100
153 111.3 88.2 132.2
152 56.2 46.9 70.3



#18
Fluorene
Concen: 0.340 ng
RT: 15.330 min Scan# 1597
Delta R.T. -0.046 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:166 Resp: 15881
Ion Ratio Lower Upper
166 100
165 97.6 78.8 118.2
167 13.4 10.6 16.0

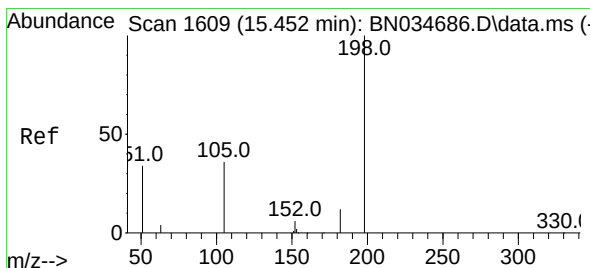
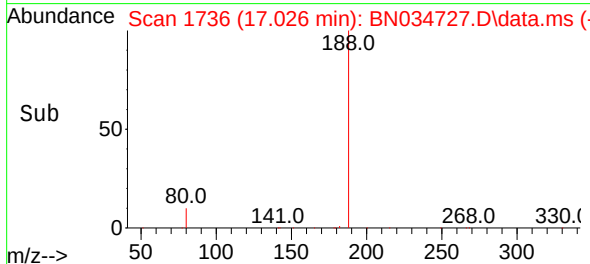
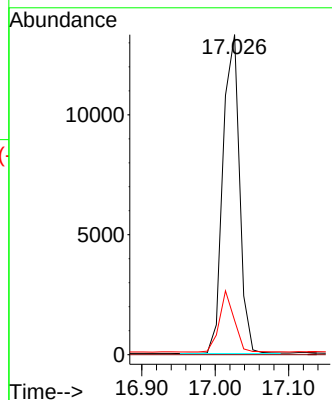
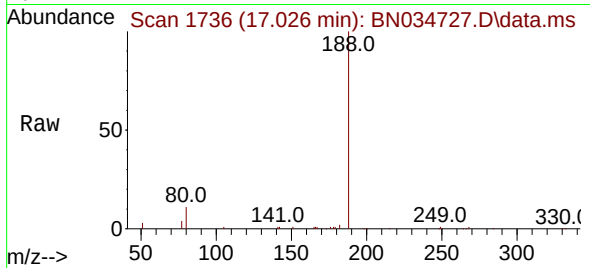




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 11
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

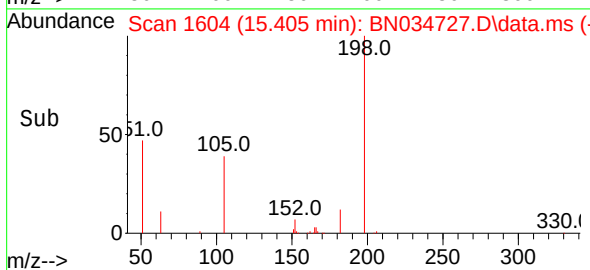
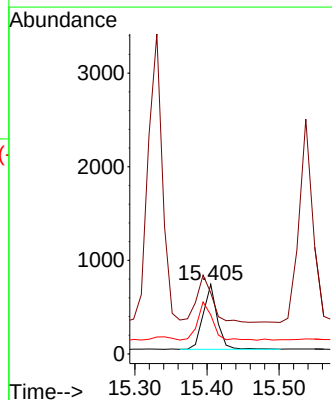
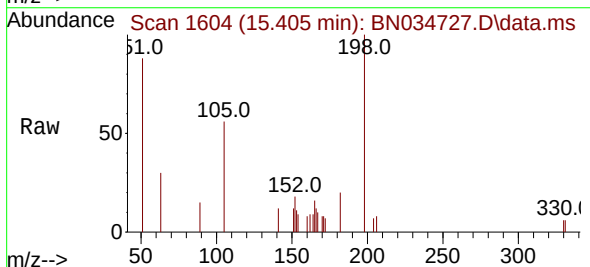
Instrument :
BNA_N
ClientSampleId :
PB164409BS

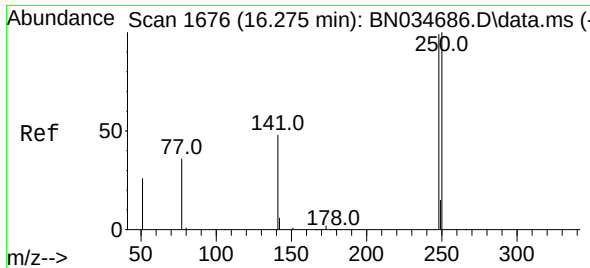
Tgt Ion:188 Resp: 20789
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.7 8.9 13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.324 ng
RT: 15.405 min Scan# 1604
Delta R.T. -0.047 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:198 Resp: 938
Ion Ratio Lower Upper
198 100
51 87.9 91.8 137.8#
105 56.1 44.3 66.5

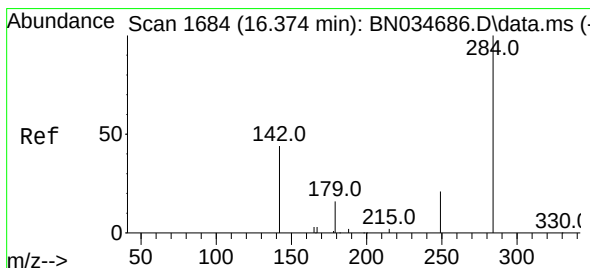
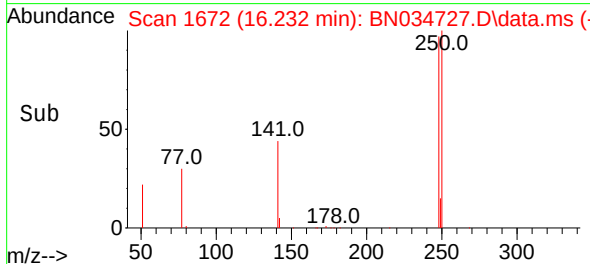
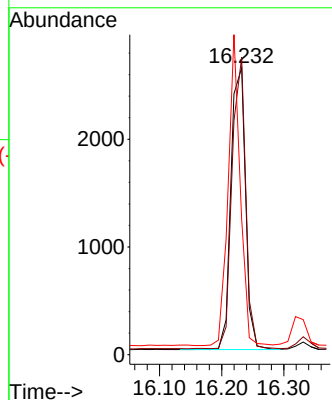
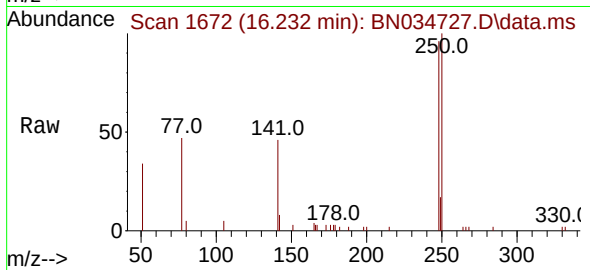




#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.232 min Scan# 1672
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

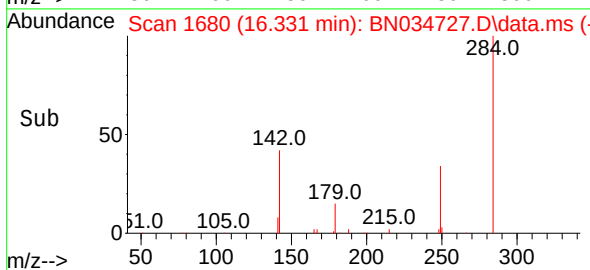
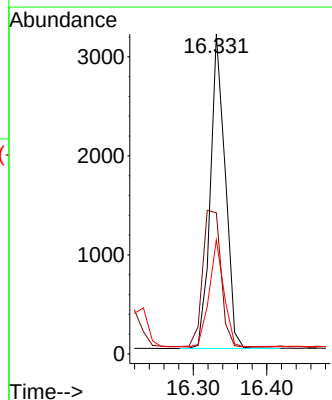
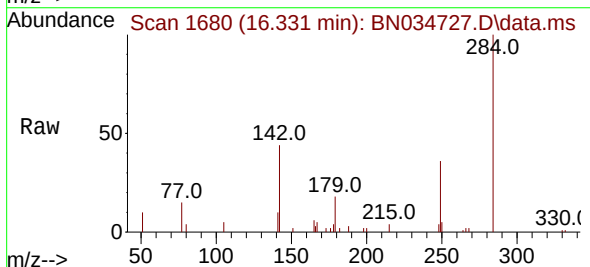
Instrument :
BNA_N
ClientSampleId :
PB164409BS

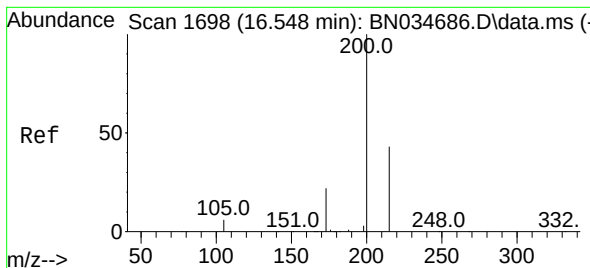
Tgt Ion:248 Resp: 4254
Ion Ratio Lower Upper
248 100
250 103.6 80.9 121.3
141 47.4 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.331 min Scan# 1680
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:284 Resp: 4442
Ion Ratio Lower Upper
284 100
142 53.3 43.6 65.4
249 33.5 26.6 40.0





#23

Atrazine

Concen: 0.416 ng

RT: 16.505 min Scan# 1

Delta R.T. -0.043 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS

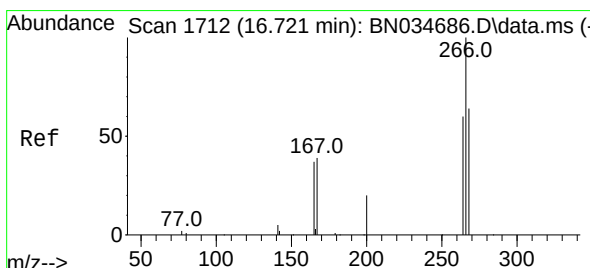
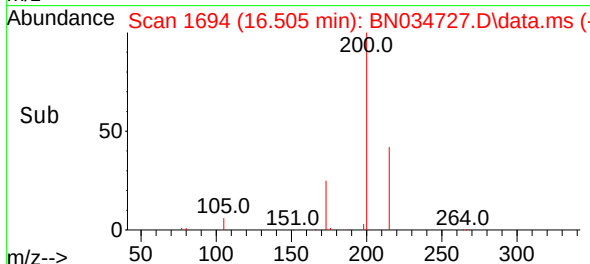
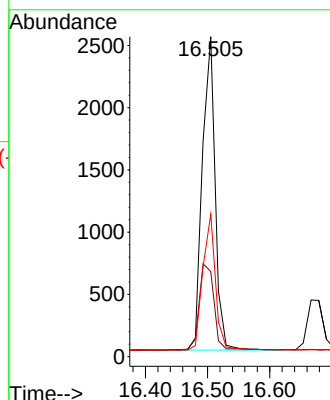
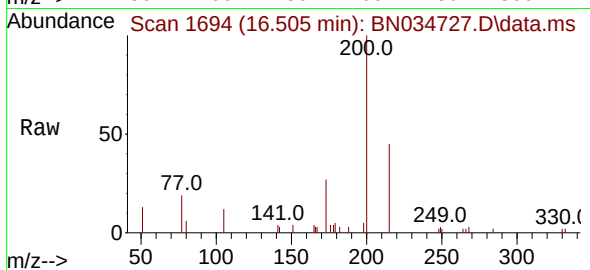
Tgt Ion:200 Resp: 3620

Ion Ratio Lower Upper

200 100

173 26.6 19.7 29.5

215 44.6 35.7 53.5



#24

Pentachlorophenol

Concen: 0.789 ng

RT: 16.679 min Scan# 1708

Delta R.T. -0.042 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

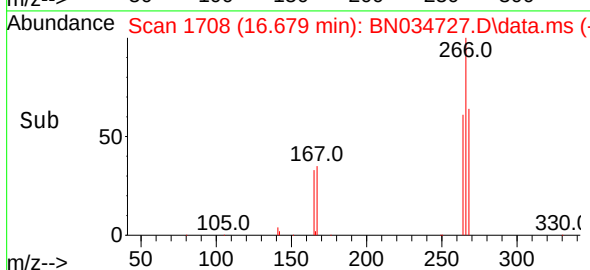
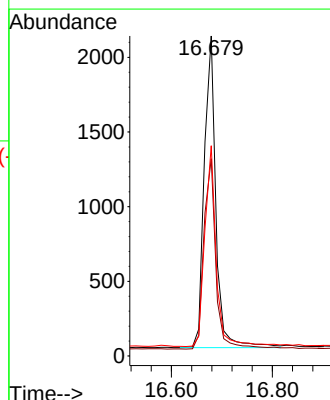
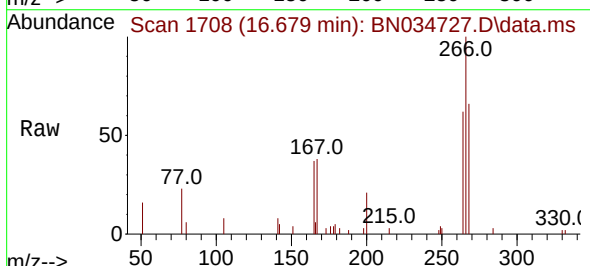
Tgt Ion:266 Resp: 3356

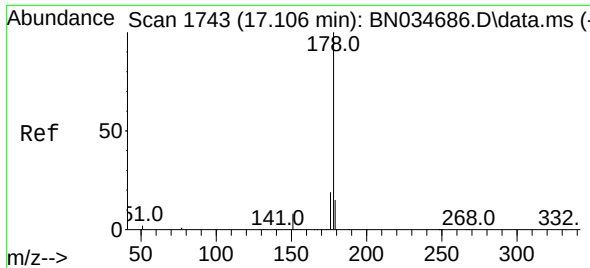
Ion Ratio Lower Upper

266 100

264 62.7 49.4 74.2

268 63.5 50.5 75.7

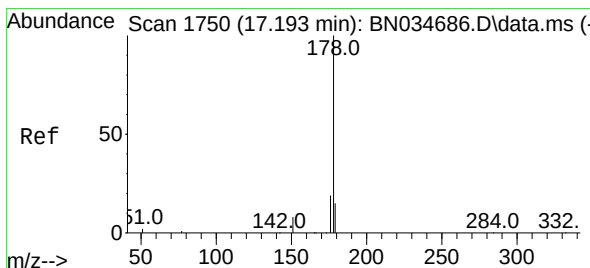
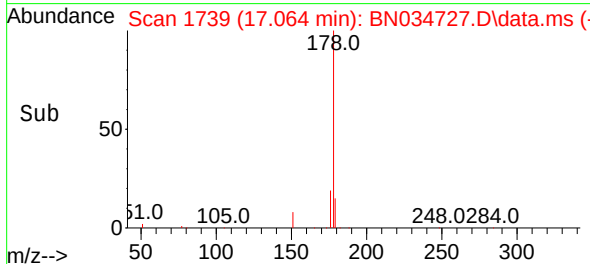
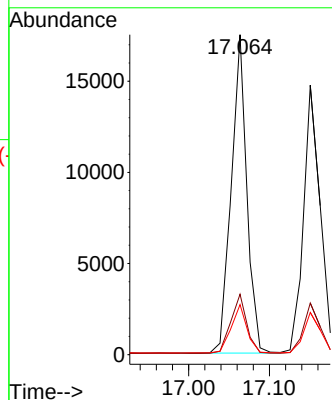
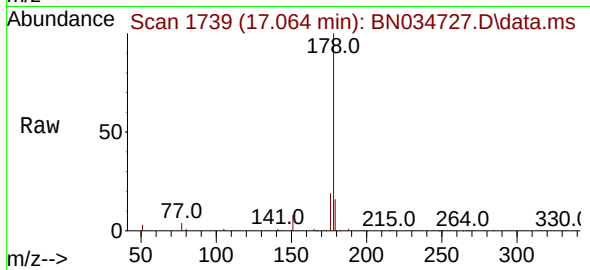




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.064 min Scan# 1743
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

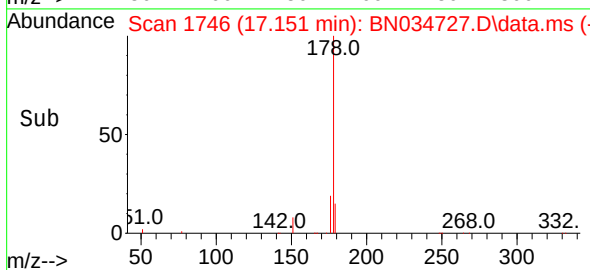
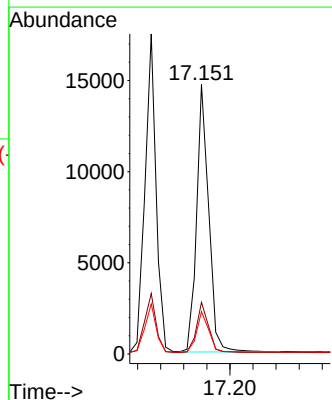
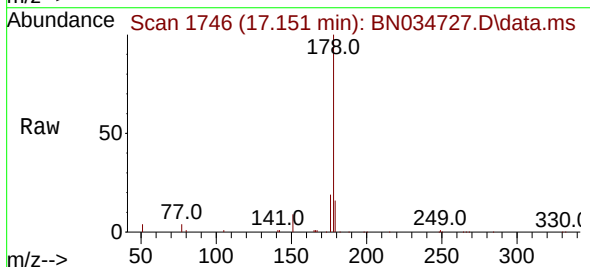
Instrument :
BNA_N
ClientSampleId :
PB164409BS

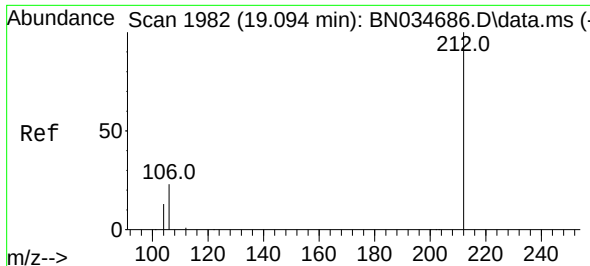
Tgt Ion:178 Resp: 23444
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.386 ng
RT: 17.151 min Scan# 1746
Delta R.T. -0.043 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:178 Resp: 21418
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.4 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.353 ng

RT: 19.055 min Scan# 1972

Delta R.T. -0.039 min

Lab File: BN034727.D

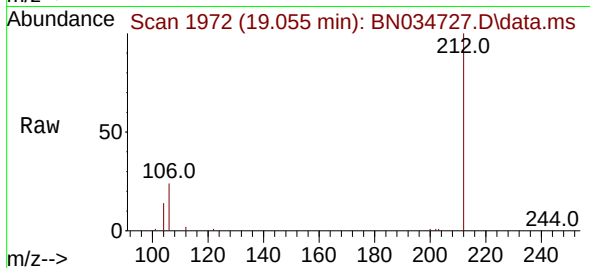
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS



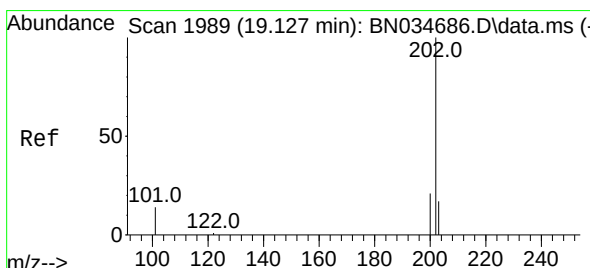
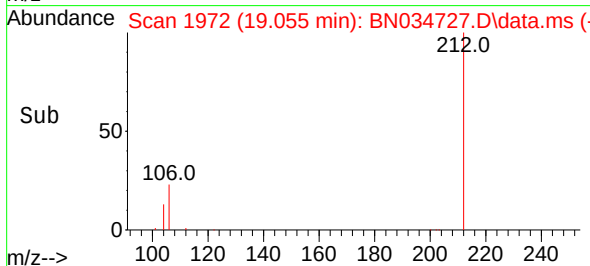
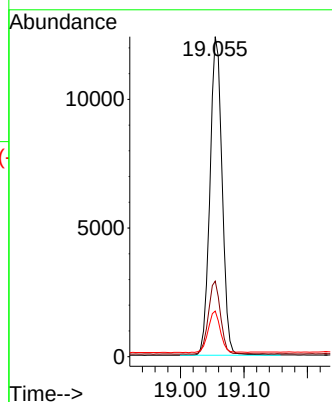
Tgt Ion:212 Resp: 16513

Ion Ratio Lower Upper

212 100

106 22.8 17.8 26.8

104 13.1 10.2 15.4



#28

Fluoranthene

Concen: 0.340 ng

RT: 19.087 min Scan# 1979

Delta R.T. -0.039 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

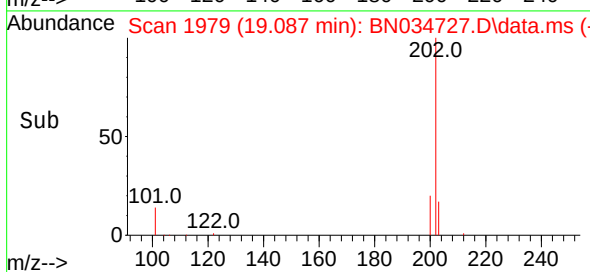
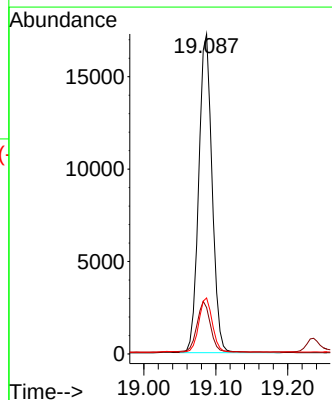
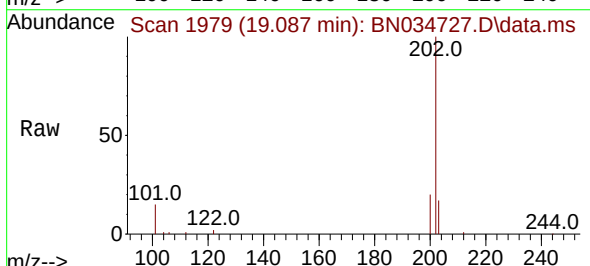
Tgt Ion:202 Resp: 22165

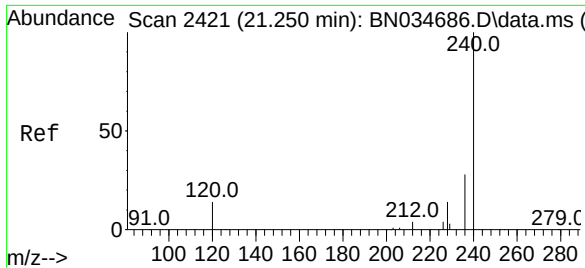
Ion Ratio Lower Upper

202 100

101 16.6 12.8 19.2

203 17.0 13.5 20.3

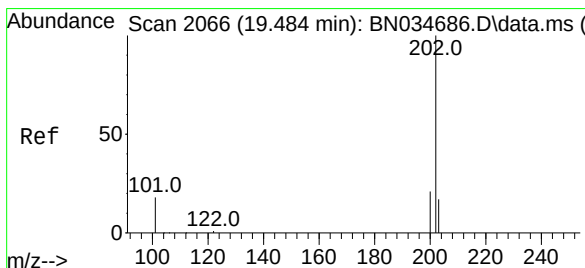
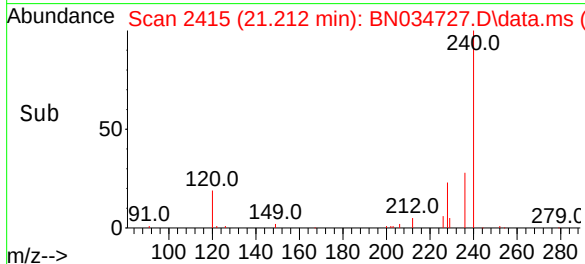
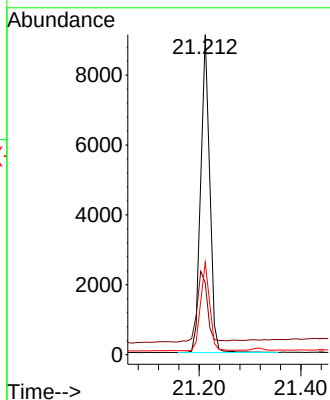
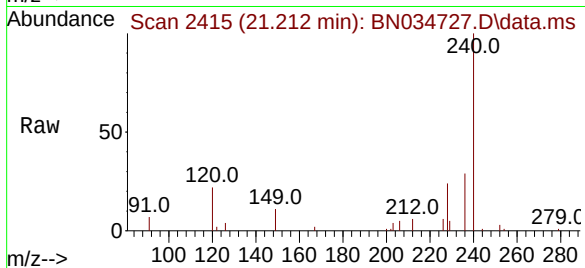




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

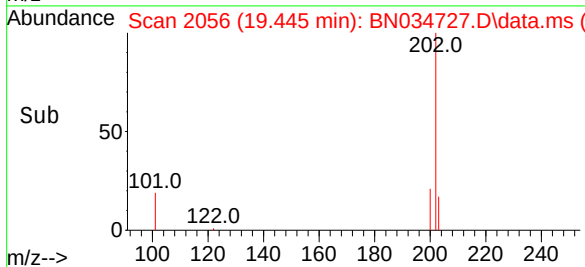
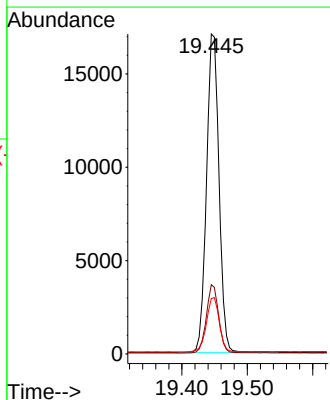
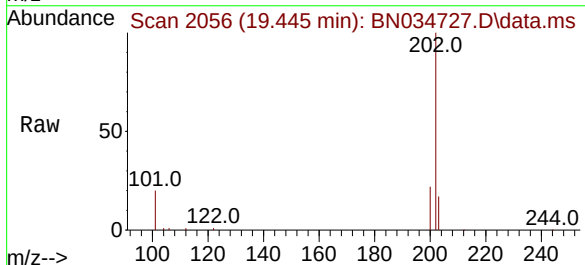
Instrument :
BNA_N
ClientSampleId :
PB164409BS

