

Cover Page

Order ID : P4428

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4428-01
P4428-02
P4428-03
P4428-04

Client Sample Number

RW7-SP100-20241016
RW7-SP201-20241016
RW7-SP302-20241016
RW7-SP303-20241016

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: 10/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4428

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 10/17/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike for {PB164229BS} with File ID: BN034694.D met requirements for all samples except for 1,4-Dioxane[68%], marginally low therefore no further corrective action was taken.

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN034701.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.



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E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: P4428

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration File ID BN034701.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria.		✓	
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 for {PB164229BS} with File ID: BN034694.D met requirements for all samples except for 1,4-Dioxane[68%], marginally low therefore no further corrective action was taken. The Blank Spike Duplicate met requirements for all samples .		✓	

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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 not QT review data is reported in the Miscellaneous.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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 #: P4428

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: 10/26/2024

LAB CHRONICLE

OrderID:	P4428	OrderDate:	10/17/2024 10:10:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4428-01	RW7-SP100-2024101 6	Water			10/16/24			10/17/24
			SVOC-SIMGroup1	8270-Modified		10/17/24	10/24/24	
P4428-02	RW7-SP201-2024101 6	Water			10/16/24			10/17/24
			SVOC-SIMGroup1	8270-Modified		10/17/24	10/25/24	
P4428-03	RW7-SP302-2024101 6	Water			10/16/24			10/17/24
			SVOC-SIMGroup1	8270-Modified		10/17/24	10/24/24	
P4428-04	RW7-SP303-2024101 6	Water			10/16/24			10/17/24
			SVOC-SIMGroup1	8270-Modified		10/17/24	10/24/24	



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Hit Summary Sheet SW-846

SDG No.: P4428
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP100-20241016								
P4428-01	RW7-SP100-20241016	WATER	1,4-Dioxane	4.700	Q	0.07	0.21	0.21 ug/L
			Total Svoc :	4.70				
			Total Concentration:	4.70				
Client ID : RW7-SP302-20241016								
P4428-03	RW7-SP302-20241016	WATER	1,4-Dioxane	0.090	JQ	0.07	0.21	0.21 ug/L
			Total Svoc :	0.09				
			Total Concentration:	0.09				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P4428

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4428-01	RW7-SP100-20241016	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.26	65		53	106
		Terphenyl-d14	0.4	0.33	81		58	132
P4428-02	RW7-SP201-20241016	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
P4428-03	RW7-SP302-20241016	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
P4428-04	RW7-SP303-20241016	2-Methylnaphthalene-d10	0.4	0.29	74		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB164229BL	PB164229BL	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.34	86		58	132
PB164229BS	PB164229BS	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.26	65		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
PB164229BSD	PB164229BSD	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.39	97		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4428

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN034694.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164229BS	1,4-Dioxane	0.4	0.27	ug/L	68		*		70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4428

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034704.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164229BSD	1,4-Dioxane	0.4	0.30	ug/L	75	11			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164229BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4428

SAS No.: P4428 SDG NO.: P4428

Lab File ID: BN034692.D

Lab Sample ID: PB164229BL

Instrument ID: BNA_N

Date Extracted: 10/17/2024

Matrix: (soil/water) Water

Date Analyzed: 10/24/2024

Level: (low/med) LOW

Time Analyzed: 14:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164229BS	PB164229BS	BN034694.D	10/24/2024
RW7-SP302-20241016	P4428-03	BN034695.D	10/24/2024
RW7-SP303-20241016	P4428-04	BN034696.D	10/24/2024
PB164229BSD	PB164229BSD	BN034704.D	10/24/2024
RW7-SP100-20241016	P4428-01	BN034693.D	10/24/2024
RW7-SP201-20241016	P4428-02	BN034710.D	10/25/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4428 SDG NO.: P4428Lab 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
PB164229BL	PB164229BL	BN034692.D	10/24/2024	14:50
RW7-SP100-20241016	P4428-01	BN034693.D	10/24/2024	15:28
PB164229BS	PB164229BS	BN034694.D	10/24/2024	16:05
RW7-SP302-20241016	P4428-03	BN034695.D	10/24/2024	16:41
RW7-SP303-20241016	P4428-04	BN034696.D	10/24/2024	17:18
SSTDCCC0.4EC	SSTDCCC0.4	BN034699.D	10/24/2024	19:06



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4428 SDG NO.: P4428Lab File ID: BN034700.DDFTPP Injection Date: 10/24/2024Instrument ID: BNA_NDFTPP Injection Time: 20:22

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	0.9 (1.6) 1
69	Mass 69 relative abundance	59.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	65.2
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	20.7
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	7.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.2 (21.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034701.D	10/24/2024	21:01
PB164229BSD	PB164229BSD	BN034704.D	10/24/2024	22:50
RW7-SP201-20241016	P4428-02	BN034710.D	10/25/2024	02:26
SSTDCCC0.4EC	SSTDCCC0.4	BN034719.D	10/25/2024	07:51

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4428 SAS No.: P4428 SDG NO.: P4428

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 10/24/2024

Lab File ID: BN034686.D Time Analyzed: 10:23

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	6324	7.712	18497	10.48	9311	14.33
UPPER LIMIT	12648	8.212	36994	10.979	18622	14.829
LOWER LIMIT	3162	7.212	9248.5	9.979	4655.5	13.829
EPA SAMPLE NO.						
01 PB164229BL	6659	7.71	18698	10.48	8134	14.33
02 RW7-SP100-20241016	5598	7.71	16265	10.48	7521	14.33
03 PB164229BS	7746	7.71	21854	10.48	9313	14.33
04 RW7-SP302-20241016	5914	7.71	16908	10.48	7800	14.33
05 RW7-SP303-20241016	6342	7.71	18201	10.48	8400	14.33

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.: P4428 SAS No.: P4428 SDG NO.: P4428

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 10/24/2024

Lab File ID: BN034686.D Time Analyzed: 10:23

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	18185	17.069	10628	21.25	9595	23.467
UPPER LIMIT	36370	17.569	21256	21.75	19190	23.967
LOWER LIMIT	9092.5	16.569	5314	20.75	4797.5	22.967
EPA SAMPLE NO.						
01 PB164229BL	15380	17.07	8430	21.25	4222 *	23.47
02 RW7-SP100-20241016	14308	17.06	8901	21.25	8123	23.47
03 PB164229BS	17486	17.07	7332	21.25	876 *	23.47
04 RW7-SP302-20241016	14807	17.07	9773	21.25	9243	23.47
05 RW7-SP303-20241016	14880	17.07	8915	21.25	8250	23.46

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.: P4428 SAS No.: P4428 SDG NO.: P4428

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/24/2024

Lab File ID: BN034701.D Time Analyzed: 21:01

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	5885	7.712	17350	10.48	8078	14.33
UPPER LIMIT	11770	8.212	34700	10.979	16156	14.825
LOWER LIMIT	2942.5	7.212	8675	9.979	4039	13.825
EPA SAMPLE NO.						
01 RW7-SP201-20241016	5814	7.71	16296	10.48	7113	14.33
02 PB164229BSD	6487	7.71	18237	10.48	7824	14.33

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.: P4428 SAS No.: P4428 SDG NO.: P4428

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 10/24/2024

Lab File ID: BN034701.D Time Analyzed: 21:01

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	14577	17.064	8841	21.248	8336	23.464
UPPER LIMIT	29154	17.564	17682	21.748	16672	23.964
LOWER LIMIT	7288.5	16.564	4420.5	20.748	4168	22.964
EPA SAMPLE NO.						
01 RW7-SP201-20241016	13114	17.07	8330	21.24	6107	23.46
02 PB164229BSD	14054	17.07	7021	21.24	3135 *	23.46

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/24
Project:	CTO WE13	Date Received:	10/17/24
Client Sample ID:	RW7-SP100-20241016	SDG No.:	P4428
Lab Sample ID:	P4428-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	970 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
BN034693.D	1	10/17/24 13:55	10/24/24 15:28	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.70	Q	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		65%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.33		58 - 132		81%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5600	7.712				
1146-65-2	Naphthalene-d8	16300	10.479				
15067-26-2	Acenaphthene-d10	7520	14.325				
1517-22-2	Phenanthrene-d10	14300	17.064				
1719-03-5	Chrysene-d12	8900	21.248				
1520-96-3	Perylene-d12	8120	23.467				

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\BN102424\
Data File : BN034693.D
Acq On : 24 Oct 2024 15:28
Operator : RC/JU
Sample : P4428-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

Quant Time: Oct 24 16:07:24 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 13:17:02 2024
Response via : Initial Calibration

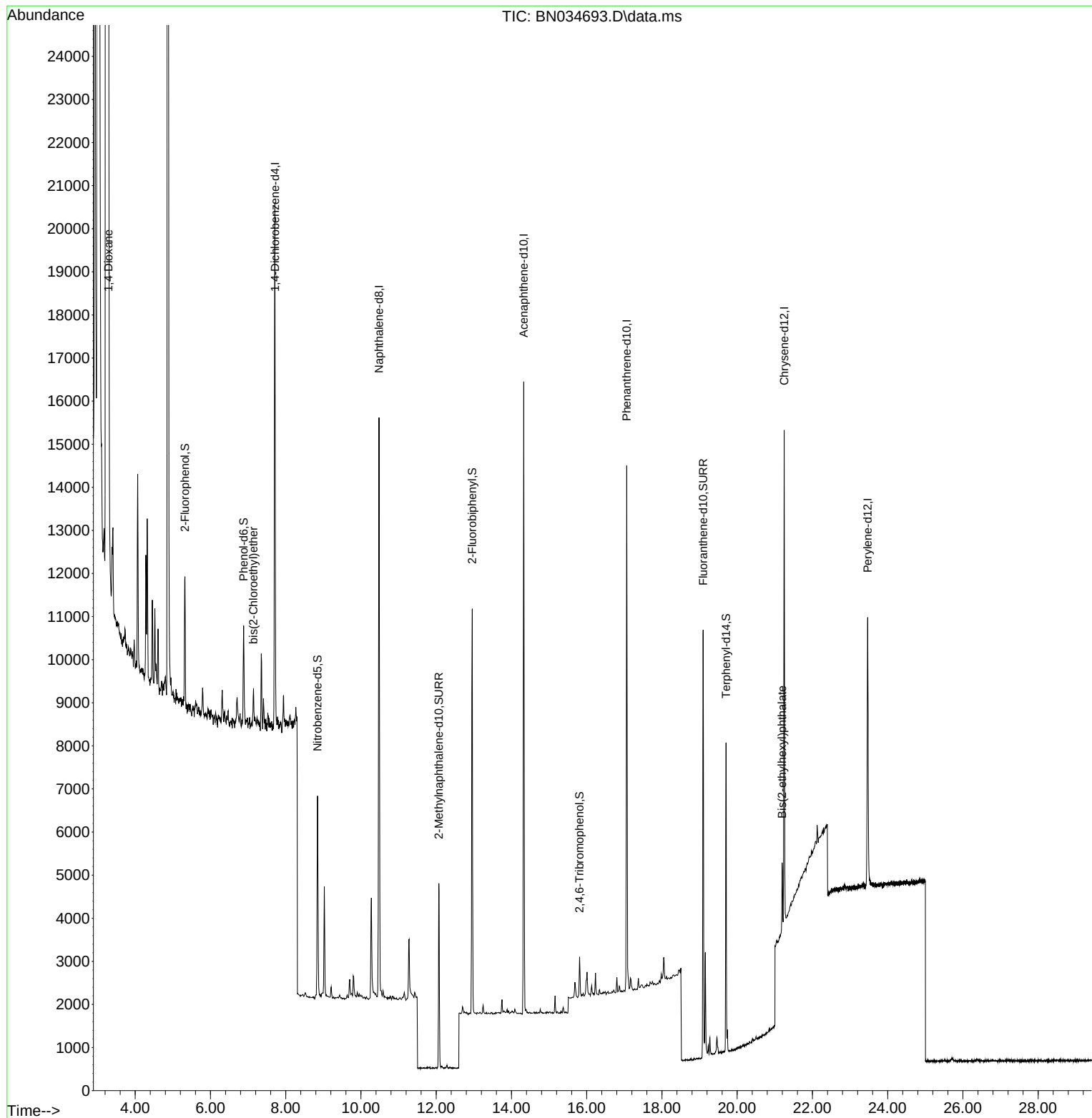
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5598	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16265	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	7521	0.400	ng	0.00
19) Phenanthrene-d10	17.064	188	14308	0.400	ng	# 0.00
29) Chrysene-d12	21.248	240	8901	0.400	ng	# 0.00
35) Perylene-d12	23.467	264	8123	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	2253	0.135	ng	0.00
5) Phenol-d6	6.882	99	1884	0.086	ng	0.00
8) Nitrobenzene-d5	8.846	82	3510	0.257	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	5601	0.250	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	440	0.189	ng	0.00
15) 2-Fluorobiphenyl	12.957	172	7767	0.260	ng	0.00
27) Fluoranthene-d10	19.097	212	9714	0.301	ng	0.00
31) Terphenyl-d14	19.705	244	5910	0.325	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	33716	4.525	ng	98
6) bis(2-Chloroethyl)ether	7.142	93	588	0.033	ng	96
34) Bis(2-ethylhexyl)phtha...	21.194	149	1871	0.097	ng	# 93

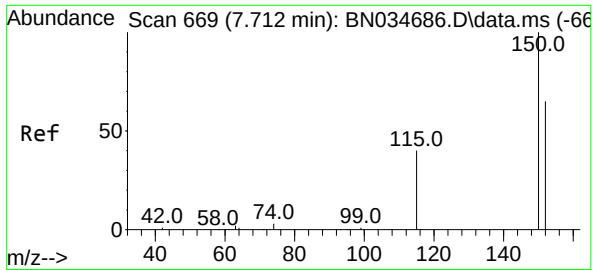
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034693.D
Acq On : 24 Oct 2024 15:28
Operator : RC/JU
Sample : P4428-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

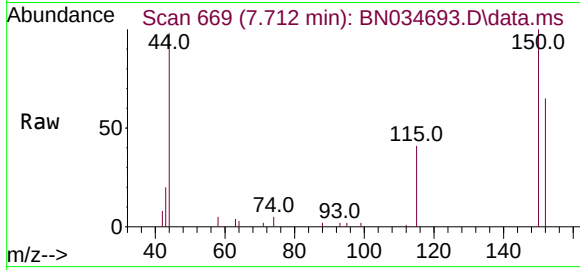
Quant Time: Oct 24 16:07:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



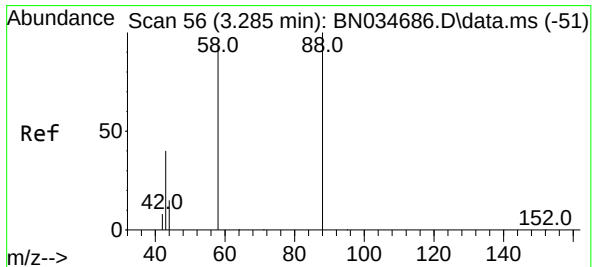
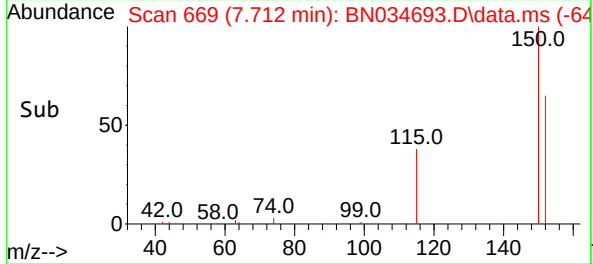
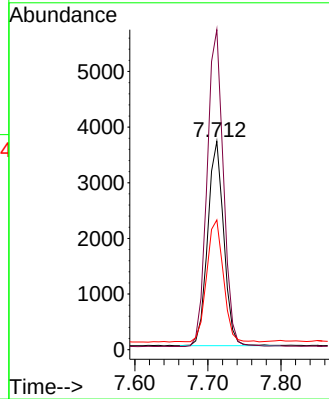


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

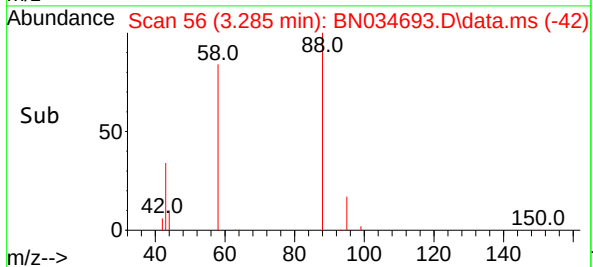
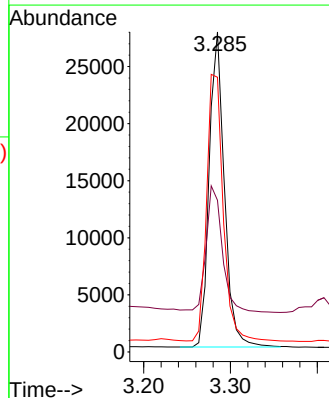
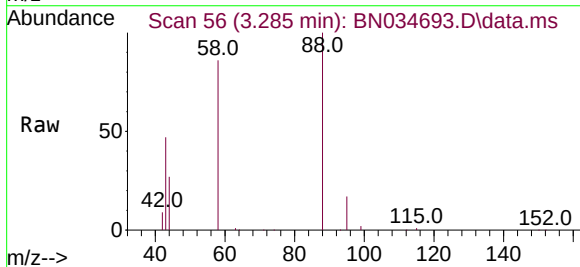


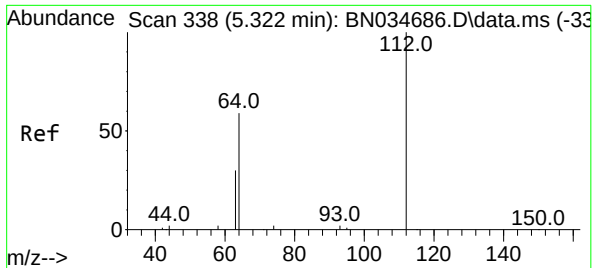
Tgt Ion:152 Resp: 5598
Ion Ratio Lower Upper
152 100
150 153.6 122.7 184.1
115 62.3 51.0 76.6



#2
1,4-Dioxane
Concen: 4.525 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion: 88 Resp: 33716
Ion Ratio Lower Upper
88 100
43 43.2 32.1 48.1
58 91.9 73.7 110.5





#4

2-Fluorophenol

Concen: 0.135 ng

RT: 5.322 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034693.D

Acq: 24 Oct 2024 15:28

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241016

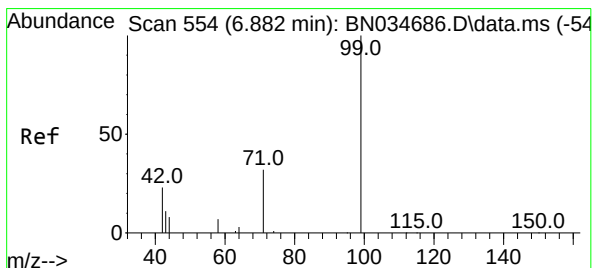
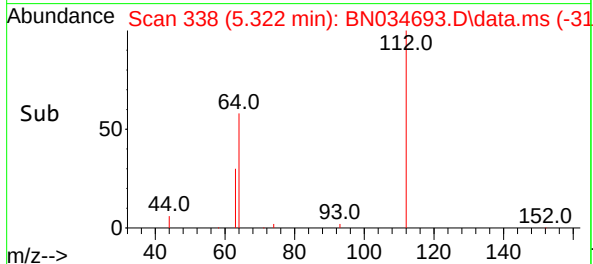
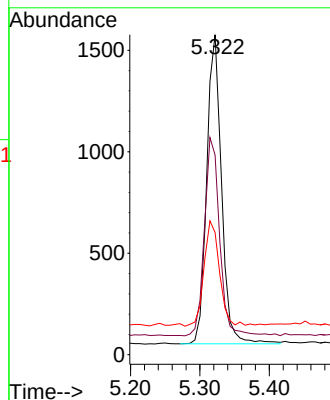
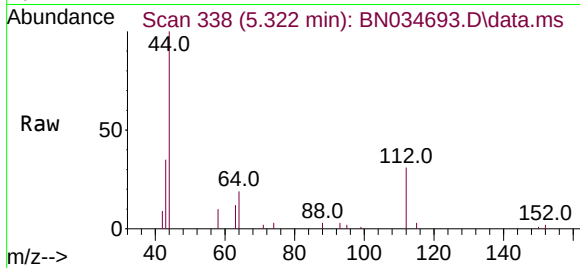
Tgt Ion:112 Resp: 2253

Ion Ratio Lower Upper

112 100

64 65.8 53.0 79.6

63 35.7 27.6 41.4



#5

Phenol-d6

Concen: 0.086 ng

RT: 6.882 min Scan# 554

Delta R.T. 0.000 min

Lab File: BN034693.D

Acq: 24 Oct 2024 15:28

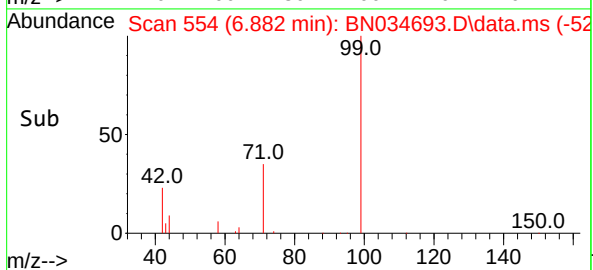
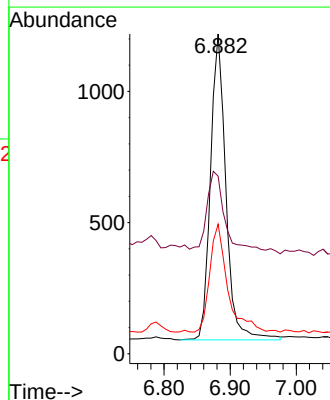
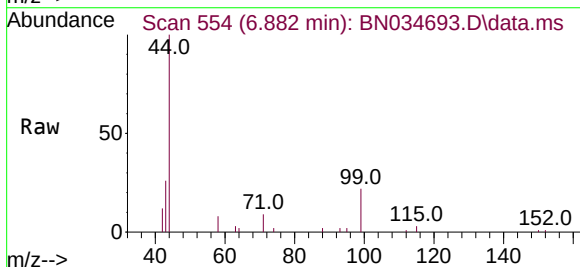
Tgt Ion: 99 Resp: 1884

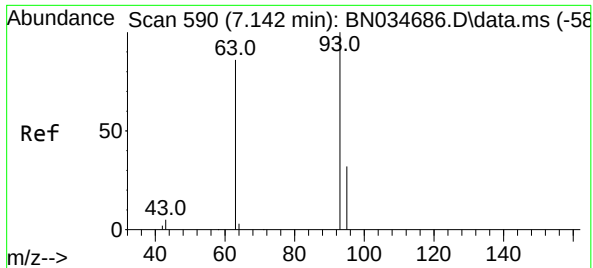
Ion Ratio Lower Upper

99 100

42 34.1 21.8 32.8#

71 40.9 26.6 40.0#

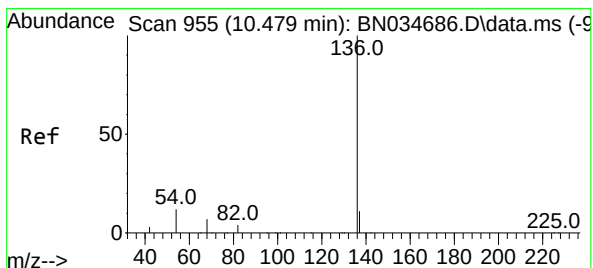
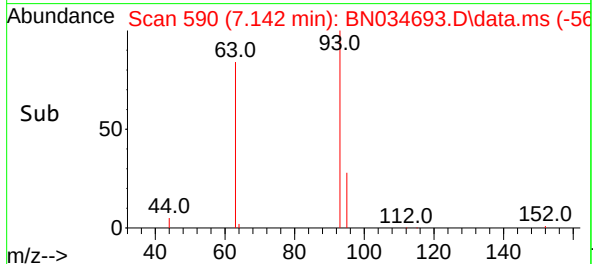
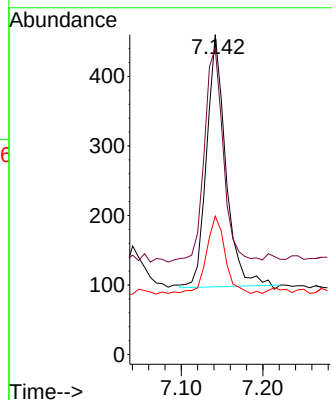
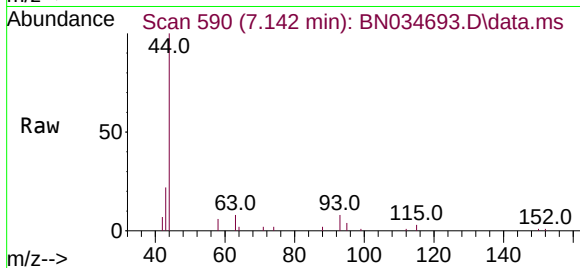




#6
bis(2-Chloroethyl)ether
Concen: 0.033 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

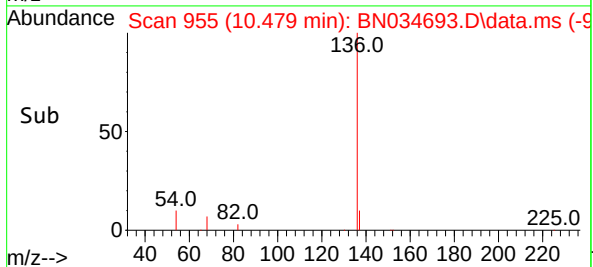
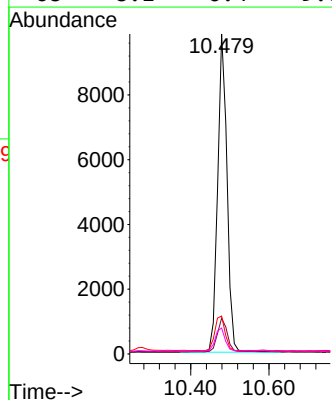
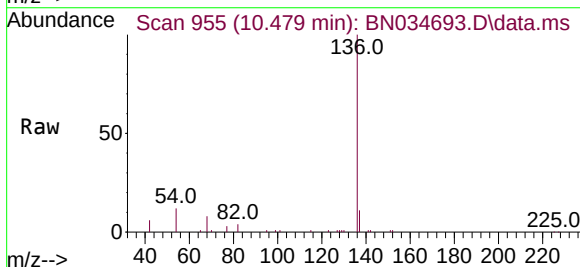
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

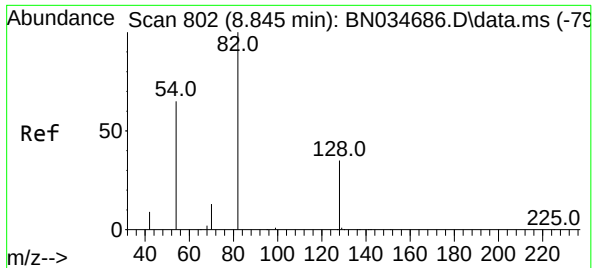
Tgt Ion:	93	Resp:	588
Ion	Ratio	Lower	Upper
93	100		
63	85.2	71.5	107.3
95	32.7	25.8	38.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion:	136	Resp:	16265
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	11.9	9.8	14.8
68	8.1	6.4	9.6

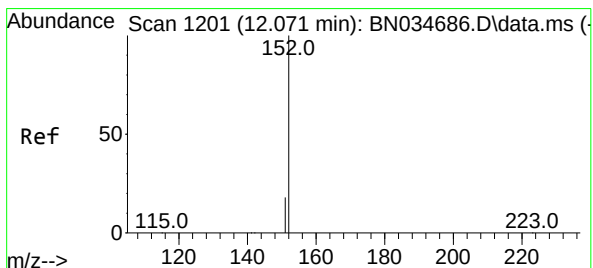
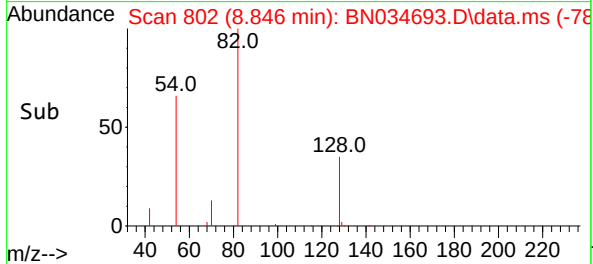
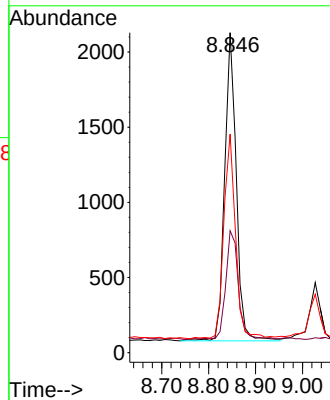
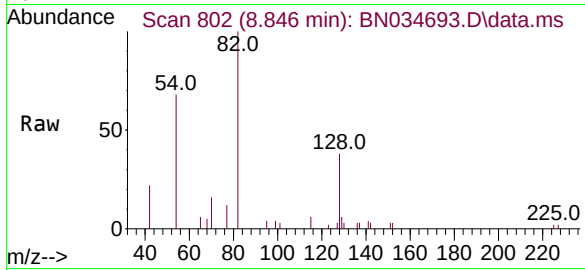