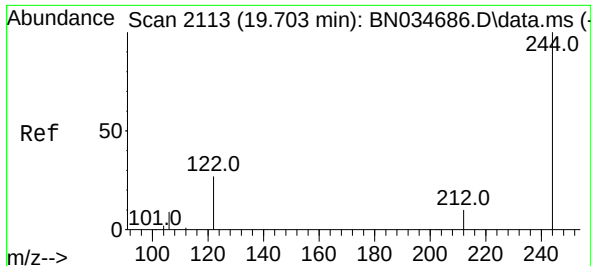
Tgt Ion:240 Resp: 11212
Ion Ratio Lower Upper
240 100
120 22.5 14.2 21.2#
236 28.9 23.1 34.7



#30
Pyrene
Concen: 0.393 ng
RT: 19.445 min Scan# 2056
Delta R.T. -0.039 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

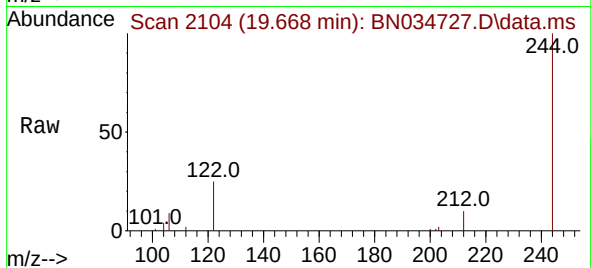
Tgt Ion:202 Resp: 22644
Ion Ratio Lower Upper
202 100
200 21.0 16.6 25.0
203 17.6 14.2 21.4



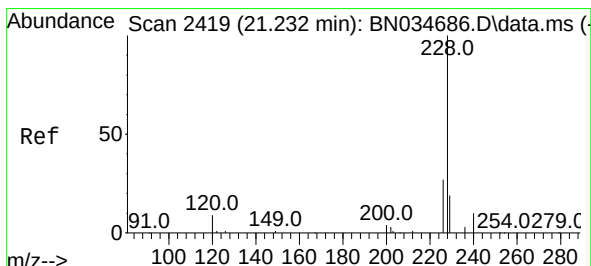
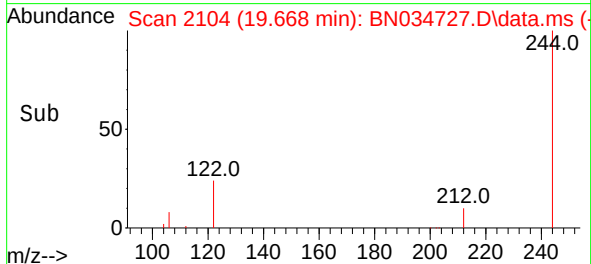
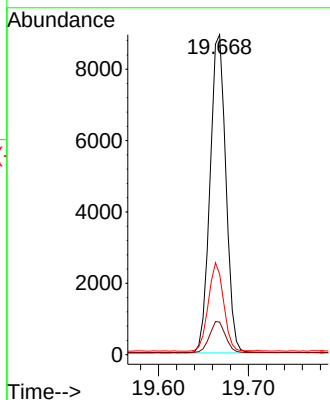


#31
Terphenyl-d14
Concen: 0.475 ng
RT: 19.668 min Scan# 2113
Delta R.T. -0.035 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :
BNA_N
ClientSampleId :
PB164409BS

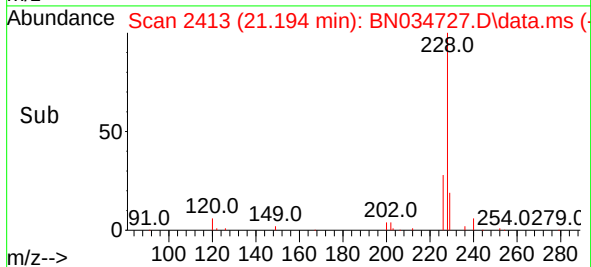
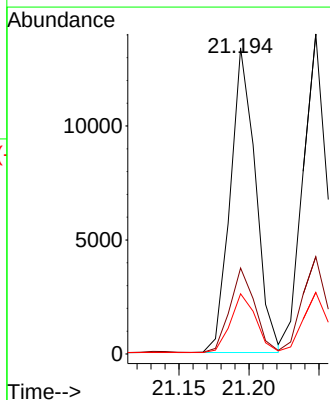
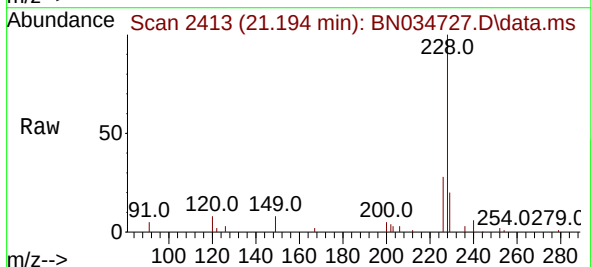


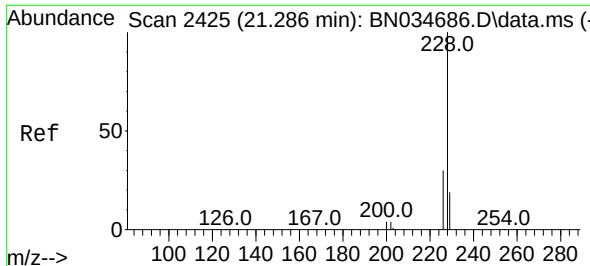
Tgt Ion:244 Resp: 10894
Ion Ratio Lower Upper
244 100
212 10.2 8.6 13.0
122 25.1 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:228 Resp: 16780
Ion Ratio Lower Upper
228 100
226 28.1 22.0 33.0
229 19.7 15.6 23.4

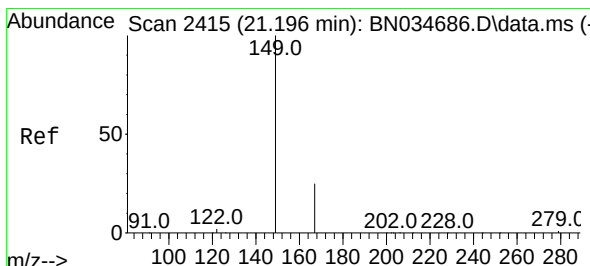
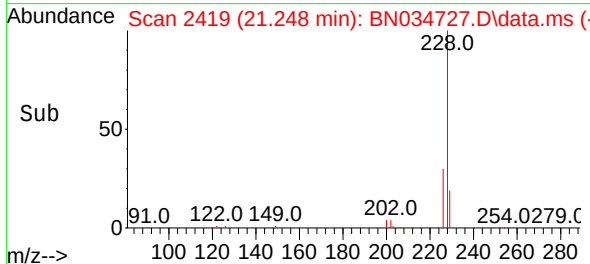
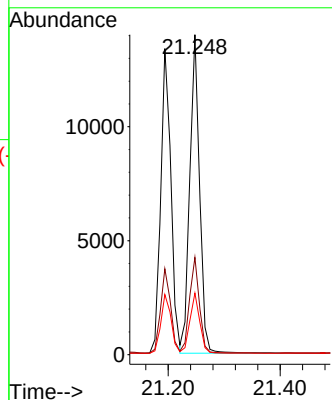
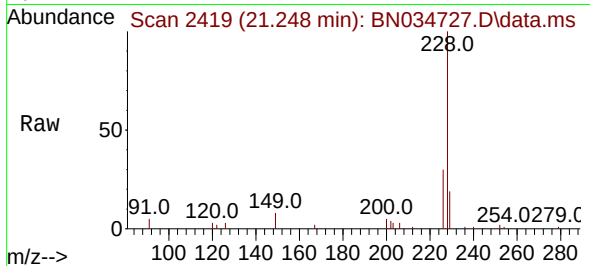




#33
Chrysene
Concen: 0.384 ng
RT: 21.248 min Scan# 2419
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

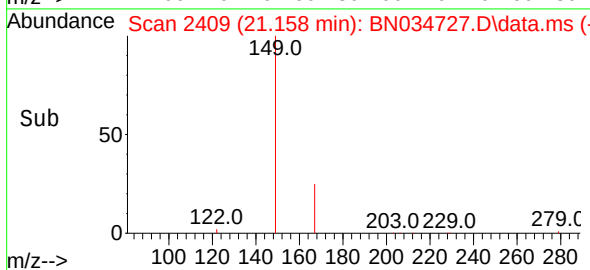
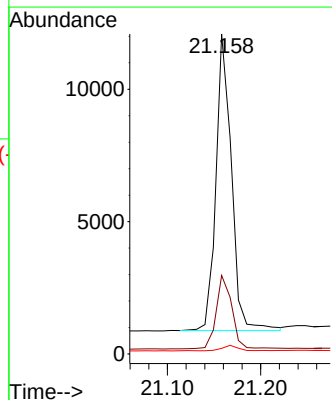
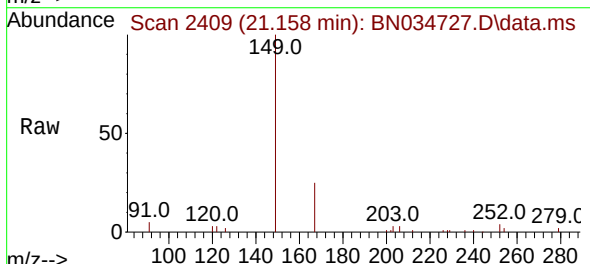
Instrument :
BNA_N
ClientSampleId :
PB164409BS

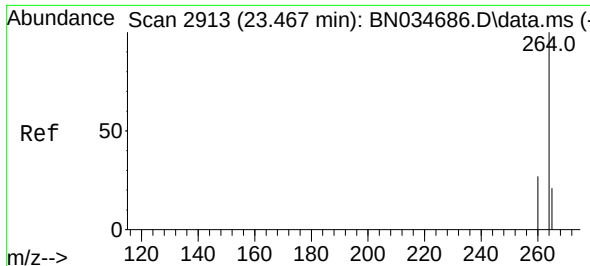
Tgt Ion:	228	Resp:	17018
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.1	36.1
229	19.3	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.530 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.038 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Tgt Ion:	149	Resp:	12888
Ion Ratio	Lower	Upper	
149	100		
167	24.9	19.7	29.5
279	2.0	1.8	2.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.052 min

Lab File: BN034727.D

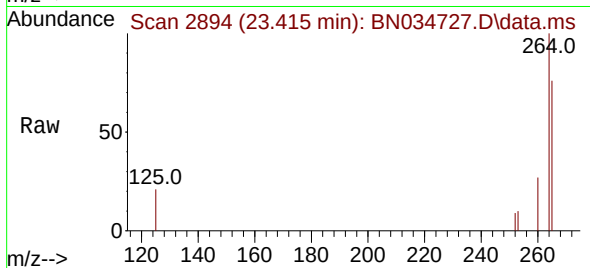
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS



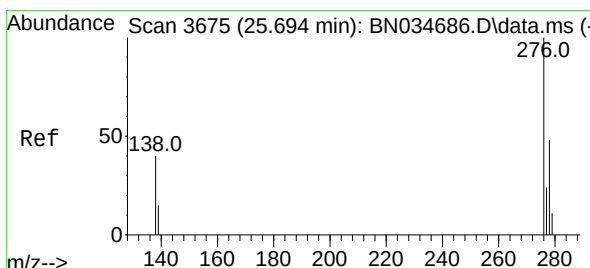
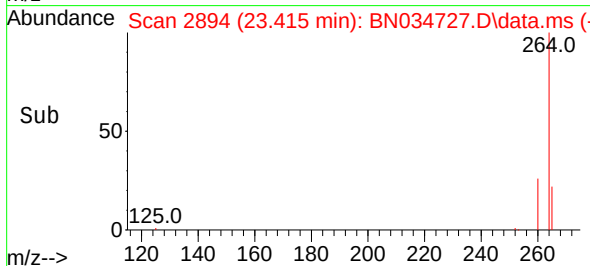
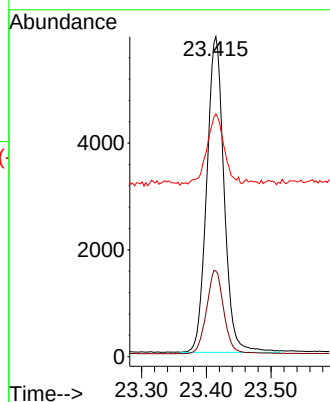
Tgt Ion:264 Resp: 10991

Ion Ratio Lower Upper

264 100

260 26.7 21.9 32.9

265 75.9 60.6 91.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.420 ng

RT: 25.619 min Scan# 3648

Delta R.T. -0.075 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

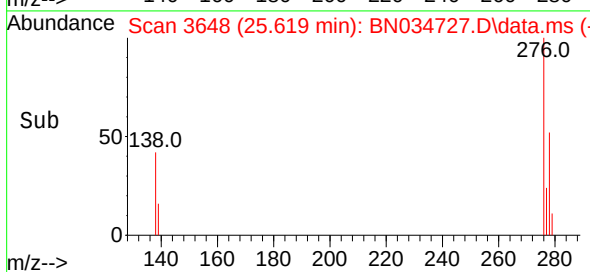
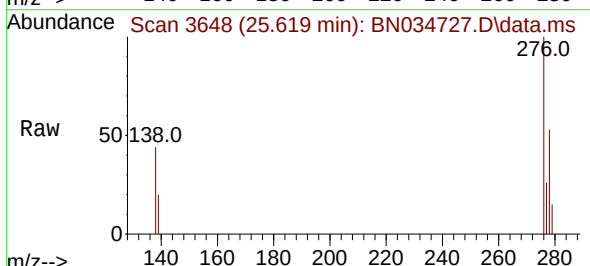
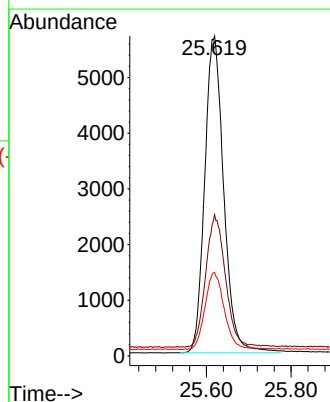
Tgt Ion:276 Resp: 17784

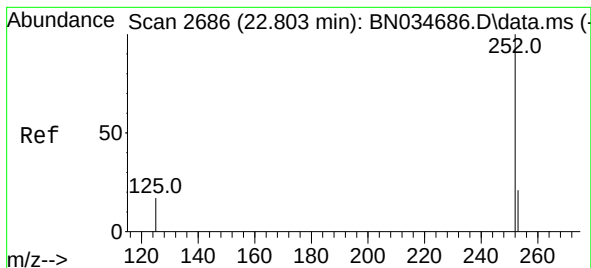
Ion Ratio Lower Upper

276 100

138 42.7 35.1 52.7

277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.757 min Scan# 2669

Delta R.T. -0.046 min

Lab File: BN034727.D

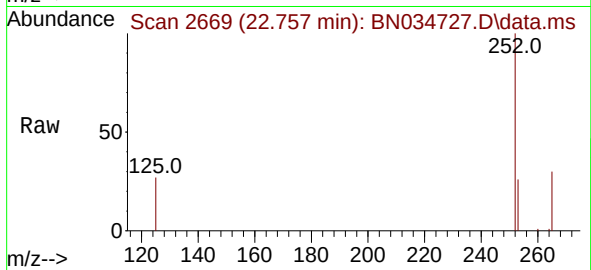
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS



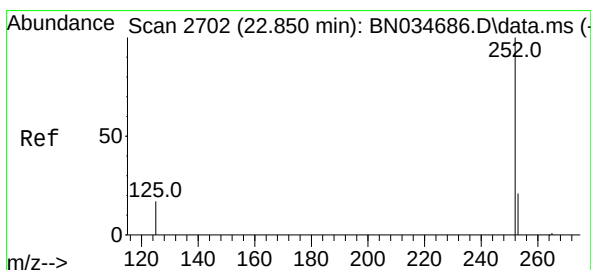
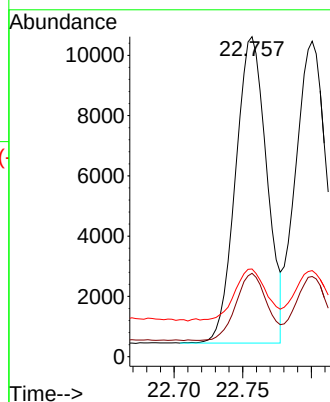
Tgt Ion:252 Resp: 16080

Ion Ratio Lower Upper

252 100

253 26.1 20.0 30.0

125 27.4 20.9 31.3



#38

Benzo(k)fluoranthene

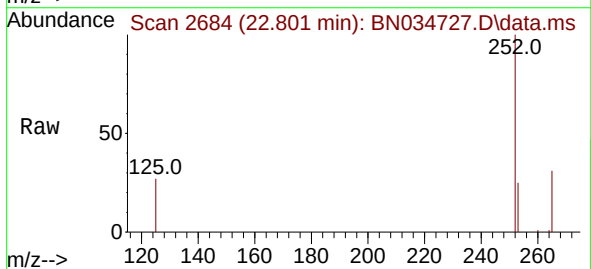
Concen: 0.373 ng

RT: 22.801 min Scan# 2684

Delta R.T. -0.049 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40



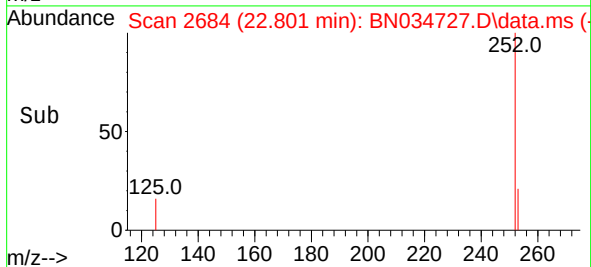
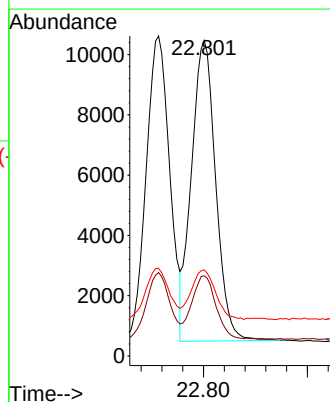
Tgt Ion:252 Resp: 16158

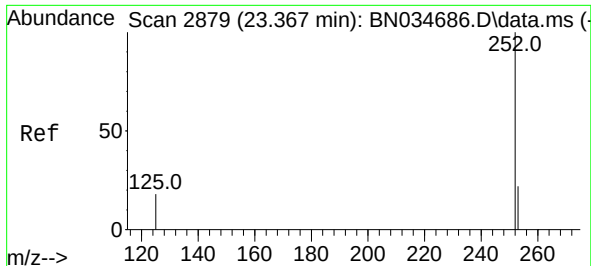
Ion Ratio Lower Upper

252 100

253 25.4 20.6 31.0

125 27.3 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.415 ng

RT: 23.318 min Scan# 21

Delta R.T. -0.049 min

Lab File: BN034727.D

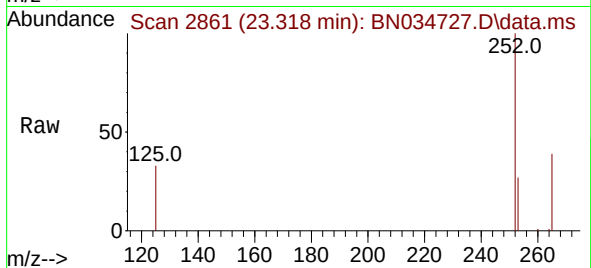
Acq: 25 Oct 2024 17:40

Instrument :

BNA_N

ClientSampleId :

PB164409BS



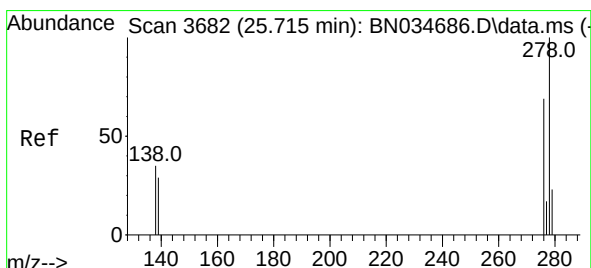
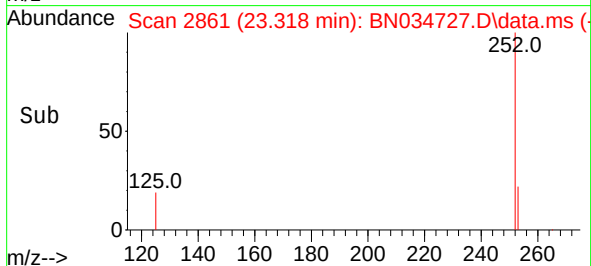
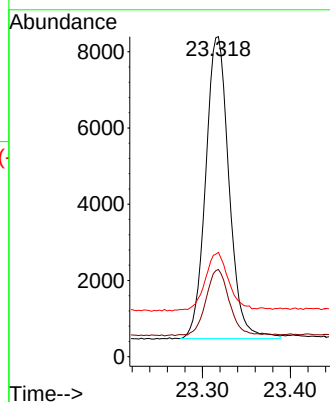
Tgt Ion:252 Resp: 14630

Ion Ratio Lower Upper

252 100

253 27.3 22.2 33.4

125 32.6 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.410 ng

RT: 25.634 min Scan# 3653

Delta R.T. -0.081 min

Lab File: BN034727.D

Acq: 25 Oct 2024 17:40

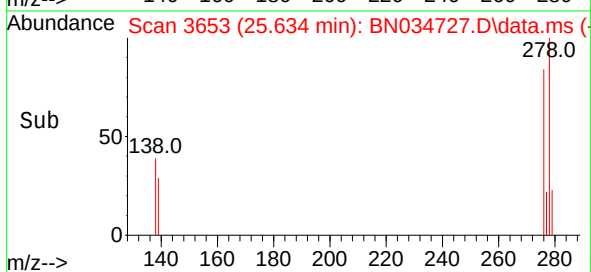
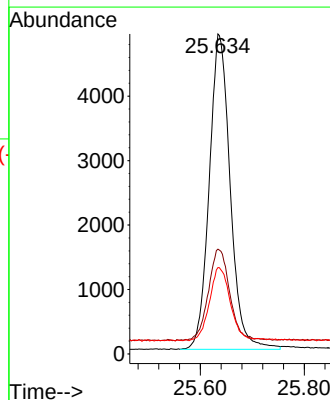
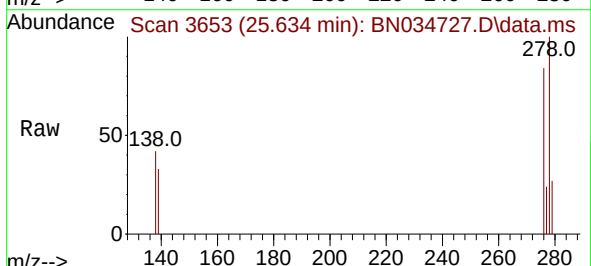
Tgt Ion:278 Resp: 13681

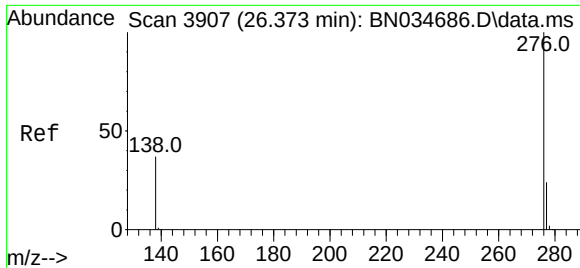
Ion Ratio Lower Upper

278 100

139 32.7 25.4 38.2

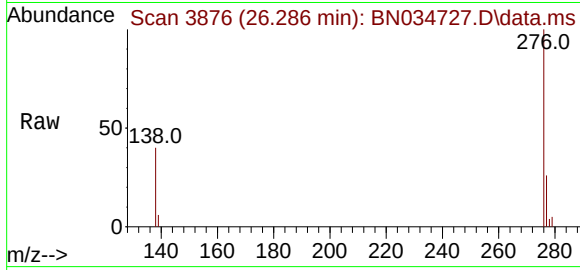
279 27.0 22.4 33.6



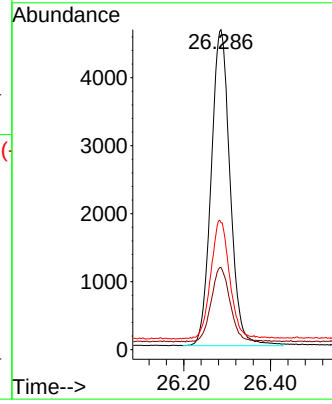
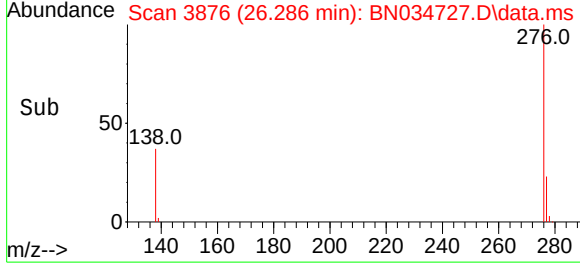


#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.286 min Scan# 31
Delta R.T. -0.087 min
Lab File: BN034727.D
Acq: 25 Oct 2024 17:40

Instrument :
BNA_N
ClientSampleId :
PB164409BS



Tgt Ion:276 Resp: 14059
Ion Ratio Lower Upper
276 100
277 25.7 21.3 31.9
138 39.7 31.9 47.9



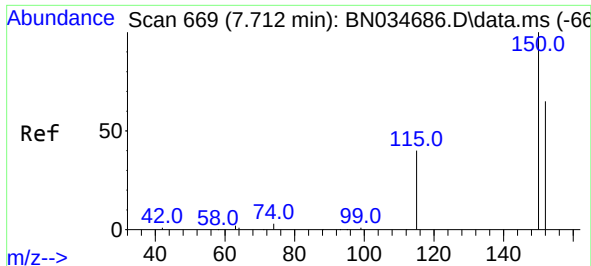
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034728.D
 Acq On : 25 Oct 2024 18:16
 Operator : RC/JU
 Sample : PB164409BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164409BSD

Quant Time: Oct 28 05:57:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 28 00:44:15 2024
 Response via : Initial Calibration

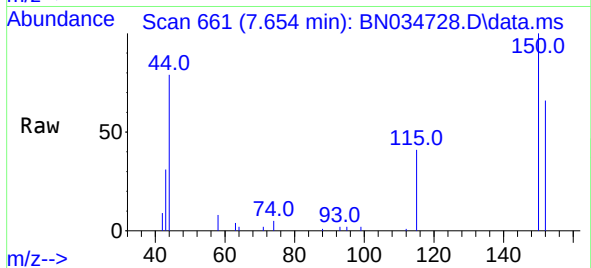
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.654	152	8434	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	23419	0.400	ng	# 0.01
13) Acenaphthene-d10	14.283	164	10653	0.400	ng	0.01
19) Phenanthrene-d10	17.026	188	19220	0.400	ng	0.01
29) Chrysene-d12	21.212	240	10299	0.400	ng	0.00
35) Perylene-d12	23.415	264	10044	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	8988	0.358	ng	0.00
5) Phenol-d6	6.824	99	11777	0.356	ng	0.00
8) Nitrobenzene-d5	8.781	82	7564	0.385	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	12023	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.773	330	1243	0.377	ng	0.00
15) 2-Fluorobiphenyl	12.903	172	16558	0.391	ng	0.00
27) Fluoranthene-d10	19.055	212	15149	0.350	ng	0.00
31) Terphenyl-d14	19.663	244	9926	0.472	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.242	88	3249	0.289	ng	# 57
3) n-Nitrosodimethylamine	3.531	42	5716	0.350	ng	# 94
6) bis(2-Chloroethyl)ether	7.084	93	9951	0.370	ng	100
9) Naphthalene	10.468	128	23716	0.366	ng	100
10) Hexachlorobutadiene	10.767	225	3519	0.362	ng	# 98
12) 2-Methylnaphthalene	12.090	142	14677	0.365	ng	100
16) Acenaphthylene	13.994	152	19529	0.382	ng	100
17) Acenaphthene	14.336	154	12757	0.362	ng	99
18) Fluorene	15.330	166	15070	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.405	198	854	0.319	ng	85
21) 4-Bromophenyl-phenylether	16.232	248	3991	0.389	ng	93
22) Hexachlorobenzene	16.331	284	4170	0.375	ng	98
23) Atrazine	16.505	200	3262	0.405	ng	98
24) Pentachlorophenol	16.679	266	2988	0.760	ng	97
25) Phenanthrene	17.064	178	22141	0.384	ng	100
26) Anthracene	17.150	178	20023	0.391	ng	100
28) Fluoranthene	19.087	202	20378	0.338	ng	99
30) Pyrene	19.450	202	20914	0.395	ng	99
32) Benzo(a)anthracene	21.194	228	15505	0.394	ng	99
33) Chrysene	21.248	228	15838	0.389	ng	100
34) Bis(2-ethylhexyl)phtha...	21.158	149	10465	0.469	ng	100
36) Indeno(1,2,3-cd)pyrene	25.613	276	16941	0.438	ng	100
37) Benzo(b)fluoranthene	22.757	252	15194	0.379	ng	98
38) Benzo(k)fluoranthene	22.801	252	15226	0.385	ng	99
39) Benzo(a)pyrene	23.315	252	13861	0.431	ng	99
40) Dibenzo(a,h)anthracene	25.637	278	13054	0.428	ng	98
41) Benzo(g,h,i)perylene	26.286	276	13399	0.398	ng	100

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

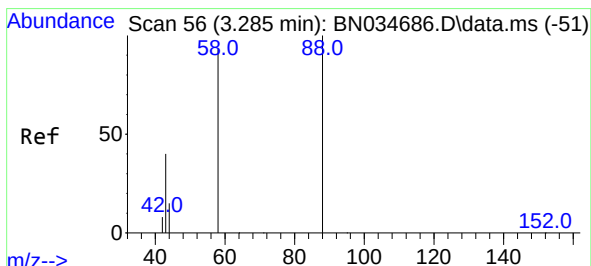
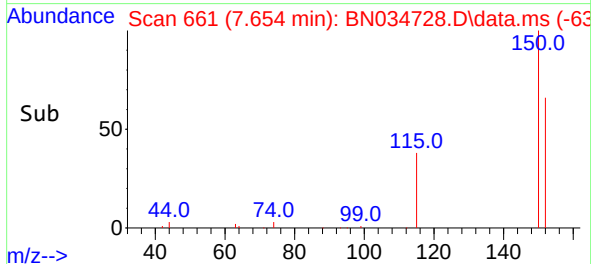
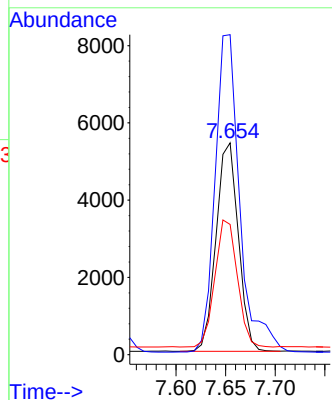


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.654 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

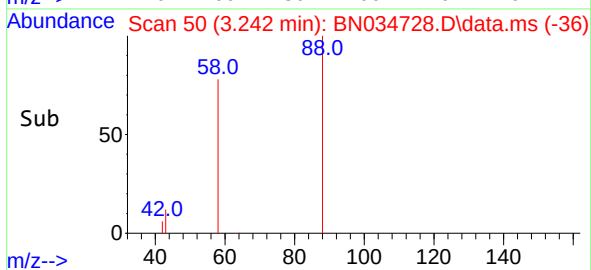
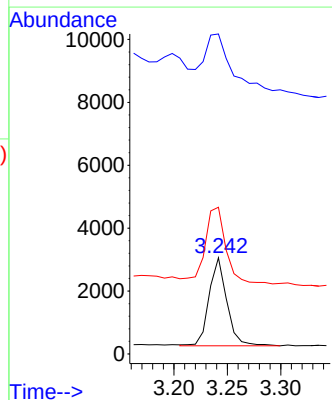
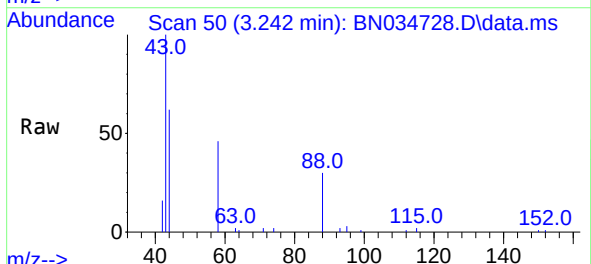


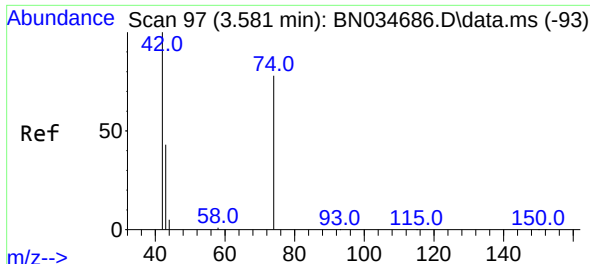
Tgt Ion:152 Resp: 8434
Ion Ratio Lower Upper
152 100
150 151.1 122.7 184.1
115 61.5 51.0 76.6



#2
1,4-Dioxane
Concen: 0.289 ng
RT: 3.242 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion: 88 Resp: 3249
Ion Ratio Lower Upper
88 100
43 105.0 32.1 48.1#
58 107.7 73.7 110.5

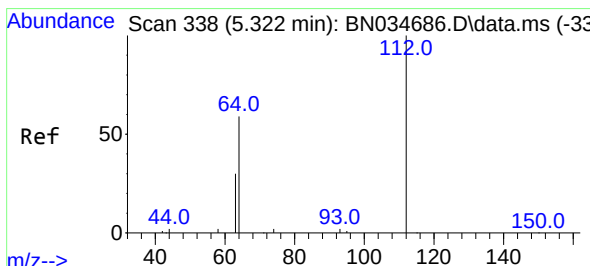
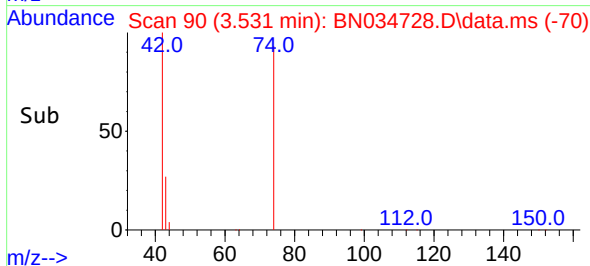
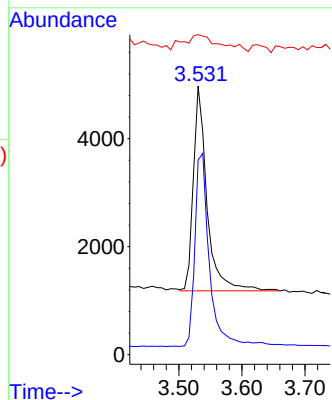
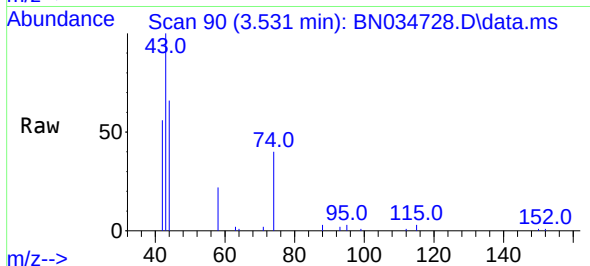




#3
n-Nitrosodimethylamine
Concen: 0.350 ng
RT: 3.531 min Scan# 90
Delta R.T. -0.007 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

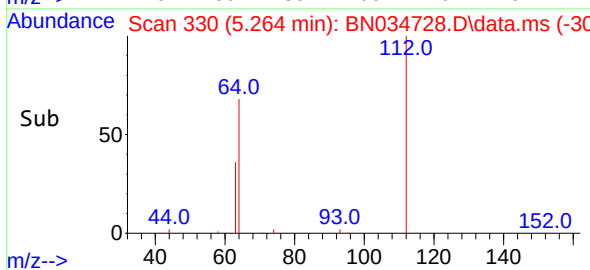
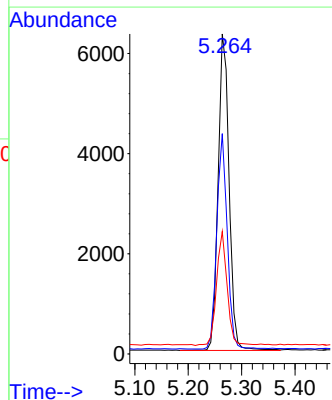
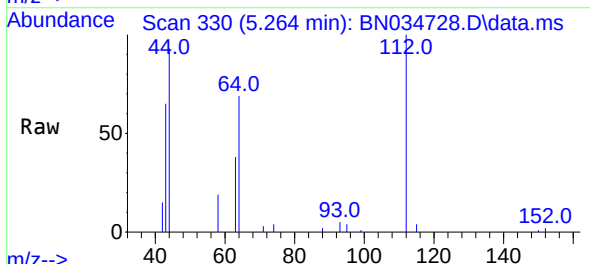
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

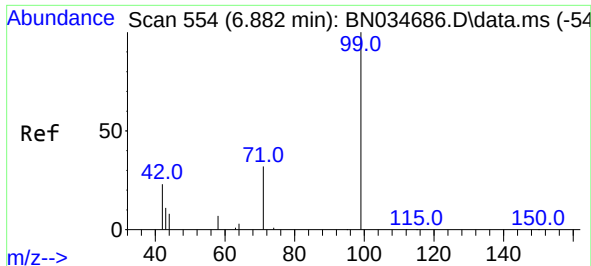
Tgt Ion: 42 Resp: 5716
Ion Ratio Lower Upper
42 100
74 101.2 77.2 115.8
44 21.6 13.4 20.2#



#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.264 min Scan# 330
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion: 112 Resp: 8988
Ion Ratio Lower Upper
112 100
64 65.1 53.0 79.6
63 34.8 27.6 41.4

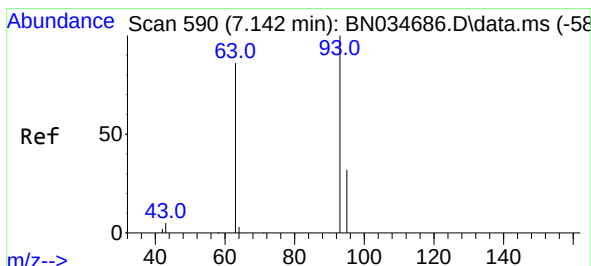
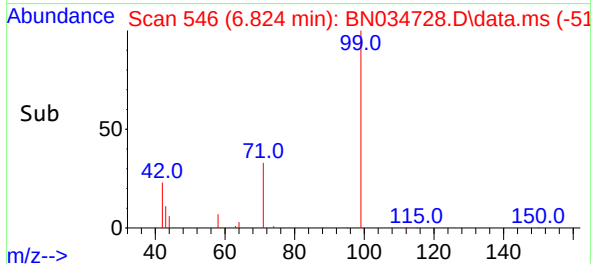
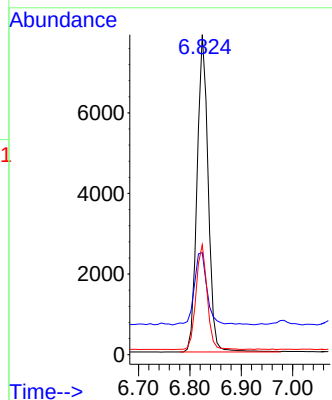
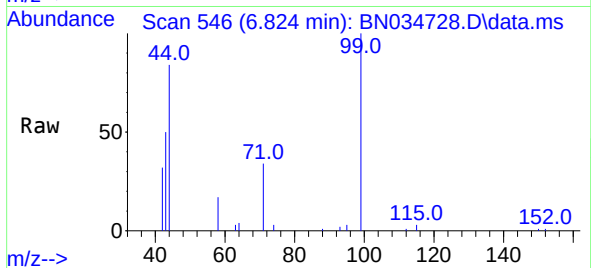




#5
Phenol-d6
Concen: 0.356 ng
RT: 6.824 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

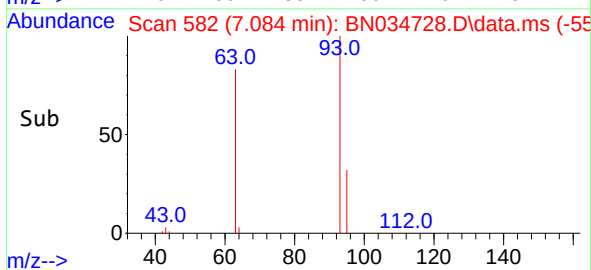
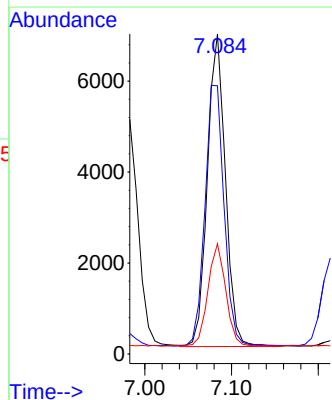
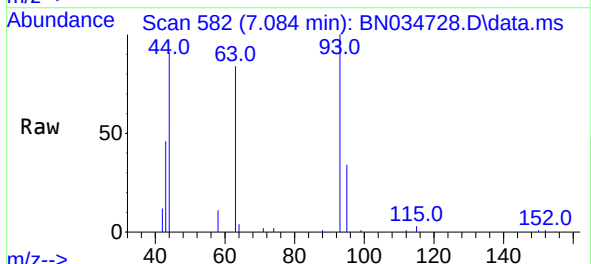
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

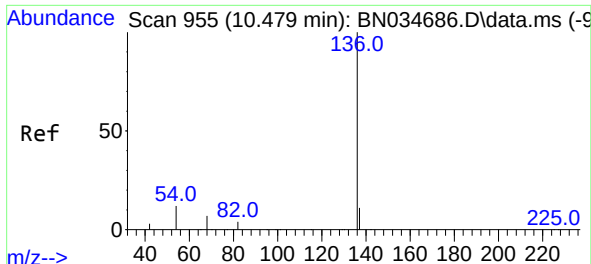
Tgt Ion: 99 Resp: 11777
Ion Ratio Lower Upper
99 100
42 26.7 21.8 32.8
71 32.9 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 7.084 min Scan# 582
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion: 93 Resp: 9951
Ion Ratio Lower Upper
93 100
63 88.8 71.5 107.3
95 32.2 25.8 38.6

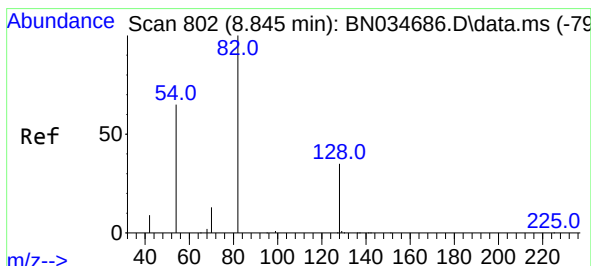
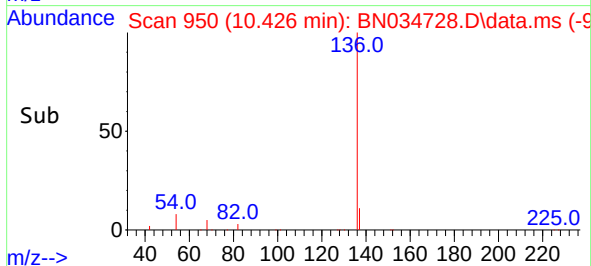
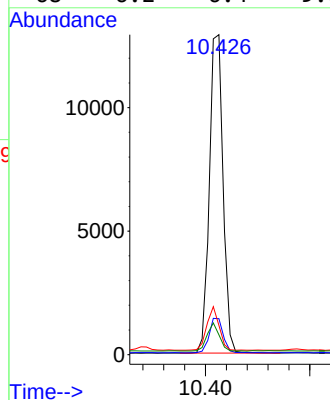
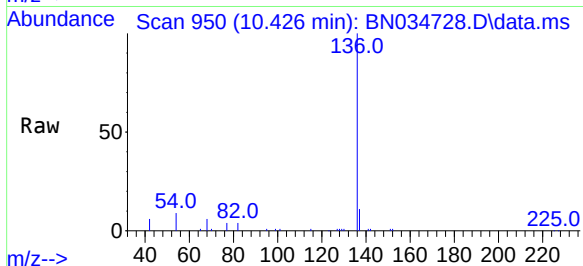




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

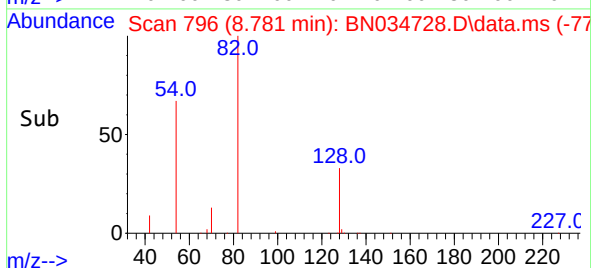
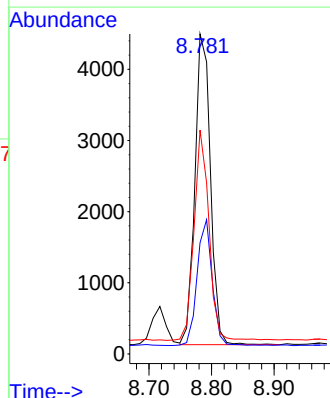
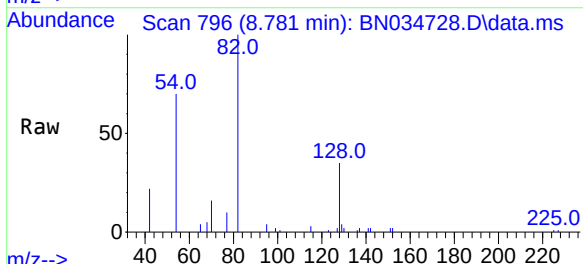
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

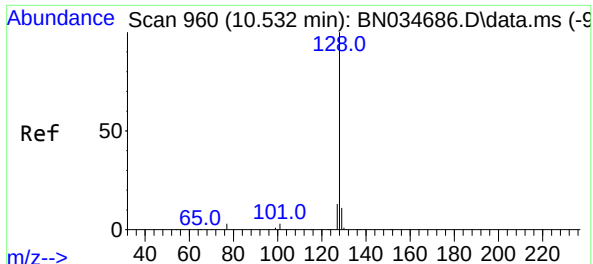
Tgt Ion:	136	Resp:	23419
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	9.1	9.8	14.8#
68	6.2	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:	82	Resp:	7564
Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.7	44.5
54	69.9	53.0	79.6

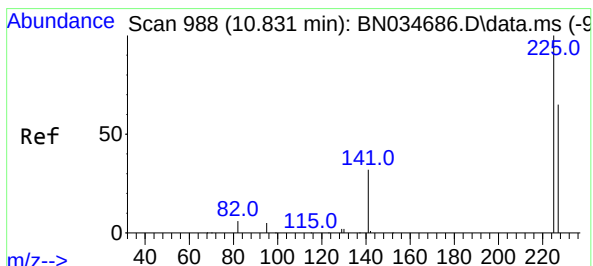
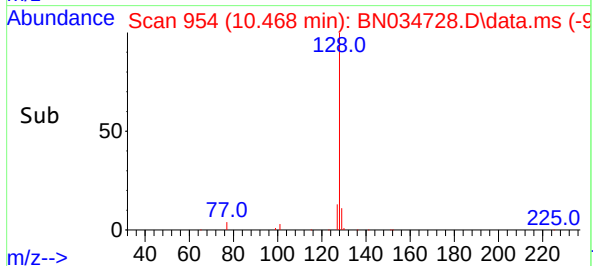
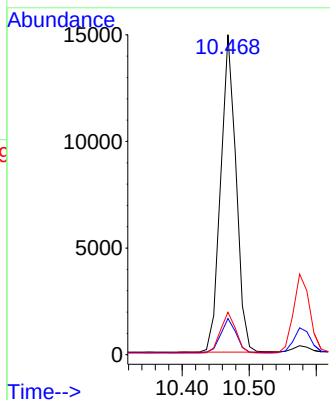
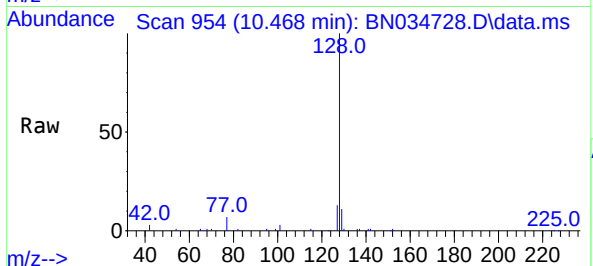




#9
Naphthalene
Concen: 0.366 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

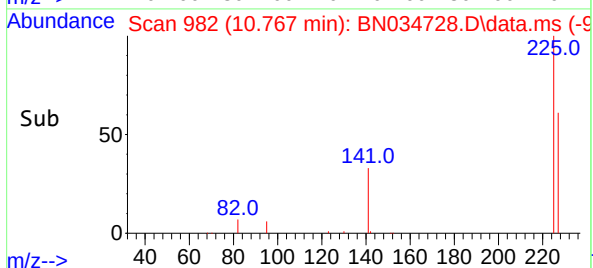
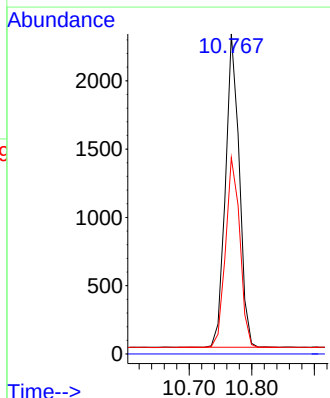
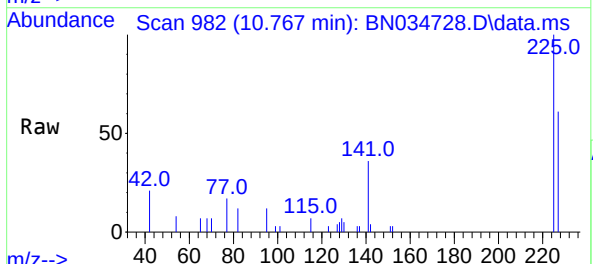
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

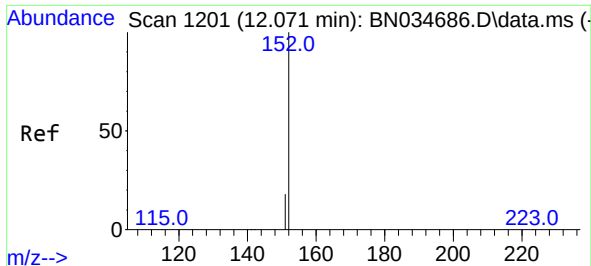
Tgt Ion:128	Resp:	23716
Ion Ratio	Lower	Upper
128	100	
129	11.3	9.0 13.6
127	13.2	10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:225	Resp:	3519
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	62.8	51.4 77.0

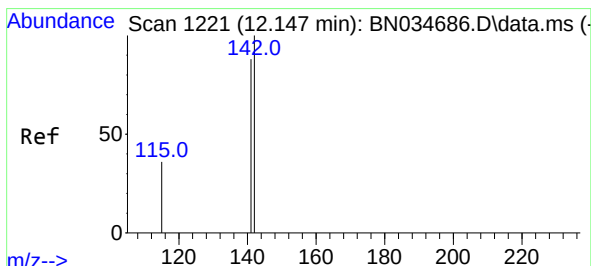
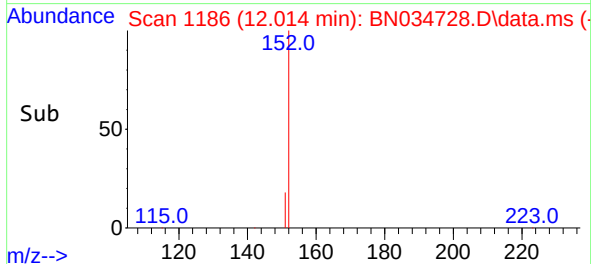
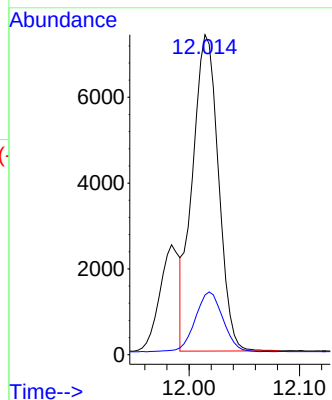
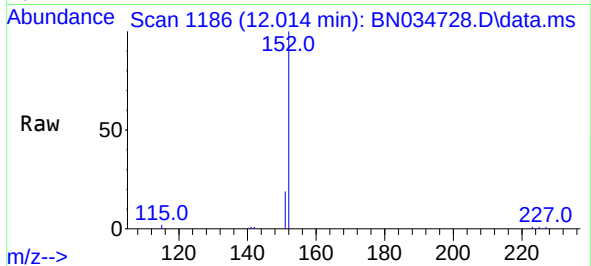