#8
Nitrobenzene-d5
Concen: 0.257 ng
RT: 8.846 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

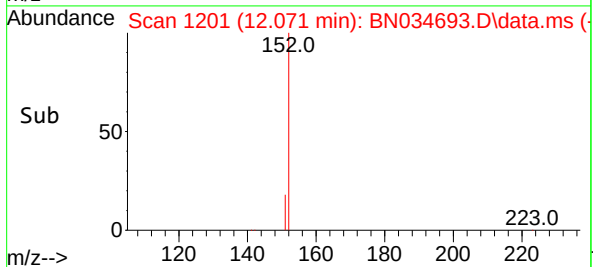
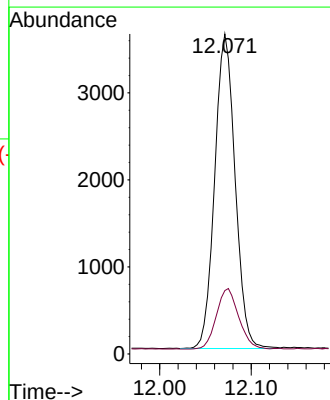
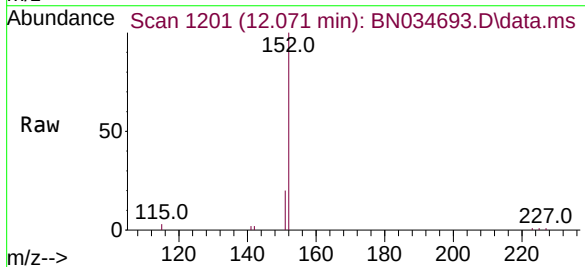
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

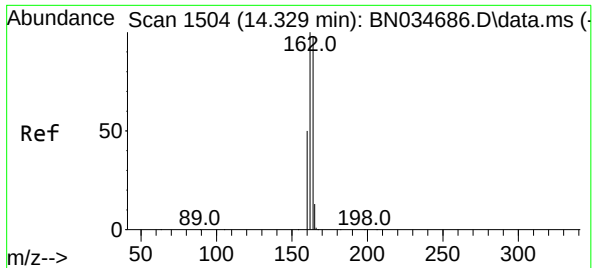
Tgt Ion: 82 Resp: 3510
Ion Ratio Lower Upper
82 100
128 38.1 29.7 44.5
54 68.3 53.0 79.6



#11
2-Methylnaphthalene-d10
Concen: 0.250 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion: 152 Resp: 5601
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1

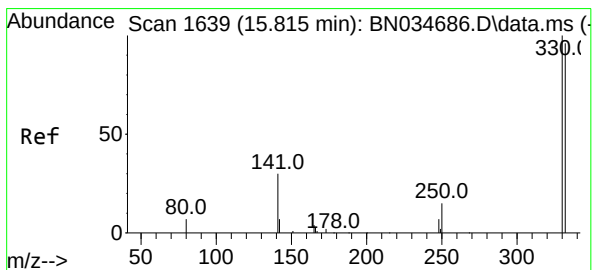
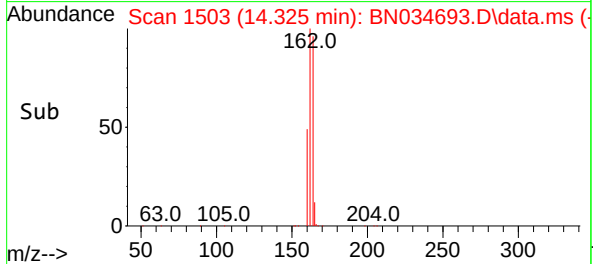
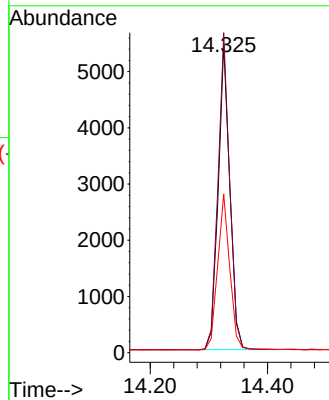
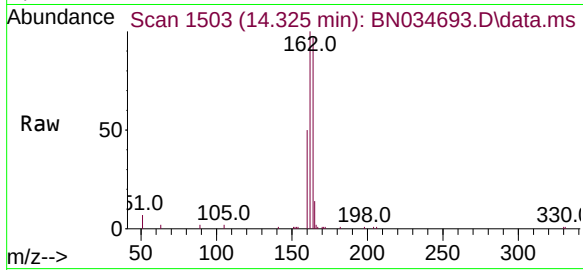




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

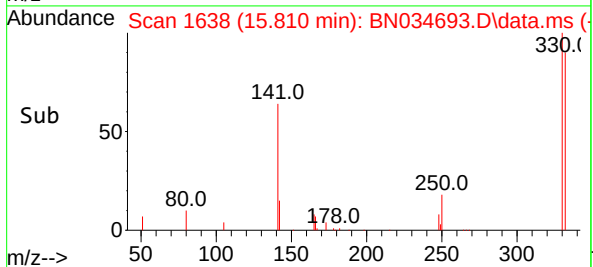
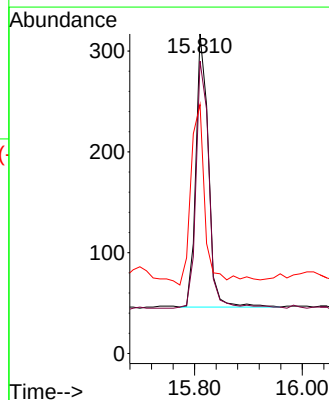
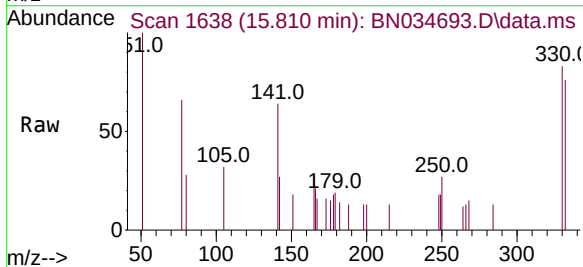
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

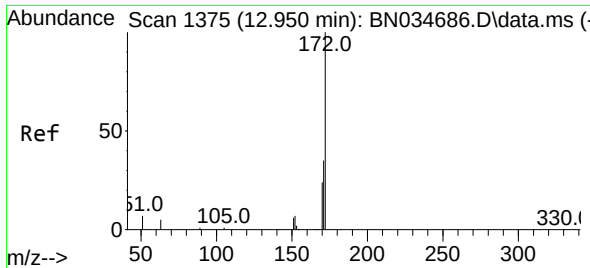
Tgt Ion:164 Resp: 7521
Ion Ratio Lower Upper
164 100
162 103.6 81.4 122.0
160 51.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.189 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.005 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion:330 Resp: 440
Ion Ratio Lower Upper
330 100
332 93.9 76.6 115.0
141 66.6 54.6 81.8

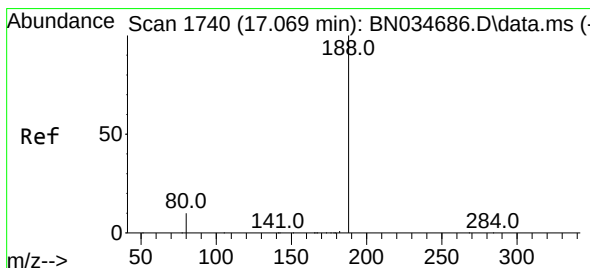
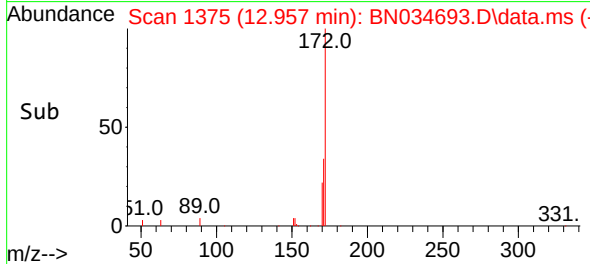
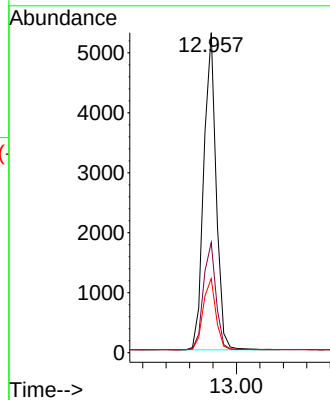
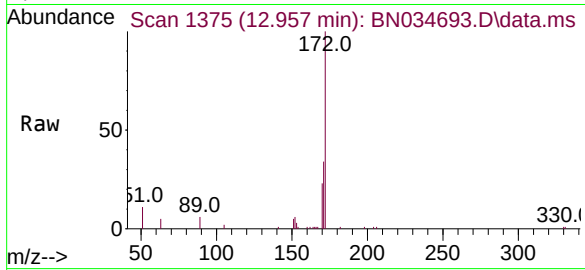




#15
2-Fluorobiphenyl
Concen: 0.260 ng
RT: 12.957 min Scan# 11
Delta R.T. 0.007 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

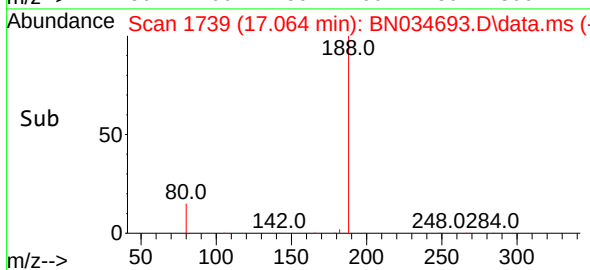
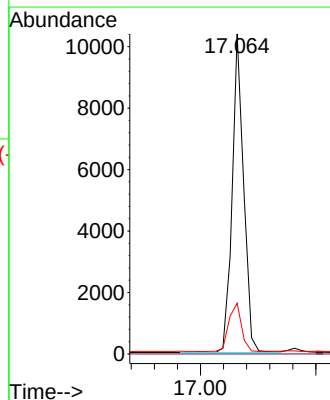
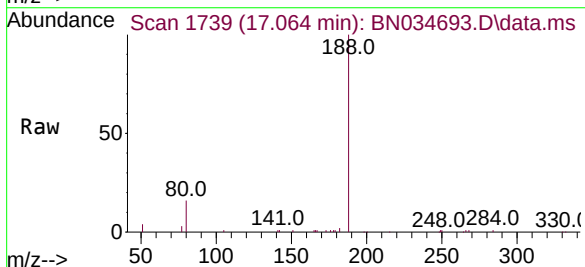
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

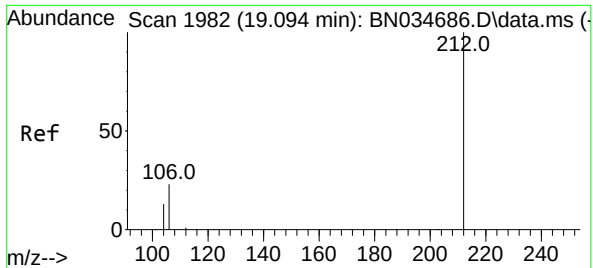
Tgt Ion:	172	Resp:	7767
Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.3	42.5
170	23.1	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.005 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion:	188	Resp:	14308
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	8.9	13.3





#27

Fluoranthene-d10

Concen: 0.301 ng

RT: 19.097 min Scan# 1982

Delta R.T. 0.002 min

Lab File: BN034693.D

Acq: 24 Oct 2024 15:28

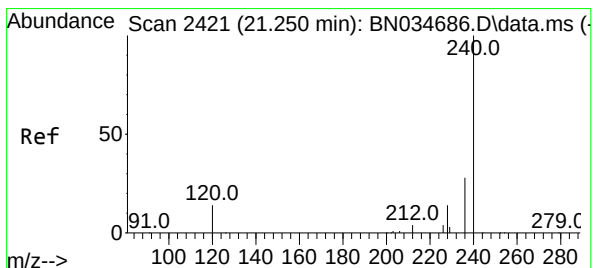
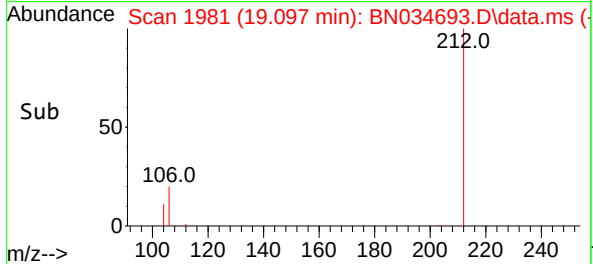
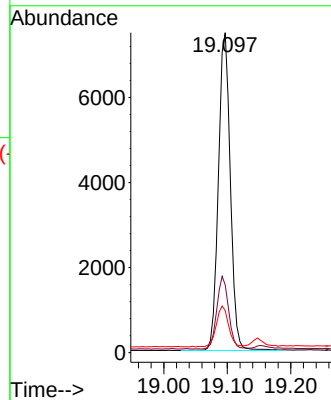
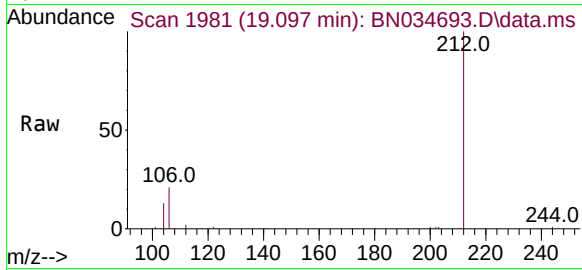
Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241016

Tgt Ion:	212	Resp:	9714
Ion	Ratio	Lower	Upper
212	100		
106	22.7	17.8	26.8
104	13.2	10.2	15.4



#29

Chrysene-d12

Concen: 0.400 ng

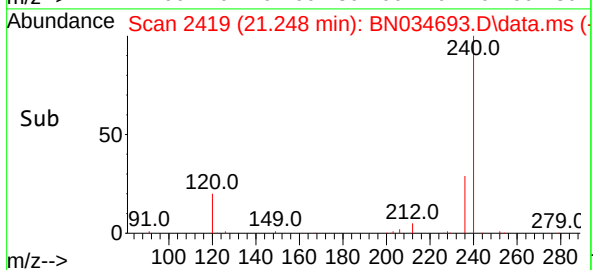
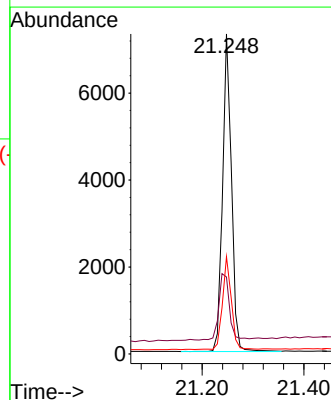
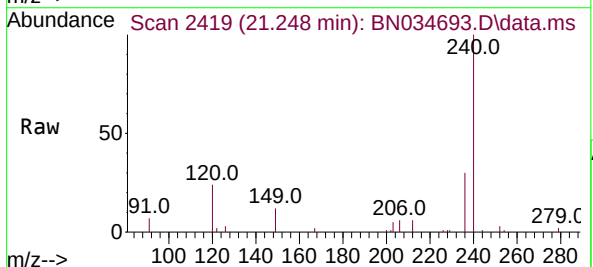
RT: 21.248 min Scan# 2419

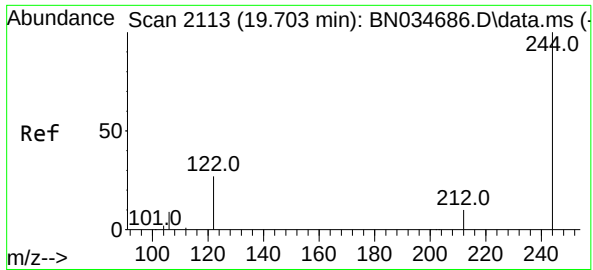
Delta R.T. -0.002 min

Lab File: BN034693.D

Acq: 24 Oct 2024 15:28

Tgt Ion:	240	Resp:	8901
Ion	Ratio	Lower	Upper
240	100		
120	24.1	14.2	21.2
236	30.4	23.1	34.7

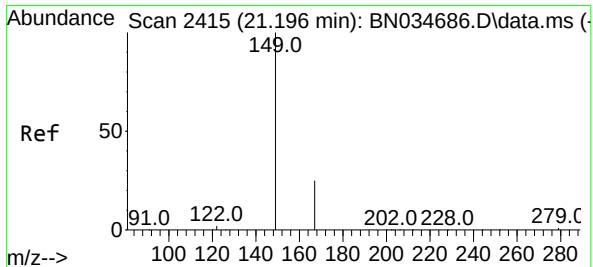
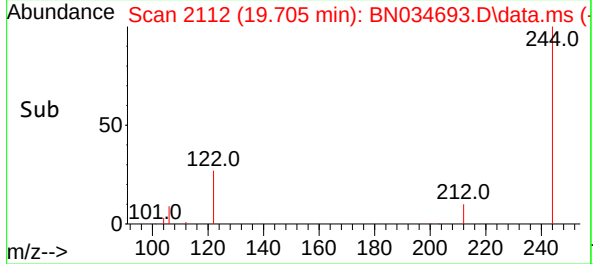
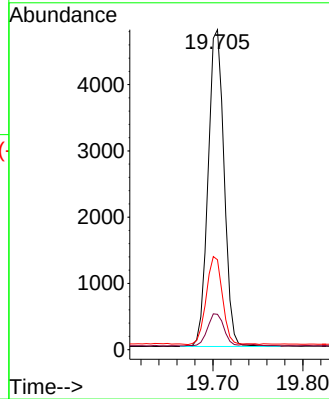
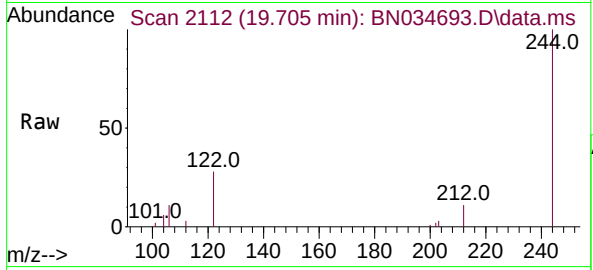




#31
Terphenyl-d14
Concen: 0.325 ng
RT: 19.705 min Scan# 2112
Delta R.T. 0.002 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

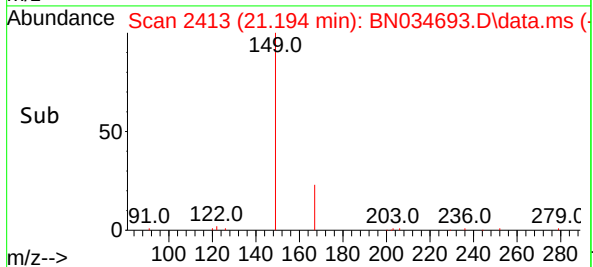
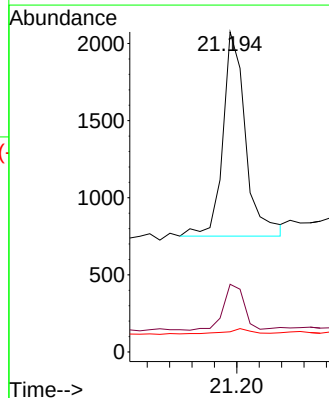
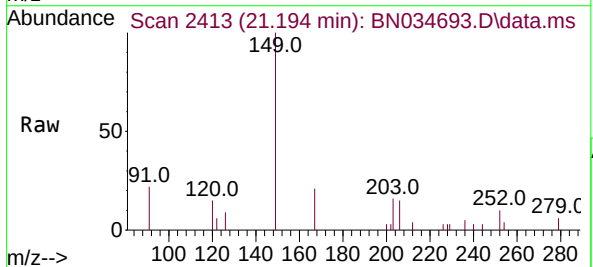
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241016

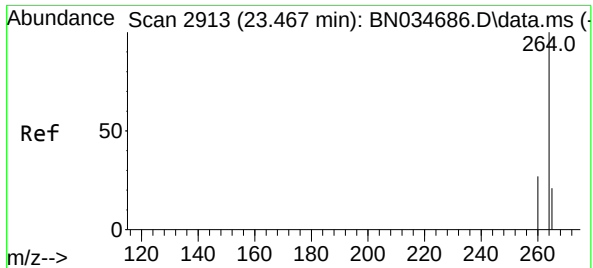
Tgt Ion:244 Resp: 5910
Ion Ratio Lower Upper
244 100
212 11.0 8.6 13.0
122 28.1 22.3 33.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.002 min
Lab File: BN034693.D
Acq: 24 Oct 2024 15:28

Tgt Ion:149 Resp: 1871
Ion Ratio Lower Upper
149 100
167 20.9 19.7 29.5
279 2.9 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: BN034693.D

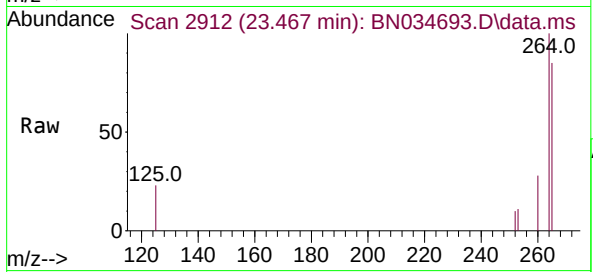
Acq: 24 Oct 2024 15:28

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241016



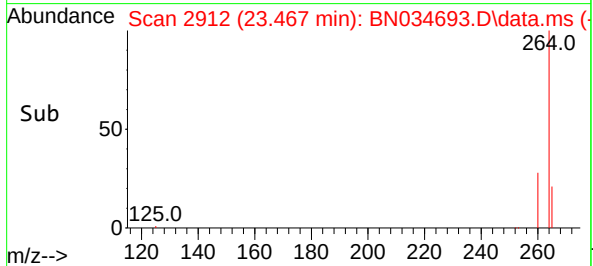
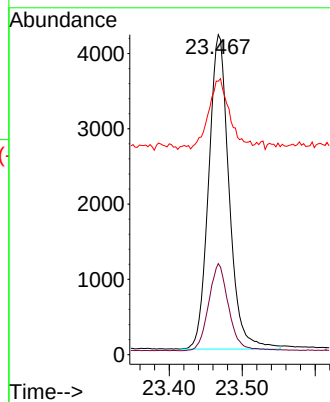
Tgt Ion:264 Resp: 8123

Ion	Ratio	Lower	Upper
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264	100		
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260	28.4	21.9	32.9
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265	85.4	60.6	91.0
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/24
Project:	CTO WE13	Date Received:	10/17/24
Client Sample ID:	RW7-SP201-20241016	SDG No.:	P4428
Lab Sample ID:	P4428-02	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
BN034710.D	1	10/17/24 13:55	10/25/24 02:26	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	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	5810	7.712				
1146-65-2	Naphthalene-d8	16300	10.479				
15067-26-2	Acenaphthene-d10	7110	14.329				
1517-22-2	Phenanthrene-d10	13100	17.069				
1719-03-5	Chrysene-d12	8330	21.241				
1520-96-3	Perylene-d12	6110	23.461				

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\BN102424\
Data File : BN034710.D
Acq On : 25 Oct 2024 02:26
Operator : RC/JU
Sample : P4428-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

Quant Time: Oct 25 02:54:55 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

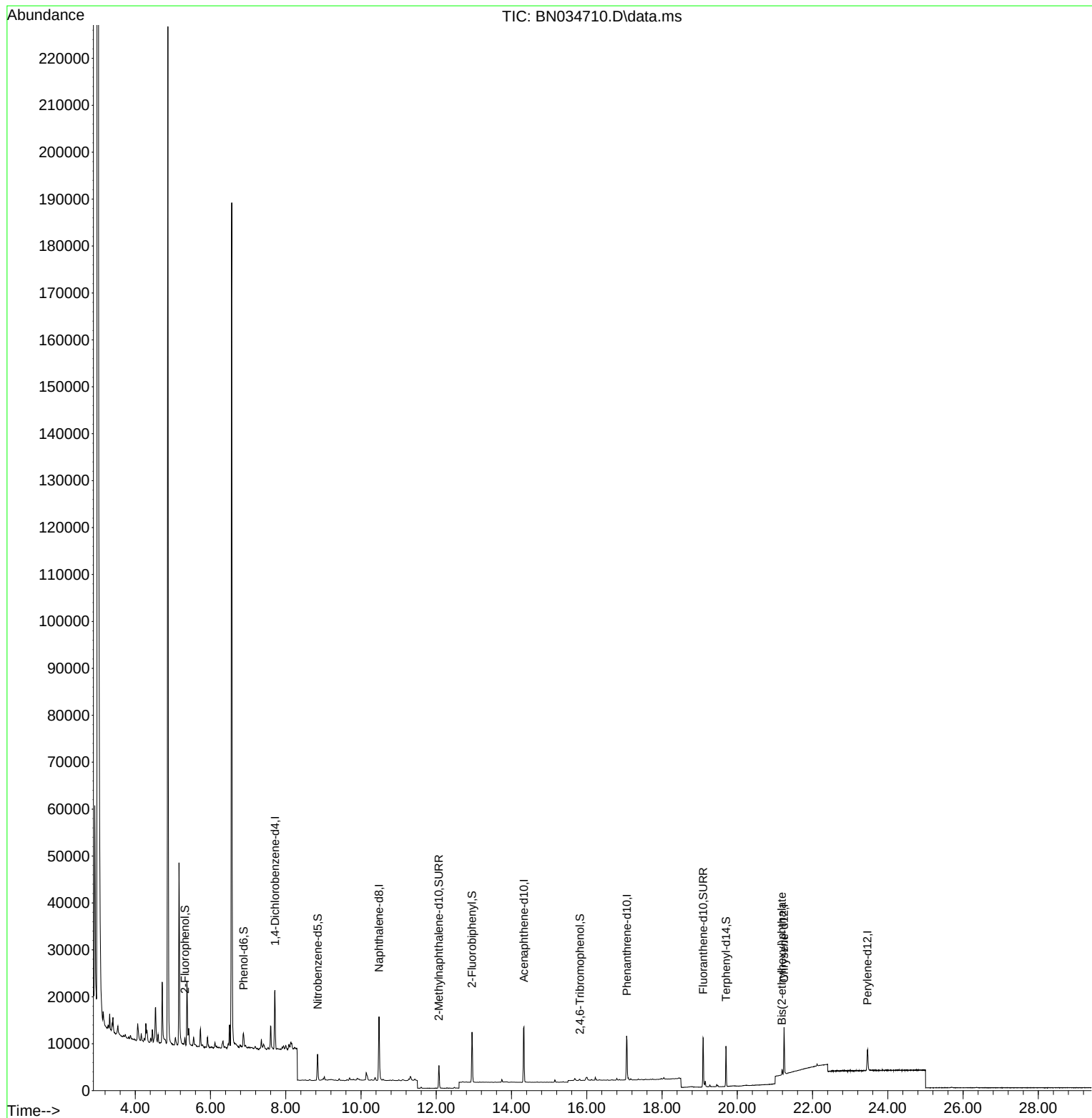
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5814	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16296	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	7113	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	13114	0.400	ng	0.00
29) Chrysene-d12	21.241	240	8330	0.400	ng	# 0.00
35) Perylene-d12	23.461	264	6107	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.321	112	1128	0.065	ng	0.00
5) Phenol-d6	6.881	99	1541	0.068	ng	0.00
8) Nitrobenzene-d5	8.845	82	3979	0.291	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	6221	0.278	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	146	0.066	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	8462	0.299	ng	0.00
27) Fluoranthene-d10	19.094	212	10462	0.354	ng	0.00
31) Terphenyl-d14	19.698	244	6767	0.398	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.187	149	1337	0.074	ng	Qvalue 94

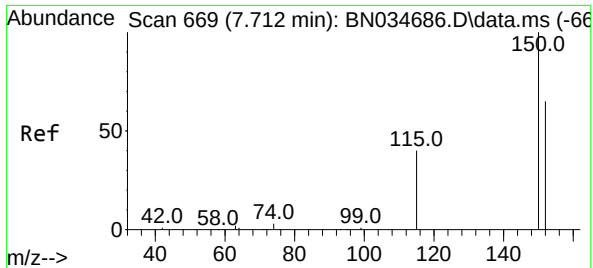
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034710.D
Acq On : 25 Oct 2024 02:26
Operator : RC/JU
Sample : P4428-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