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.014 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

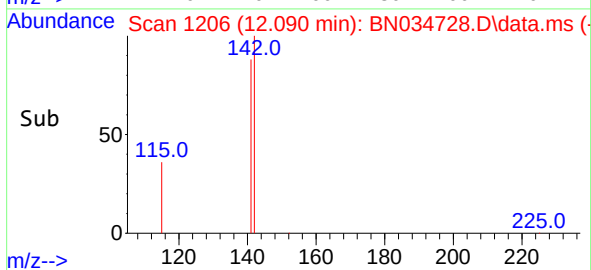
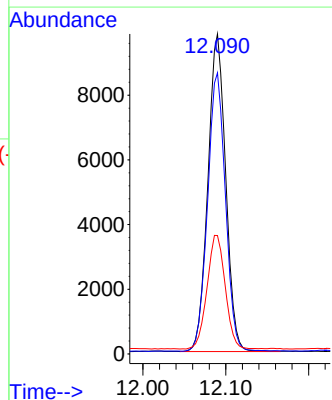
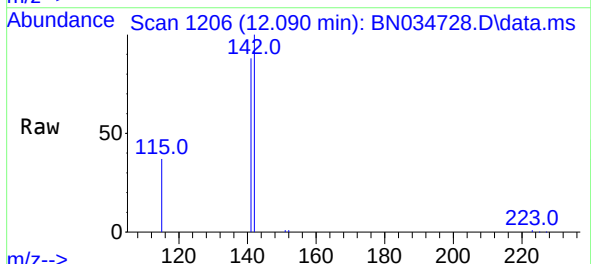
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

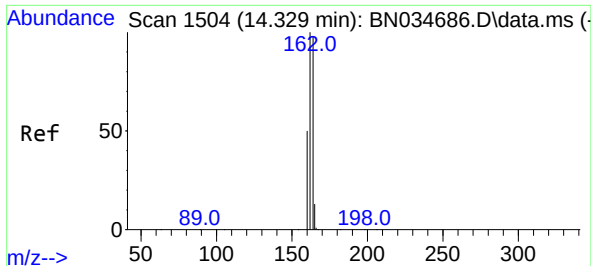
Tgt Ion:152 Resp: 12023
Ion Ratio Lower Upper
152 100
151 20.3 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.090 min Scan# 1206
Delta R.T. 0.004 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:142 Resp: 14677
Ion Ratio Lower Upper
142 100
141 87.8 70.4 105.6
115 37.0 29.8 44.6

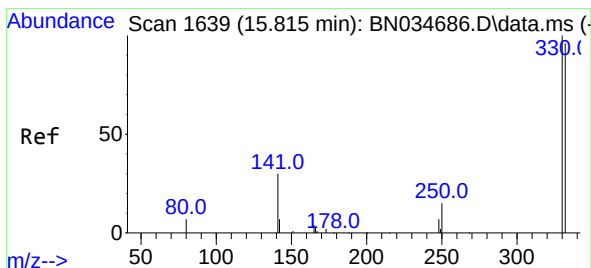
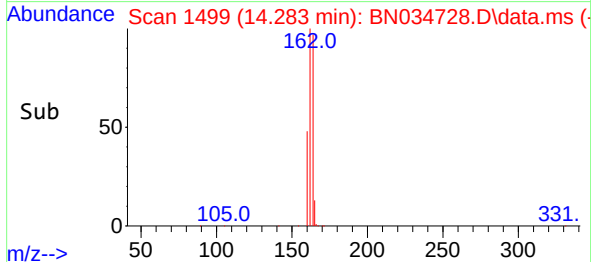
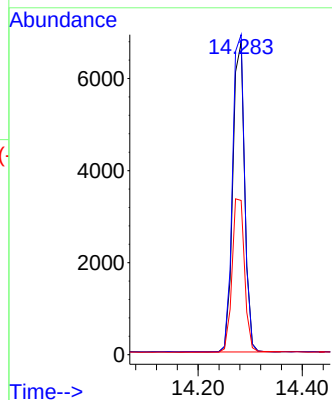
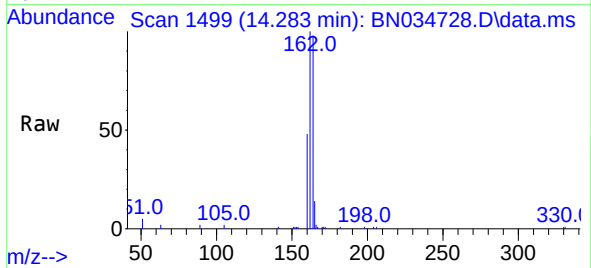




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

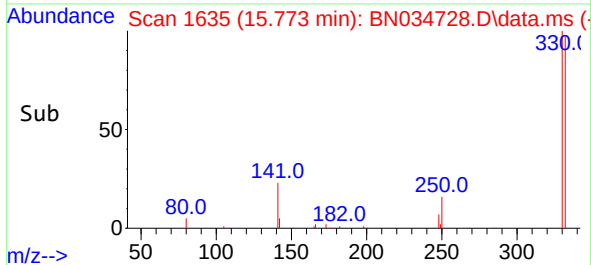
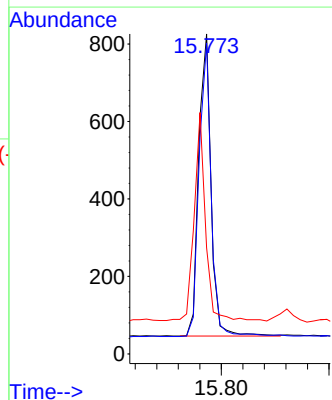
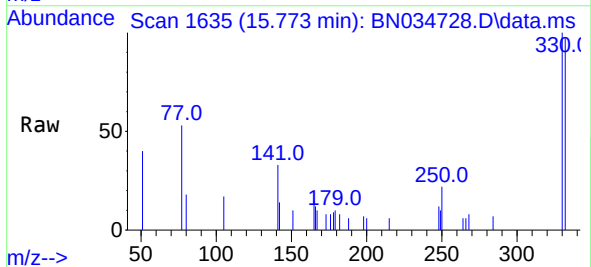
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

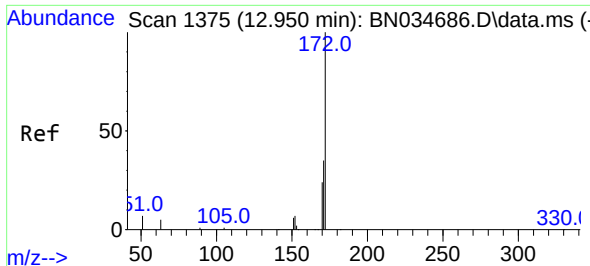
Tgt Ion:164 Resp: 10653
Ion Ratio Lower Upper
164 100
162 102.5 81.4 122.0
160 49.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.773 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:330 Resp: 1243
Ion Ratio Lower Upper
330 100
332 96.1 76.6 115.0
141 62.3 54.6 81.8

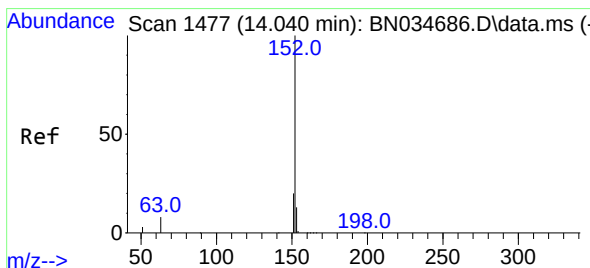
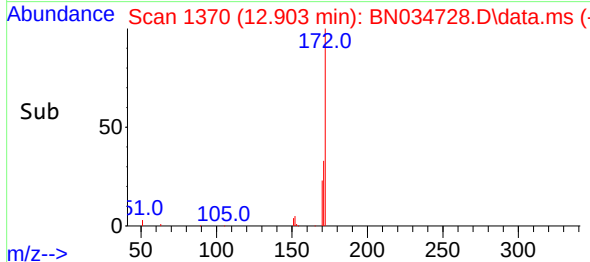
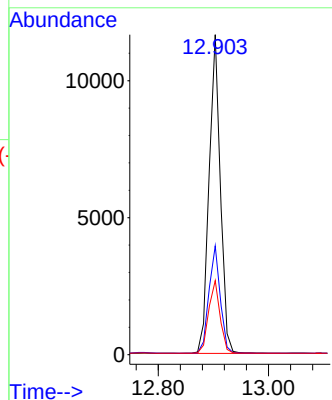
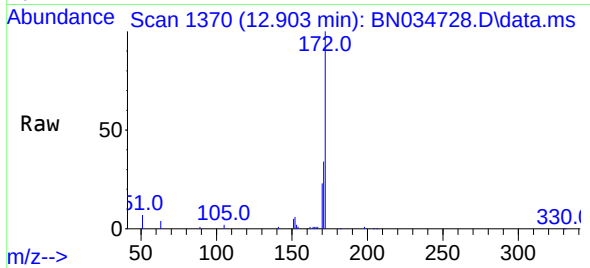




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.903 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

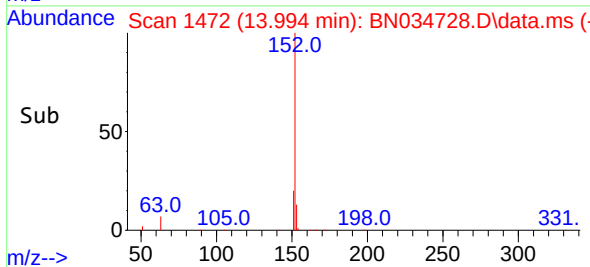
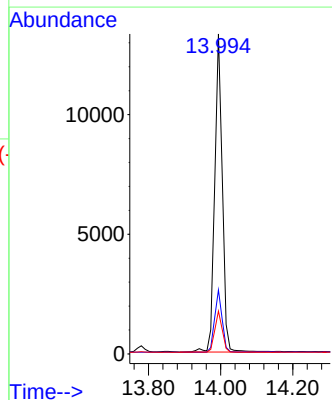
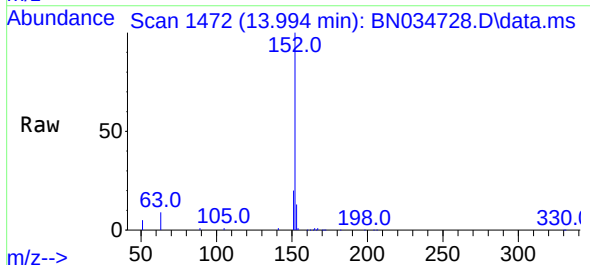
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

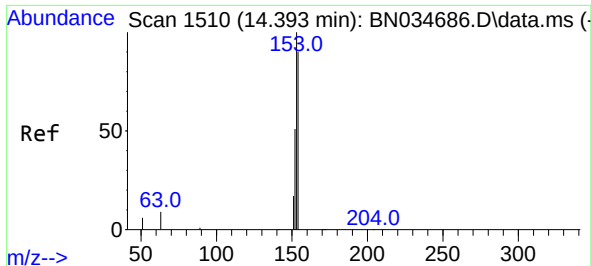
Tgt Ion:	172	Resp:	16558
Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.3	42.5
170	23.2	19.8	29.6



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.994 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:	152	Resp:	19529
Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.6	15.8

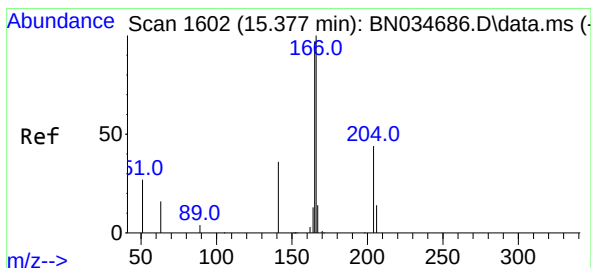
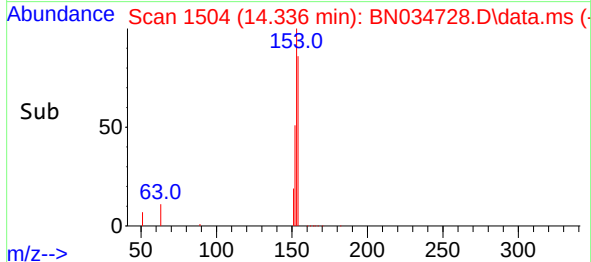
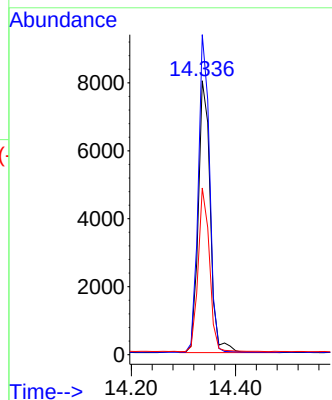
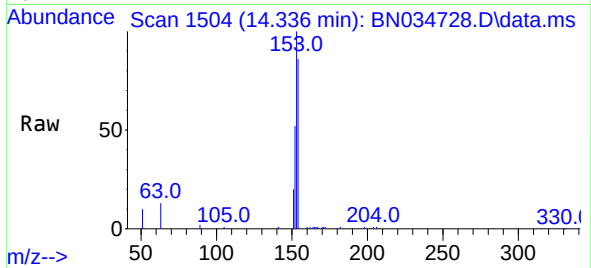




#17
Acenaphthene
Concen: 0.362 ng
RT: 14.336 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

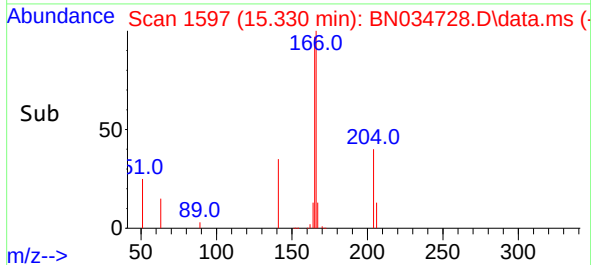
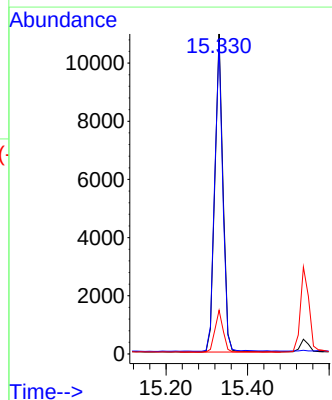
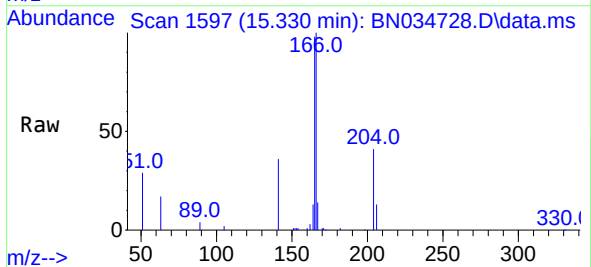
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

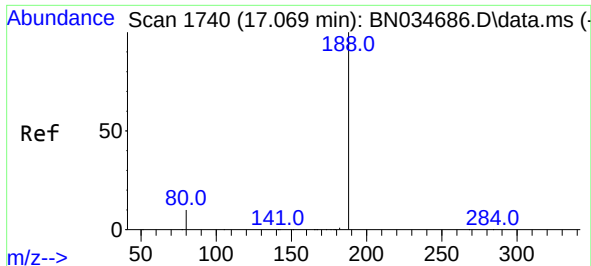
Tgt Ion:154 Resp: 12757
Ion Ratio Lower Upper
154 100
153 110.8 88.2 132.2
152 57.1 46.9 70.3



#18
Fluorene
Concen: 0.346 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:166 Resp: 15070
Ion Ratio Lower Upper
166 100
165 97.3 78.8 118.2
167 13.4 10.6 16.0

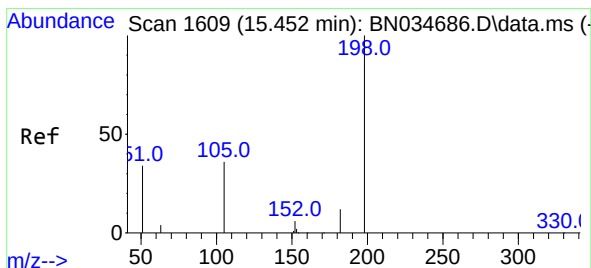
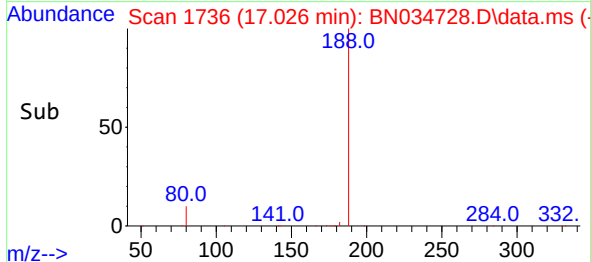
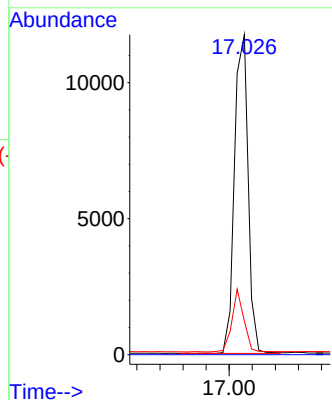
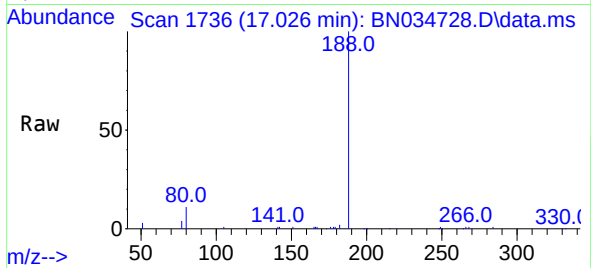




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 11
Delta R.T. 0.013 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

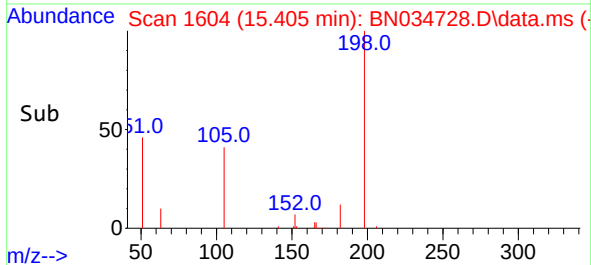
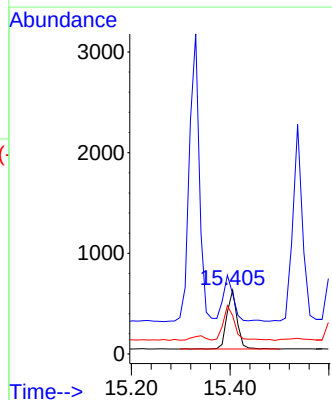
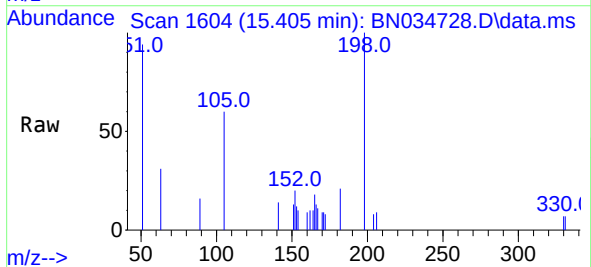
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

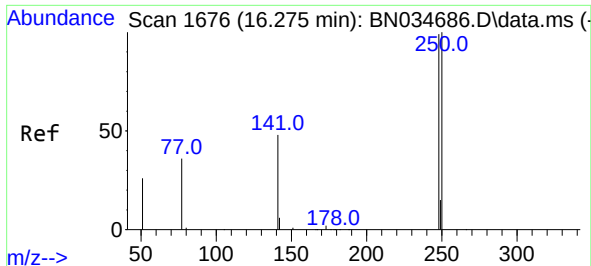
Tgt Ion:188 Resp: 19220
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 8.9 13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.319 ng
RT: 15.405 min Scan# 1604
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:198 Resp: 854
Ion Ratio Lower Upper
198 100
51 94.0 91.8 137.8
105 60.1 44.3 66.5

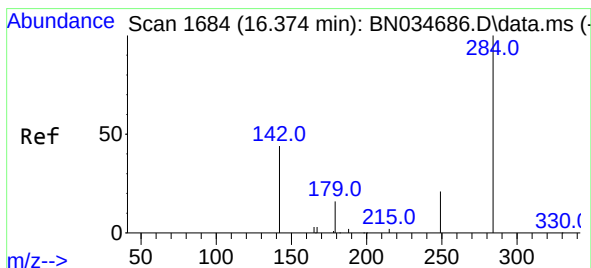
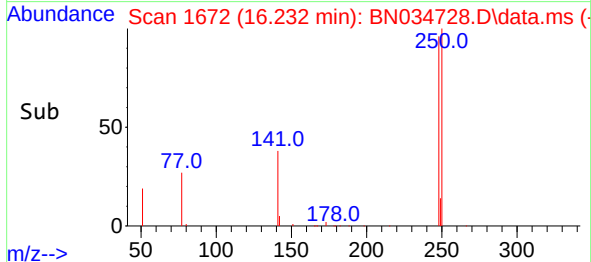
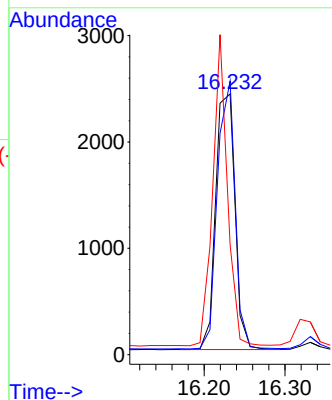
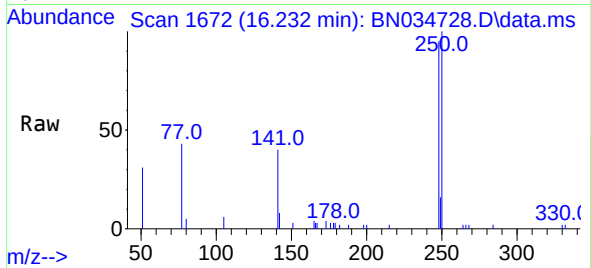




#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.232 min Scan# 1672
Delta R.T. 0.013 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

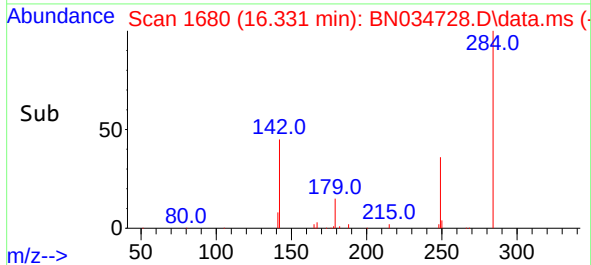
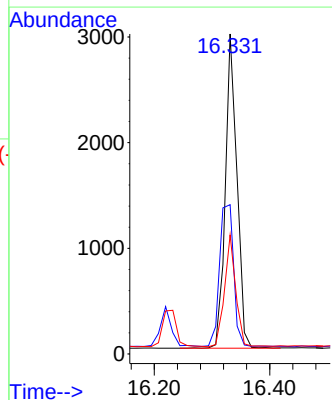
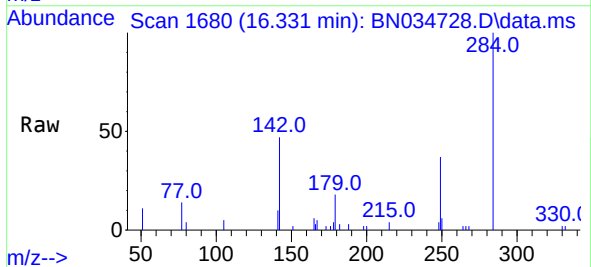
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

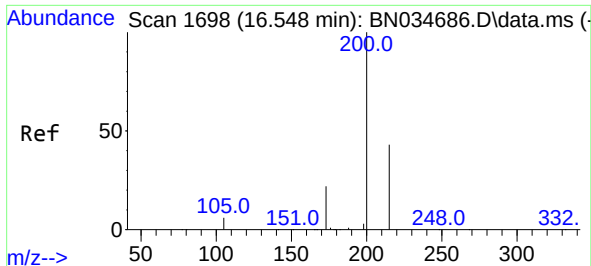
Tgt Ion:248 Resp: 3991
Ion Ratio Lower Upper
248 100
250 104.9 80.9 121.3
141 42.1 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.331 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:284 Resp: 4170
Ion Ratio Lower Upper
284 100
142 55.4 43.6 65.4
249 34.7 26.6 40.0

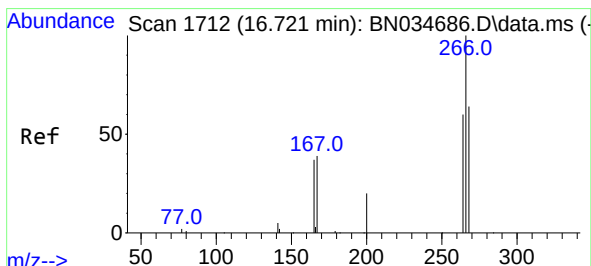
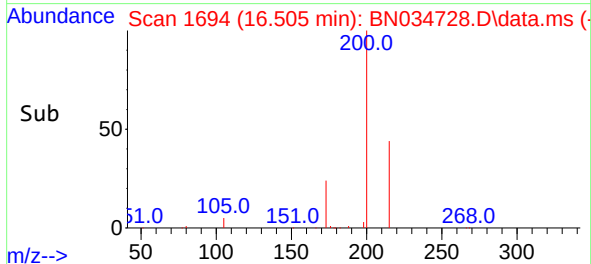
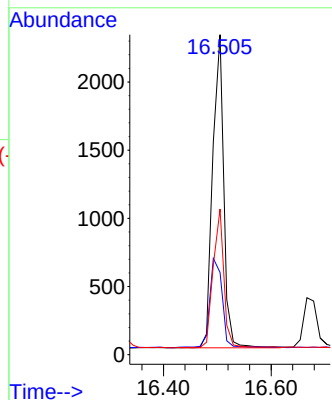
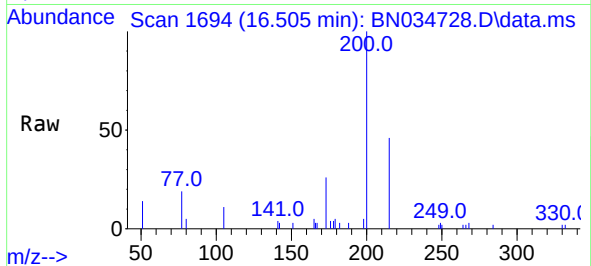




#23
Atrazine
Concen: 0.405 ng
RT: 16.505 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

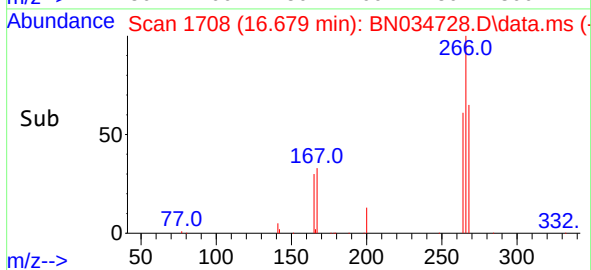
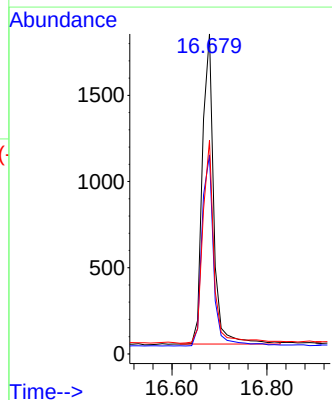
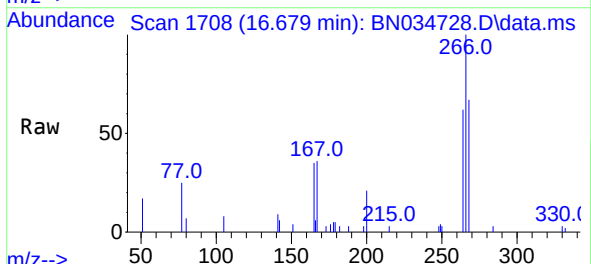
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

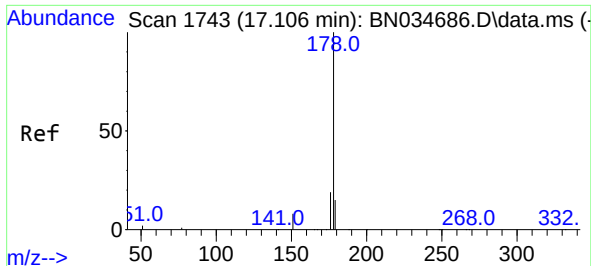
Tgt Ion:200 Resp: 3262
Ion Ratio Lower Upper
200 100
173 25.7 19.7 29.5
215 45.5 35.7 53.5



#24
Pentachlorophenol
Concen: 0.760 ng
RT: 16.679 min Scan# 1708
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:266 Resp: 2988
Ion Ratio Lower Upper
266 100
264 63.9 49.4 74.2
268 65.0 50.5 75.7

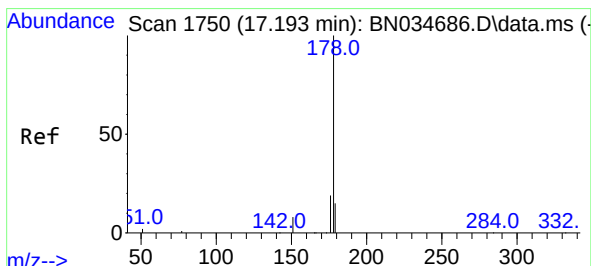
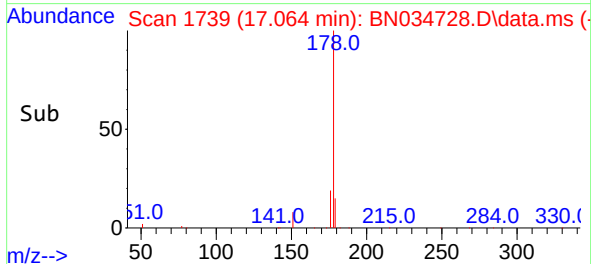
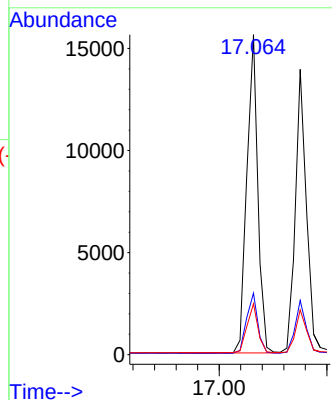
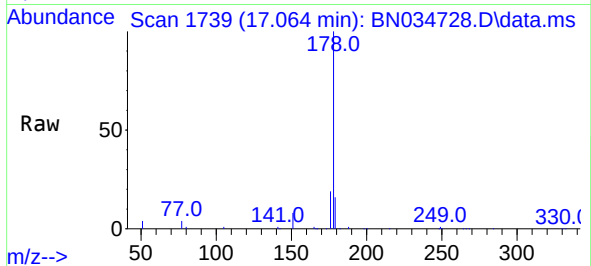




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.064 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

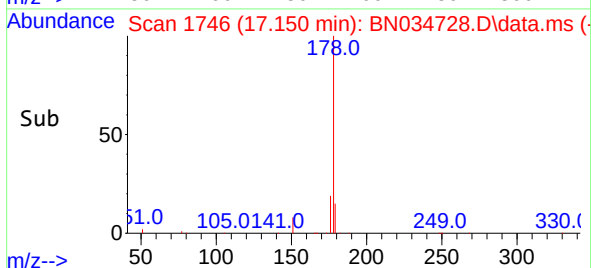
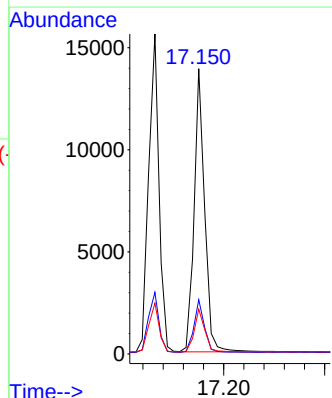
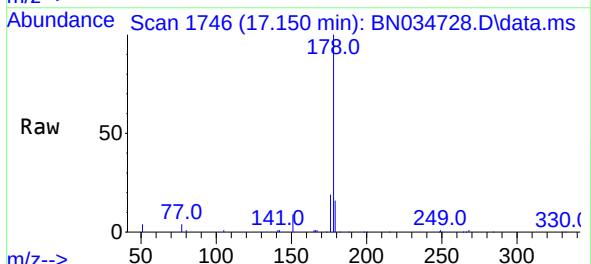
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

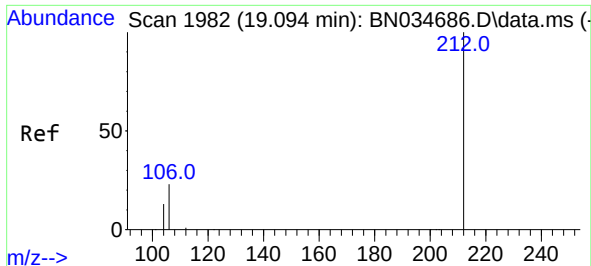
Tgt Ion:178 Resp: 22141
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.391 ng
RT: 17.150 min Scan# 1746
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:178 Resp: 20023
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.4 12.2 18.2

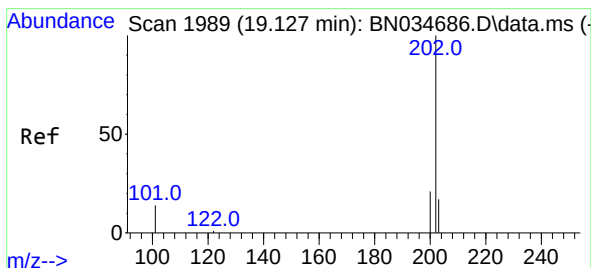
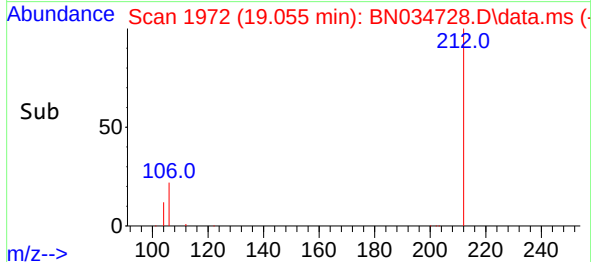
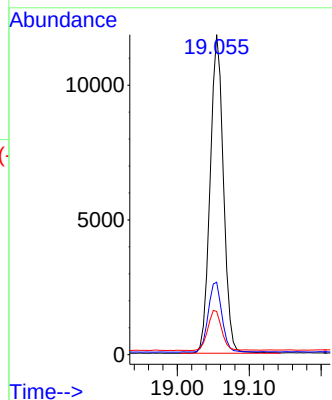
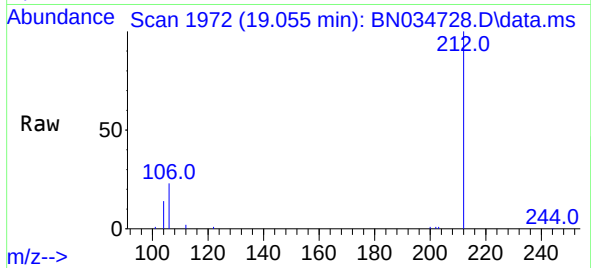




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.055 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

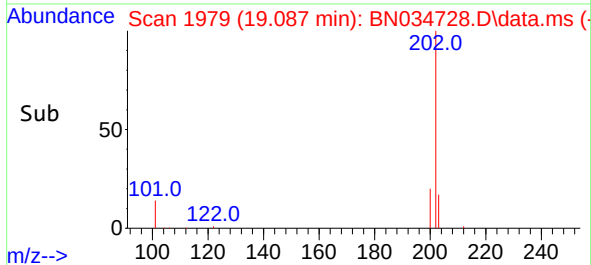
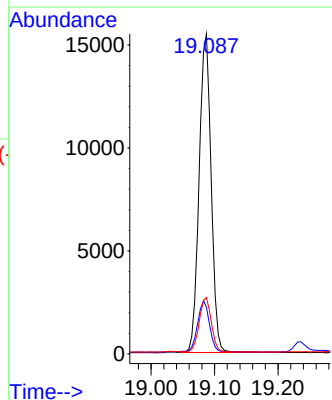
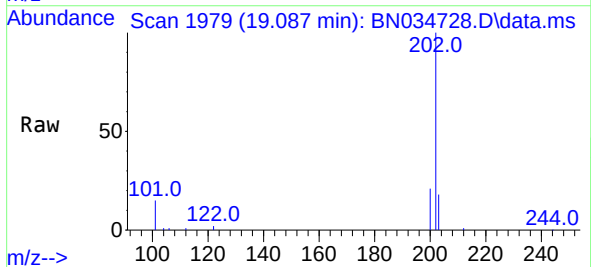
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

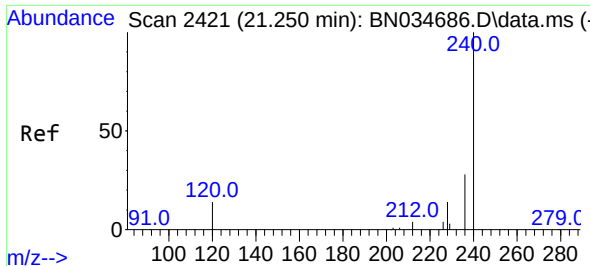
Tgt Ion:	212	Resp:	15149
Ion	Ratio	Lower	Upper
212	100		
106	22.6	17.8	26.8
104	13.1	10.2	15.4



#28
Fluoranthene
Concen: 0.338 ng
RT: 19.087 min Scan# 1979
Delta R.T. 0.005 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:	202	Resp:	20378
Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.8	19.2
203	17.1	13.5	20.3

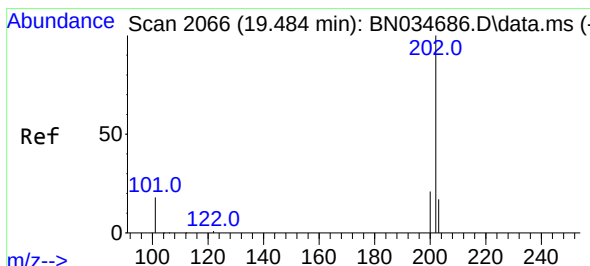
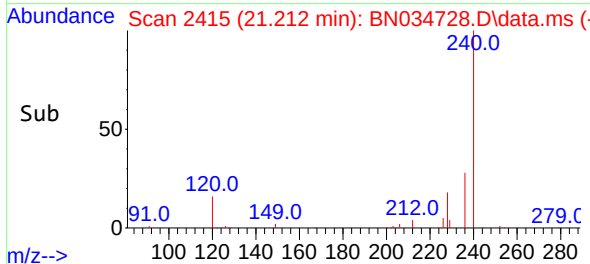
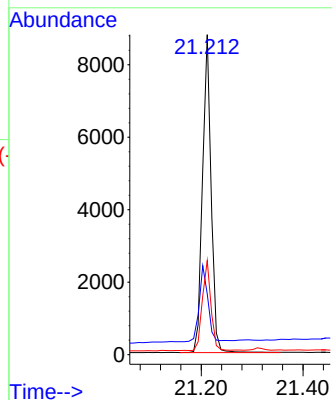
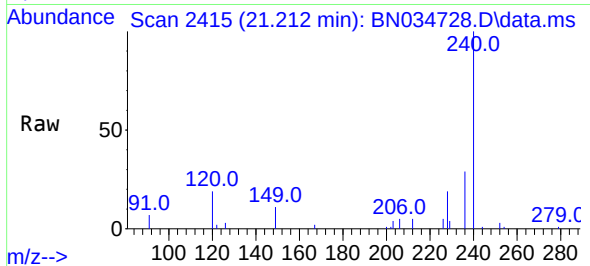




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

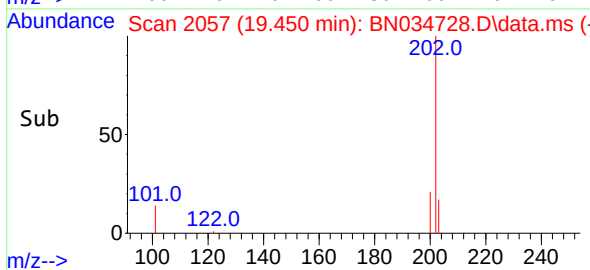
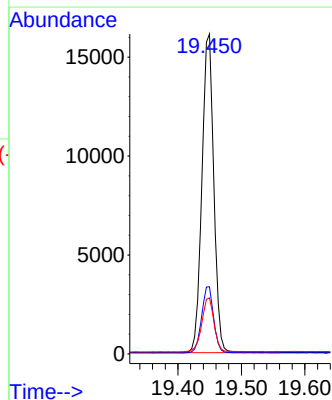
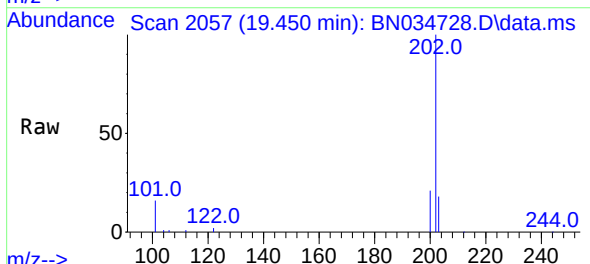
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

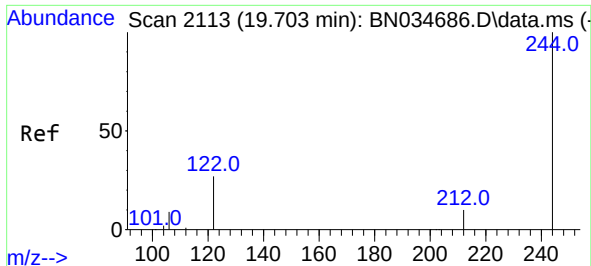
Tgt Ion:240 Resp: 10299
Ion Ratio Lower Upper
240 100
120 19.0 14.2 21.2
236 29.4 23.1 34.7



#30
Pyrene
Concen: 0.395 ng
RT: 19.450 min Scan# 2057
Delta R.T. 0.005 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

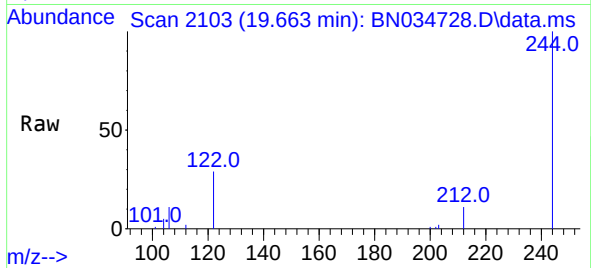
Tgt Ion:202 Resp: 20914
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.5 14.2 21.4



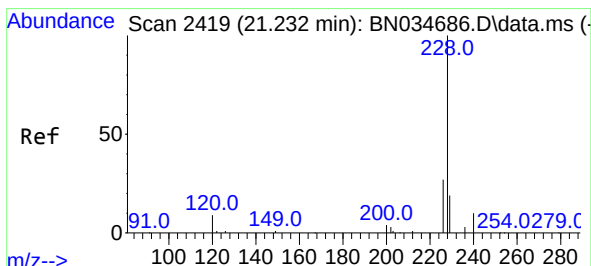
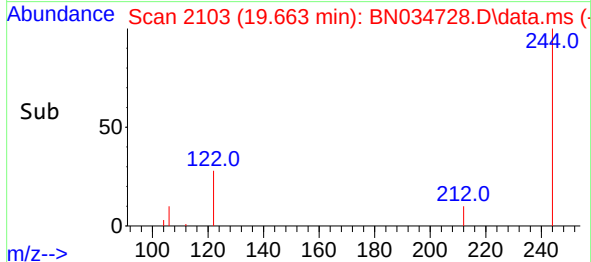
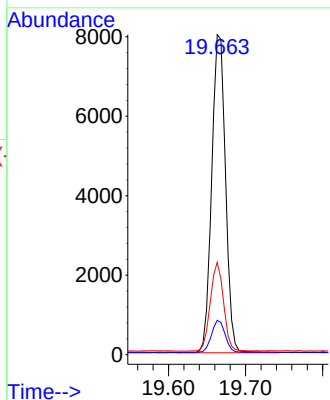


#31
Terphenyl-d14
Concen: 0.472 ng
RT: 19.663 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

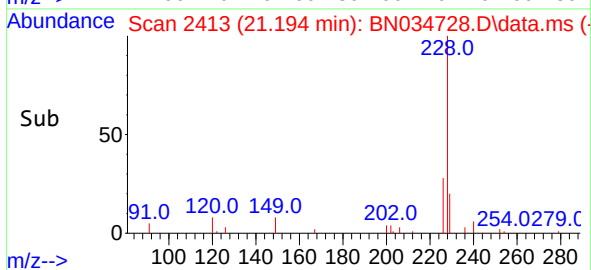
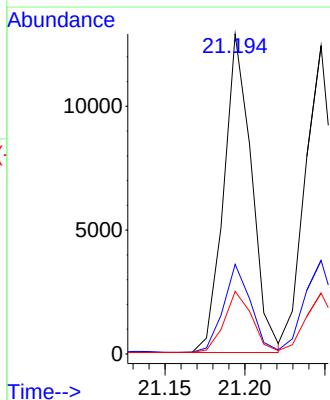
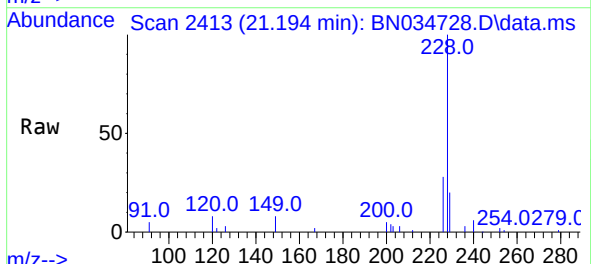


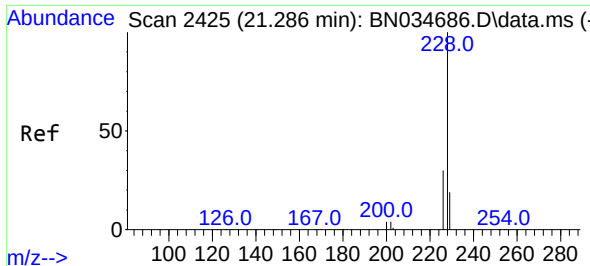
Tgt Ion:244 Resp: 9926
Ion Ratio Lower Upper
244 100
212 10.7 8.6 13.0
122 28.9 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.194 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Tgt Ion:228 Resp: 15505
Ion Ratio Lower Upper
228 100
226 28.0 22.0 33.0
229 19.6 15.6 23.4

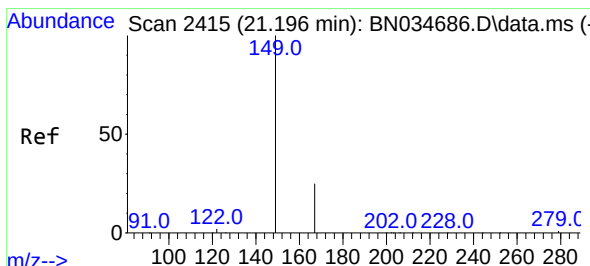
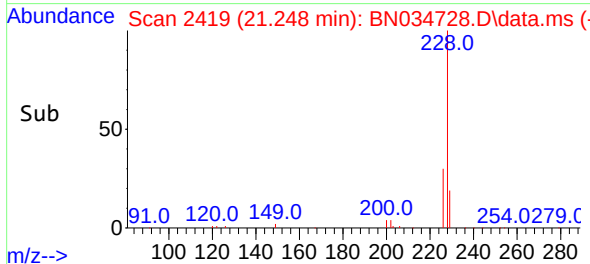
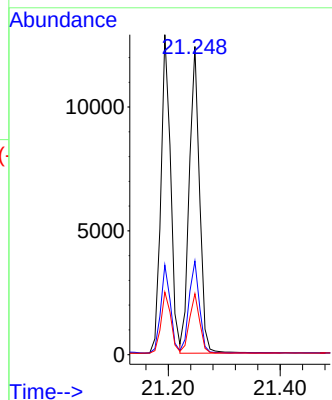
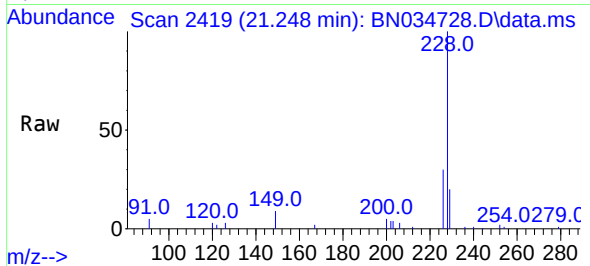




#33
Chrysene
Concen: 0.389 ng
RT: 21.248 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

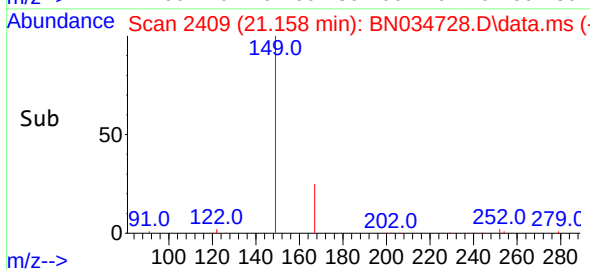
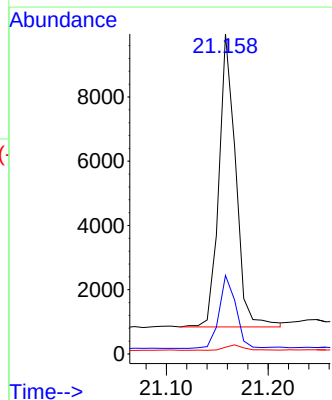
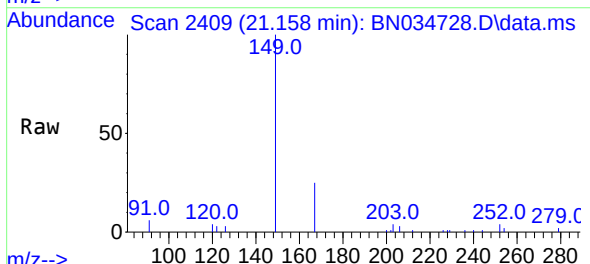
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

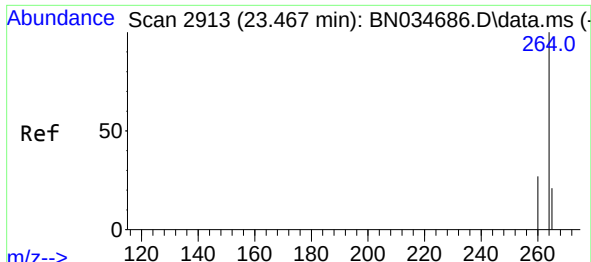
Tgt Ion:228 Resp: 15838
Ion Ratio Lower Upper
228 100
226 30.4 24.1 36.1
229 19.8 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.469 ng
RT: 21.158 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

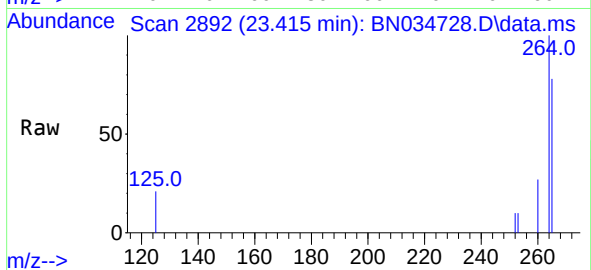
Tgt Ion:149 Resp: 10465
Ion Ratio Lower Upper
149 100
167 24.8 19.7 29.5
279 2.0 1.8 2.6



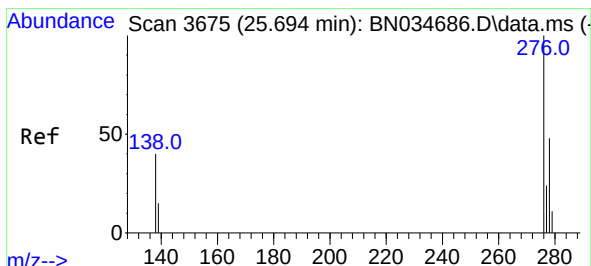
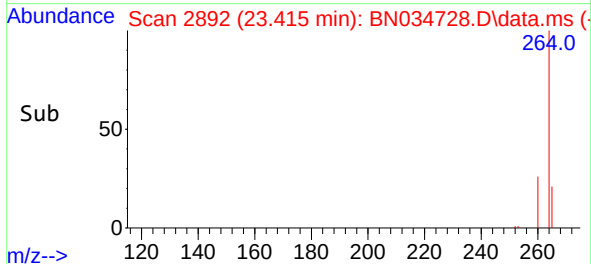
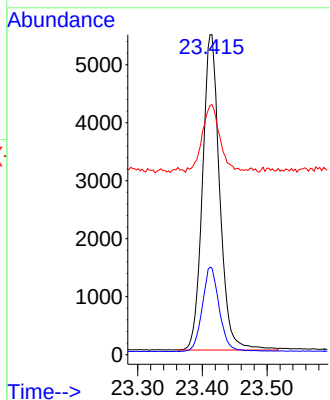