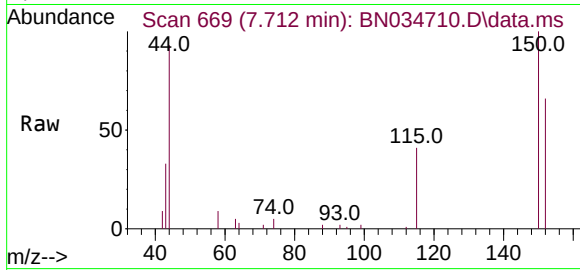
Quant Time: Oct 25 02:54:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



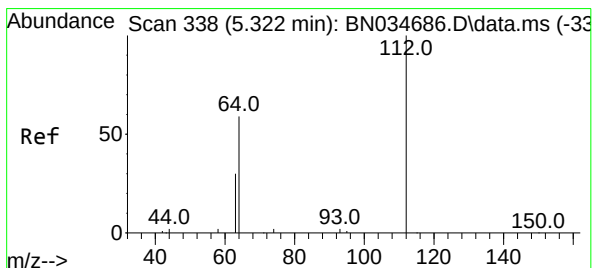
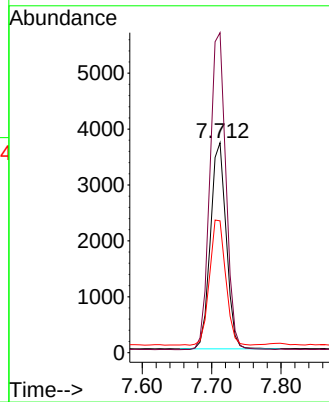


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

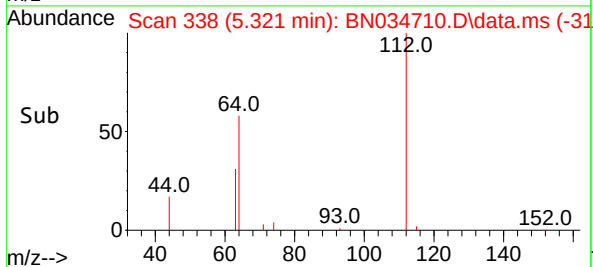
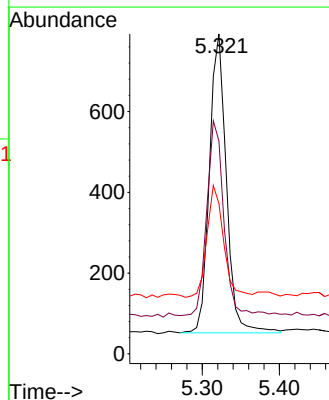
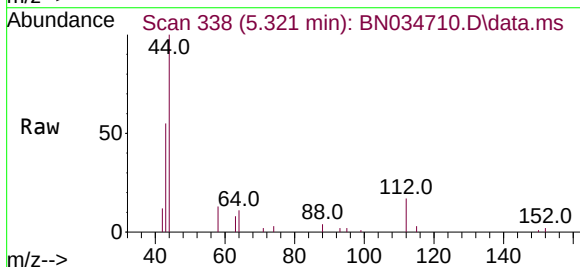


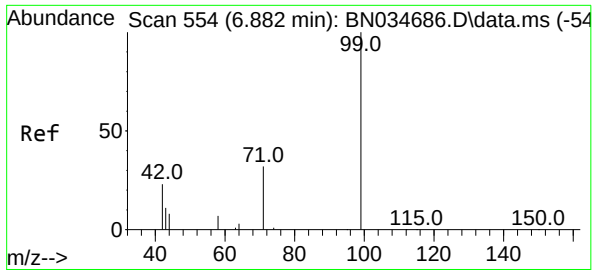
Tgt Ion:152 Resp: 5814
Ion Ratio Lower Upper
152 100
150 152.4 122.7 184.1
115 62.8 51.0 76.6



#4
2-Fluorophenol
Concen: 0.065 ng
RT: 5.321 min Scan# 338
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion:112 Resp: 1128
Ion Ratio Lower Upper
112 100
64 65.5 53.0 79.6
63 36.6 27.6 41.4

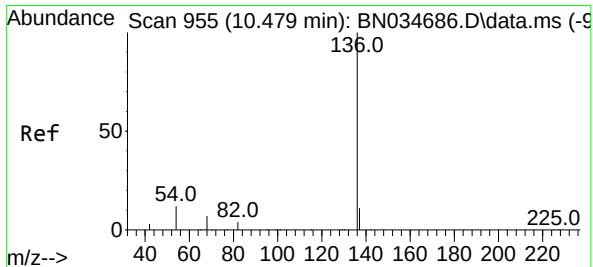
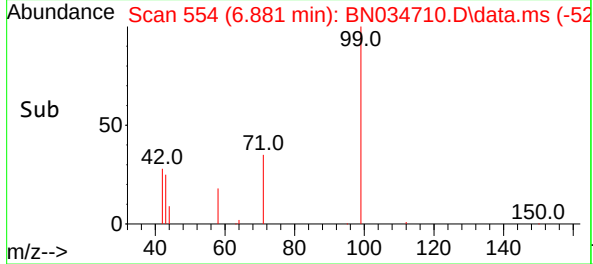
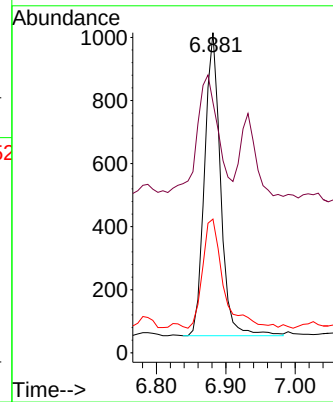
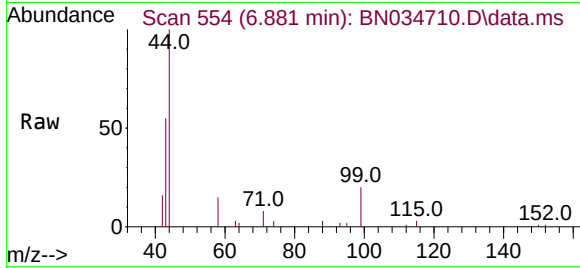




#5
Phenol-d6
Concen: 0.068 ng
RT: 6.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

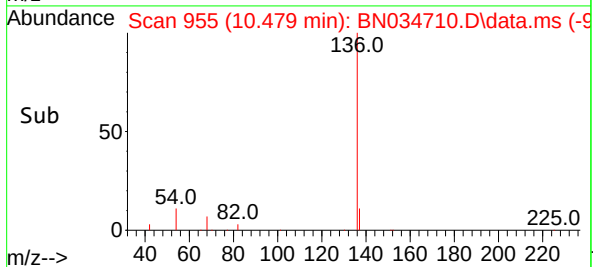
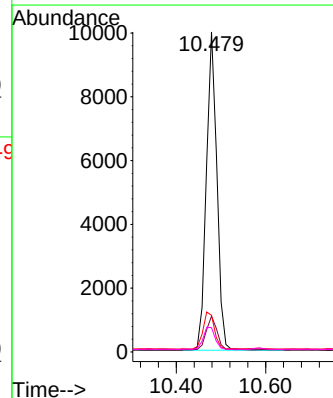
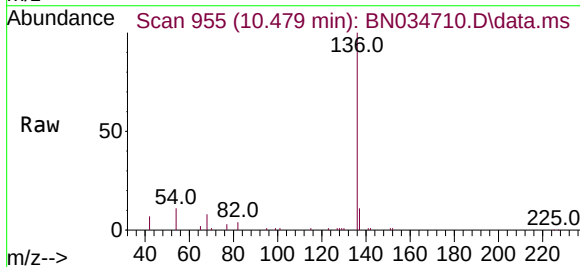
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

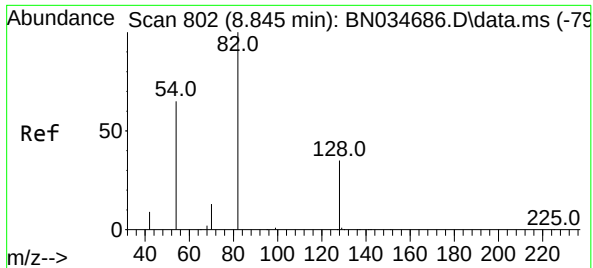
Tgt Ion: 99 Resp: 1541
Ion Ratio Lower Upper
99 100
42 54.5 21.8 32.8#
71 47.1 26.6 40.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion: 136 Resp: 16296
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 11.5 9.8 14.8
68 7.6 6.4 9.6

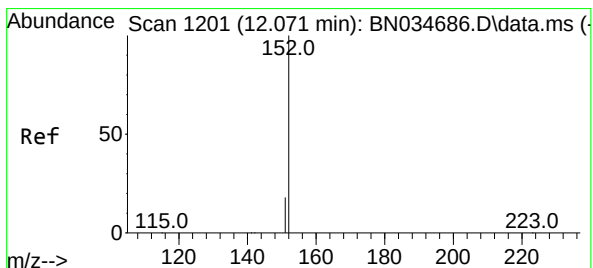
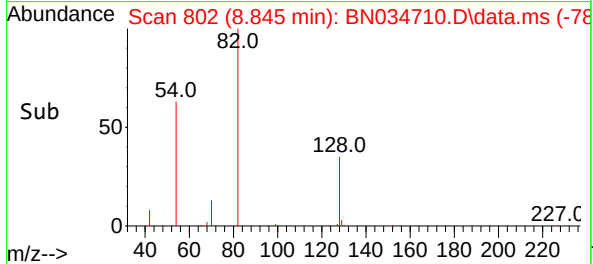
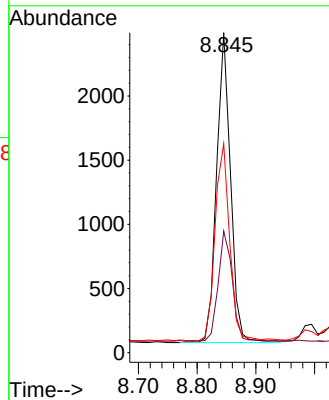
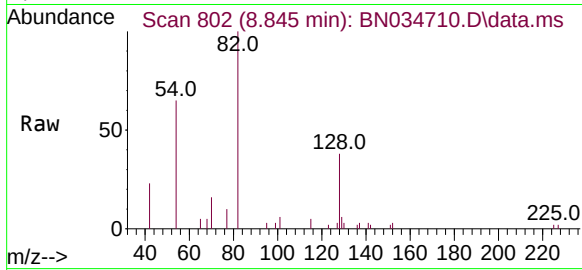




#8
Nitrobenzene-d5
Concen: 0.291 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

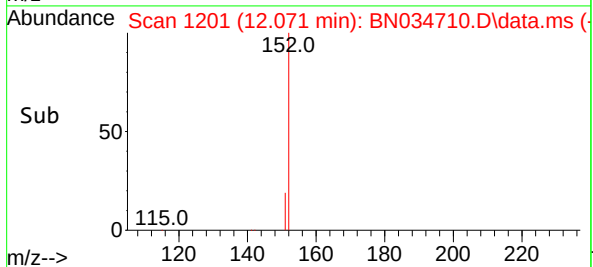
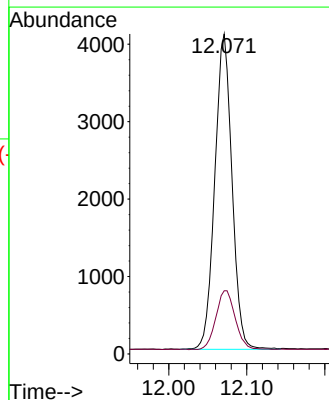
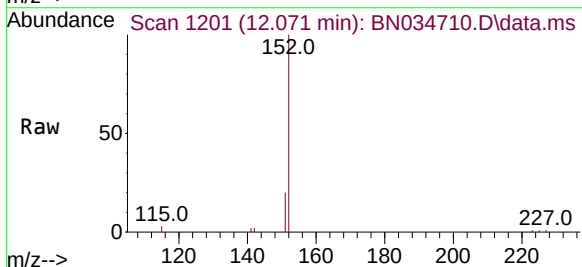
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

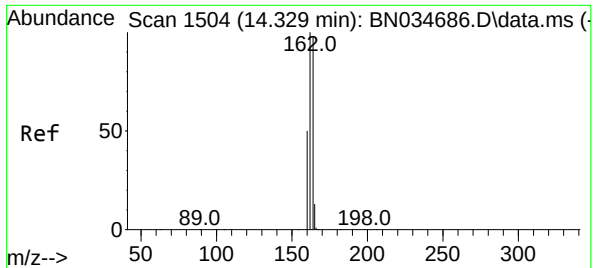
Tgt Ion	82	Resp:	3979
Ion	Ratio	Lower	Upper
82	100		
128	38.0	29.7	44.5
54	65.3	53.0	79.6



#11
2-Methylnaphthalene-d10
Concen: 0.278 ng
RT: 12.071 min Scan# 1201
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion	152	Resp:	6221
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

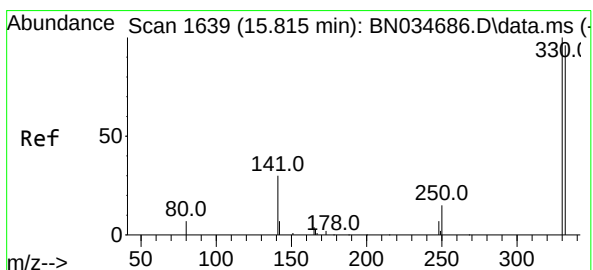
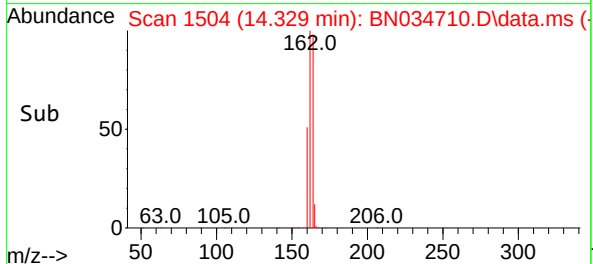
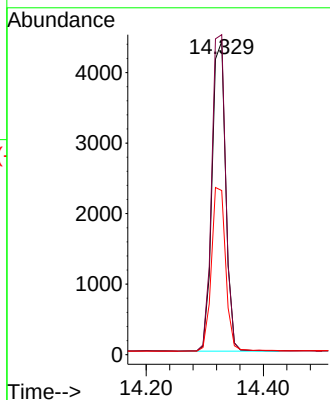
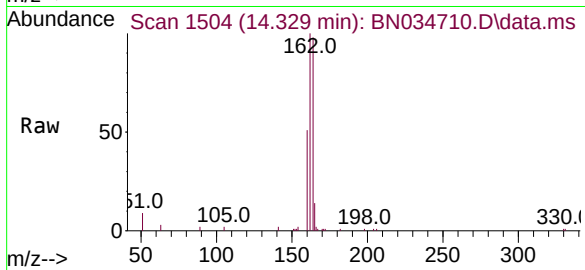




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

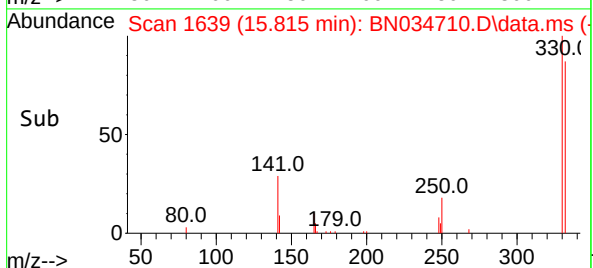
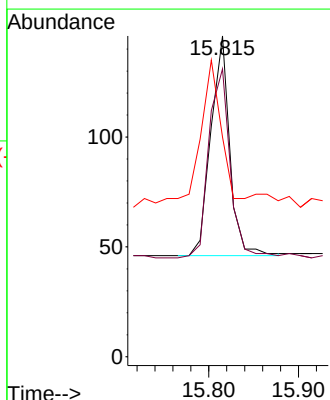
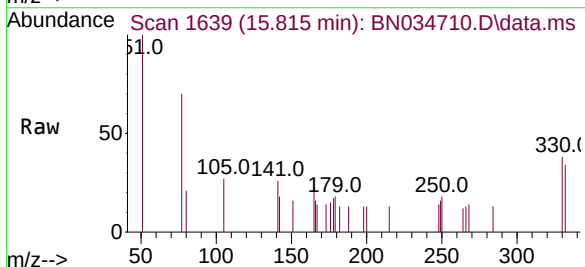
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

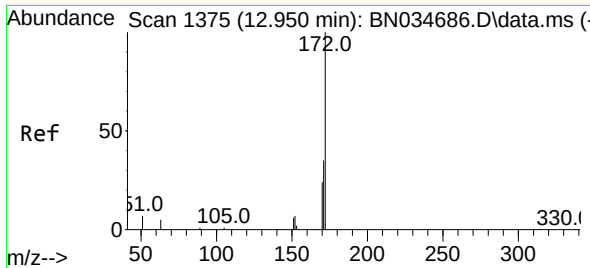
Tgt Ion:164 Resp: 7113
Ion Ratio Lower Upper
164 100
162 102.2 81.4 122.0
160 52.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.066 ng
RT: 15.815 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion:330 Resp: 146
Ion Ratio Lower Upper
330 100
332 99.3 76.6 115.0
141 80.8 54.6 81.8

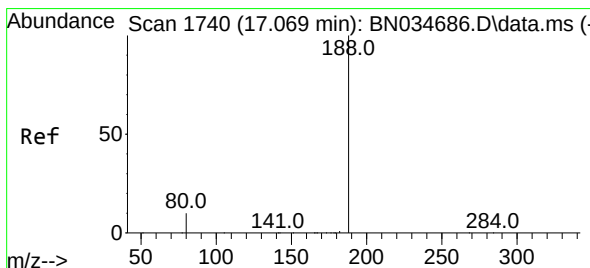
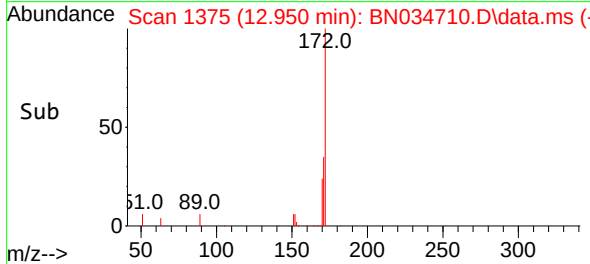
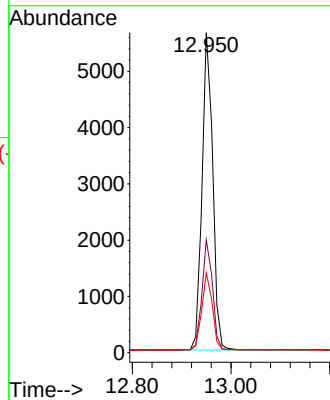
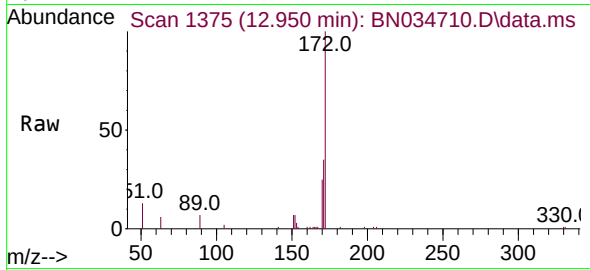




#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 12.950 min Scan# 1375
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

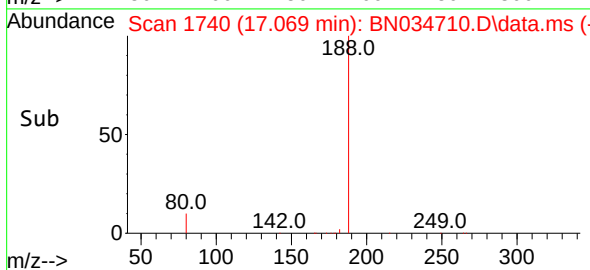
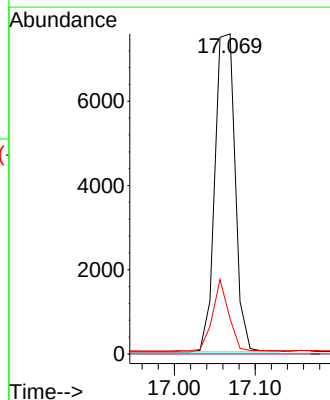
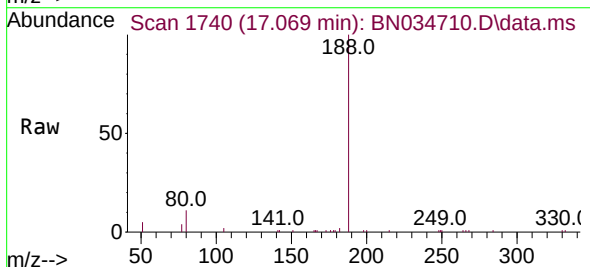
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

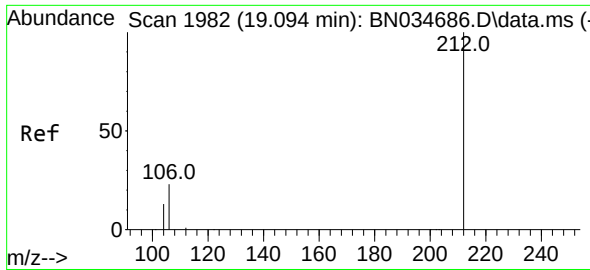
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	25.0	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.069 min Scan# 1740
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.9	13.3

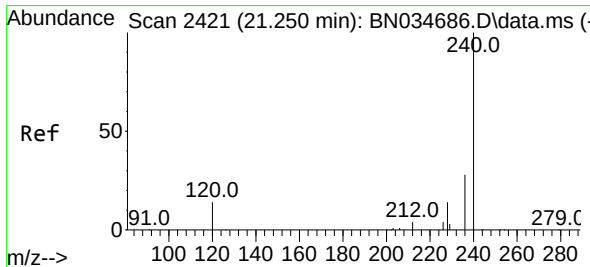
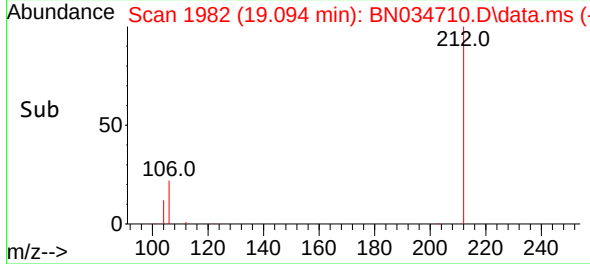
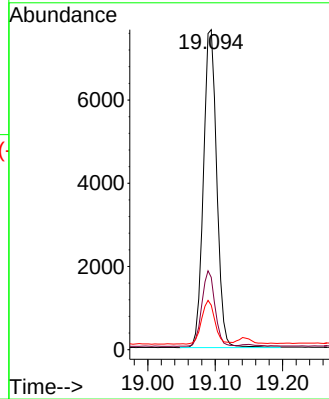
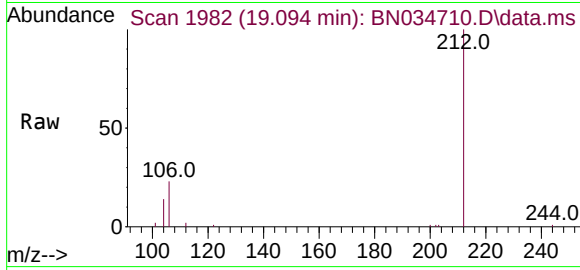




#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 19.094 min Scan# 1982
Delta R.T. -0.000 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

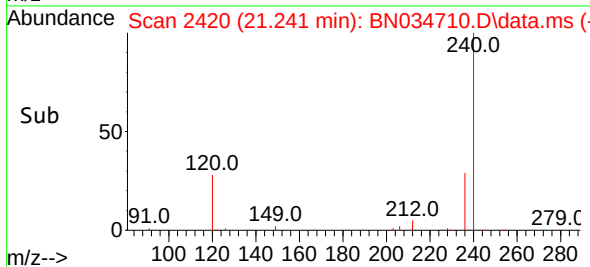
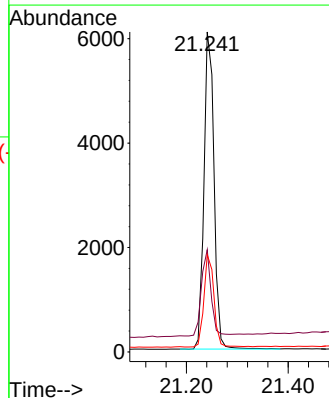
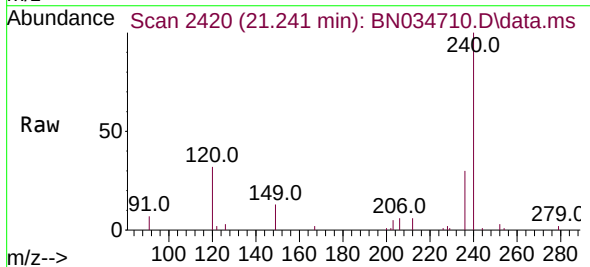
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ClientSampleId :
RW7-SP201-20241016

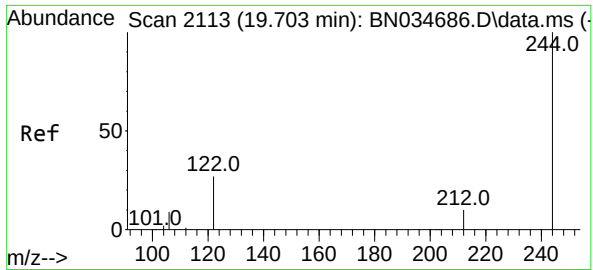
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.3	17.8	26.8
104	13.8	10.2	15.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.241 min Scan# 2420
Delta R.T. -0.009 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Tgt Ion	Ratio	Lower	Upper
240	100		
120	32.0	14.2	21.2#
236	30.4	23.1	34.7

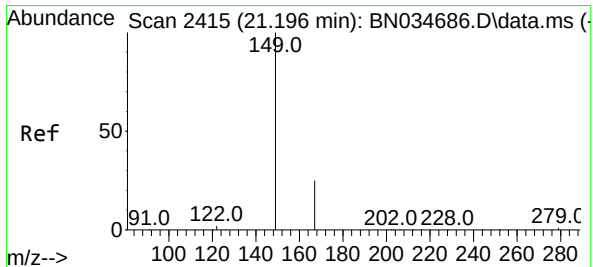
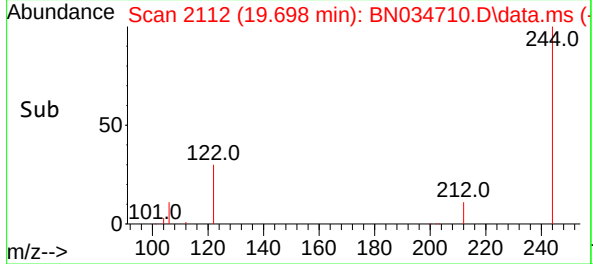
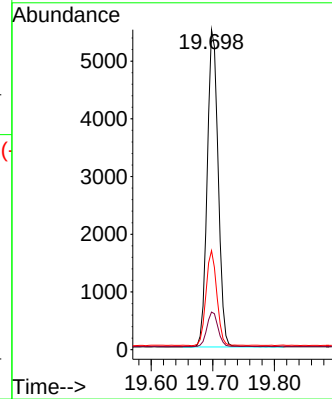
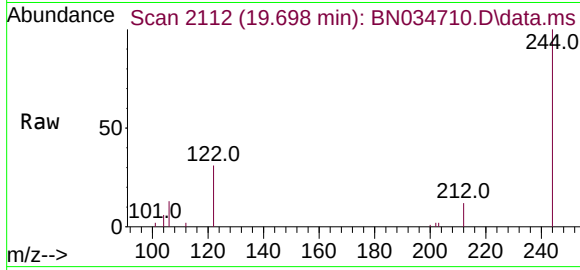




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.698 min Scan# 2112
Delta R.T. -0.005 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

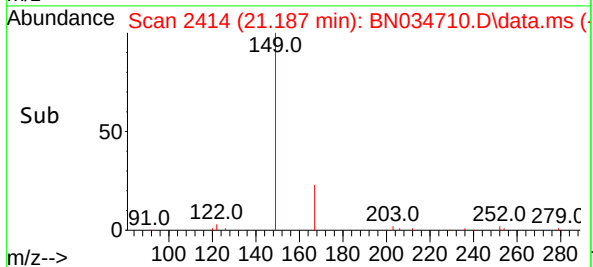
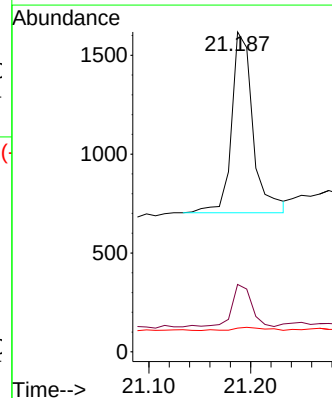
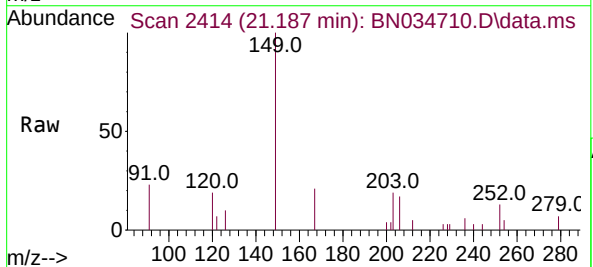
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016