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD

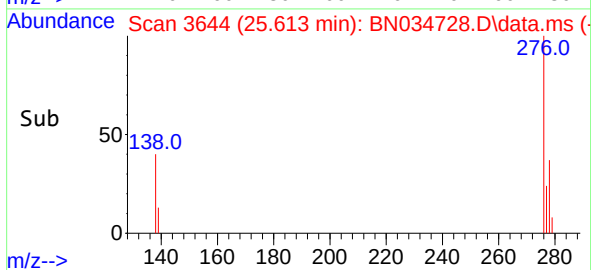
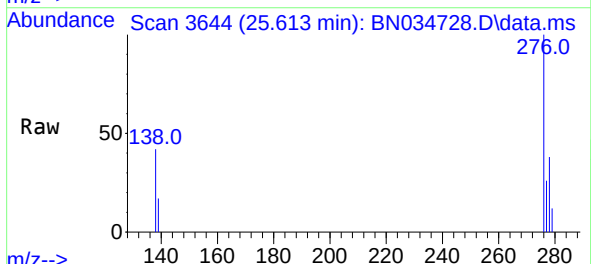
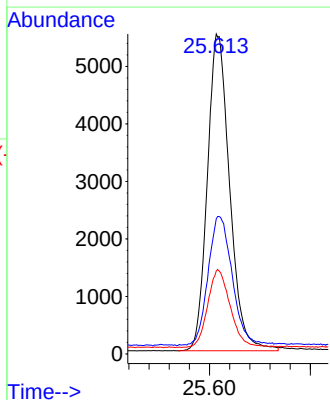


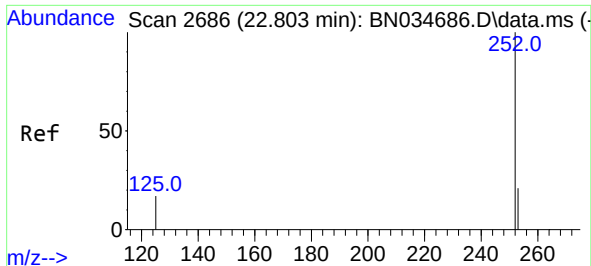
Tgt Ion:264 Resp: 10044
Ion Ratio Lower Upper
264 100
260 27.1 21.9 32.9
265 78.1 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 25.613 min Scan# 3644
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

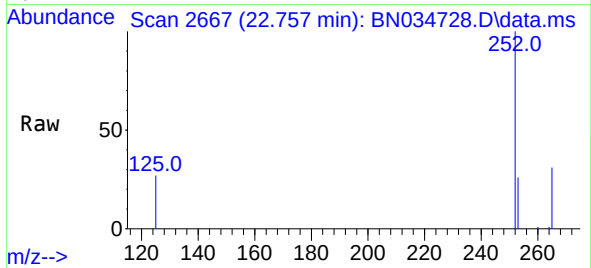
Tgt Ion:276 Resp: 16941
Ion Ratio Lower Upper
276 100
138 43.6 35.1 52.7
277 24.8 19.7 29.5



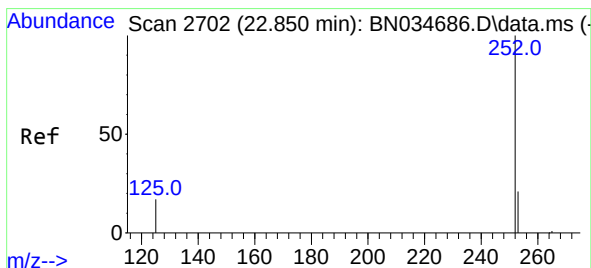
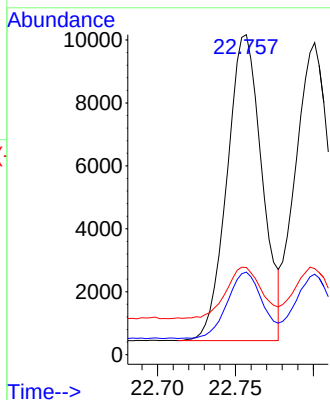


#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.757 min Scan# 20
Delta R.T. 0.003 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

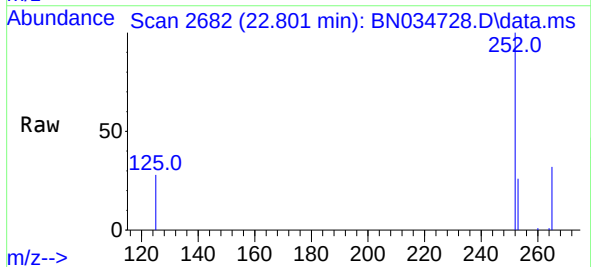
Instrument :
BNA_N
ClientSampleId :
PB164409BSD



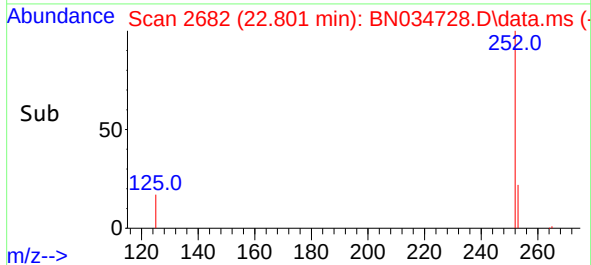
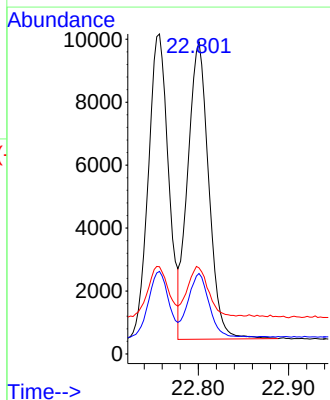
Tgt Ion:252 Resp: 15194
Ion Ratio Lower Upper
252 100
253 25.8 20.0 30.0
125 27.2 20.9 31.3

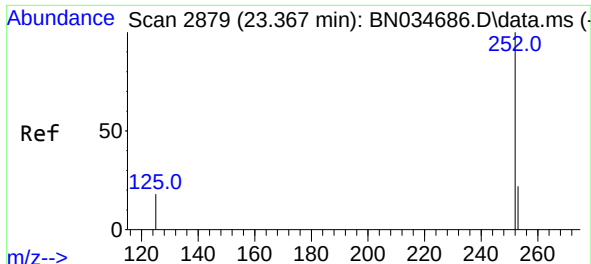


#38
Benzo(k)fluoranthene
Concen: 0.385 ng
RT: 22.801 min Scan# 2682
Delta R.T. 0.003 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16



Tgt Ion:252 Resp: 15226
Ion Ratio Lower Upper
252 100
253 25.8 20.6 31.0
125 27.6 21.6 32.4

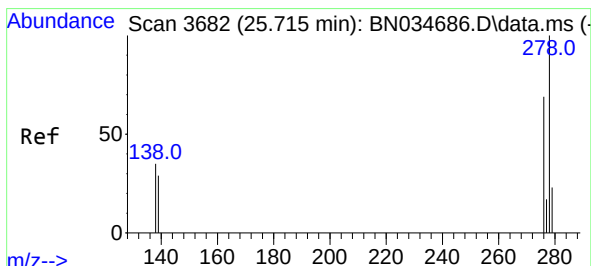
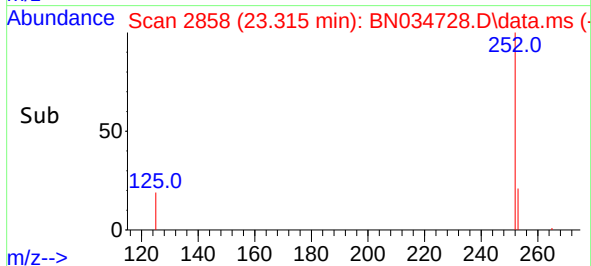
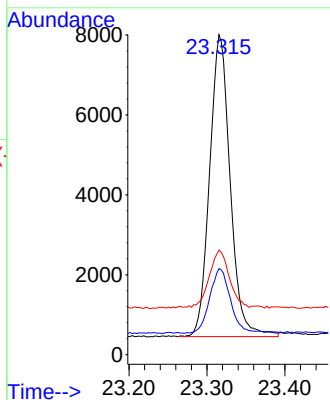
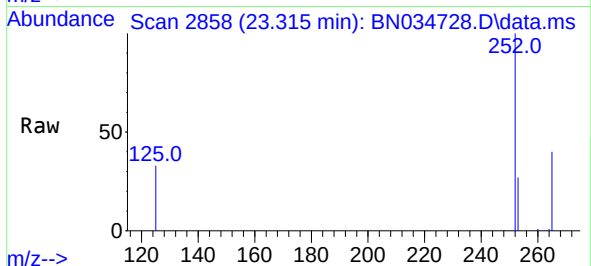




#39
Benzo(a)pyrene
Concen: 0.431 ng
RT: 23.315 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

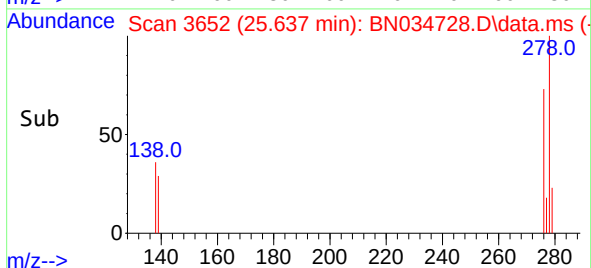
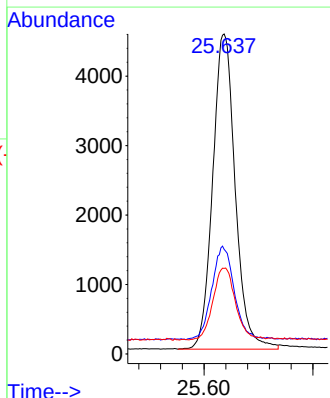
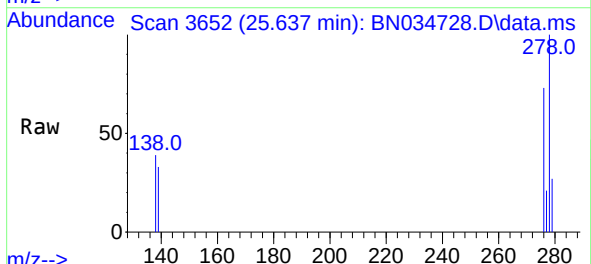
Instrument :
BNA_N
ClientSampleId :
PB164409BSD

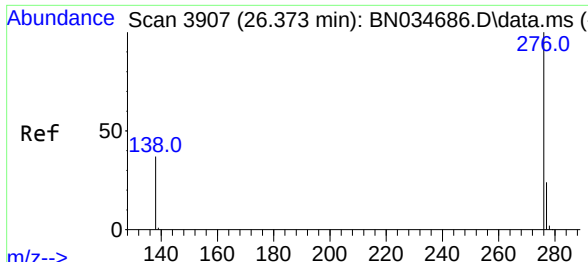
Tgt Ion:	252	Resp:	13861
Ion	Ratio	Lower	Upper
252	100		
253	26.9	22.2	33.4
125	32.7	26.0	39.0



#40
Dibenzo(a,h)anthracene
Concen: 0.428 ng
RT: 25.637 min Scan# 3652
Delta R.T. 0.003 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

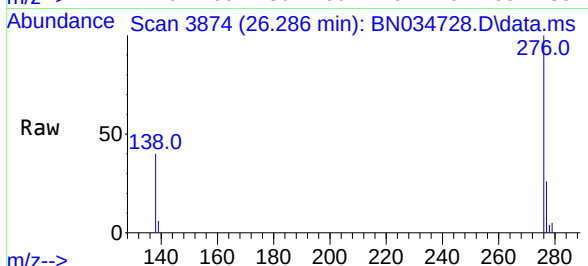
Tgt Ion:	278	Resp:	13054
Ion	Ratio	Lower	Upper
278	100		
139	32.7	25.4	38.2
279	26.7	22.4	33.6



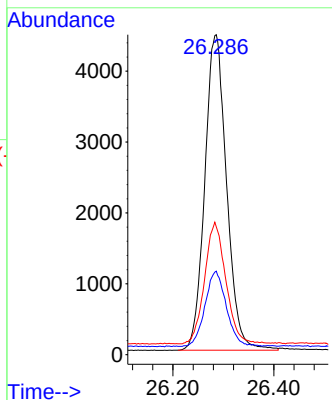
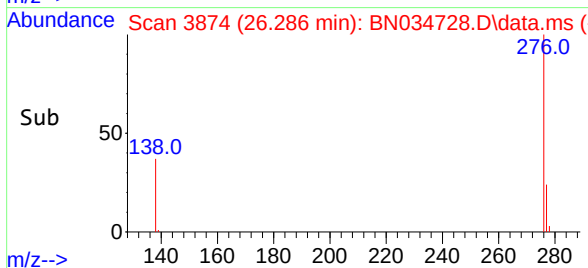


#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.286 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN034728.D
Acq: 25 Oct 2024 18:16

Instrument :
BNA_N
ClientSampleId :
PB164409BSD



Tgt Ion:	276	Resp:	13399
Ion	Ratio	Lower	Upper
276	100		
277	26.1	21.3	31.9
138	40.0	31.9	47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
 Data File : BN034730.D
 Acq On : 25 Oct 2024 19:29
 Operator : RC/JU
 Sample : P4550-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-190-GW-318-320

Quant Time: Oct 28 05:58:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 28 00:44:15 2024
 Response via : Initial Calibration

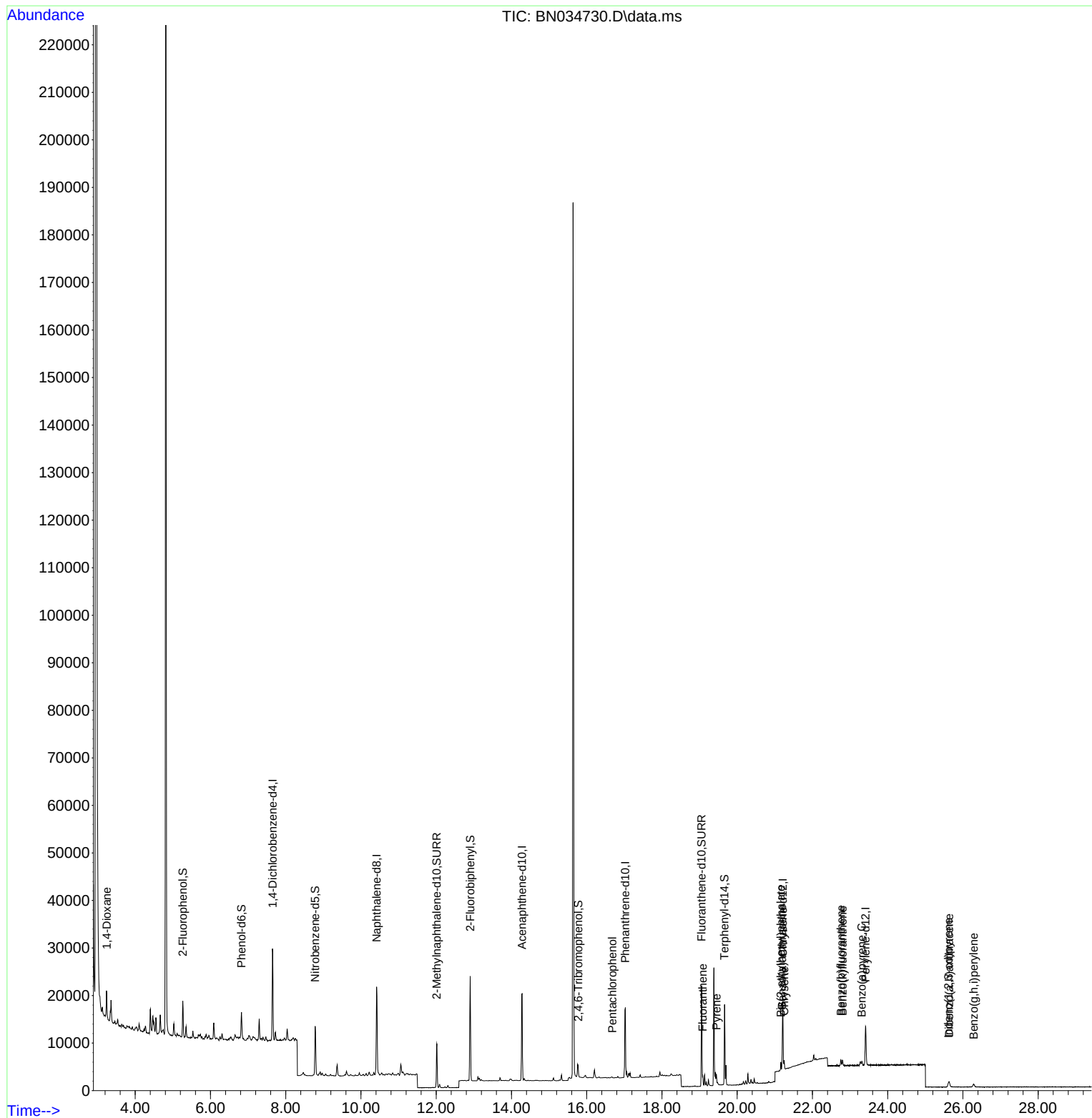
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.655	152	8100	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	23070	0.400	ng	# 0.00
13) Acenaphthene-d10	14.283	164	11169	0.400	ng	0.01
19) Phenanthrene-d10	17.026	188	21194	0.400	ng	0.01
29) Chrysene-d12	21.212	240	11474	0.400	ng	0.00
35) Perylene-d12	23.412	264	10529	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	4991	0.207	ng	0.00
5) Phenol-d6	6.824	99	4532	0.143	ng	0.00
8) Nitrobenzene-d5	8.782	82	7908	0.409	ng	0.00
11) 2-Methylnaphthalene-d10	12.014	152	12154	0.383	ng	0.00
14) 2,4,6-Tribromophenol	15.773	330	1464	0.424	ng	0.00
15) 2-Fluorobiphenyl	12.904	172	17993	0.405	ng	0.00
27) Fluoranthene-d10	19.055	212	19929	0.418	ng	0.00
31) Terphenyl-d14	19.663	244	13334	0.569	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.242	88	3044	0.282	ng	# 67
24) Pentachlorophenol	16.679	266	89	0.021	ng	# 82
28) Fluoranthene	19.083	202	1688	0.025	ng	94
30) Pyrene	19.450	202	1782	0.030	ng	97
32) Benzo(a)anthracene	21.194	228	1376	0.031	ng	# 92
33) Chrysene	21.248	228	1421	0.031	ng	92
34) Bis(2-ethylhexyl)phtha...	21.158	149	1735	0.070	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.613	276	1327	0.033	ng	96
37) Benzo(b)fluoranthene	22.757	252	1438	0.034	ng	# 1
38) Benzo(k)fluoranthene	22.801	252	1298	0.031	ng	# 1
39) Benzo(a)pyrene	23.312	252	999	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.637	278	983	0.031	ng	# 29
41) Benzo(g,h,i)perylene	26.286	276	1098	0.031	ng	# 61

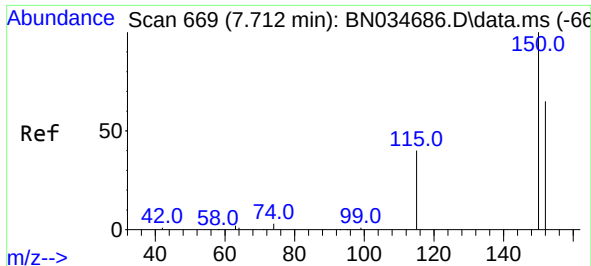
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102524\
Data File : BN034730.D
Acq On : 25 Oct 2024 19:29
Operator : RC/JU
Sample : P4550-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

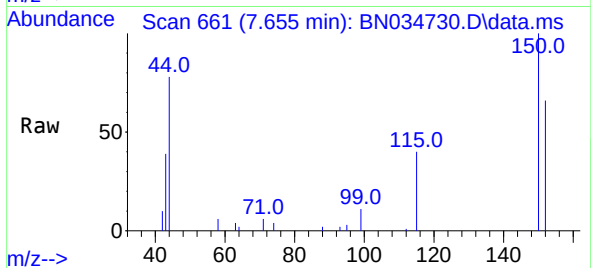
Quant Time: Oct 28 05:58:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 28 00:44:15 2024
Response via : Initial Calibration



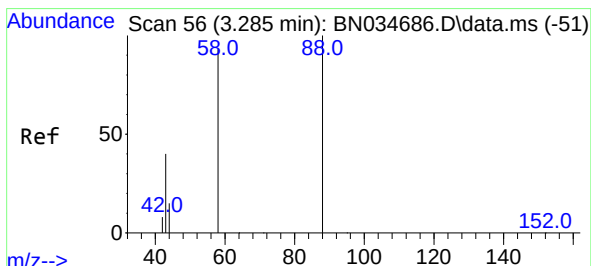
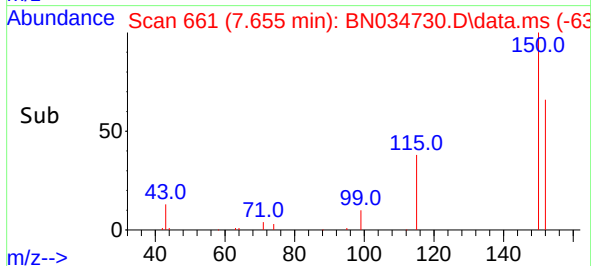
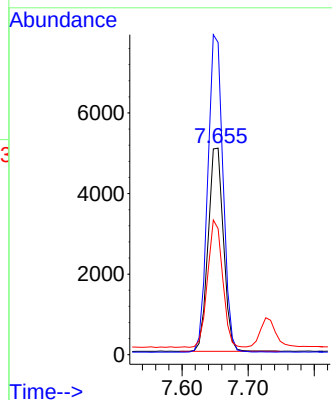


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.655 min Scan# 6
Delta R.T. 0.008 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

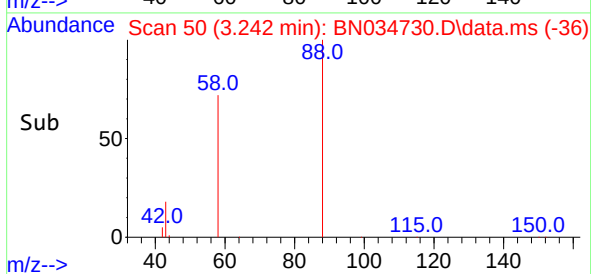
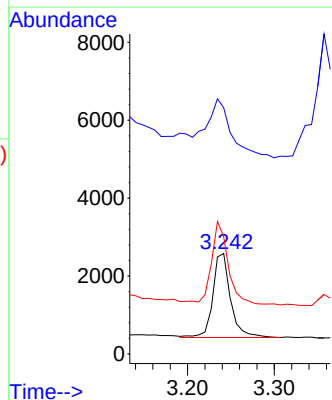
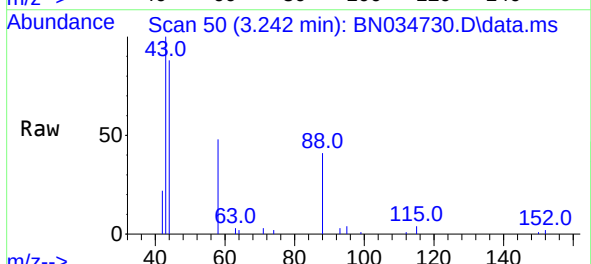


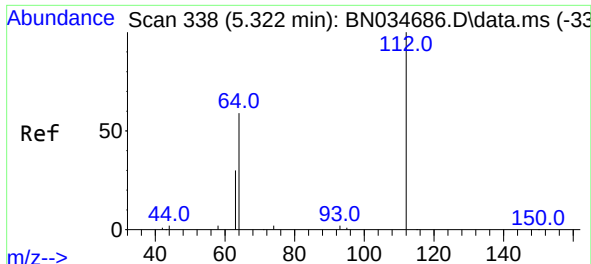
Tgt Ion:152 Resp: 8100
Ion Ratio Lower Upper
152 100
150 151.1 122.7 184.1
115 61.0 51.0 76.6



#2
1,4-Dioxane
Concen: 0.282 ng
RT: 3.242 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion: 88 Resp: 3044
Ion Ratio Lower Upper
88 100
43 100.8 32.1 48.1#
58 97.1 73.7 110.5

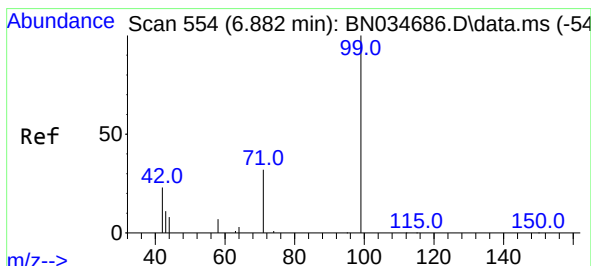
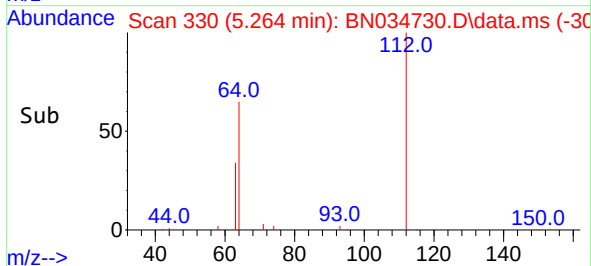
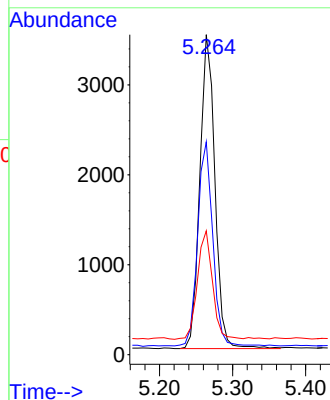
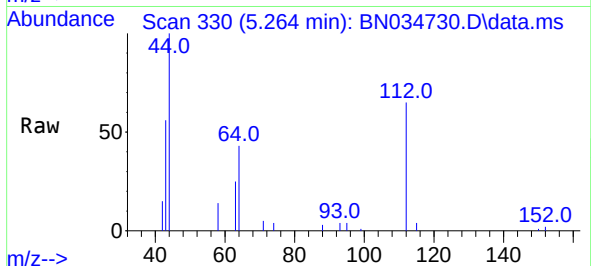