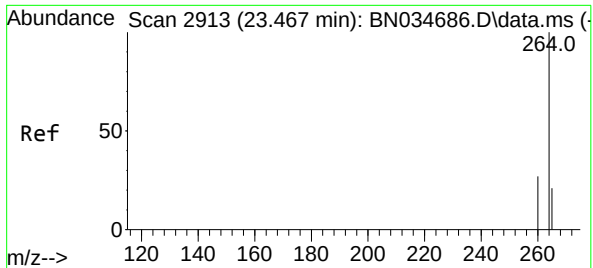
Tgt Ion:244 Resp: 6767
Ion Ratio Lower Upper
244 100
212 11.8 8.6 13.0
122 30.9 22.3 33.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng
RT: 21.187 min Scan# 2414
Delta R.T. -0.009 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

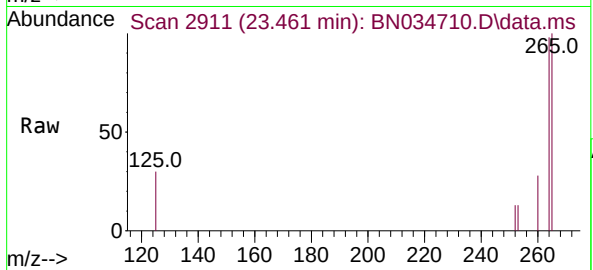
Tgt Ion:149 Resp: 1337
Ion Ratio Lower Upper
149 100
167 21.5 19.7 29.5
279 2.6 1.8 2.6



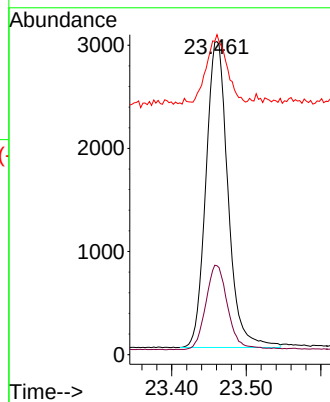
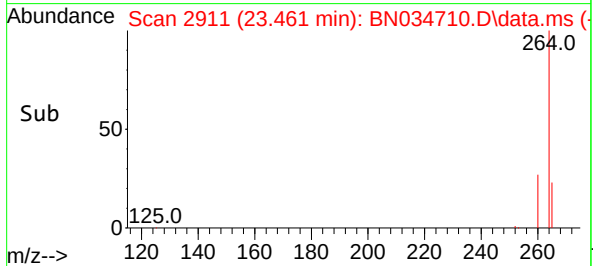


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.461 min Scan# 2911
Delta R.T. -0.006 min
Lab File: BN034710.D
Acq: 25 Oct 2024 02:26

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241016



Tgt Ion:264 Resp: 6107
Ion Ratio Lower Upper
264 100
260 28.4 21.9 32.9
265 102.2 60.6 91.0#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/24
Project:	CTO WE13	Date Received:	10/17/24
Client Sample ID:	RW7-SP302-20241016	SDG No.:	P4428
Lab Sample ID:	P4428-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	970 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
BN034695.D	1	10/17/24 13:55	10/24/24 16:41	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.090	JQ	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5910	7.712				
1146-65-2	Naphthalene-d8	16900	10.479				
15067-26-2	Acenaphthene-d10	7800	14.329				
1517-22-2	Phenanthrene-d10	14800	17.069				
1719-03-5	Chrysene-d12	9770	21.25				
1520-96-3	Perylene-d12	9240	23.467				

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\BN102424\
Data File : BN034695.D
Acq On : 24 Oct 2024 16:41
Operator : RC/JU
Sample : P4428-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

Quant Time: Oct 24 17:25:38 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

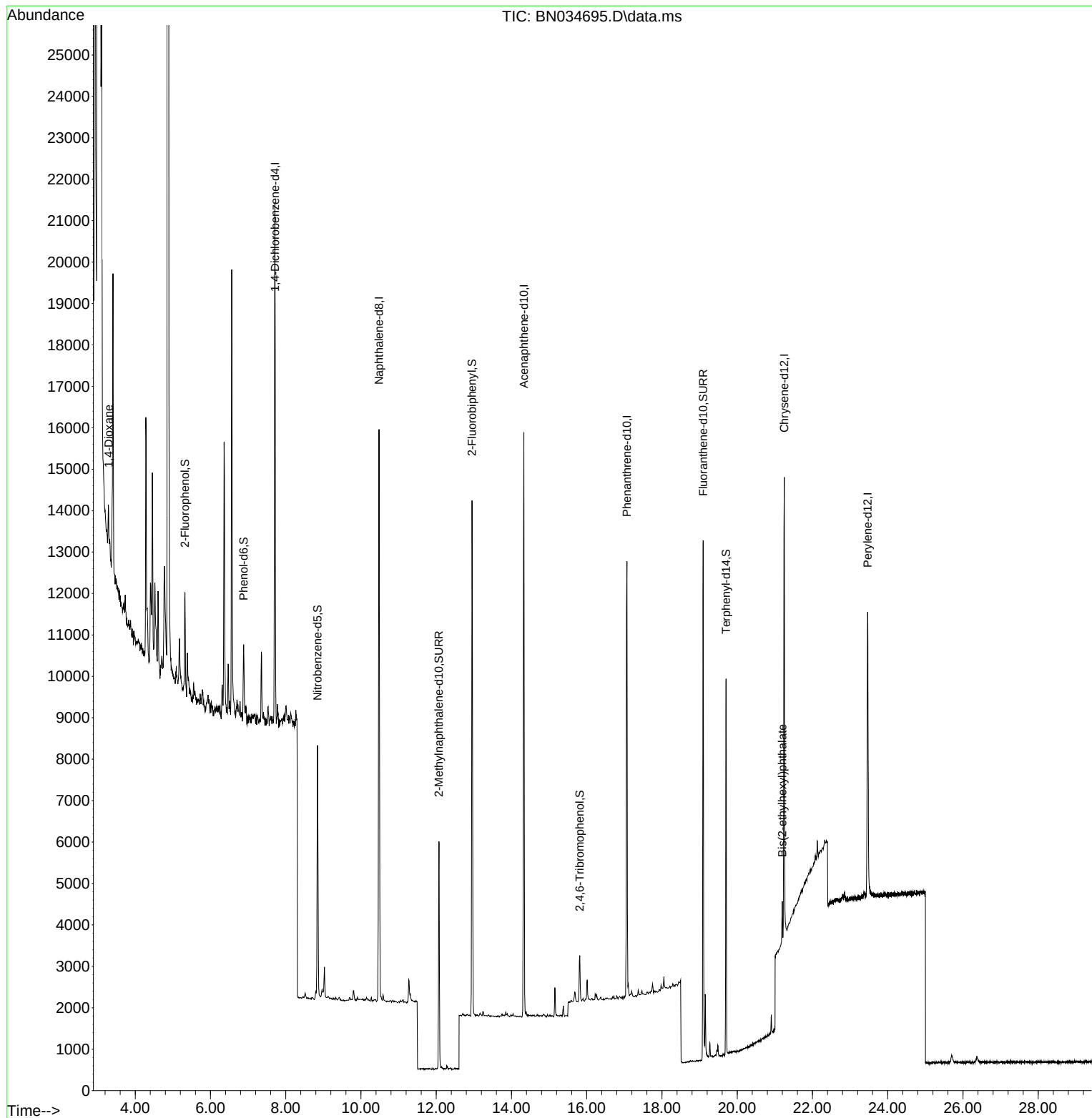
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5914	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16908	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	7800	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	14807	0.400	ng	0.00
29) Chrysene-d12	21.250	240	9773	0.400	ng	0.00
35) Perylene-d12	23.467	264	9243	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	1757	0.100	ng	0.00
5) Phenol-d6	6.882	99	1354	0.058	ng	0.00
8) Nitrobenzene-d5	8.845	82	4584	0.323	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	7315	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	590	0.245	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	10555	0.341	ng	0.00
27) Fluoranthene-d10	19.094	212	12010	0.360	ng	0.00
31) Terphenyl-d14	19.703	244	7193	0.360	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.292	88	652	0.083	ng	97
34) Bis(2-ethylhexyl)phtha...	21.196	149	1166	0.055	ng	96

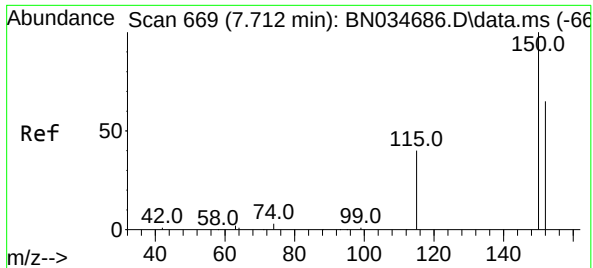
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034695.D
Acq On : 24 Oct 2024 16:41
Operator : RC/JU
Sample : P4428-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

Quant Time: Oct 24 17:25:38 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

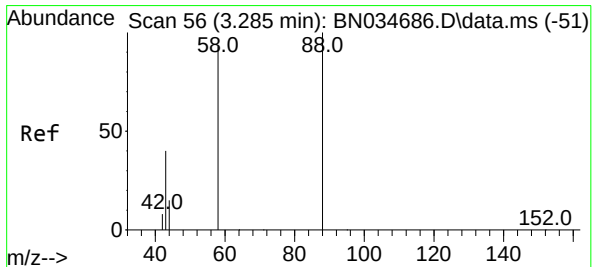
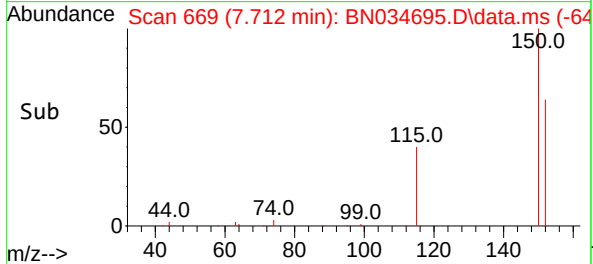
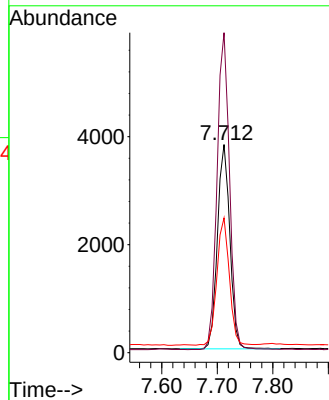
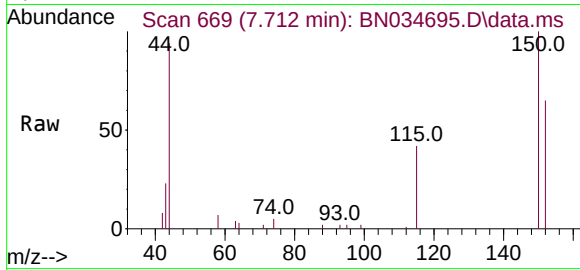




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

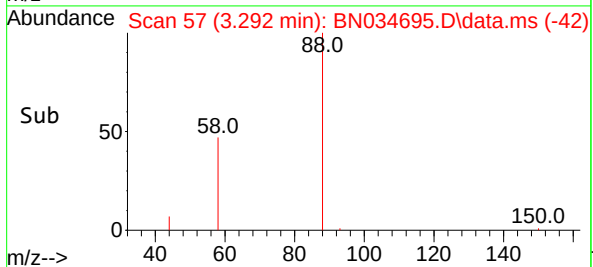
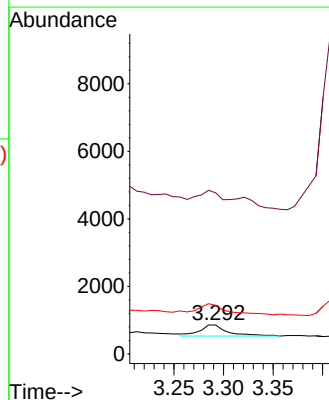
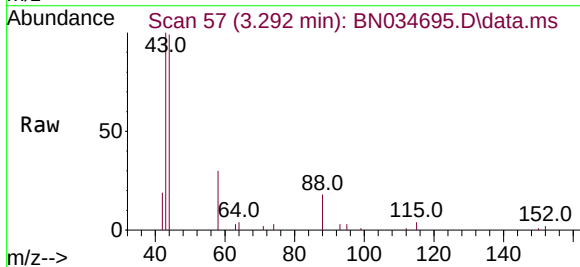
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

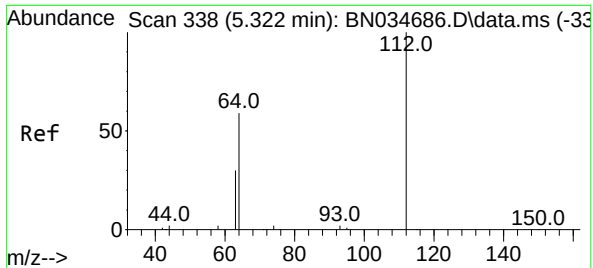
Tgt Ion:152 Resp: 5914
Ion Ratio Lower Upper
152 100
150 153.7 122.7 184.1
115 64.7 51.0 76.6



#2
1,4-Dioxane
Concen: 0.083 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.007 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion: 88 Resp: 652
Ion Ratio Lower Upper
88 100
43 45.9 32.1 48.1
58 92.3 73.7 110.5

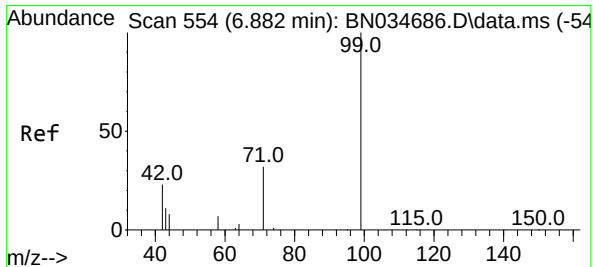
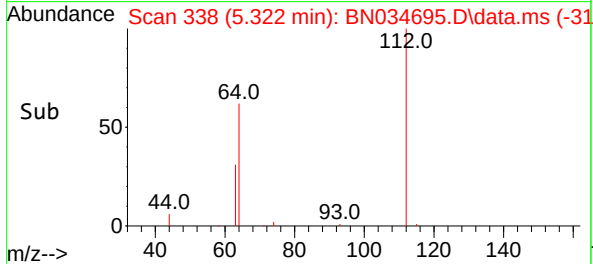
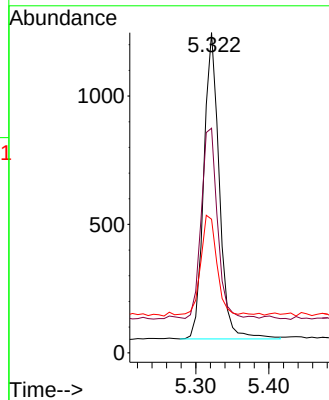
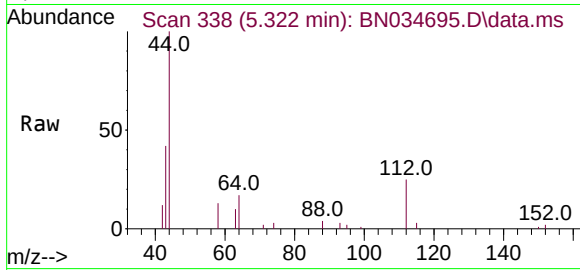




#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.322 min Scan# 311
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

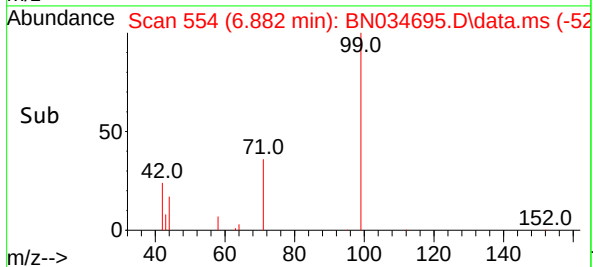
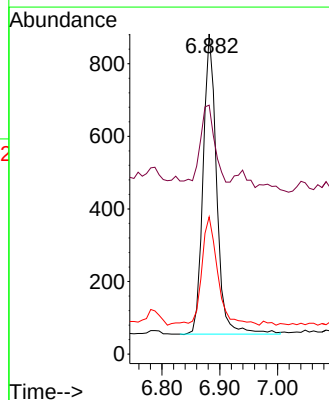
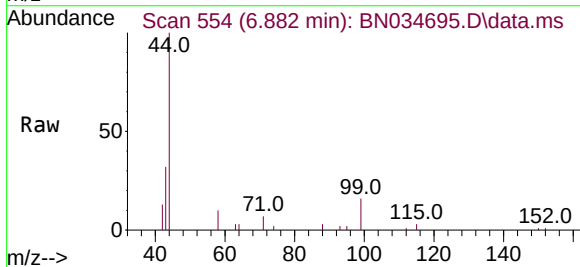
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ClientSampleId :
RW7-SP302-20241016

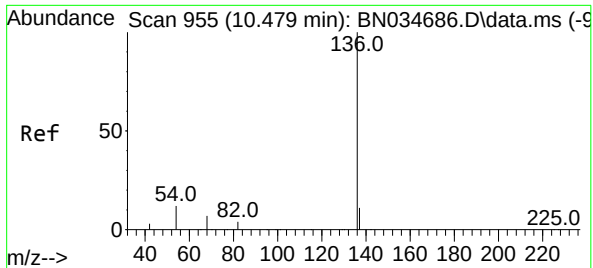
Tgt Ion:112 Resp: 1757
Ion Ratio Lower Upper
112 100
64 64.8 53.0 79.6
63 32.8 27.6 41.4



#5
Phenol-d6
Concen: 0.058 ng
RT: 6.882 min Scan# 554
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion: 99 Resp: 1354
Ion Ratio Lower Upper
99 100
42 26.7 21.8 32.8
71 42.3 26.6 40.0#

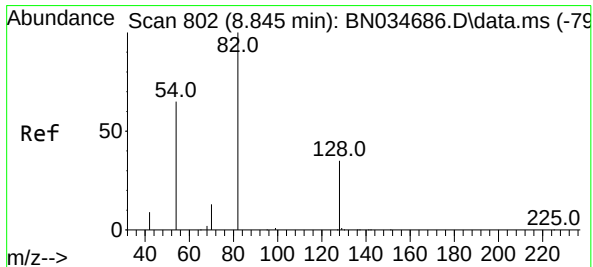
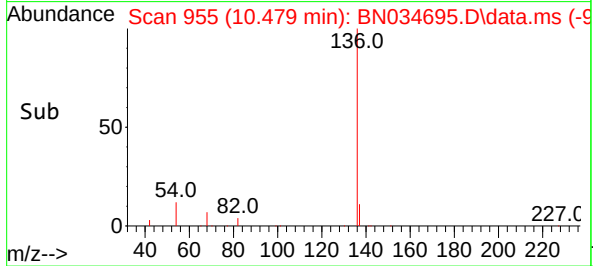
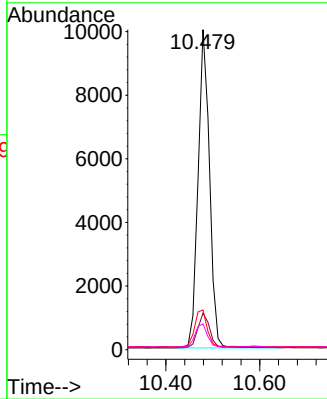
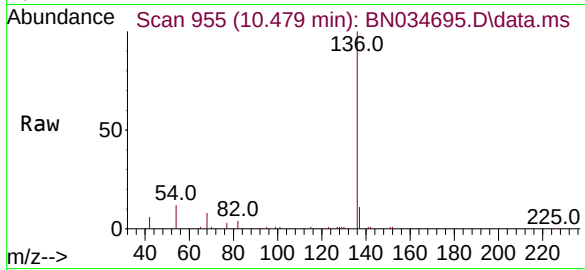




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

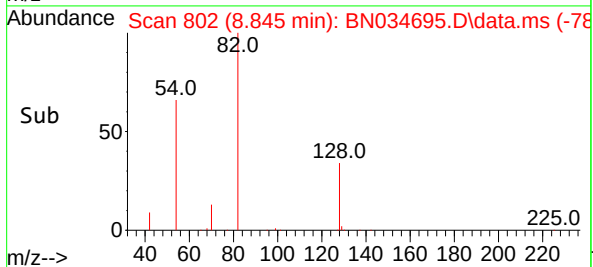
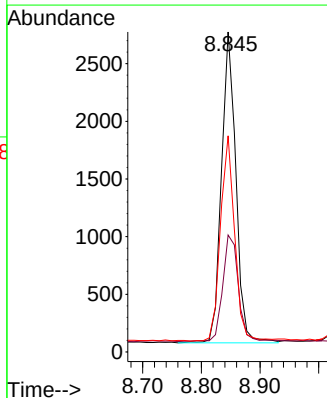
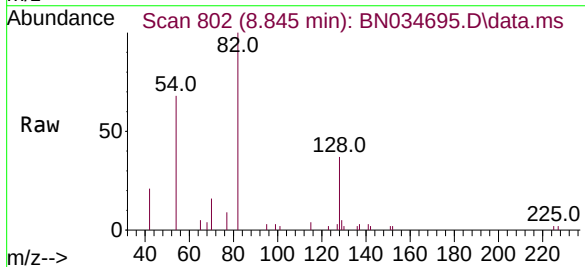
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

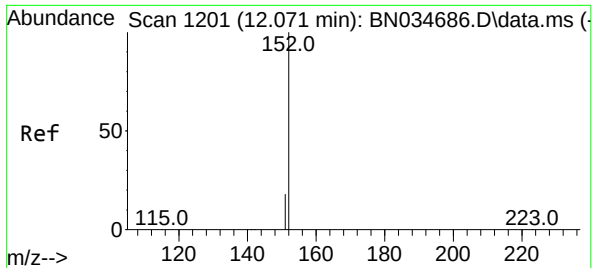
Tgt Ion:	136	Resp:	16908
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.4	9.8	14.8
68	8.1	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion:	82	Resp:	4584
Ion	Ratio	Lower	Upper
82	100		
128	36.6	29.7	44.5
54	67.6	53.0	79.6

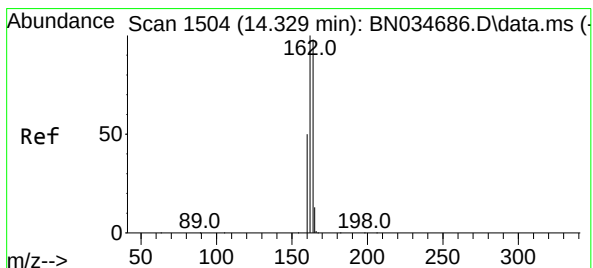
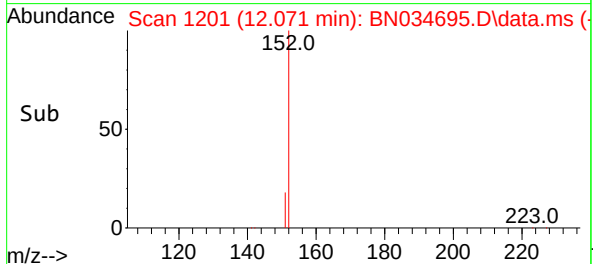
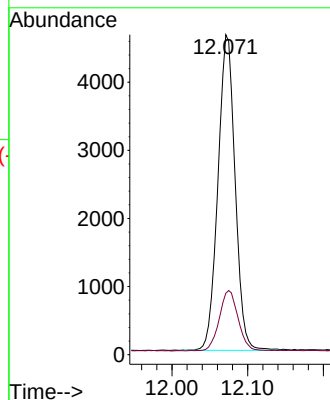
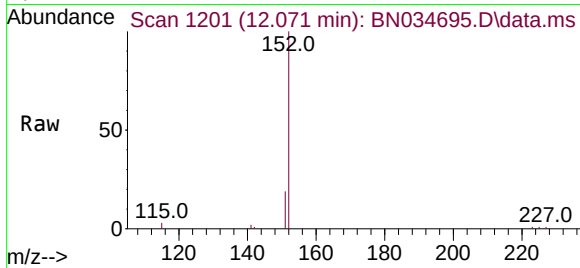




#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

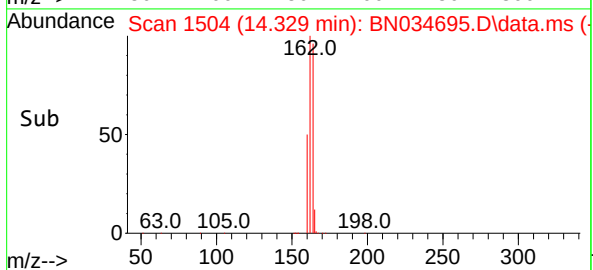
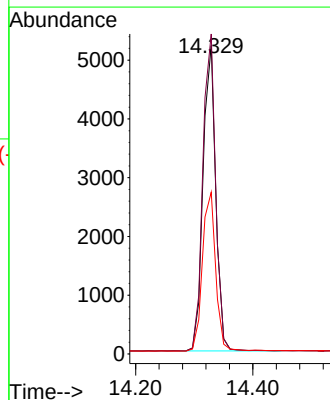
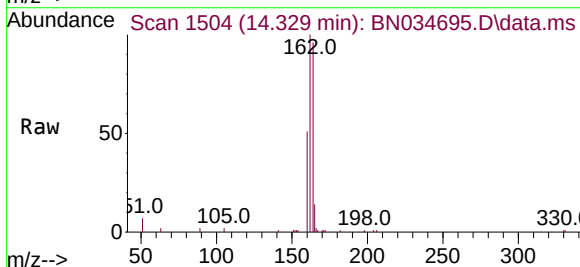
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

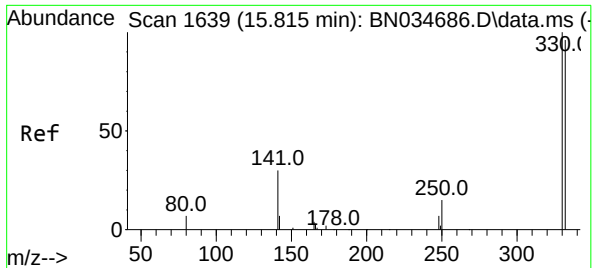
Tgt Ion:152 Resp: 7315
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion:164 Resp: 7800
Ion Ratio Lower Upper
164 100
162 103.8 81.4 122.0
160 52.5 40.6 61.0

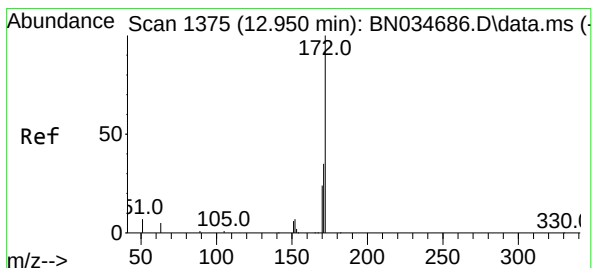
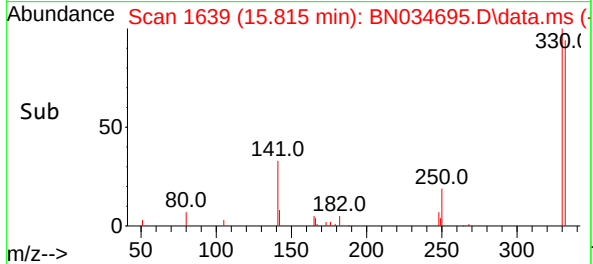
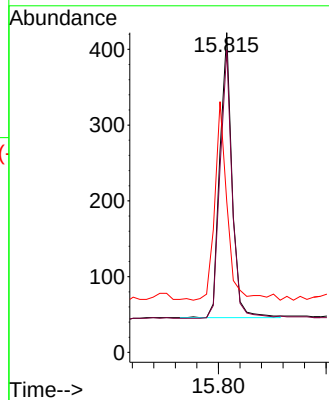
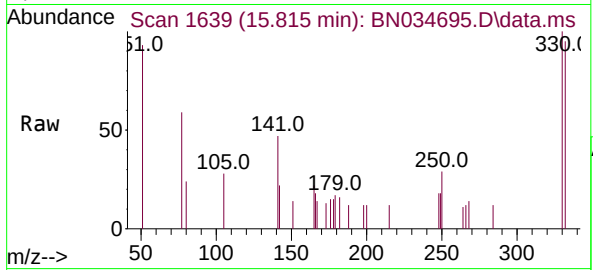




#14
2,4,6-Tribromophenol
Concen: 0.245 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

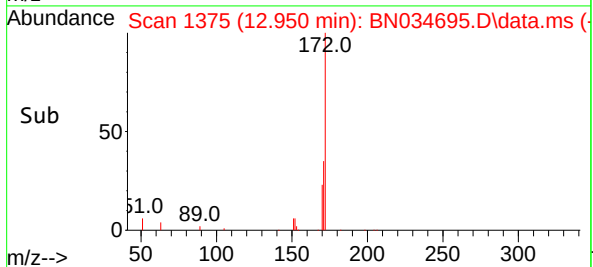
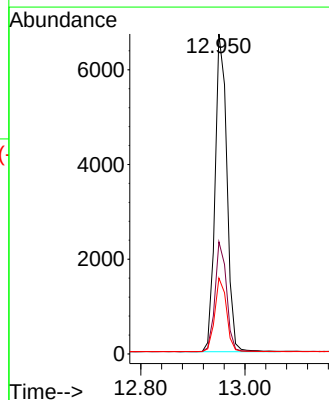
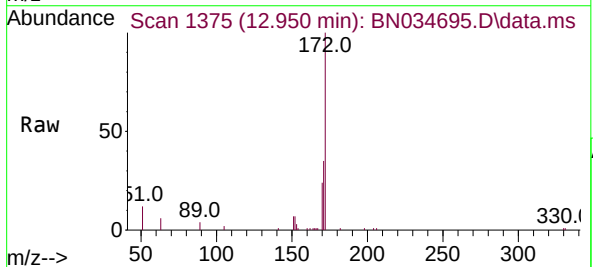
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

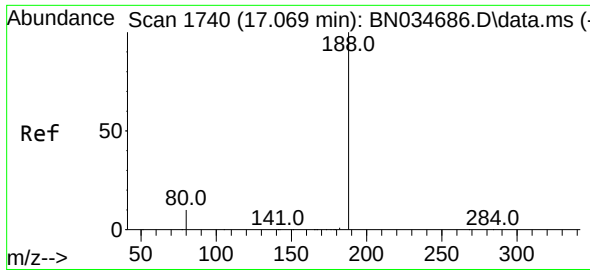
Tgt Ion	330	Resp	590
Ion Ratio	100		
Lower		76.6	115.0
Upper		54.6	81.8



#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion	172	Resp	10555
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower		28.3	42.5
Upper		19.8	29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN034695.D

Acq: 24 Oct 2024 16:41

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20241016

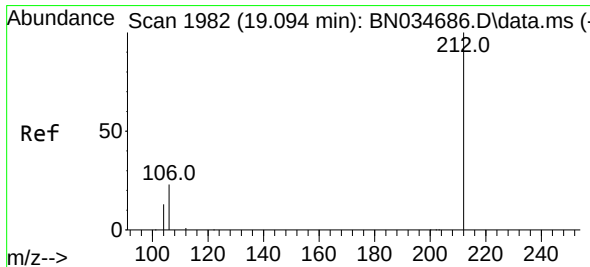
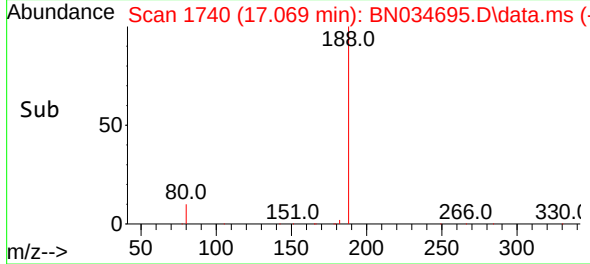
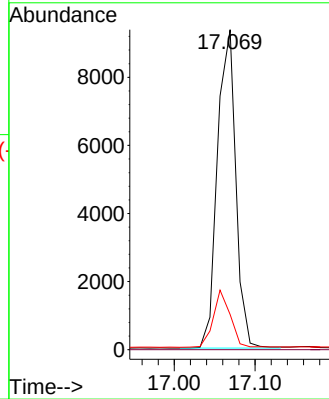
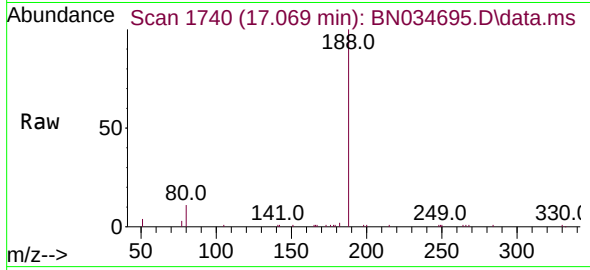
Tgt Ion:188 Resp: 14807

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.9 13.3



#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034695.D

Acq: 24 Oct 2024 16:41

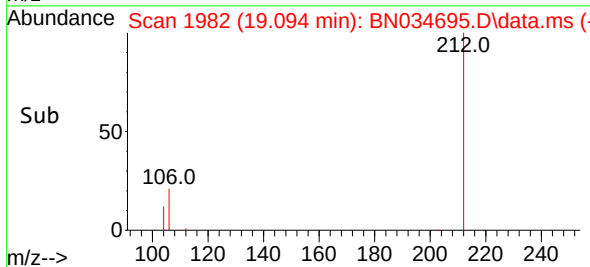
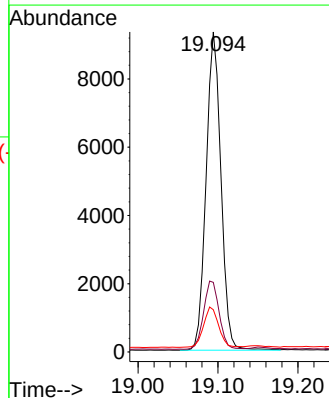
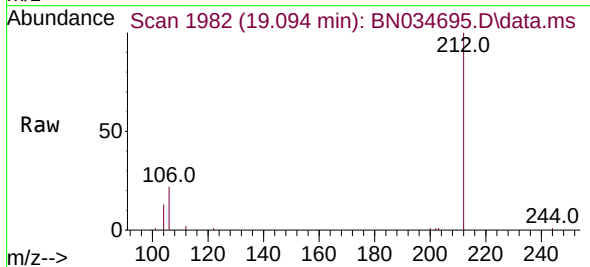
Tgt Ion:212 Resp: 12010

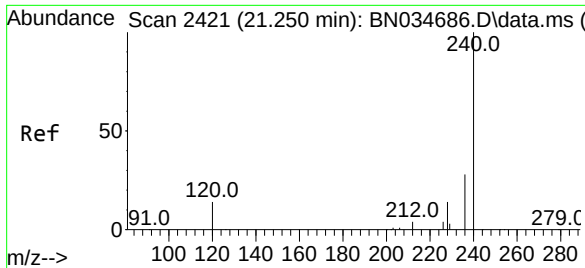
Ion Ratio Lower Upper

212 100

106 22.3 17.8 26.8

104 12.9 10.2 15.4

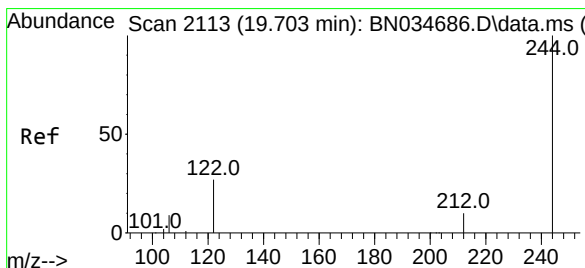
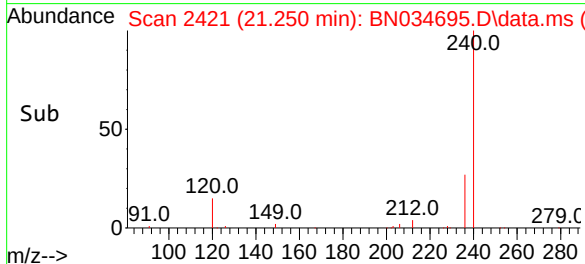
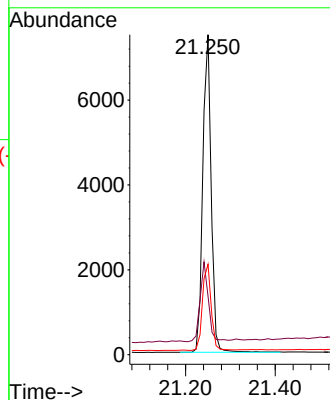
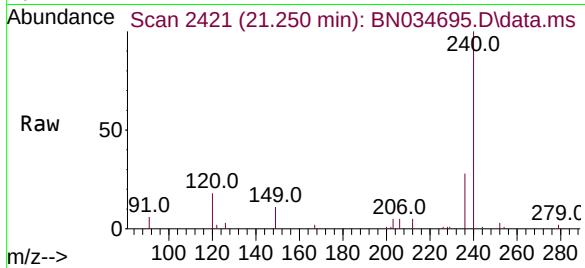




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

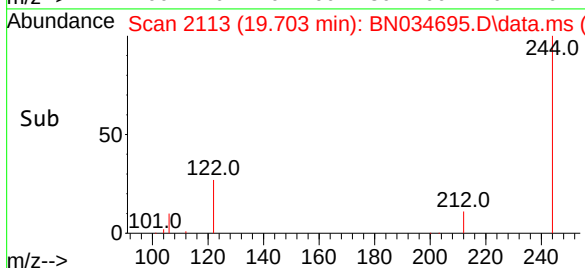
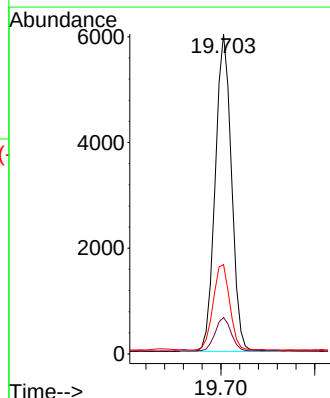
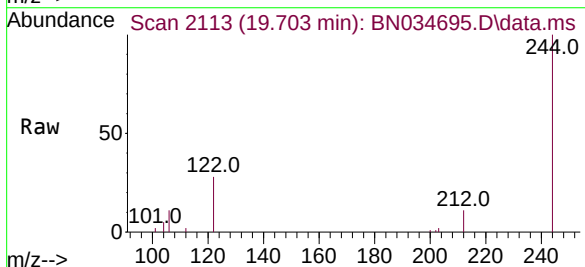
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

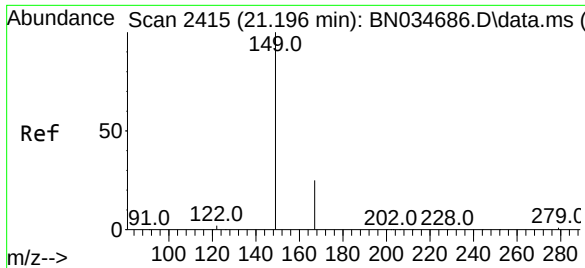
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.2	21.2
236	28.2	23.1	34.7



#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.6	13.0
122	28.0	22.3	33.5

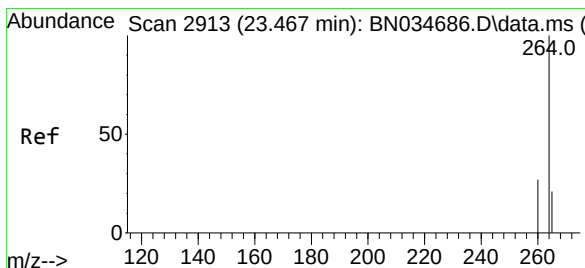
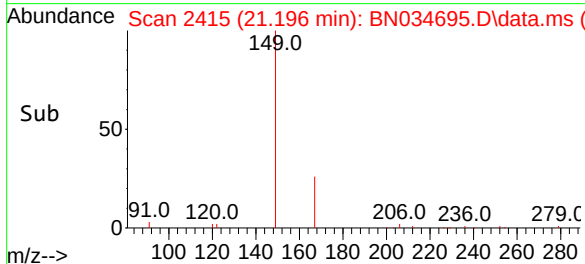
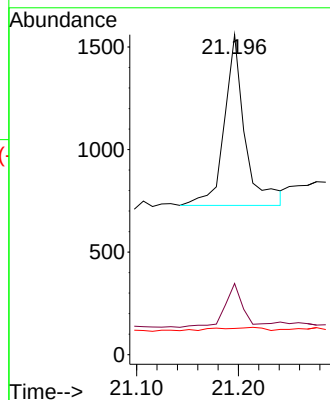
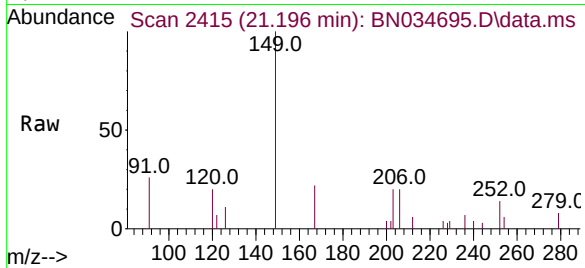




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.055 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034695.D
Acq: 24 Oct 2024 16:41

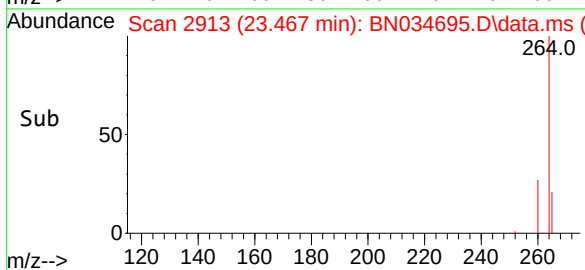
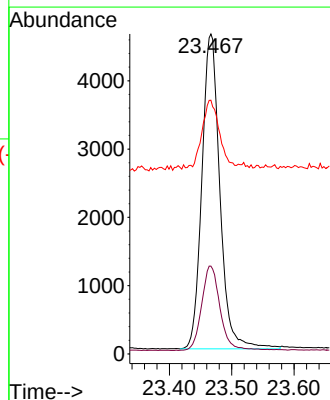
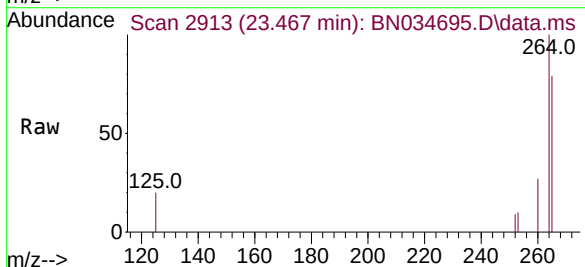
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241016

Tgt Ion:149 Resp: 1166
Ion Ratio Lower Upper
149 100
167 22.5 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: BN034695.D
Acq: 24 Oct 2024 16:41

Tgt Ion:264 Resp: 9243
Ion Ratio Lower Upper
264 100
260 27.4 21.9 32.9
265 79.3 60.6 91.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/24
Project:	CTO WE13	Date Received:	10/17/24
Client Sample ID:	RW7-SP303-20241016	SDG No.:	P4428
Lab Sample ID:	P4428-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034696.D	1	10/17/24 13:55	10/24/24 17:18	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6340	7.712				
1146-65-2	Naphthalene-d8	18200	10.479				
15067-26-2	Acenaphthene-d10	8400	14.329				
1517-22-2	Phenanthrene-d10	14900	17.069				
1719-03-5	Chrysene-d12	8920	21.25				
1520-96-3	Perylene-d12	8250	23.464				

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\BN102424\
Data File : BN034696.D
Acq On : 24 Oct 2024 17:18
Operator : RC/JU
Sample : P4428-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

Quant Time: Oct 24 17:57:00 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

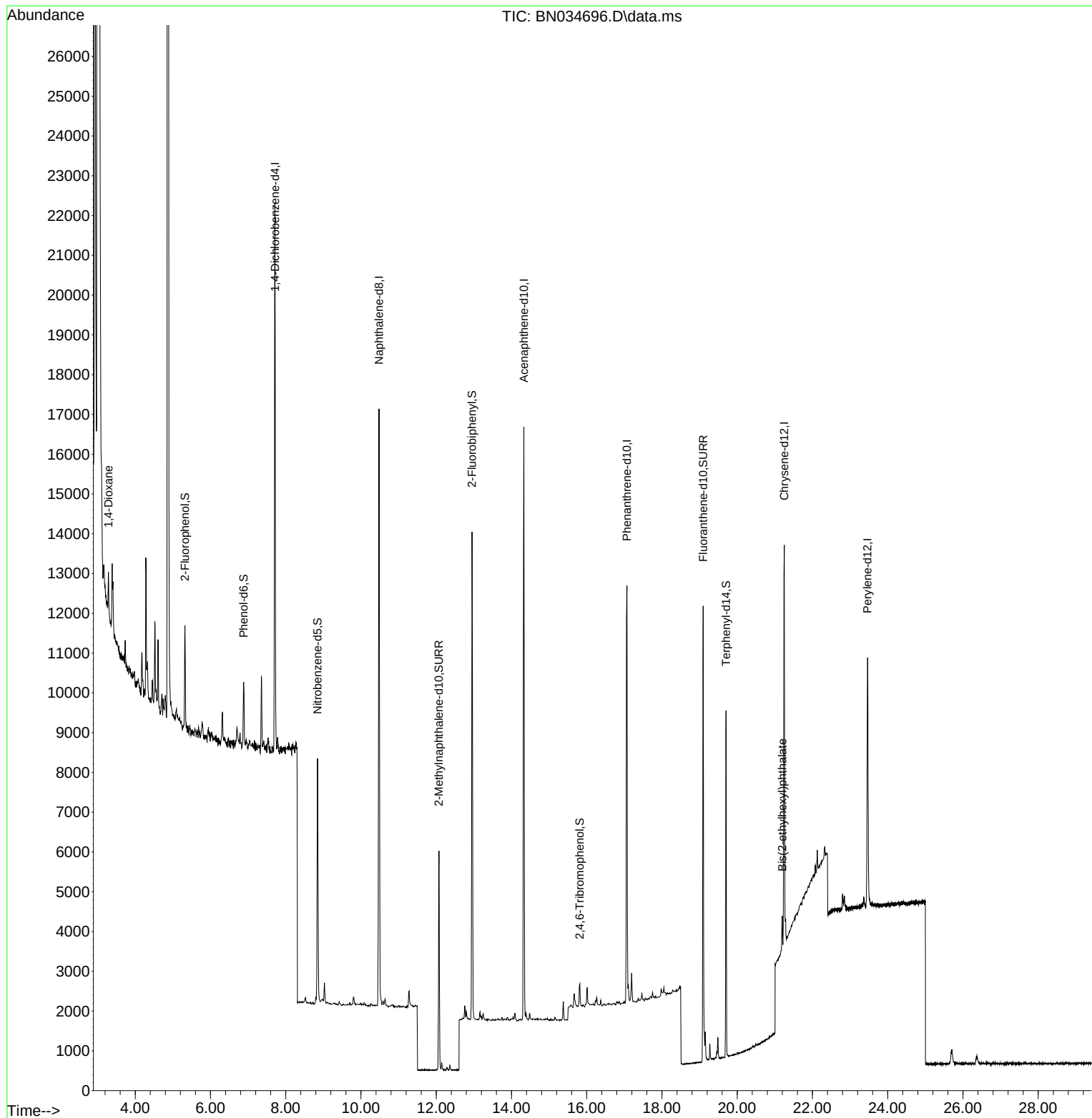
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6342	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18201	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	8400	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	14880	0.400	ng	0.00
29) Chrysene-d12	21.250	240	8915	0.400	ng	0.00
35) Perylene-d12	23.464	264	8250	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	1816	0.096	ng	0.00
5) Phenol-d6	6.882	99	1422	0.057	ng	0.00
8) Nitrobenzene-d5	8.845	82	4560	0.299	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	7363	0.294	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	329	0.127	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	10497	0.314	ng	0.00
27) Fluoranthene-d10	19.094	212	11113	0.332	ng	0.00
31) Terphenyl-d14	19.703	244	6788	0.373	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.285	88	529	0.063	ng	# 30
34) Bis(2-ethylhexyl)phtha...	21.196	149	967	0.050	ng	# 93

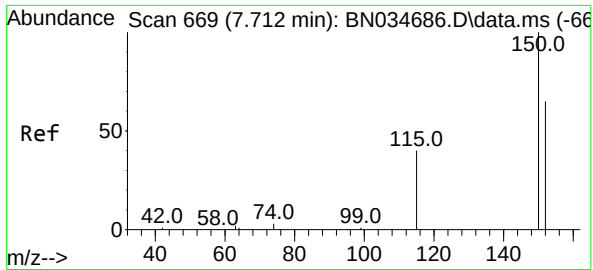
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034696.D
Acq On : 24 Oct 2024 17:18
Operator : RC/JU
Sample : P4428-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

Quant Time: Oct 24 17:57:00 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

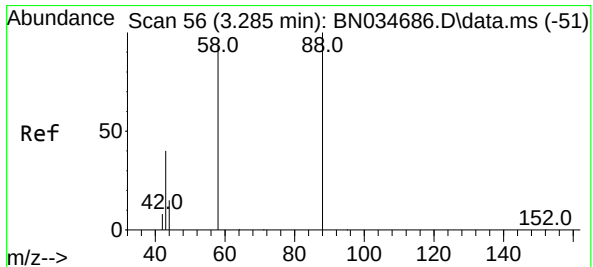
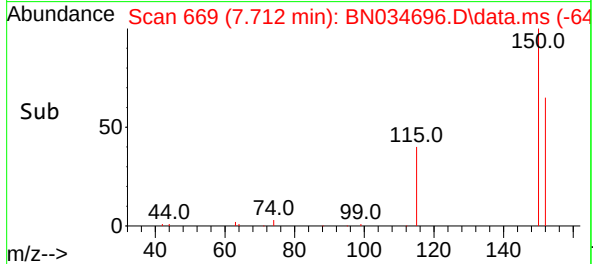
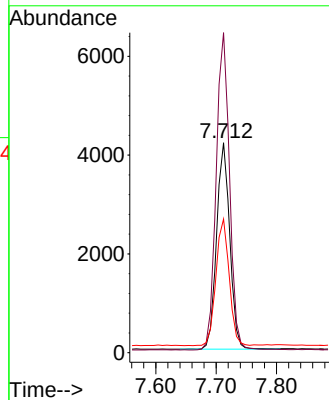
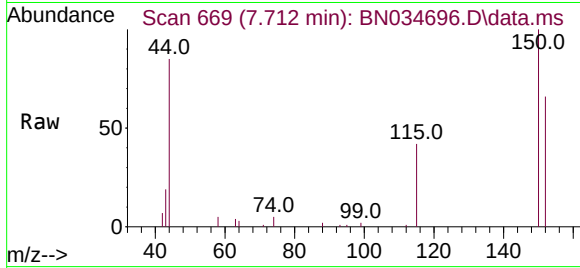




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

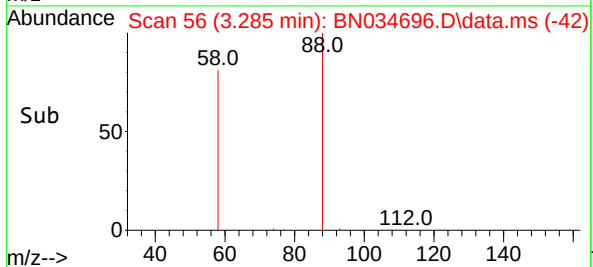
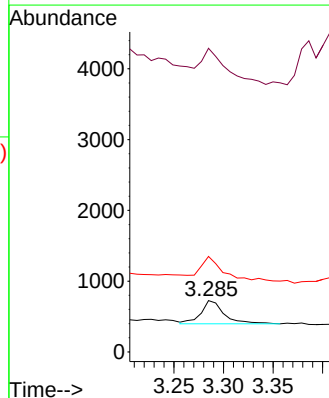
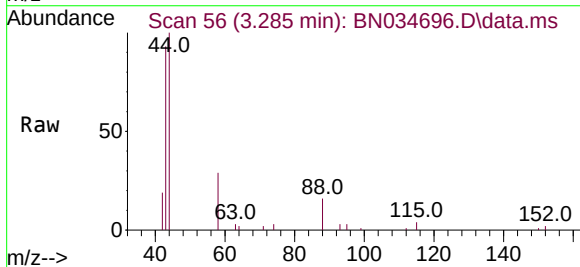
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

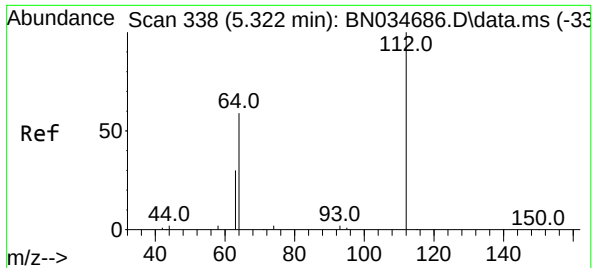
Tgt Ion:152 Resp: 6342
Ion Ratio Lower Upper
152 100
150 152.4 122.7 184.1
115 63.7 51.0 76.6



#2
1,4-Dioxane
Concen: 0.063 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion: 88 Resp: 529
Ion Ratio Lower Upper
88 100
43 163.3 32.1 48.1#
58 104.7 73.7 110.5





#4

2-Fluorophenol

Concen: 0.096 ng

RT: 5.322 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034696.D

Acq: 24 Oct 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241016

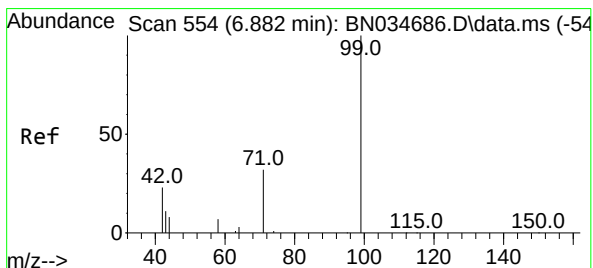
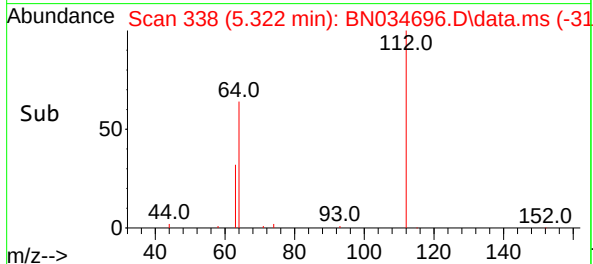
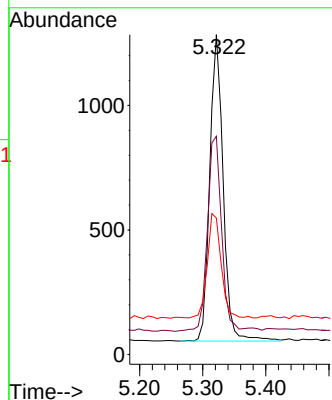
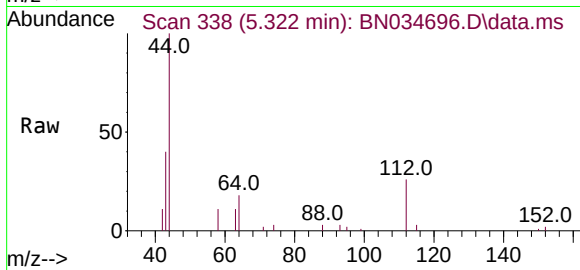
Tgt Ion:112 Resp: 1816

Ion Ratio Lower Upper

112 100

64 66.7 53.0 79.6

63 35.0 27.6 41.4



#5

Phenol-d6

Concen: 0.057 ng

RT: 6.882 min Scan# 554

Delta R.T. 0.000 min

Lab File: BN034696.D

Acq: 24 Oct 2024 17:18

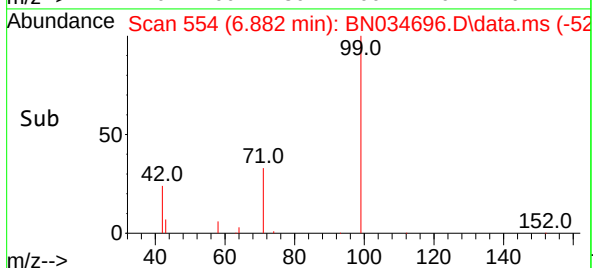
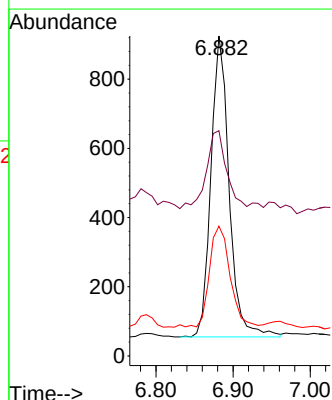
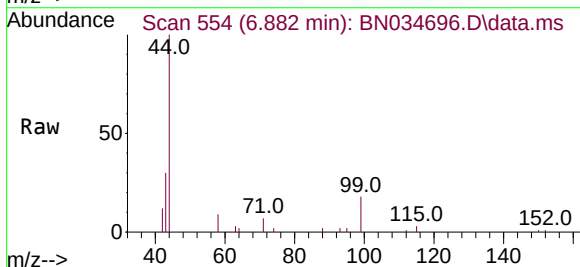
Tgt Ion: 99 Resp: 1422