#4
2-Fluorophenol
Concen: 0.207 ng
RT: 5.264 min Scan# 311
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

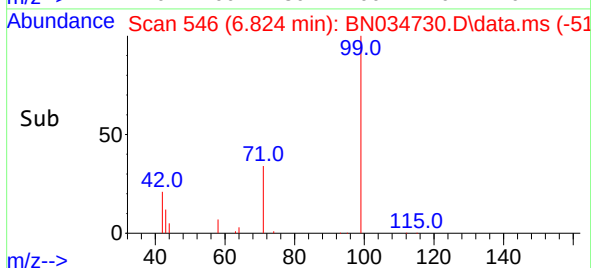
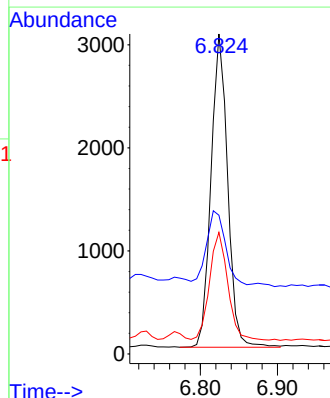
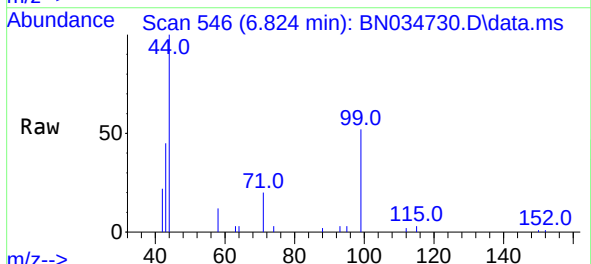
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

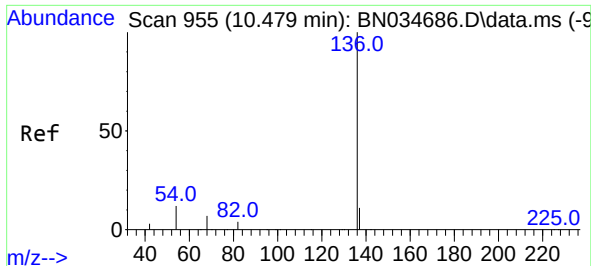
Tgt Ion:112 Resp: 4991
Ion Ratio Lower Upper
112 100
64 65.1 53.0 79.6
63 34.4 27.6 41.4



#5
Phenol-d6
Concen: 0.143 ng
RT: 6.824 min Scan# 546
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion: 99 Resp: 4532
Ion Ratio Lower Upper
99 100
42 25.9 21.8 32.8
71 37.5 26.6 40.0

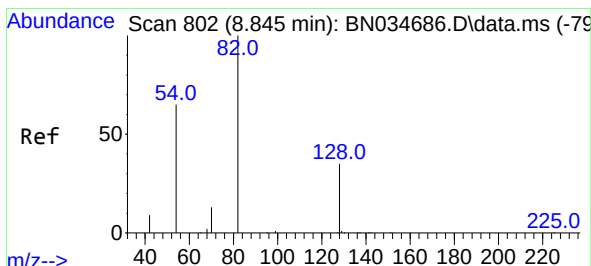
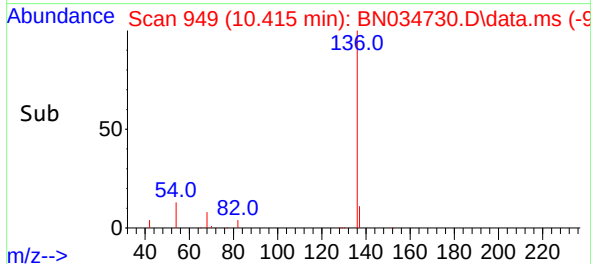
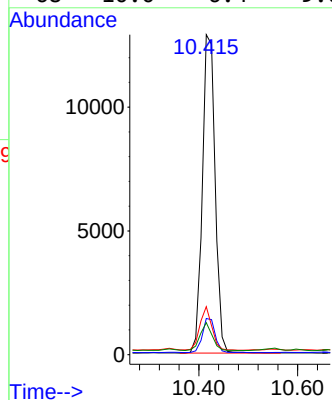
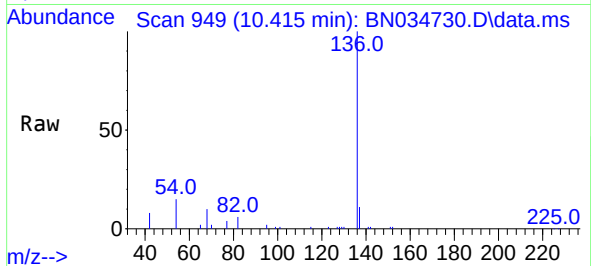




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

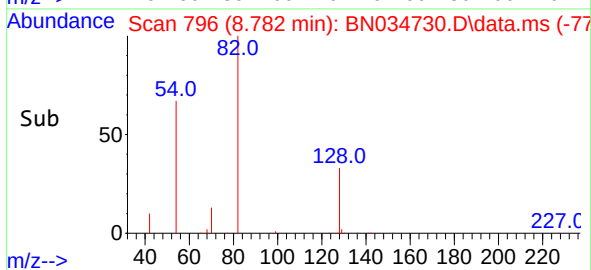
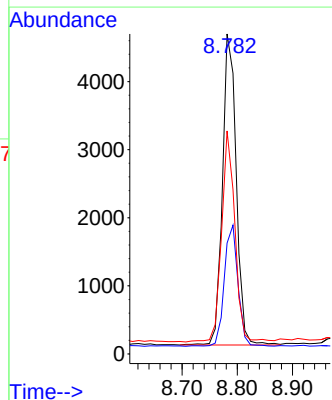
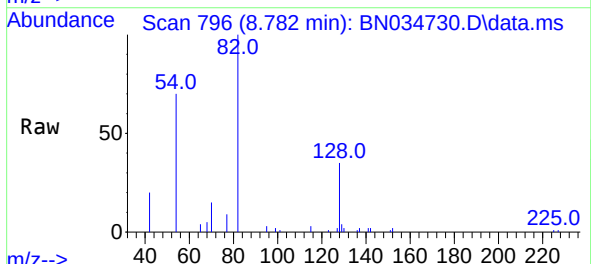
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

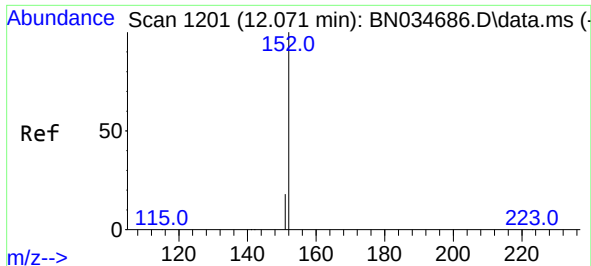
Tgt Ion:	136	Resp:	23070
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	15.0	9.8	14.8#
68	10.0	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.409 ng
RT: 8.782 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:	82	Resp:	7908
Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.7	44.5
54	69.7	53.0	79.6

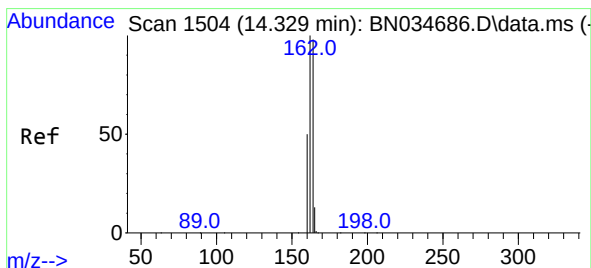
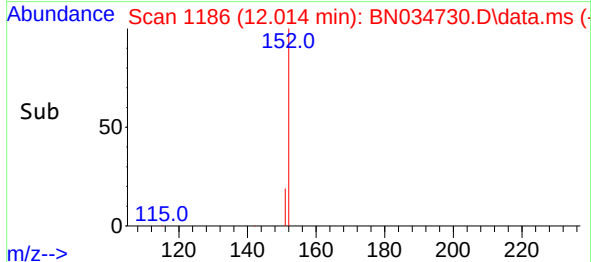
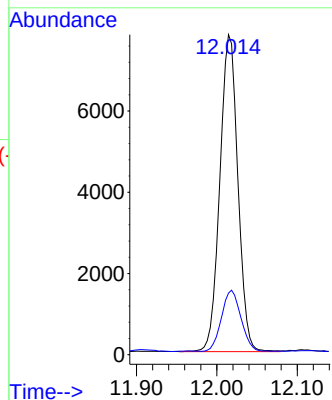
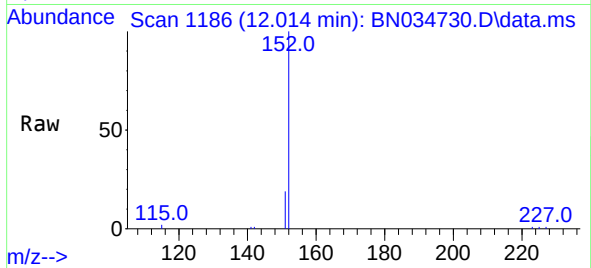




#11
2-Methylnaphthalene-d10
Concen: 0.383 ng
RT: 12.014 min Scan# 1186
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

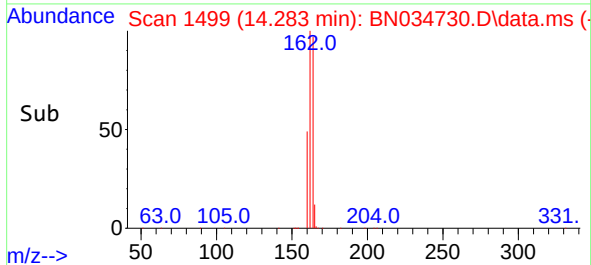
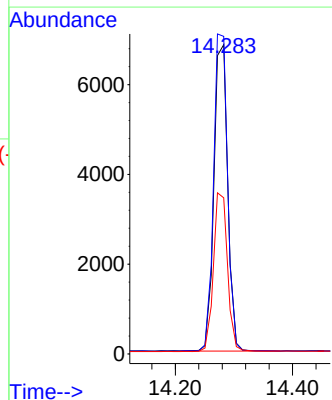
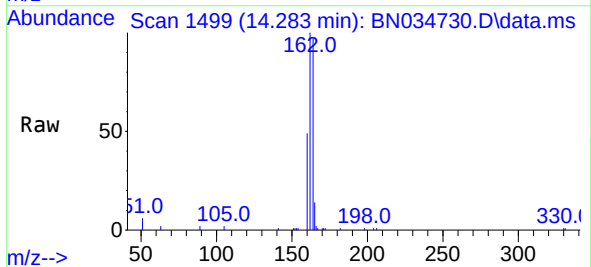
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

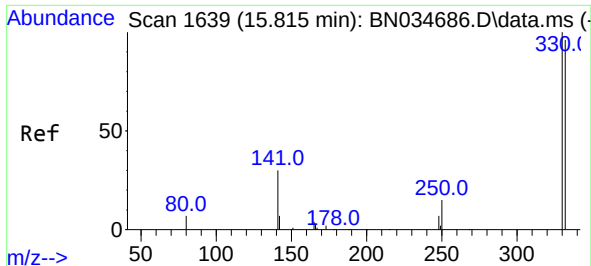
Tgt Ion:152 Resp: 12154
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.283 min Scan# 1499
Delta R.T. 0.011 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:164 Resp: 11169
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 50.5 40.6 61.0

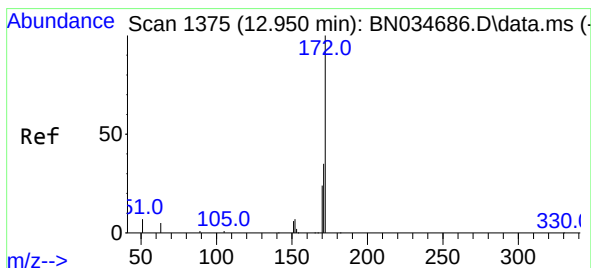
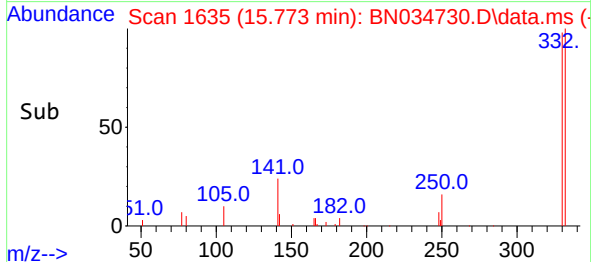
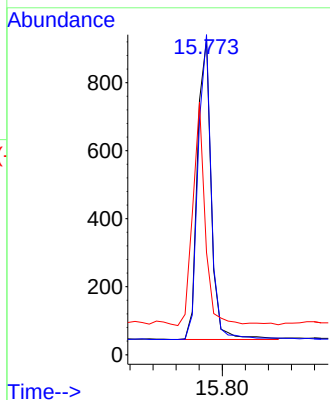
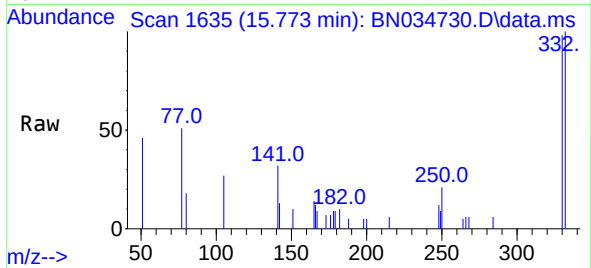




#14
2,4,6-Tribromophenol
Concen: 0.424 ng
RT: 15.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

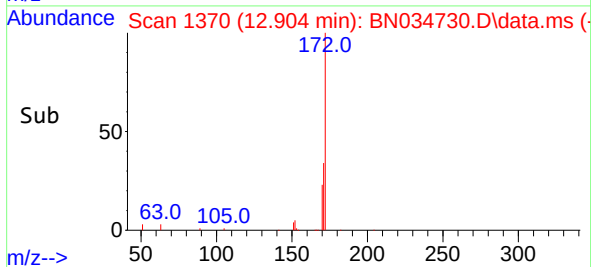
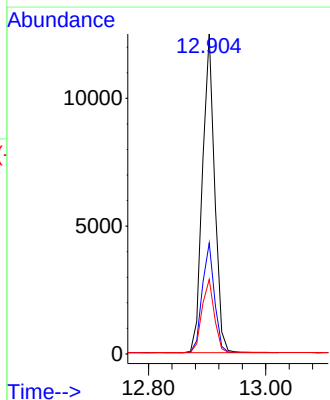
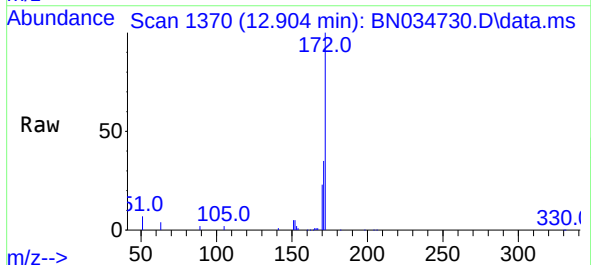
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

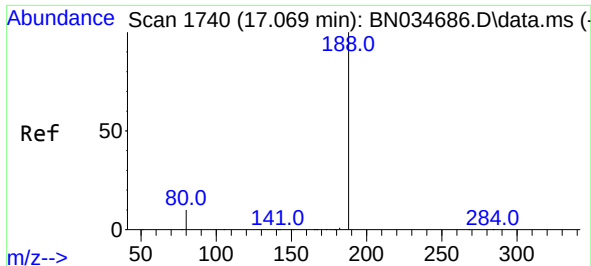
Tgt Ion:330 Resp: 1464
Ion Ratio Lower Upper
330 100
332 97.7 76.6 115.0
141 67.3 54.6 81.8



#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.904 min Scan# 1370
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:172 Resp: 17993
Ion Ratio Lower Upper
172 100
171 34.7 28.3 42.5
170 23.3 19.8 29.6

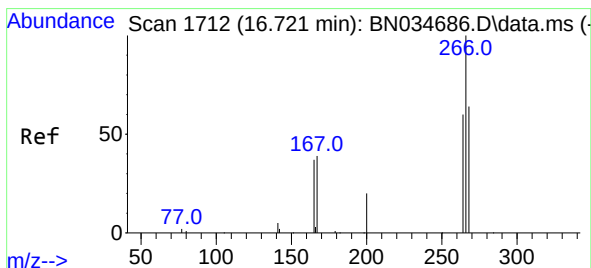
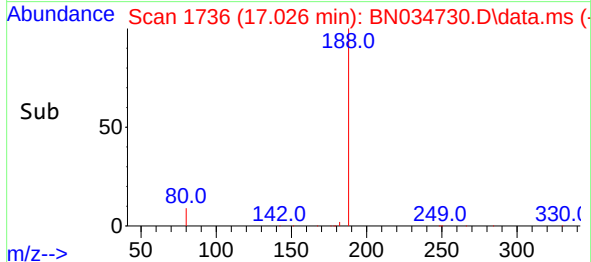
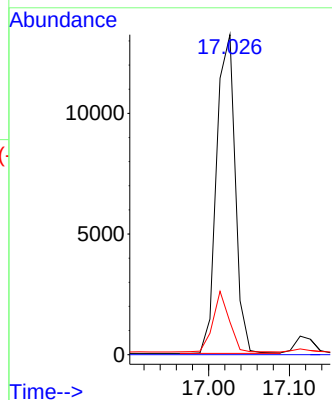
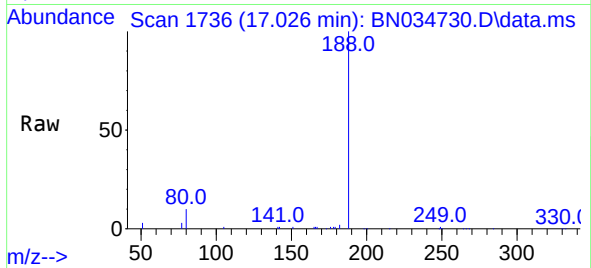




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.026 min Scan# 11
Delta R.T. 0.013 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

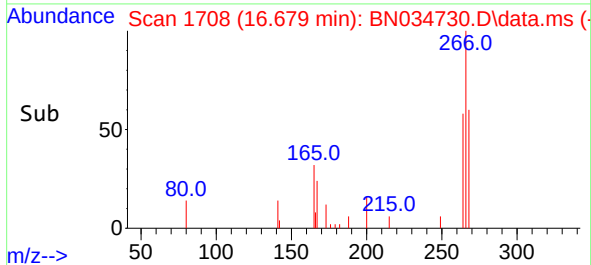
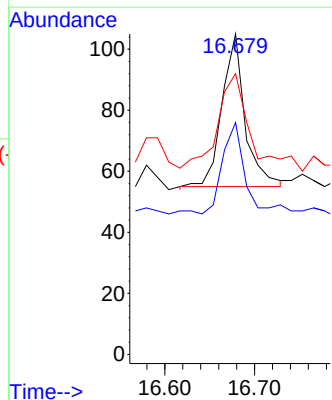
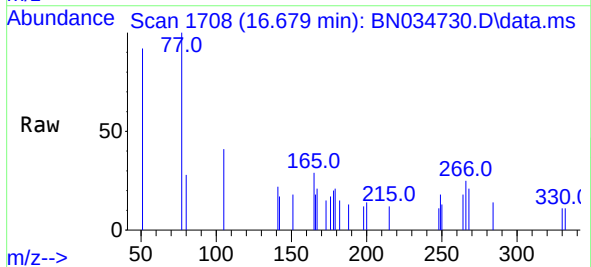
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

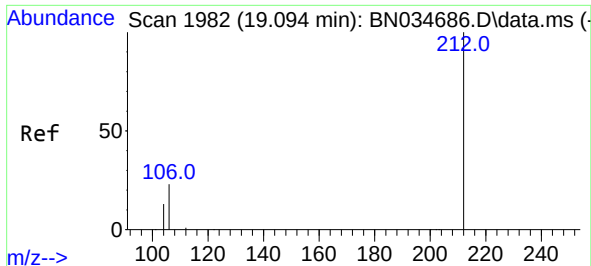
Tgt Ion:188	Resp:	21194	
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.2	8.9	13.3



#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.679 min Scan# 1708
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

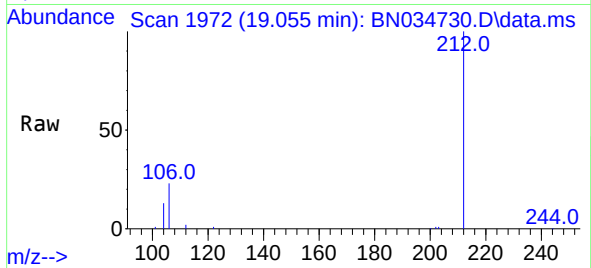
Tgt Ion:266	Resp:	89	
Ion Ratio	Lower	Upper	
266	100		
264	61.8	49.4	74.2
268	91.0	50.5	75.7#



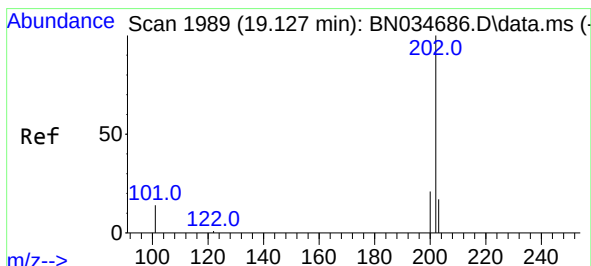
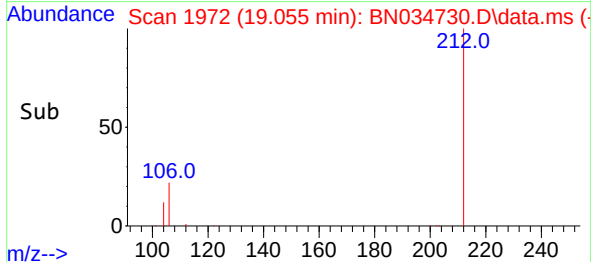
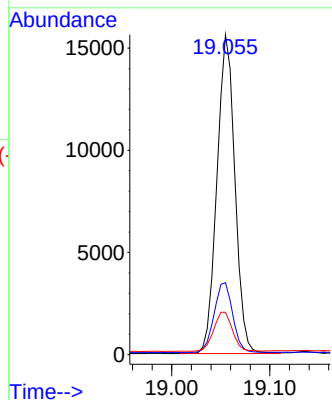


#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.055 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

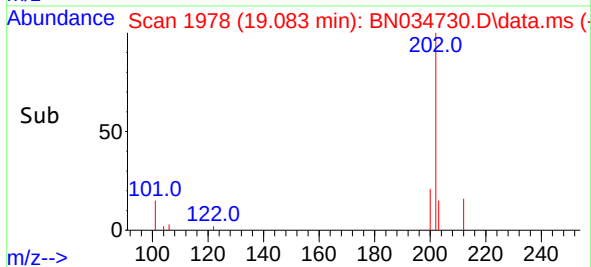
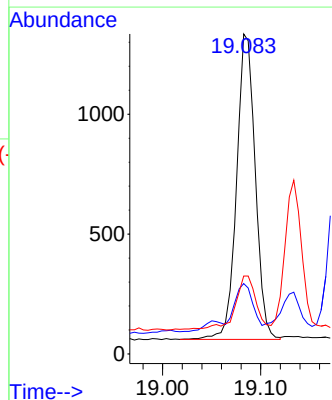
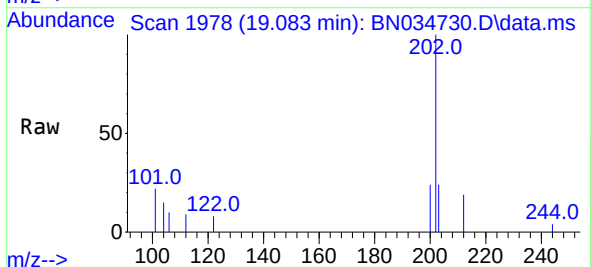


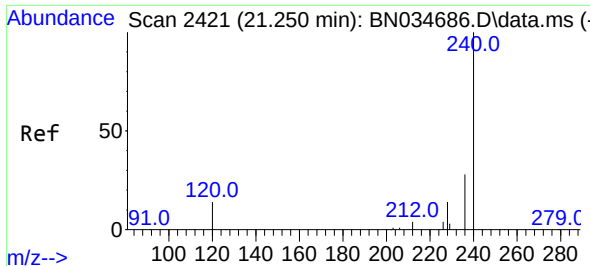
Tgt Ion:212 Resp: 19929
Ion Ratio Lower Upper
212 100
106 22.7 17.8 26.8
104 12.9 10.2 15.4



#28
Fluoranthene
Concen: 0.025 ng
RT: 19.083 min Scan# 1978
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:202 Resp: 1688
Ion Ratio Lower Upper
202 100
101 14.4 12.8 19.2
203 20.2 13.5 20.3

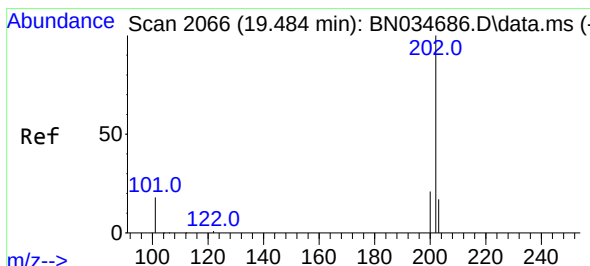
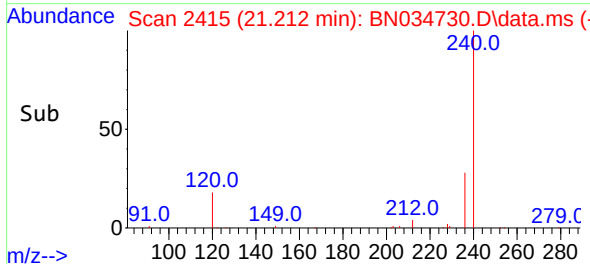
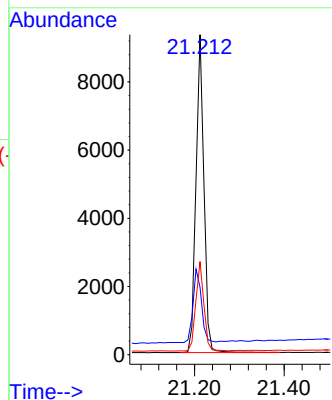
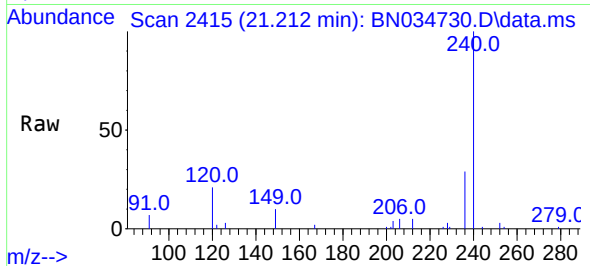