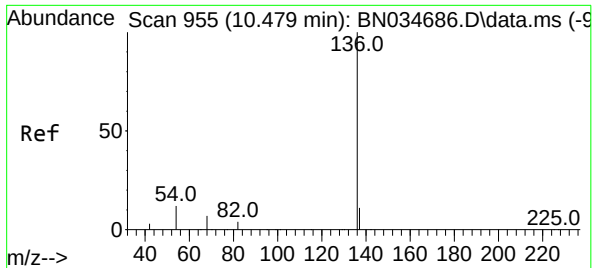
Ion Ratio Lower Upper

99 100

42 28.6 21.8 32.8

71 39.4 26.6 40.0

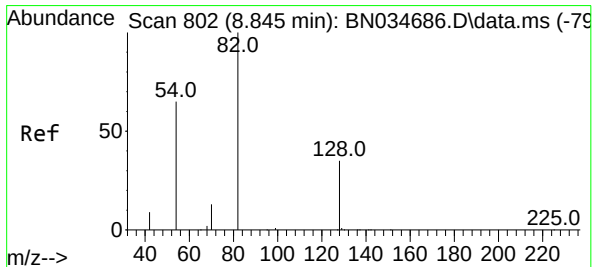
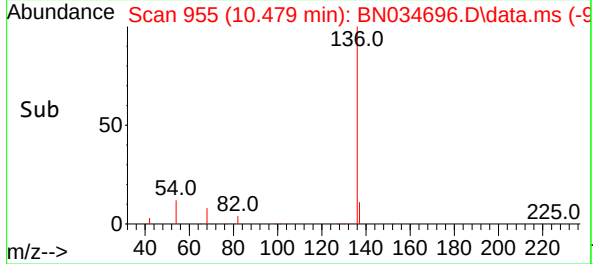
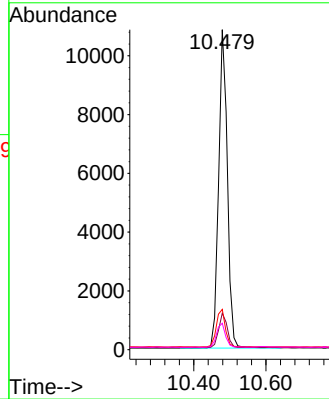
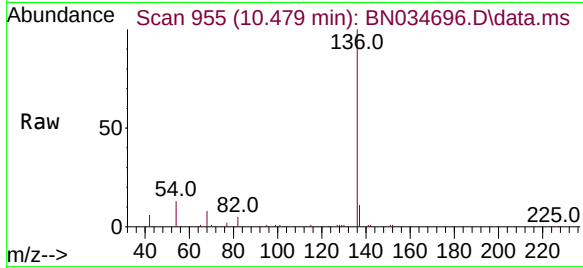




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

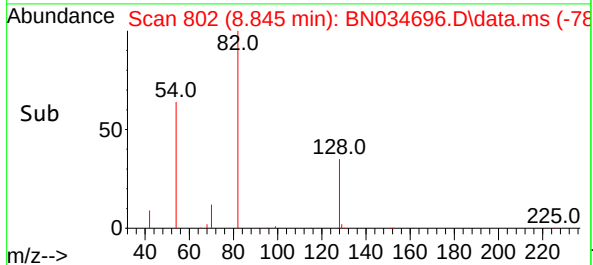
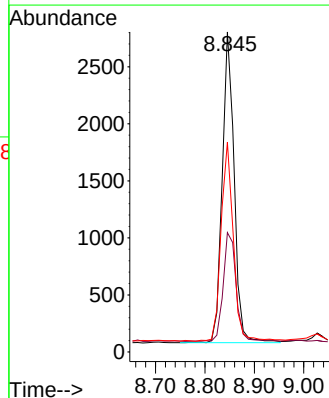
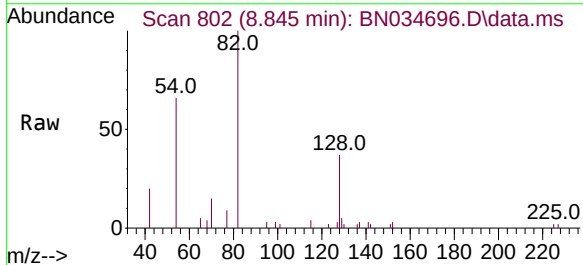
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

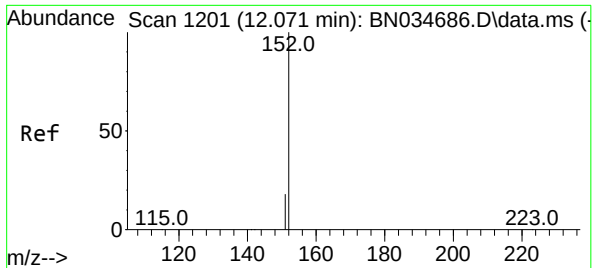
Tgt Ion:	136	Resp:	18201
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.6	9.8	14.8
68	8.2	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion:	82	Resp:	4560
Ion	Ratio	Lower	Upper
82	100		
128	37.3	29.7	44.5
54	65.6	53.0	79.6

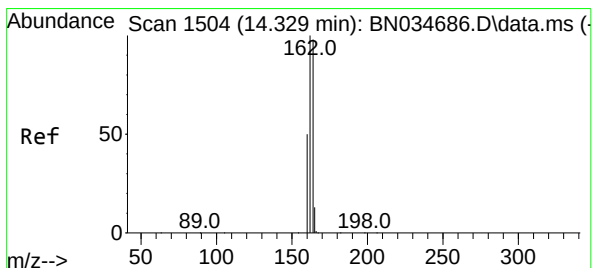
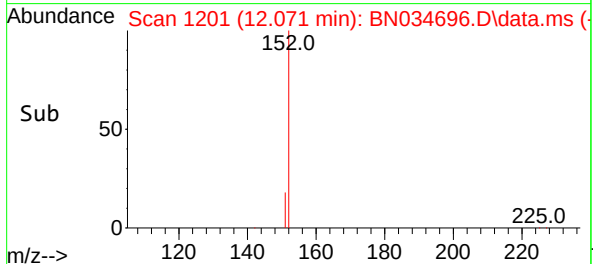
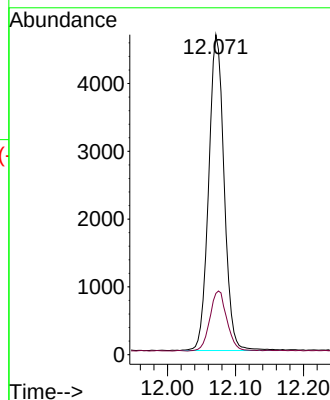
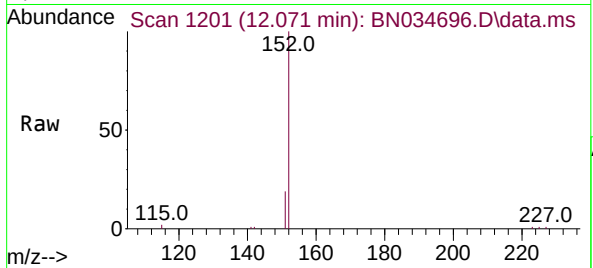




#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

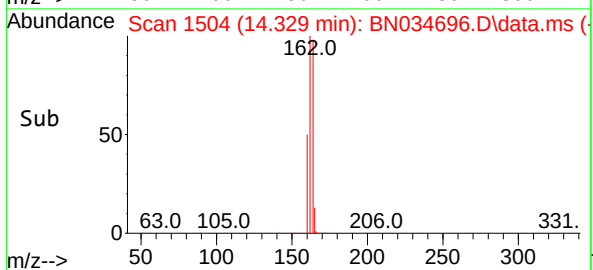
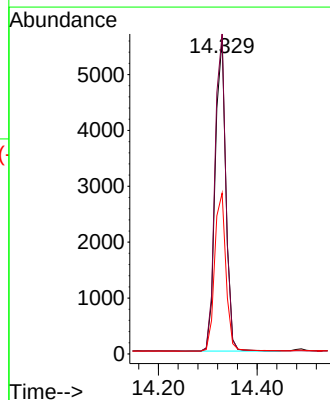
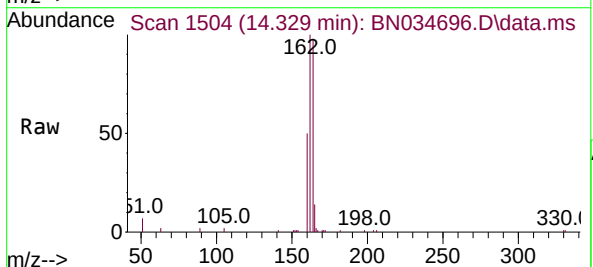
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

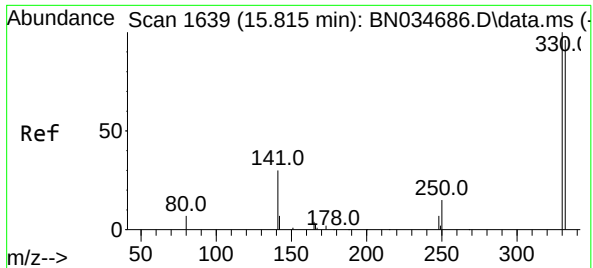
Tgt Ion:152 Resp: 7363
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion:164 Resp: 8400
Ion Ratio Lower Upper
164 100
162 101.5 81.4 122.0
160 51.0 40.6 61.0

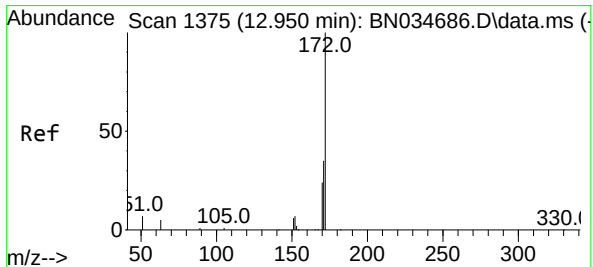
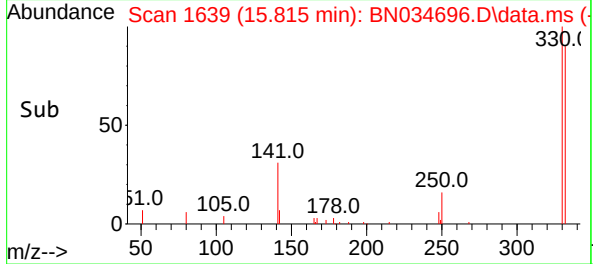
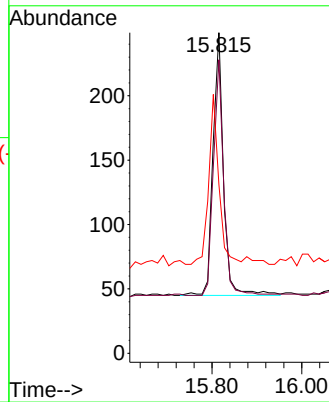
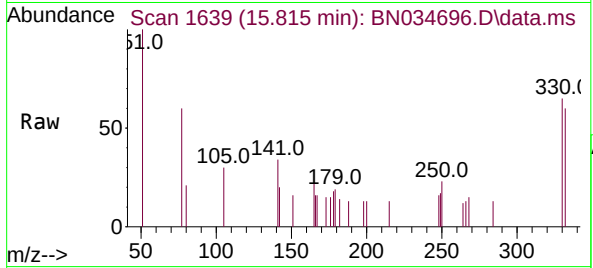




#14
2,4,6-Tribromophenol
Concen: 0.127 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

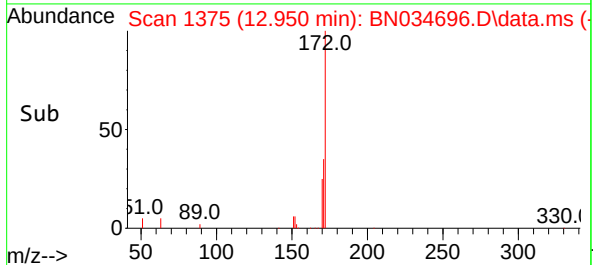
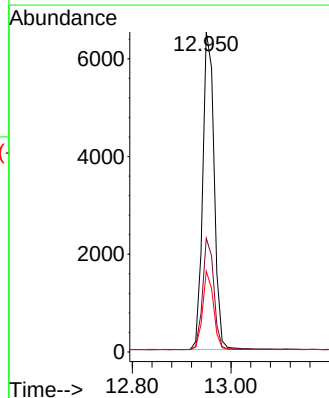
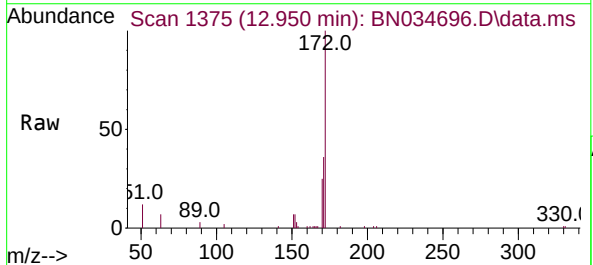
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

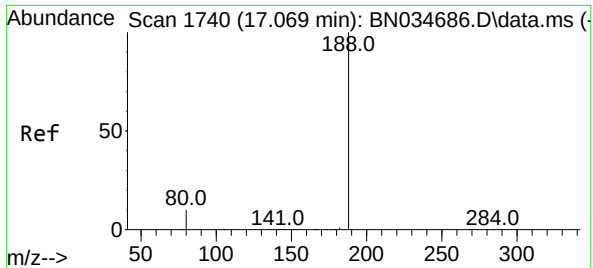
Tgt Ion:330 Resp: 329
Ion Ratio Lower Upper
330 100
332 88.1 76.6 115.0
141 62.9 54.6 81.8



#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion:172 Resp: 10497
Ion Ratio Lower Upper
172 100
171 35.6 28.3 42.5
170 25.2 19.8 29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.069 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN034696.D

Acq: 24 Oct 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241016

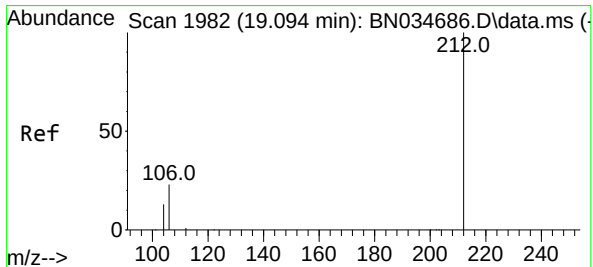
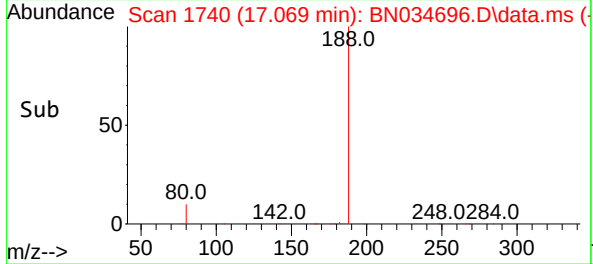
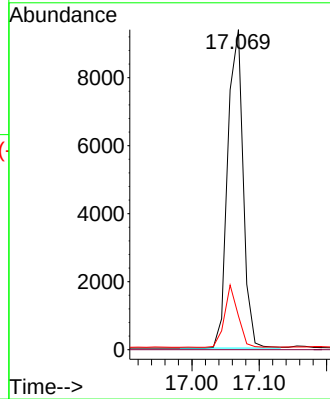
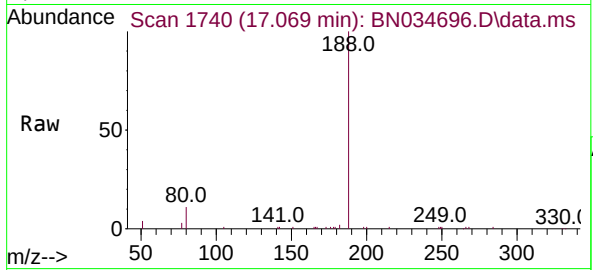
Tgt Ion:188 Resp: 14880

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.9 13.3



#27

Fluoranthene-d10

Concen: 0.332 ng

RT: 19.094 min Scan# 1982

Delta R.T. 0.000 min

Lab File: BN034696.D

Acq: 24 Oct 2024 17:18

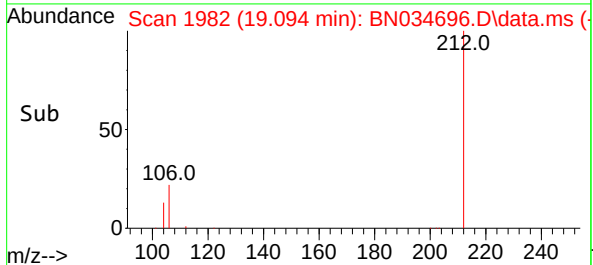
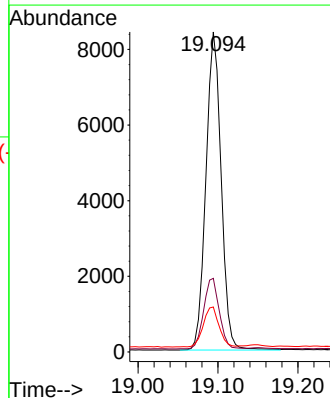
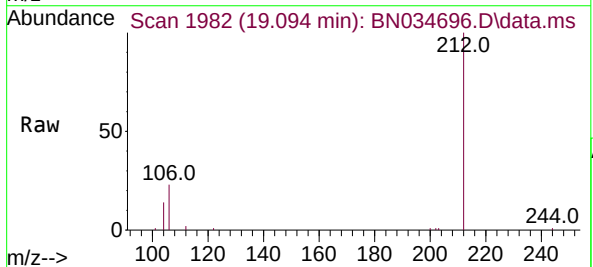
Tgt Ion:212 Resp: 11113

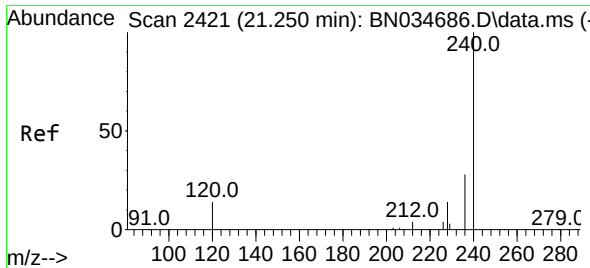
Ion Ratio Lower Upper

212 100

106 22.8 17.8 26.8

104 13.1 10.2 15.4

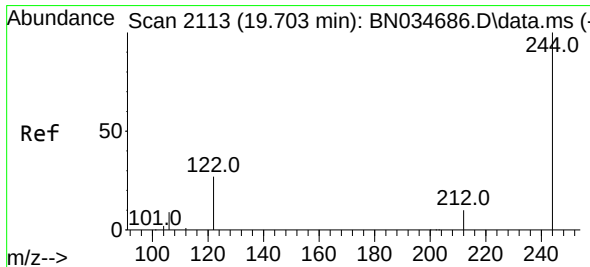
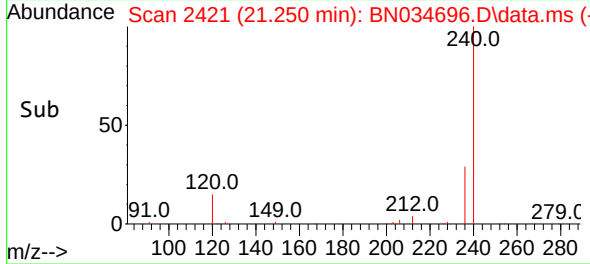
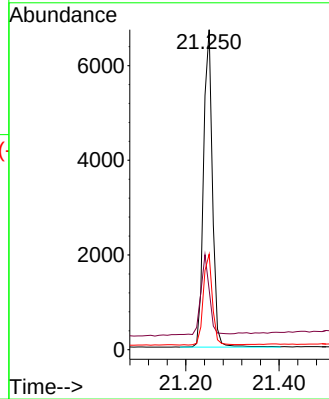
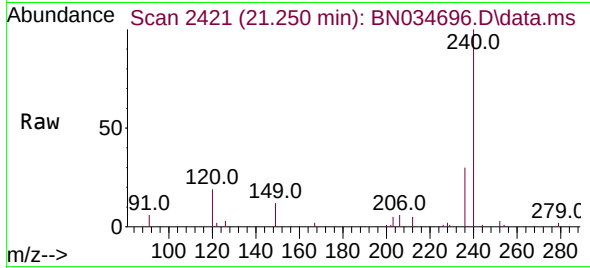




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

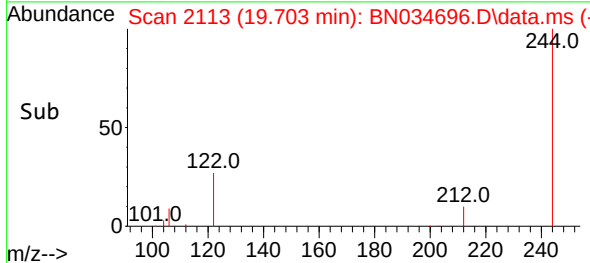
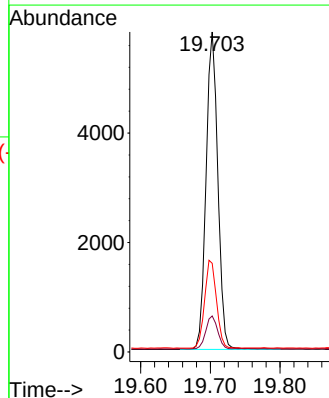
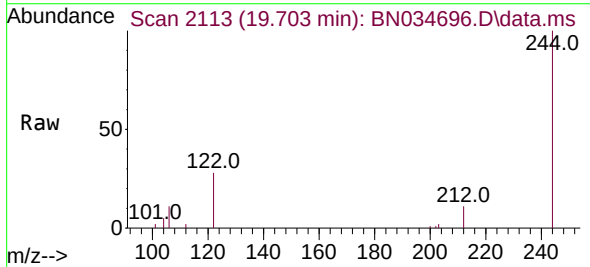
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

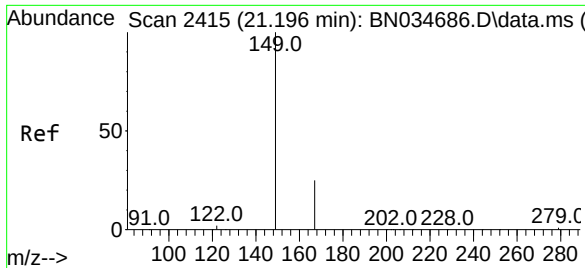
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.7	14.2	21.2
236	29.9	23.1	34.7



#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	8.6	13.0
122	27.7	22.3	33.5

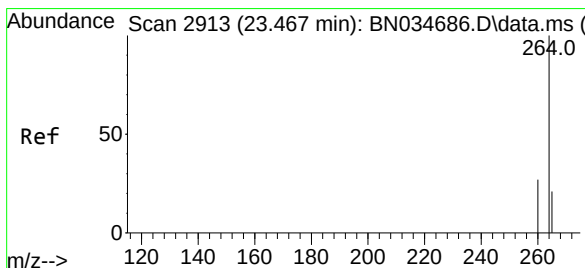
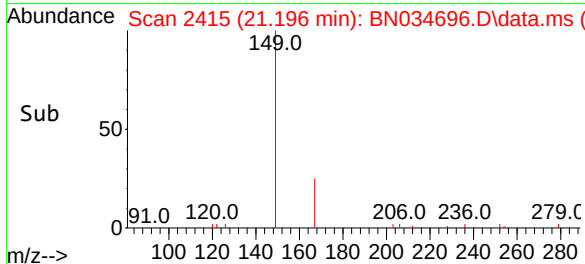
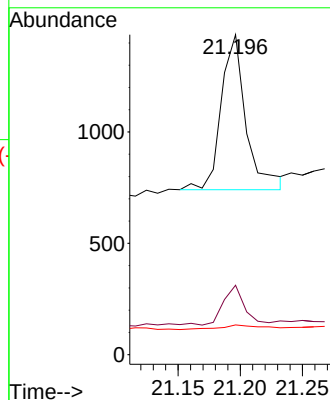
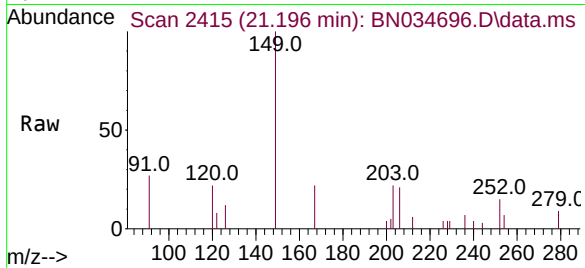




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.050 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

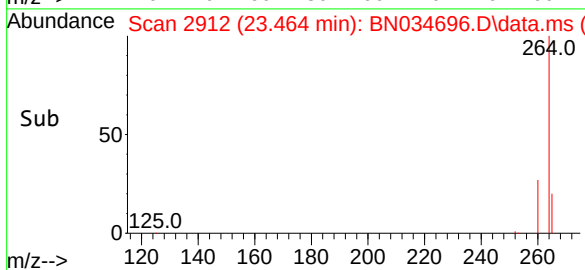
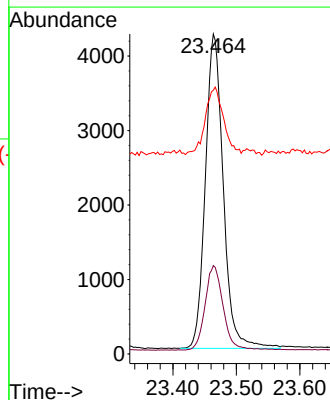
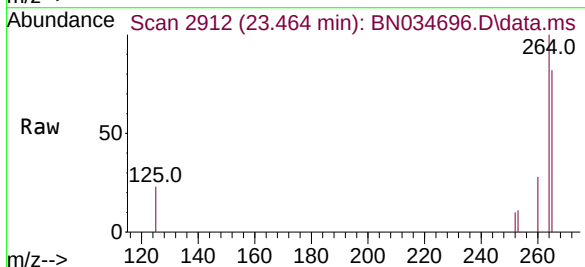
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241016

Tgt Ion:149 Resp: 967
Ion Ratio Lower Upper
149 100
167 21.4 19.7 29.5
279 5.1 1.8 2.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.464 min Scan# 2912
Delta R.T. -0.003 min
Lab File: BN034696.D
Acq: 24 Oct 2024 17:18

Tgt Ion:264 Resp: 8250
Ion Ratio Lower Upper
264 100
260 27.6 21.9 32.9
265 82.4 60.6 91.0





CALIBRATION SUMMARY

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)

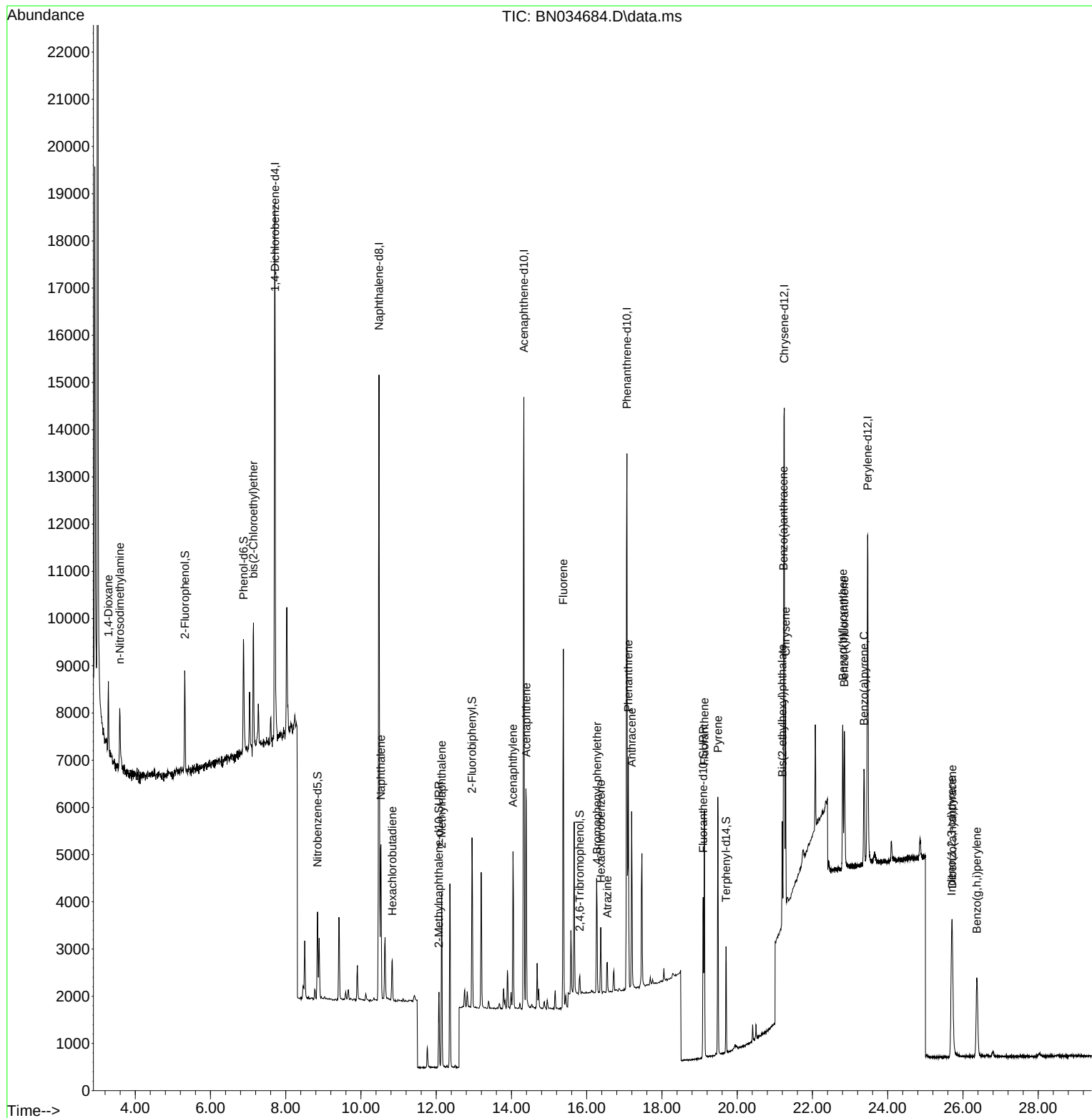
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5558	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16023	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	7436	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	15281	0.400	ng	0.00
29) Chrysene-d12	21.250	240	9023	0.400	ng	0.00
35) Perylene-d12	23.467	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						
						Qvalue
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