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.212 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

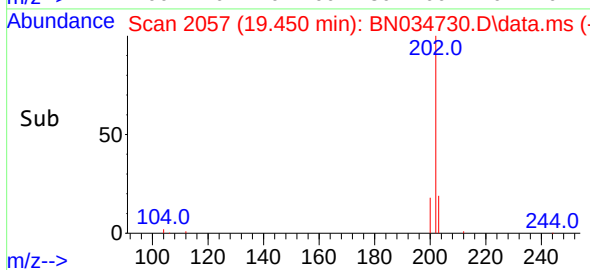
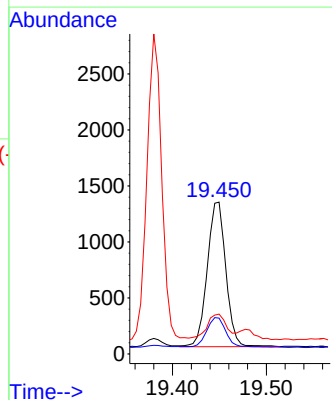
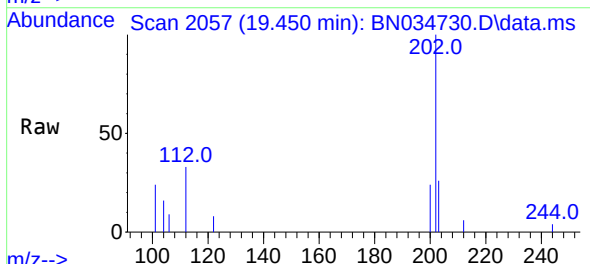
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

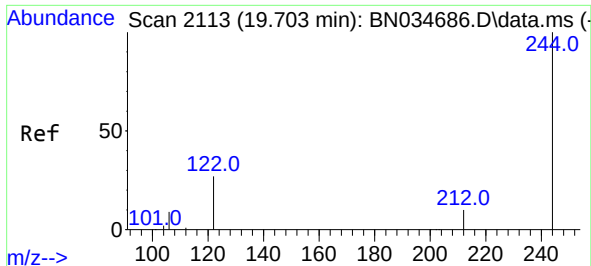
Tgt Ion:	240	Resp:	11474
Ion	Ratio	Lower	Upper
240	100		
120	21.1	14.2	21.2
236	29.1	23.1	34.7



#30
Pyrene
Concen: 0.030 ng
RT: 19.450 min Scan# 2057
Delta R.T. 0.005 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:	202	Resp:	1782
Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.6	25.0
203	19.2	14.2	21.4

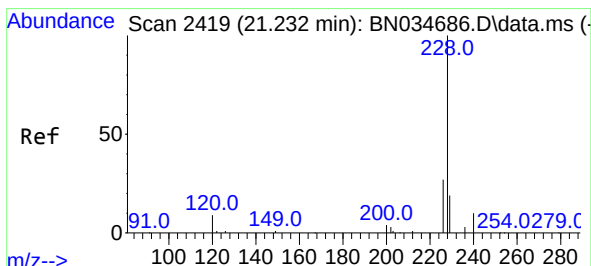
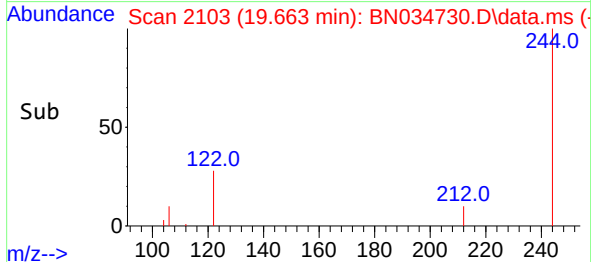
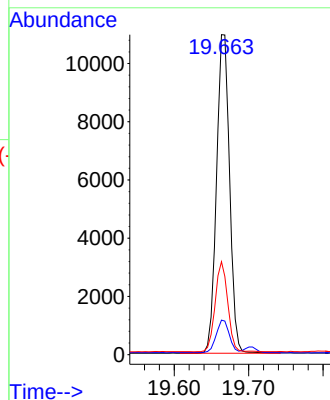
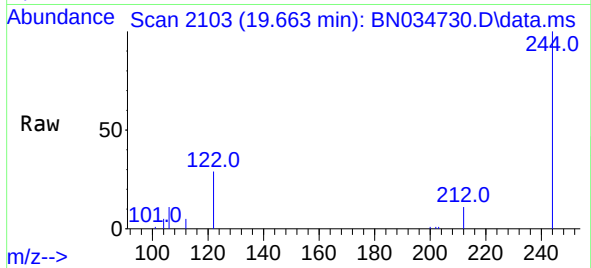




#31
 Terphenyl-d14
 Concen: 0.569 ng
 RT: 19.663 min Scan# 2113
 Delta R.T. 0.000 min
 Lab File: BN034730.D
 Acq: 25 Oct 2024 19:29

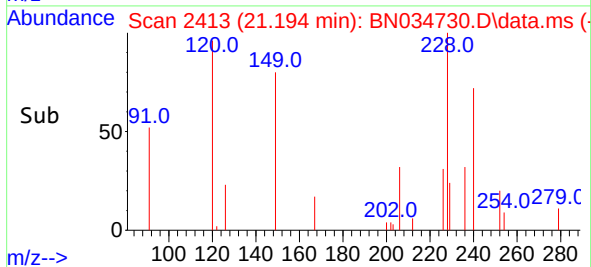
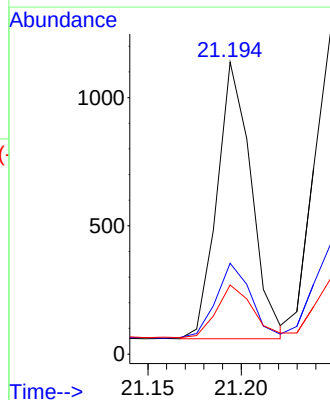
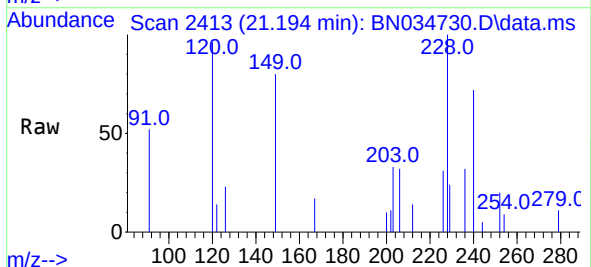
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-190-GW-318-320

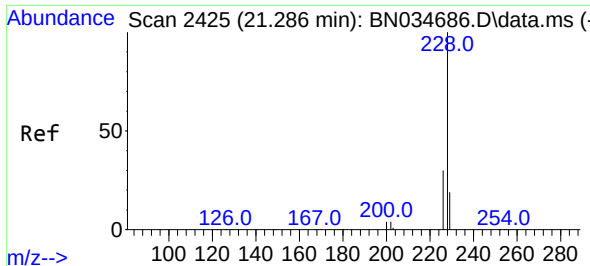
Tgt Ion:244	Resp:	13334
Ion Ratio	Lower	Upper
244	100	
212	10.8	8.6 13.0
122	29.1	22.3 33.5



#32
 Benzo(a)anthracene
 Concen: 0.031 ng
 RT: 21.194 min Scan# 2413
 Delta R.T. 0.000 min
 Lab File: BN034730.D
 Acq: 25 Oct 2024 19:29

Tgt Ion:228	Resp:	1376
Ion Ratio	Lower	Upper
228	100	
226	31.1	22.0 33.0
229	23.6	15.6 23.4

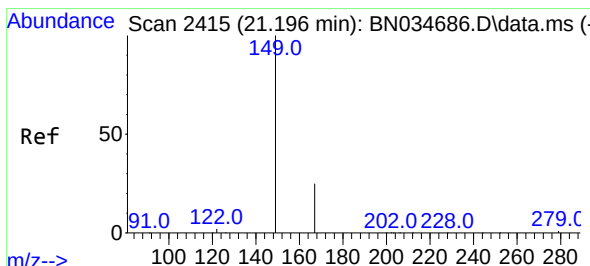
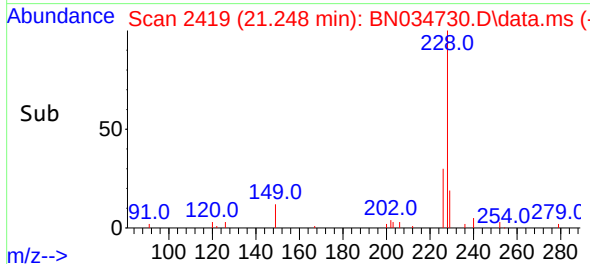
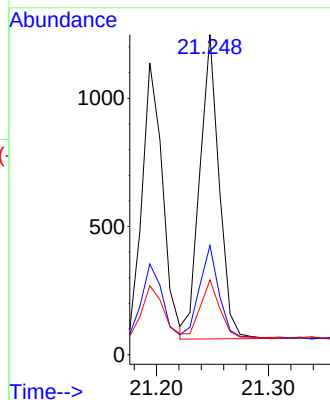
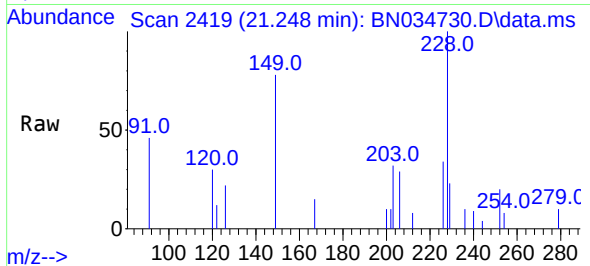




#33
Chrysene
Concen: 0.031 ng
RT: 21.248 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

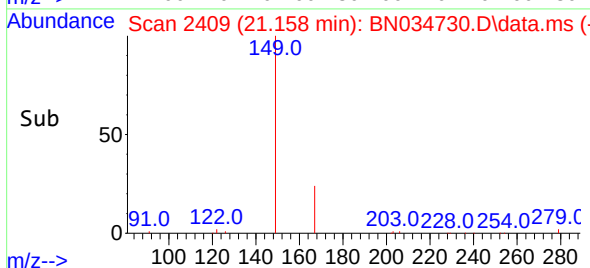
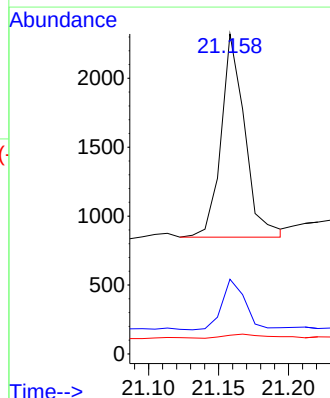
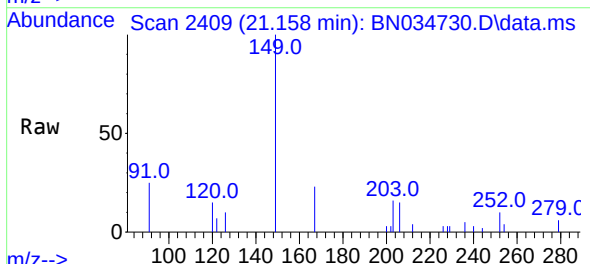
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

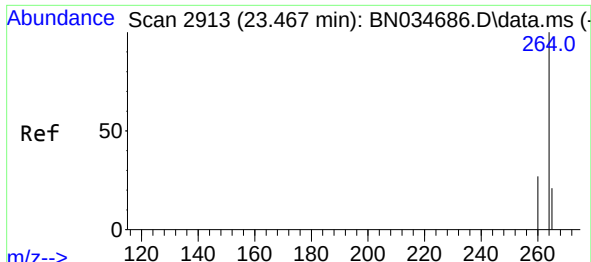
Tgt Ion:	228	Resp:	1421
Ion	Ratio	Lower	Upper
228	100		
226	34.1	24.1	36.1
229	23.4	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 21.158 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:	149	Resp:	1735
Ion	Ratio	Lower	Upper
149	100		
167	24.6	19.7	29.5
279	3.6	1.8	2.6

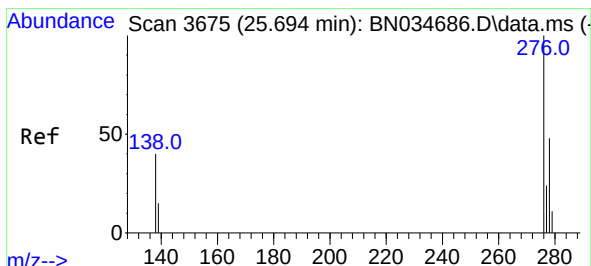
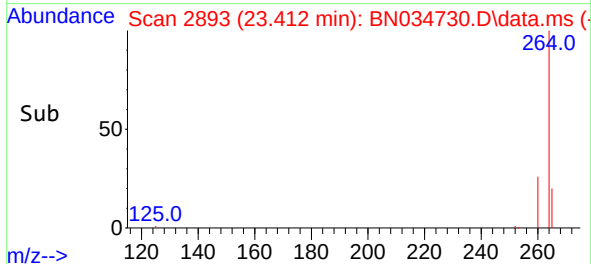
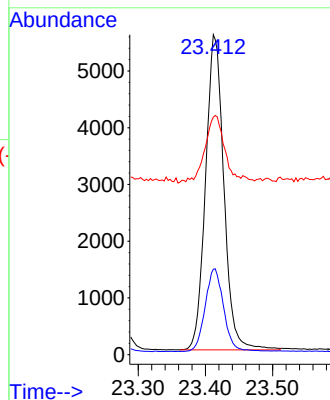
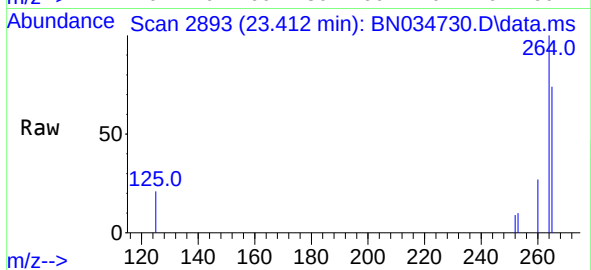




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

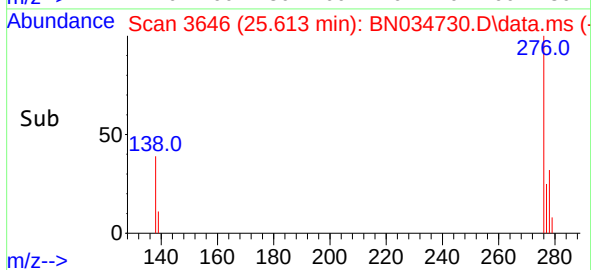
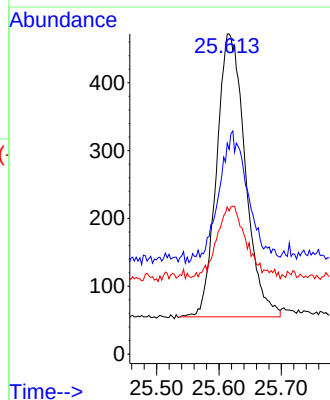
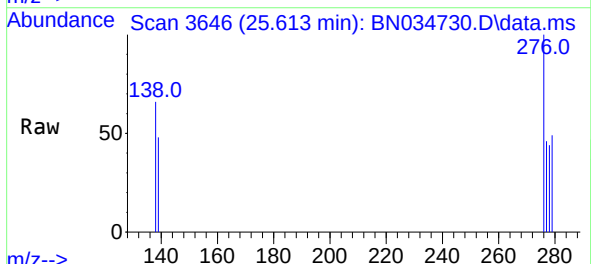
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

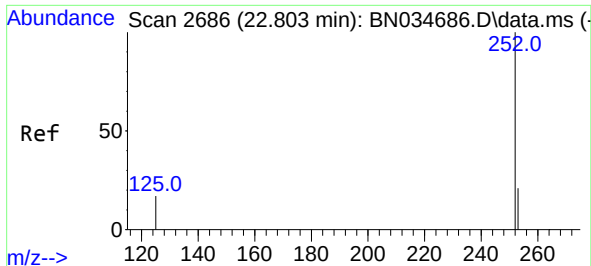
Tgt Ion:264 Resp: 10529
Ion Ratio Lower Upper
264 100
260 26.7 21.9 32.9
265 74.2 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.033 ng
RT: 25.613 min Scan# 3646
Delta R.T. 0.000 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Tgt Ion:276 Resp: 1327
Ion Ratio Lower Upper
276 100
138 40.0 35.1 52.7
277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.034 ng

RT: 22.757 min Scan# 2669

Delta R.T. 0.003 min

Lab File: BN034730.D

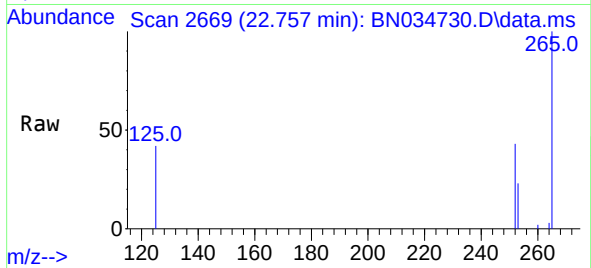
Acq: 25 Oct 2024 19:29

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-318-320



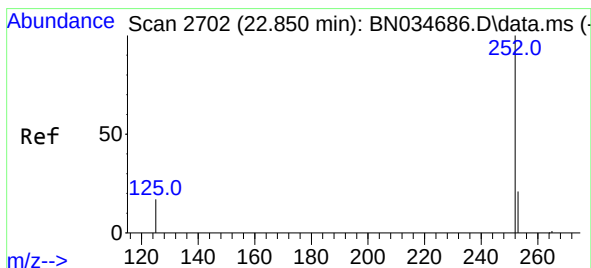
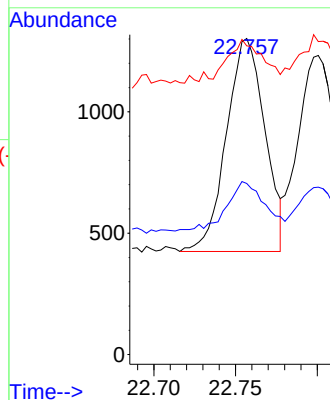
Tgt Ion:252 Resp: 1438

Ion Ratio Lower Upper

252 100

253 54.1 20.0 30.0#

125 97.7 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 0.031 ng

RT: 22.801 min Scan# 2684

Delta R.T. 0.003 min

Lab File: BN034730.D

Acq: 25 Oct 2024 19:29

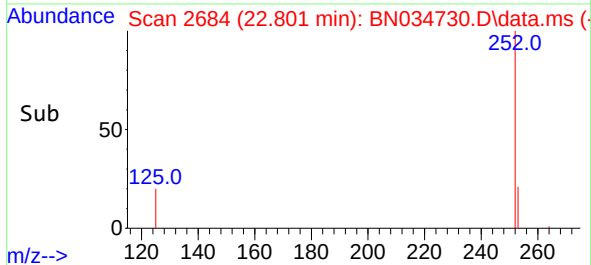
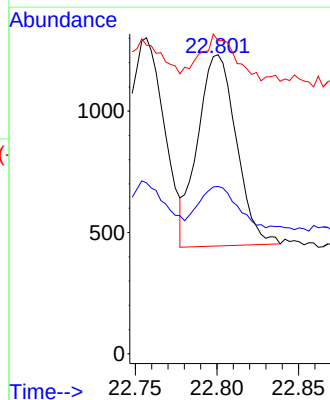
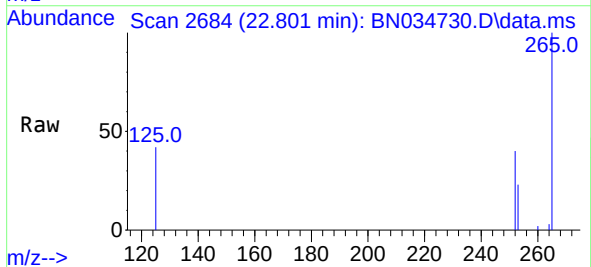
Tgt Ion:252 Resp: 1298

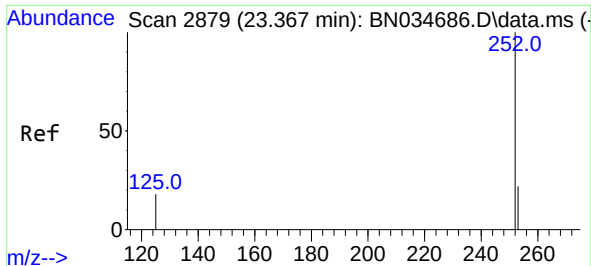
Ion Ratio Lower Upper

252 100

253 56.0 20.6 31.0#

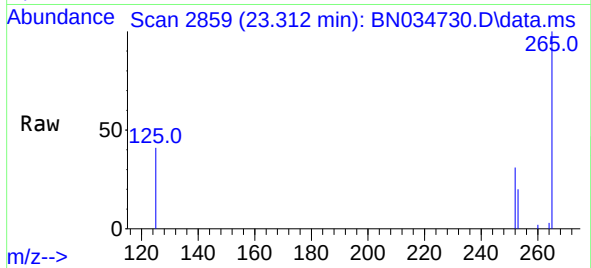
125 104.7 21.6 32.4#



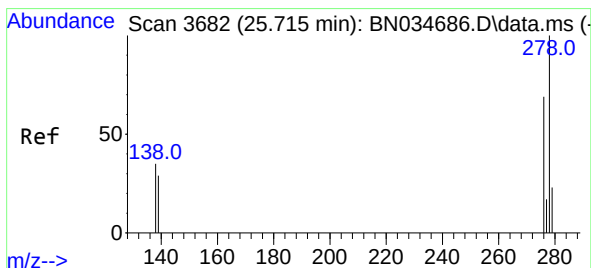
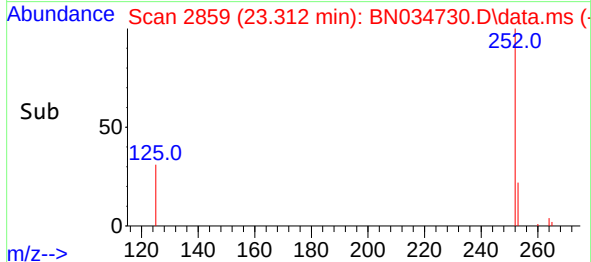
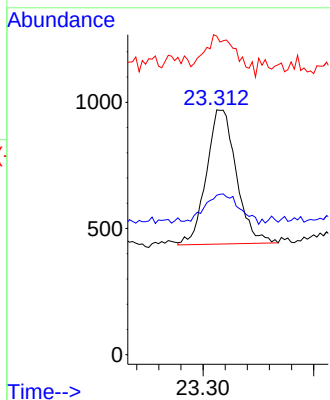


#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 23.312 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320

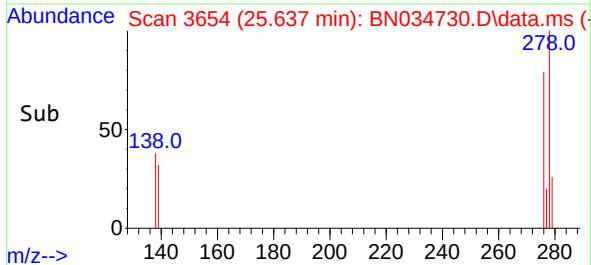
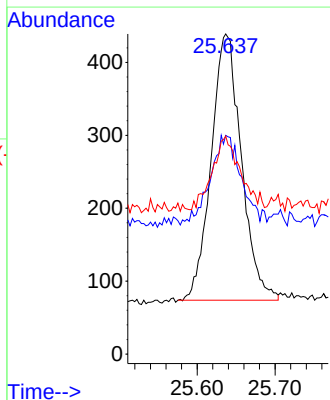
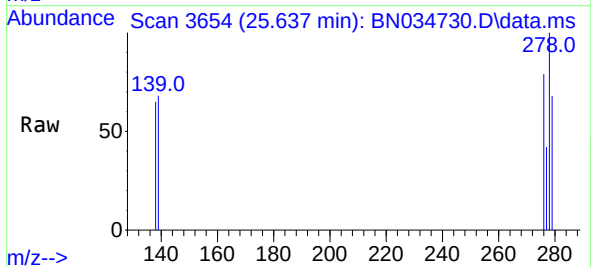


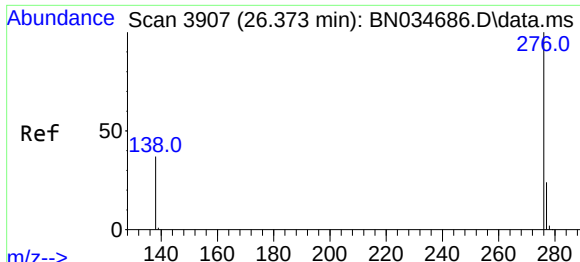
Tgt Ion:252 Resp: 999
Ion Ratio Lower Upper
252 100
253 65.2 22.2 33.4#
125 130.1 26.0 39.0#



#40
Dibenzo(a,h)anthracene
Concen: 0.031 ng
RT: 25.637 min Scan# 3654
Delta R.T. 0.003 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

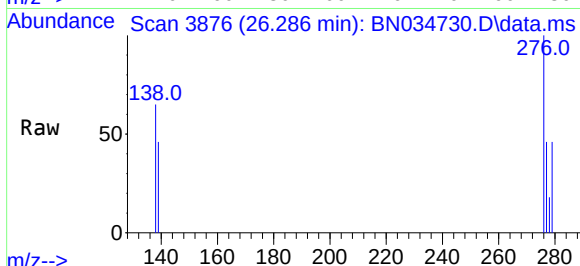
Tgt Ion:278 Resp: 983
Ion Ratio Lower Upper
278 100
139 68.3 25.4 38.2#
279 68.1 22.4 33.6#





#41
Benzo(g,h,i)perylene
Concen: 0.031 ng
RT: 26.286 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN034730.D
Acq: 25 Oct 2024 19:29

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-318-320



Tgt Ion:276 Resp: 1098
Ion Ratio Lower Upper
276 100
277 46.2 21.3 31.9#
138 64.5 31.9 47.9#