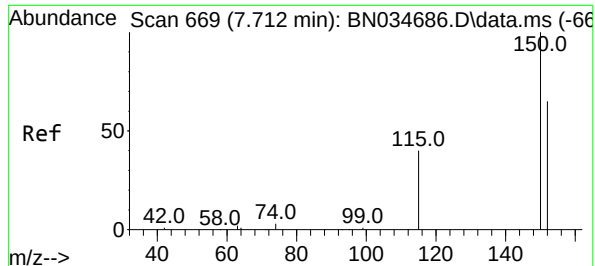
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

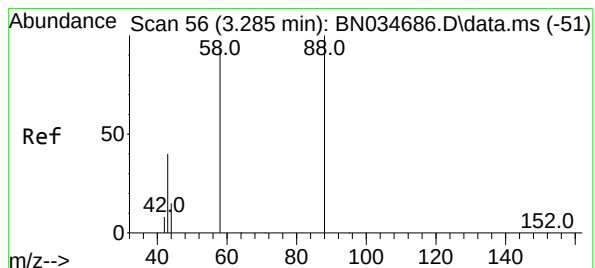
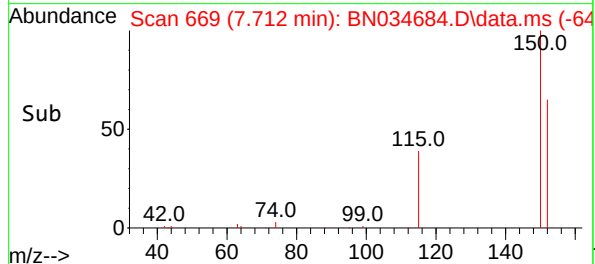
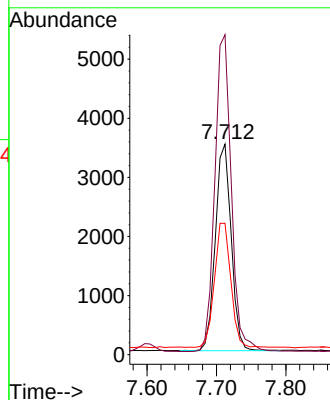
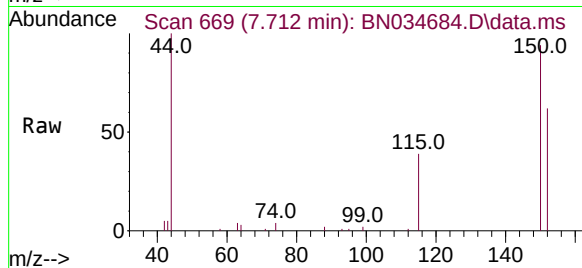




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

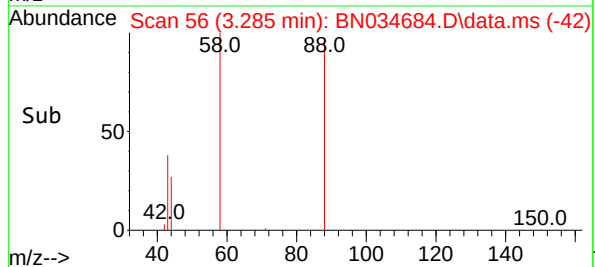
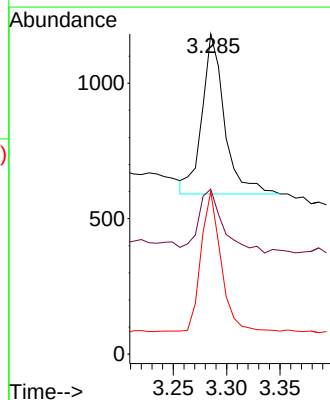
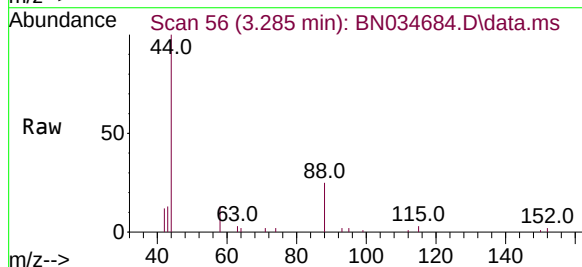
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

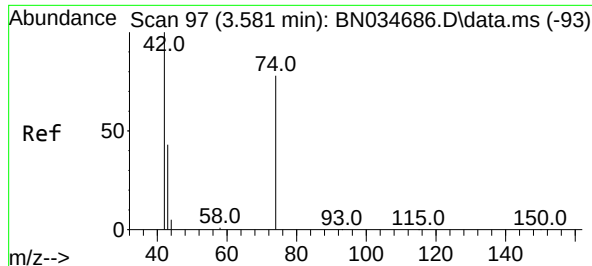
Tgt Ion:152 Resp: 5558
Ion Ratio Lower Upper
152 100
150 152.0 122.7 184.1
115 62.4 51.0 76.6



#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

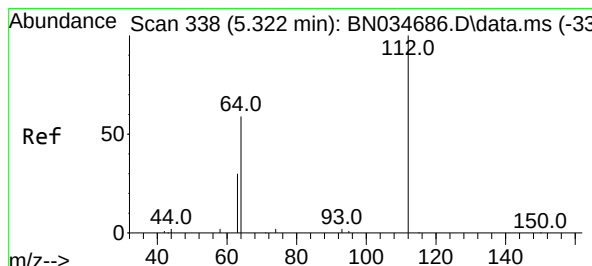
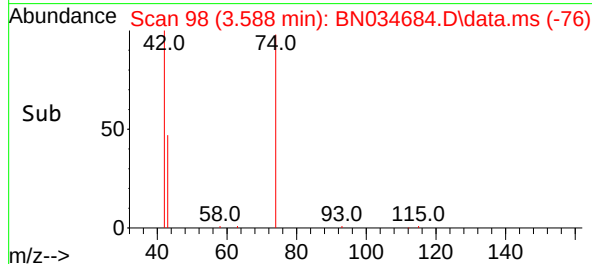
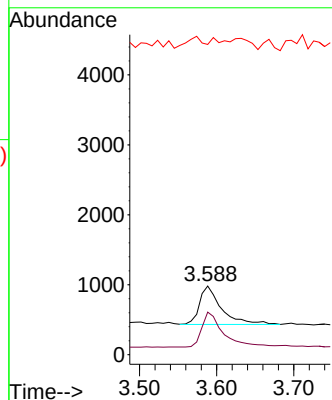
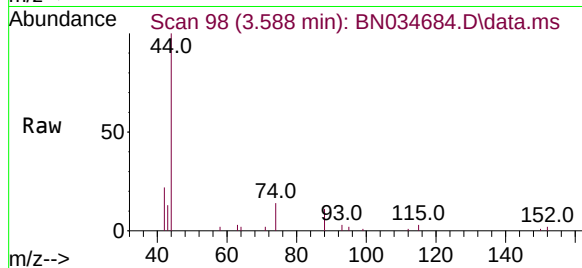




#3
n-Nitrosodimethylamine
Concen: 0.132 ng
RT: 3.588 min Scan# 91
Delta R.T. 0.007 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

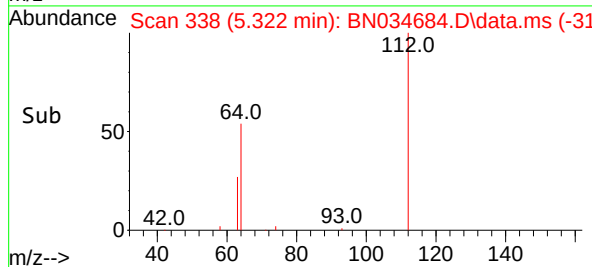
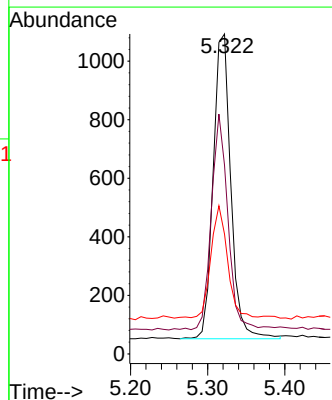
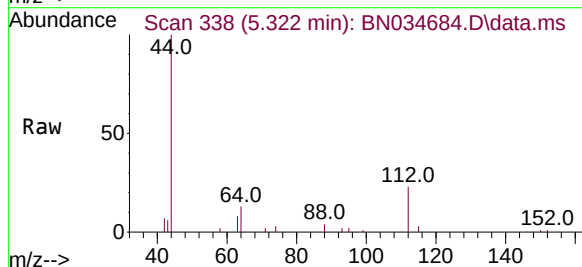
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BNA_N
ClientSampleId :
SSTDICC0.1

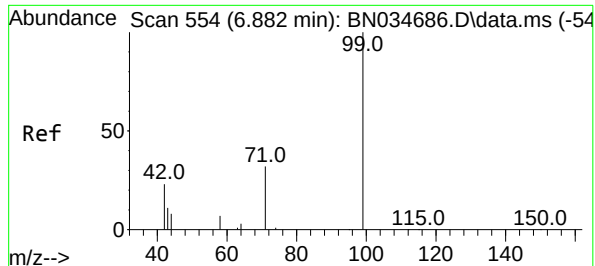
Tgt Ion: 42 Resp: 1077
Ion Ratio Lower Upper
42 100
74 93.9 77.2 115.8
44 8.6 13.4 20.2#



#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

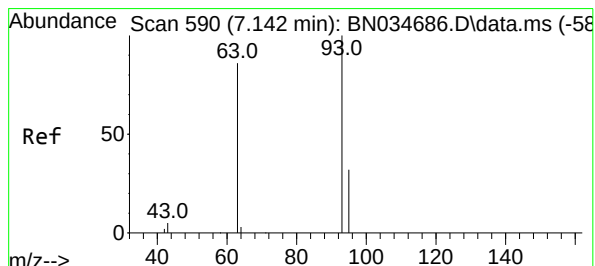
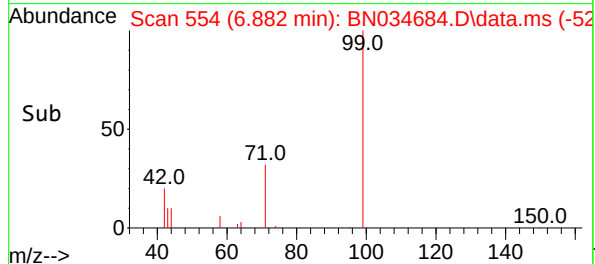
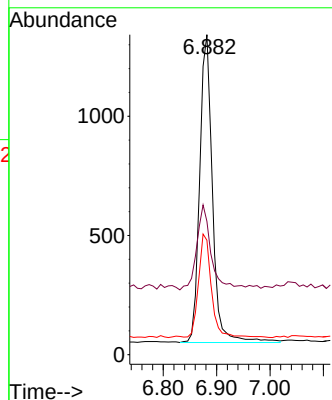
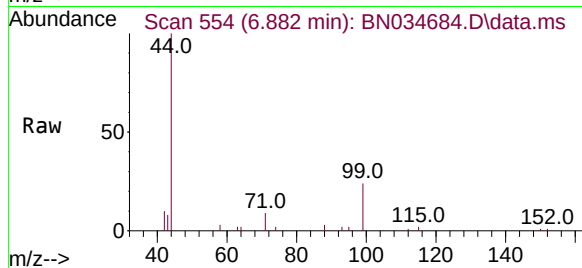




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

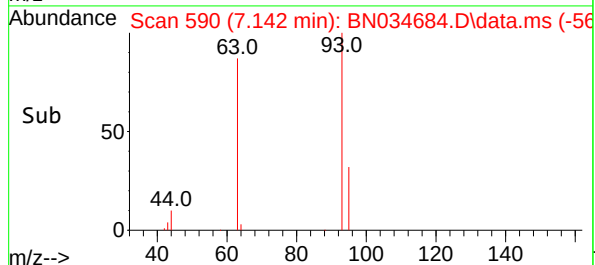
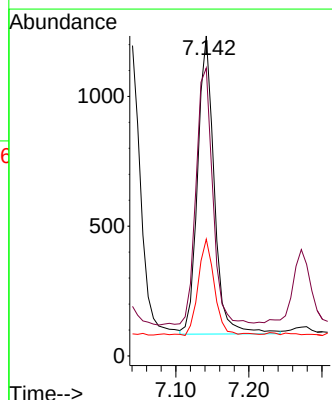
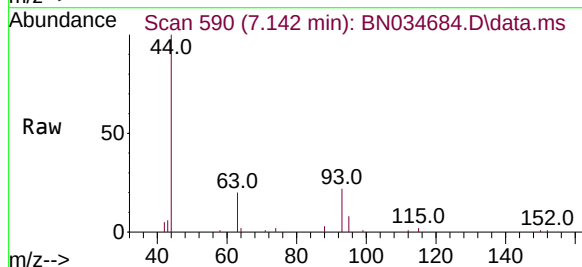
Instrument :
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ClientSampleId :
SSTDICC0.1

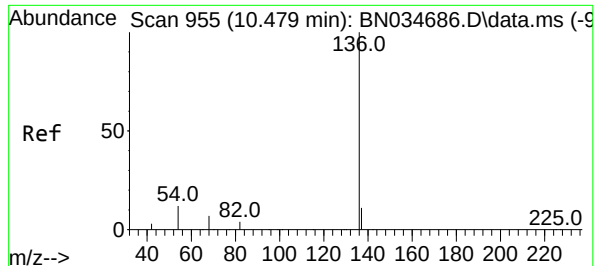
Tgt Ion: 99 Resp: 2162
Ion Ratio Lower Upper
99 100
42 31.1 21.8 32.8
71 33.9 26.6 40.0



#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

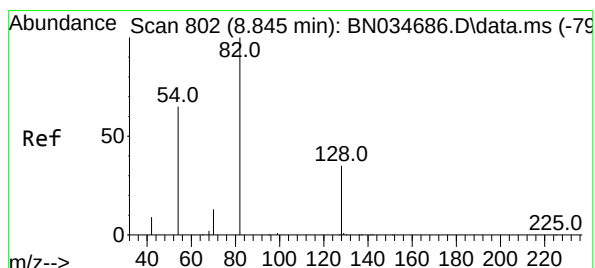
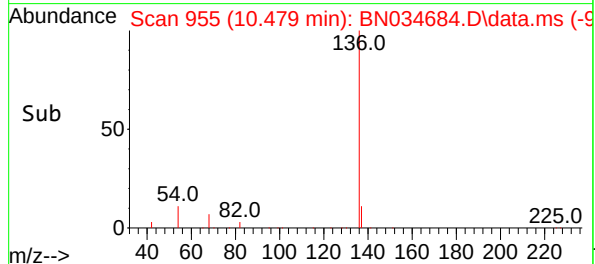
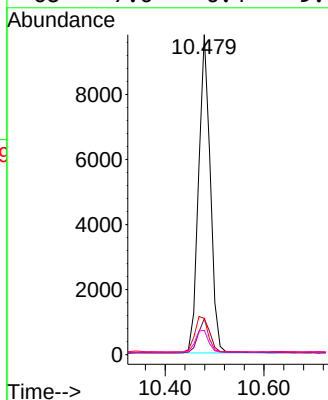
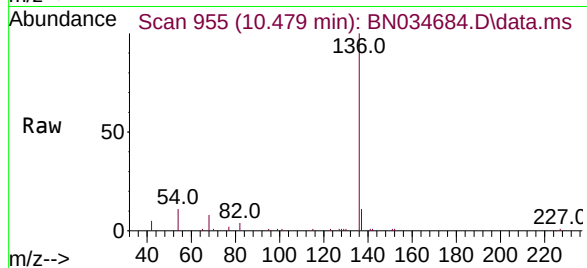




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

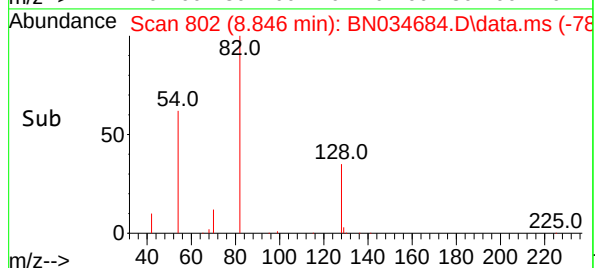
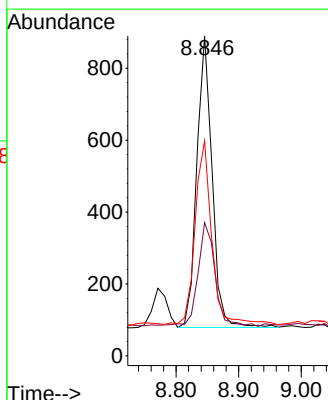
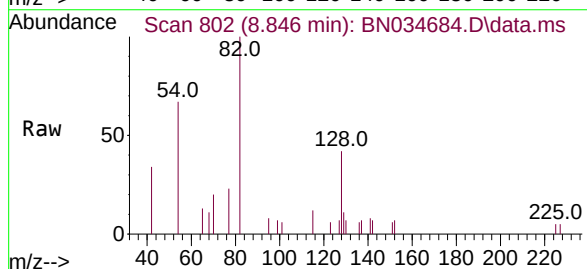
Instrument :
BNA_N
ClientSampleId :
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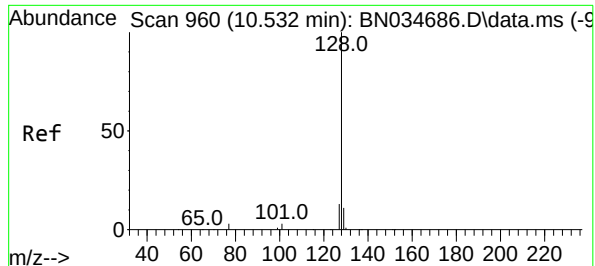
Tgt Ion	136	Resp	16023
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	11.3	9.8	14.8
68	7.6	6.4	9.6



#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

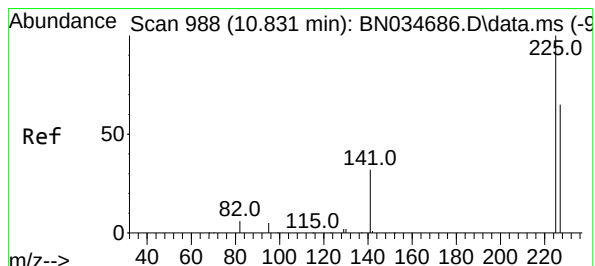
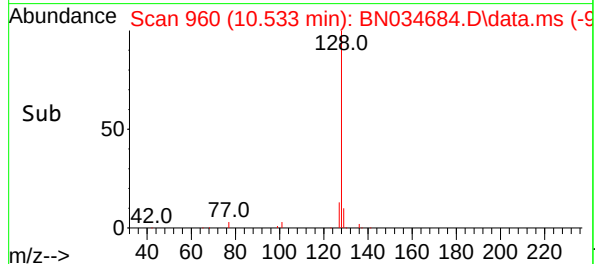
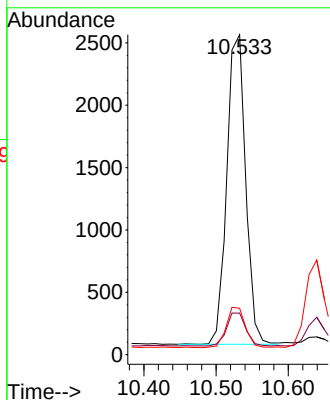
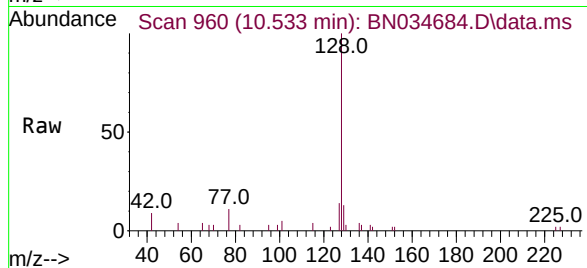




#9
Naphthalene
Concen: 0.102 ng
RT: 10.533 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

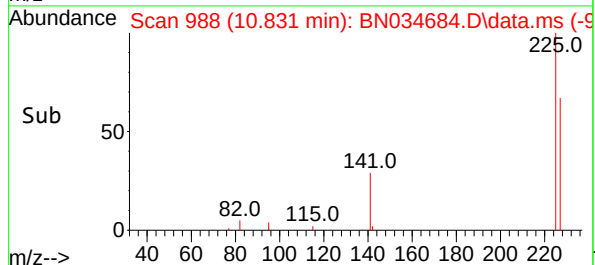
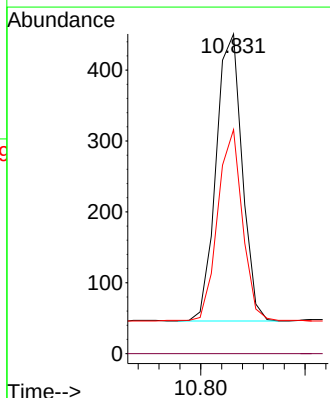
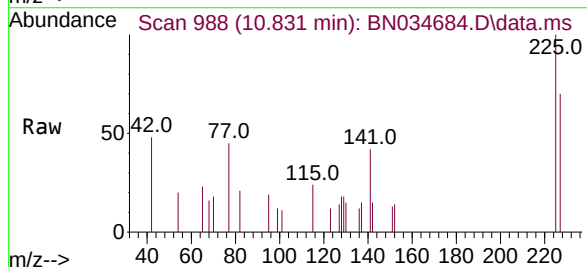
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

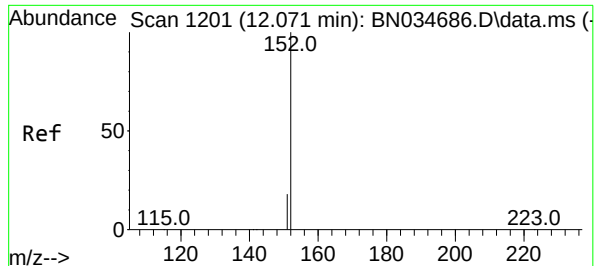
Tgt Ion:128 Resp: 4509
Ion Ratio Lower Upper
128 100
129 13.0 9.0 13.6
127 14.5 10.5 15.7



#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

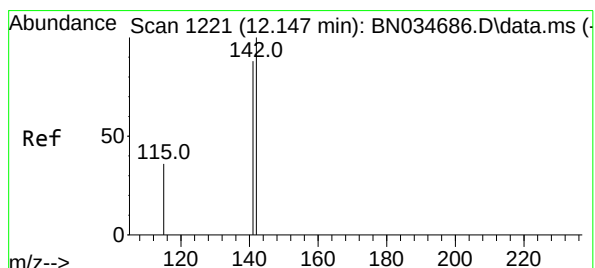
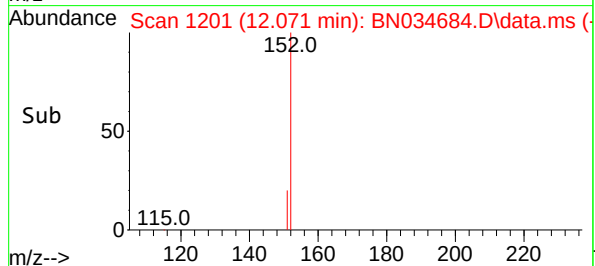
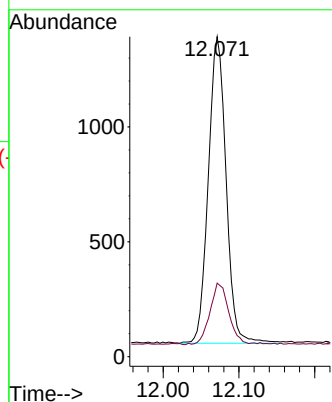
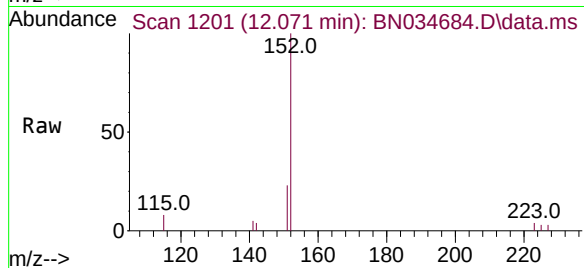




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

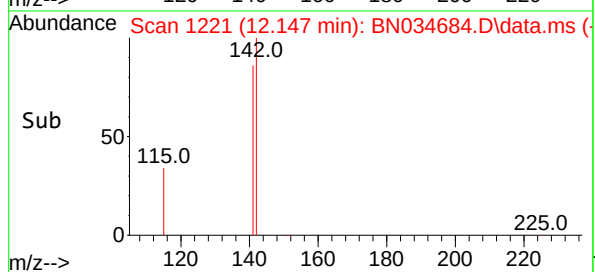
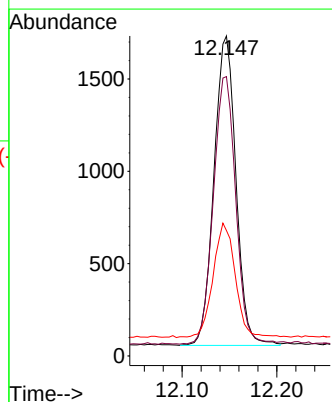
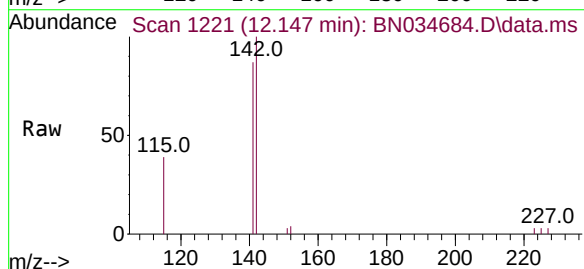
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ClientSampleId :
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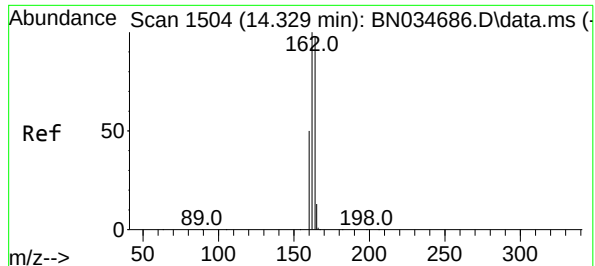
Tgt Ion:152 Resp: 2173
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1



#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

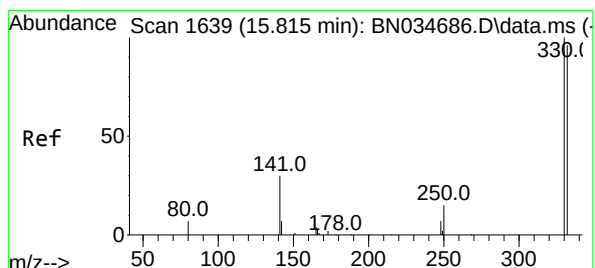
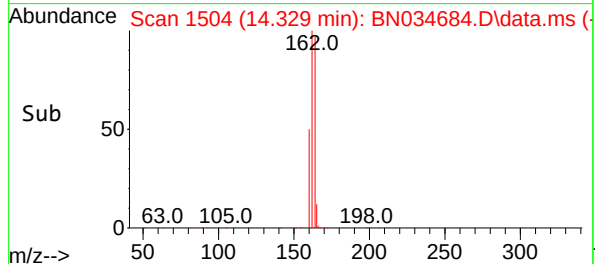
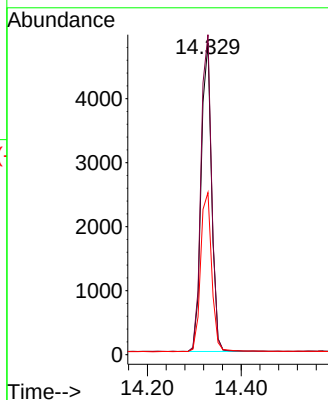
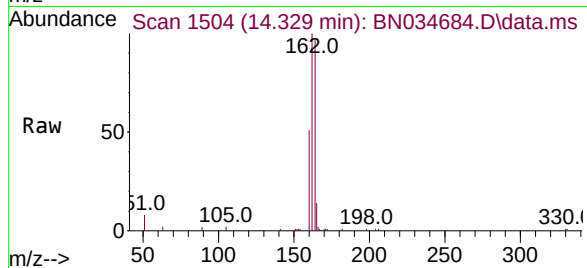




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

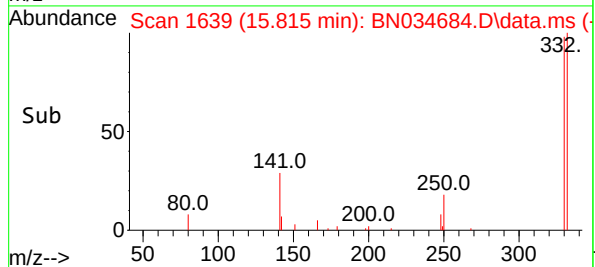
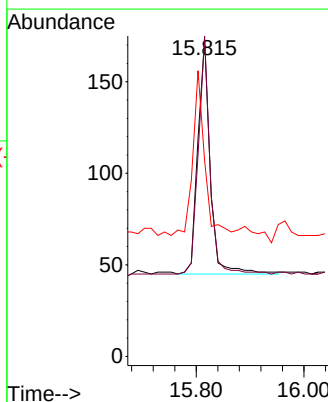
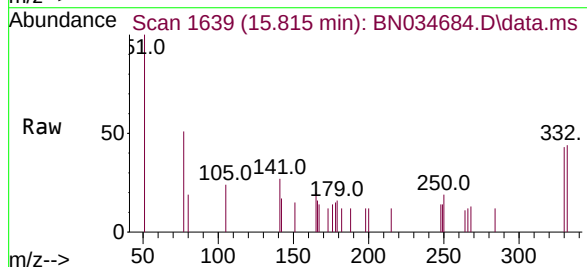
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

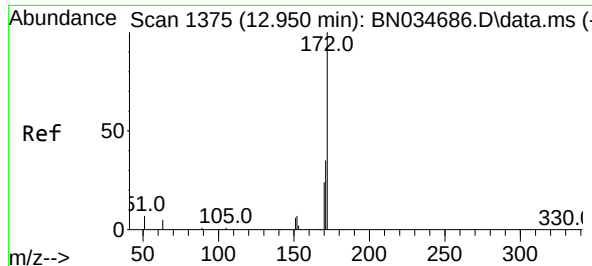
Tgt Ion:164 Resp: 7436
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 52.0 40.6 61.0



#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

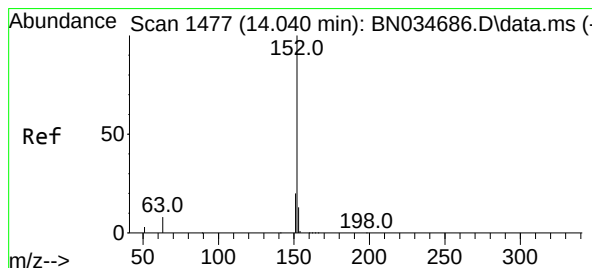
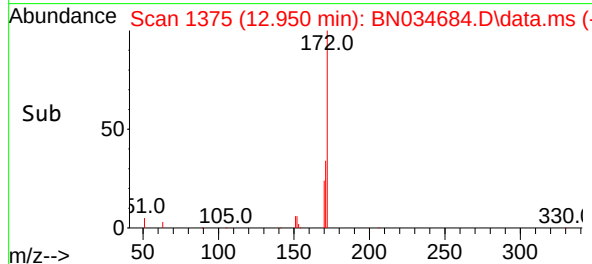
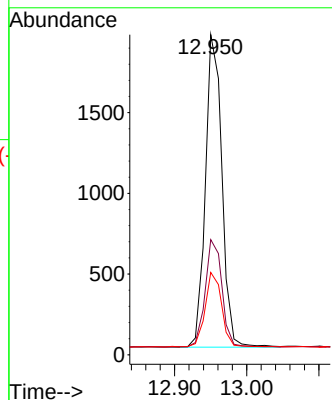
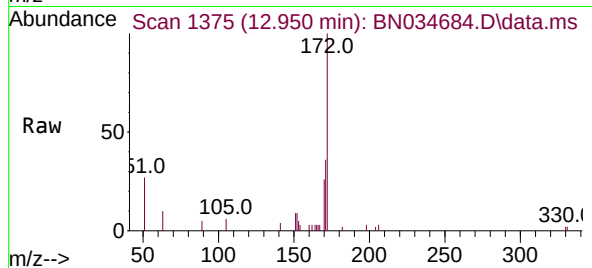




#15
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

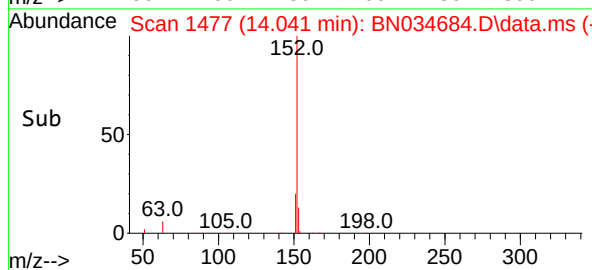
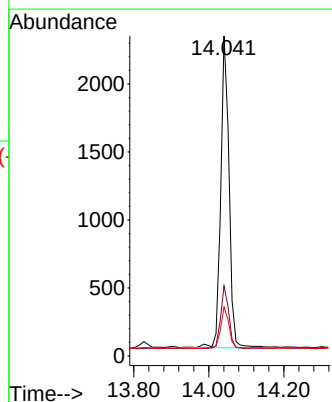
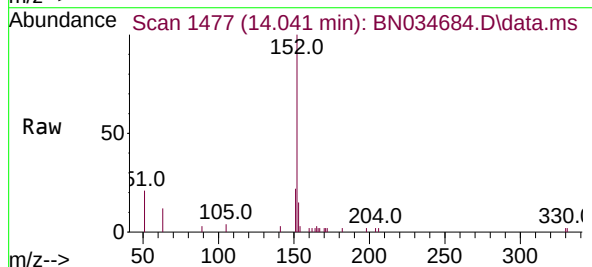
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

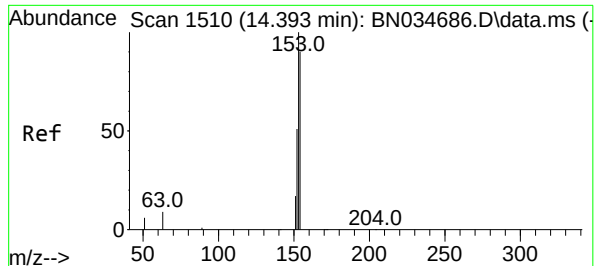
Tgt Ion:172 Resp: 3087
Ion Ratio Lower Upper
172 100
171 36.0 28.3 42.5
170 25.7 19.8 29.6



#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

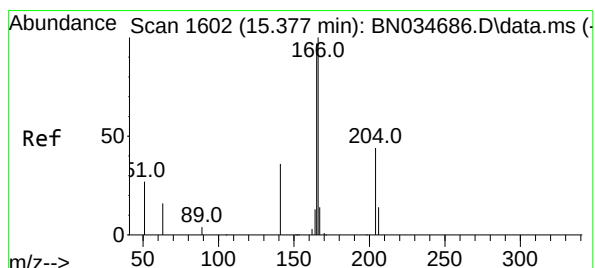
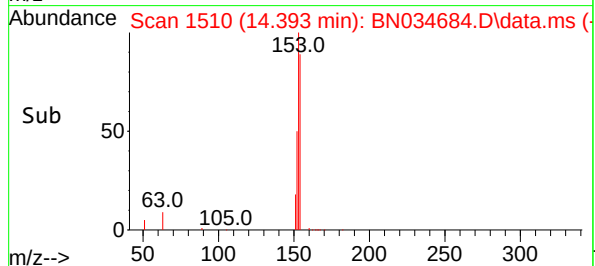
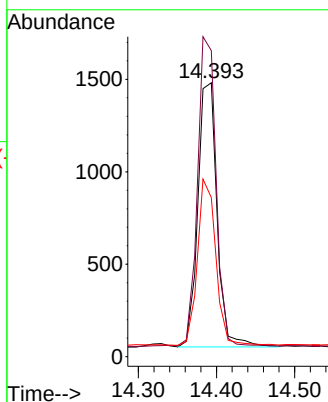
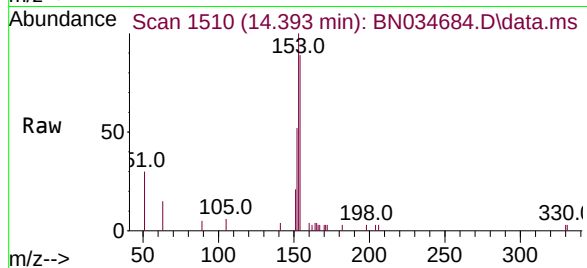




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

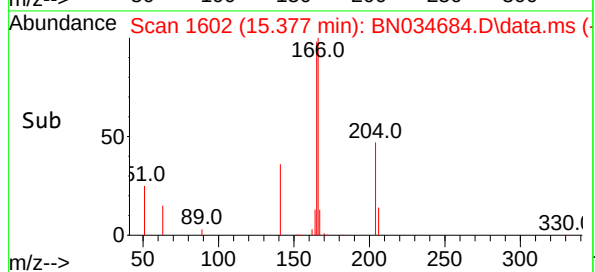
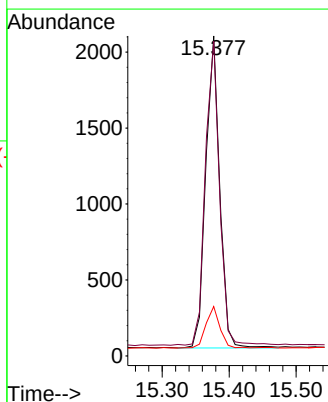
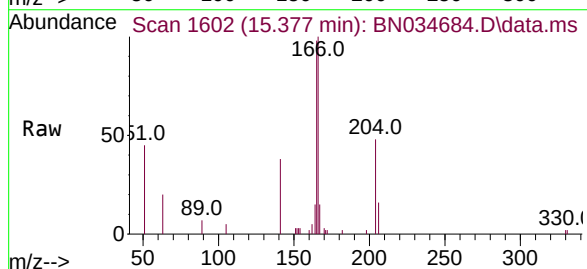
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

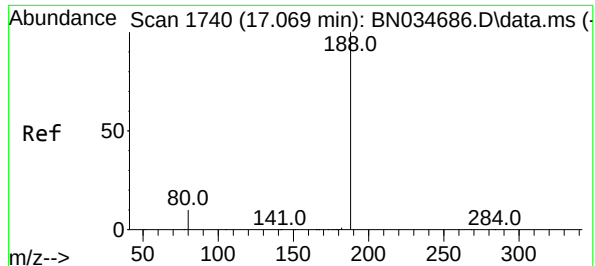
Tgt Ion:154 Resp: 2450
Ion Ratio Lower Upper
154 100
153 113.7 88.2 132.2
152 59.7 46.9 70.3



#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

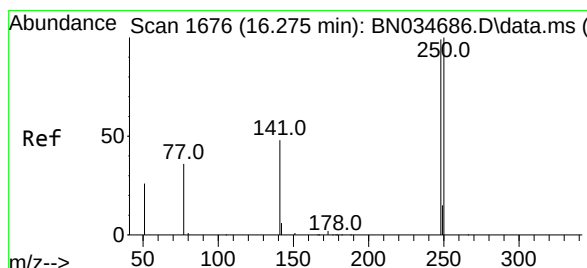
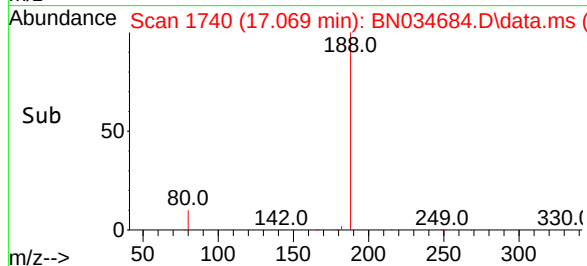
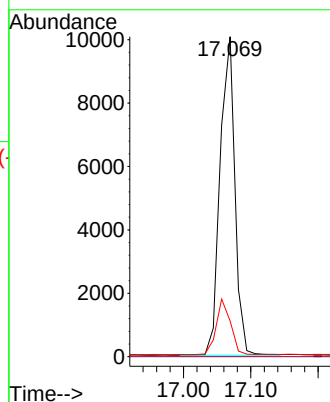
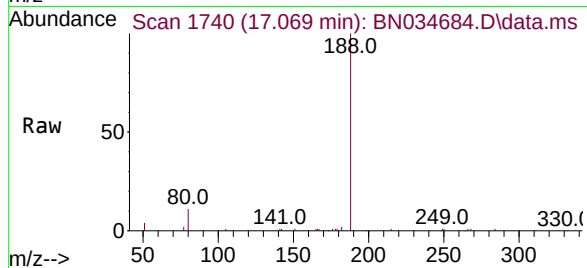
Tgt Ion:188 Resp: 15281

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

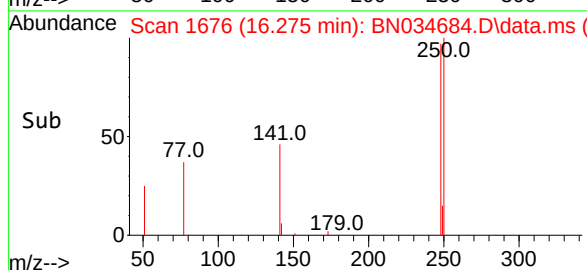
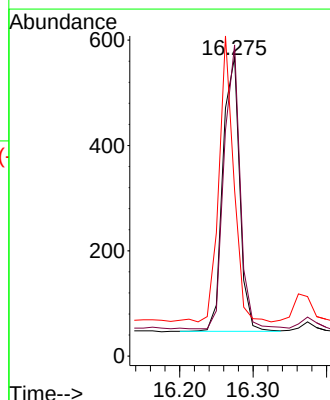
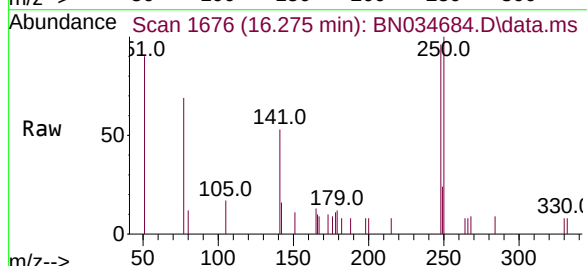
Tgt Ion:248 Resp: 830

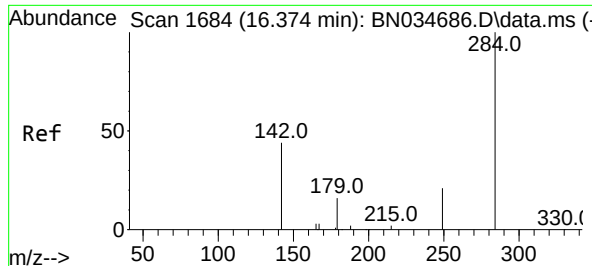
Ion Ratio Lower Upper

248 100

250 104.0 80.9 121.3

141 55.5 40.5 60.7

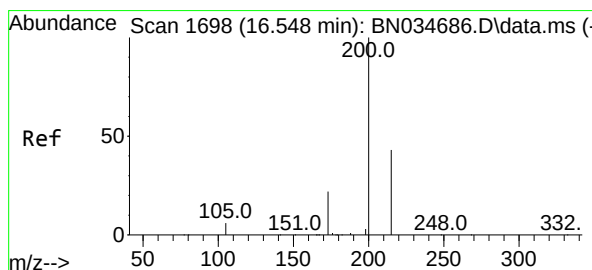
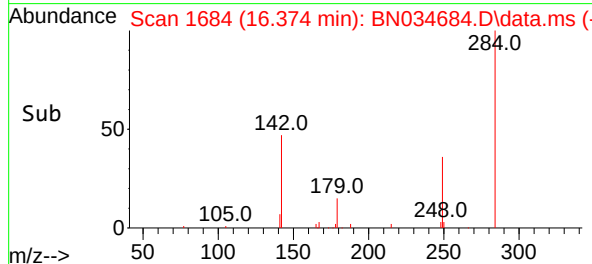
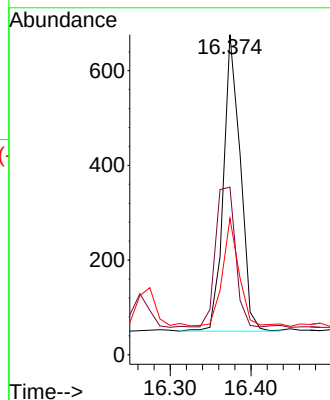
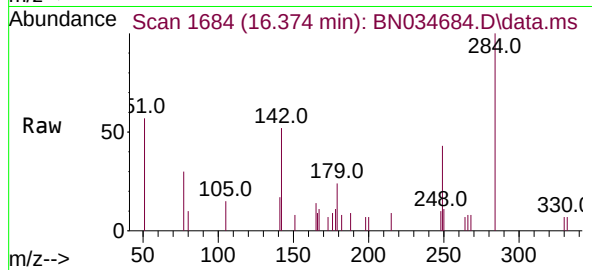




#22
Hexachlorobenzene
Concen: 0.098 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

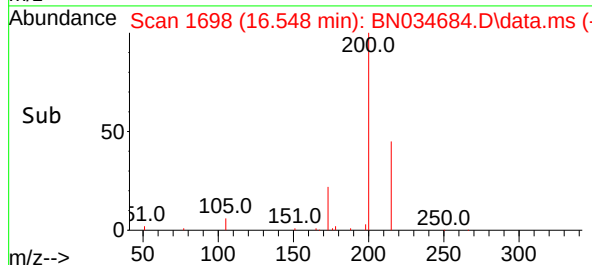
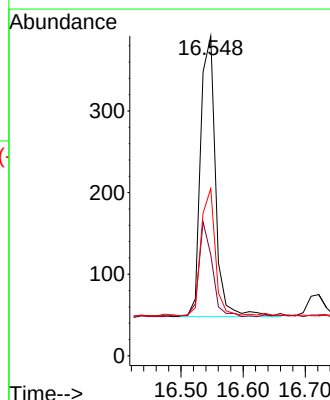
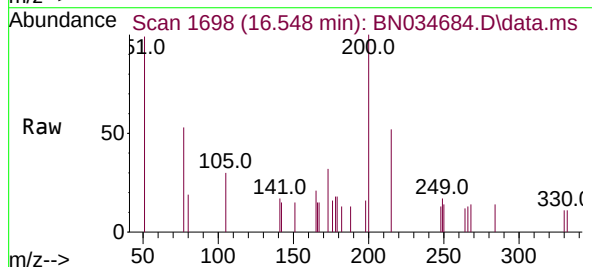
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

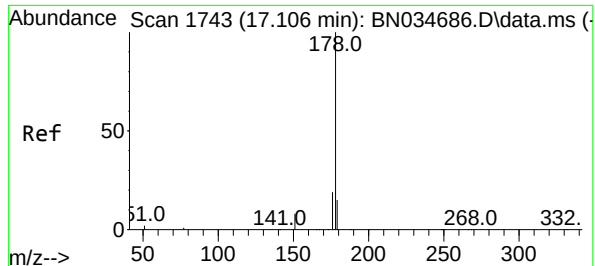
Tgt Ion:284 Resp: 909
Ion Ratio Lower Upper
284 100
142 55.8 43.6 65.4
249 36.0 26.6 40.0



#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

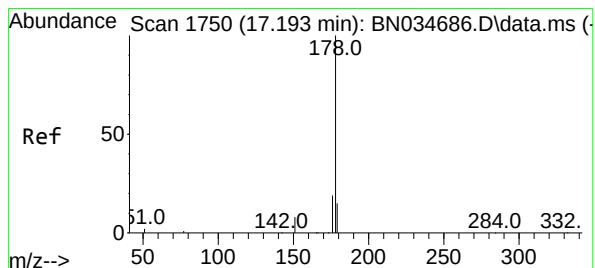
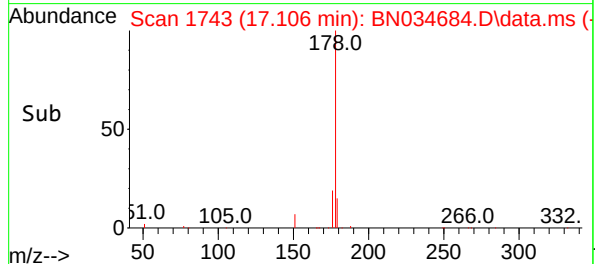
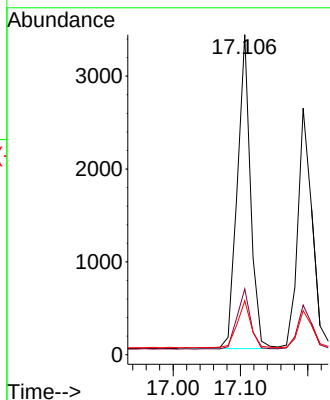
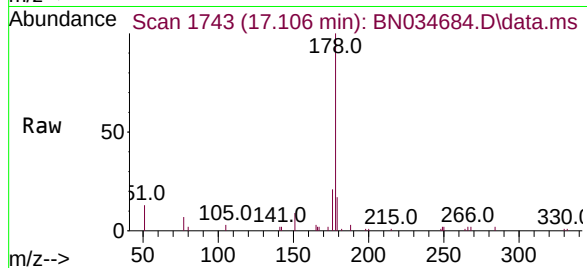




#25
Phenanthrene
Concen: 0.102 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

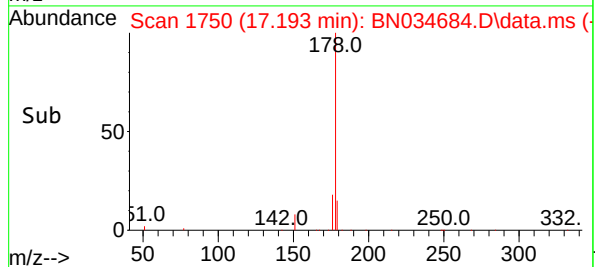
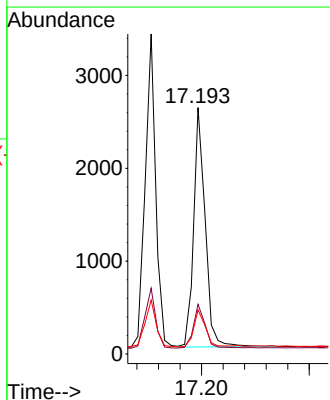
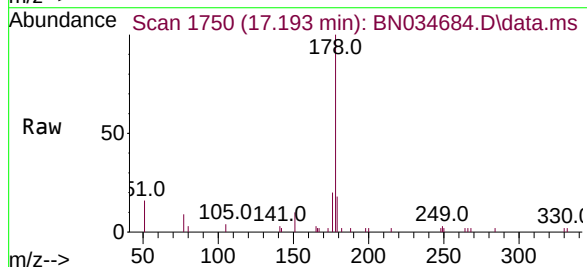
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

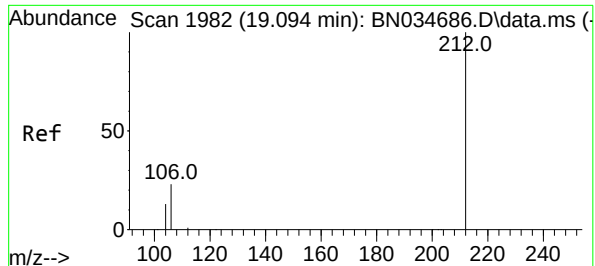
Tgt Ion:178 Resp: 4637
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.2 12.2 18.4



#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

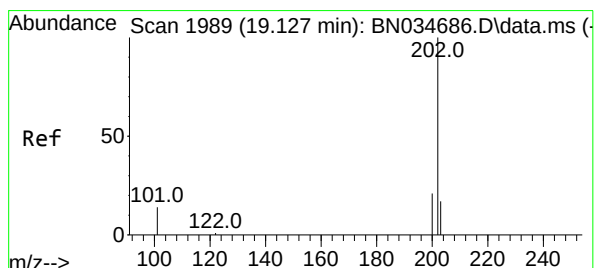
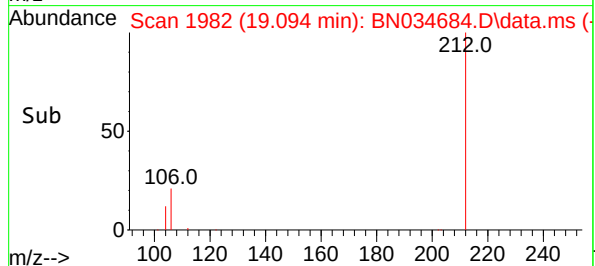
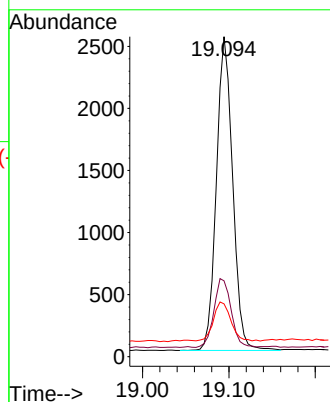
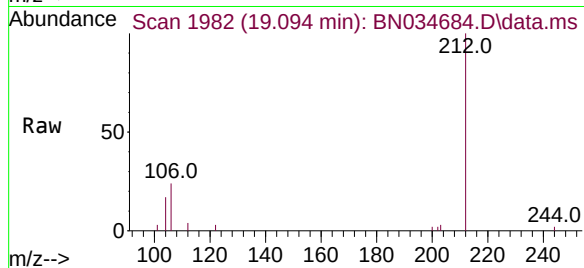
Tgt Ion:212 Resp: 3322

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

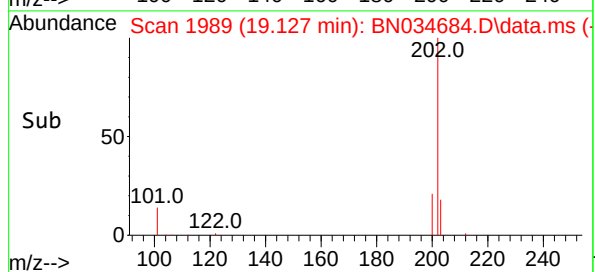
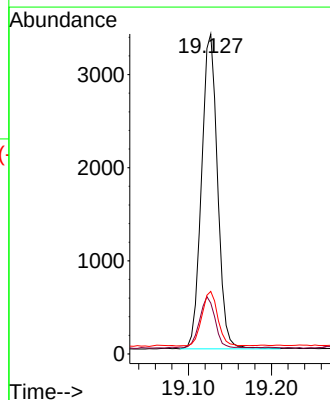
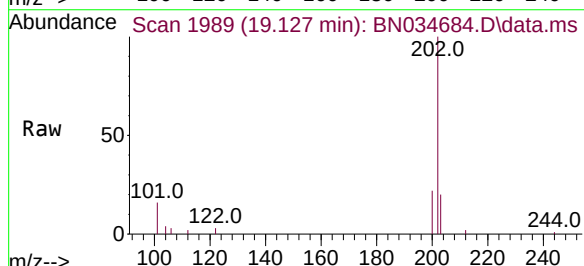
Tgt Ion:202 Resp: 4537

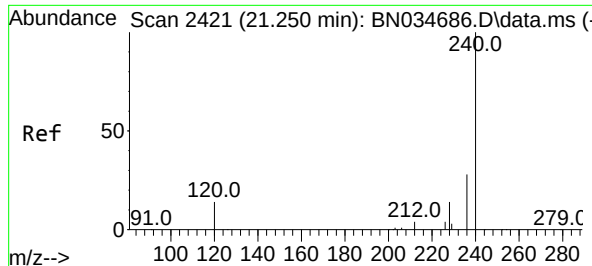
Ion Ratio Lower Upper

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 :

SSTDICC0.1

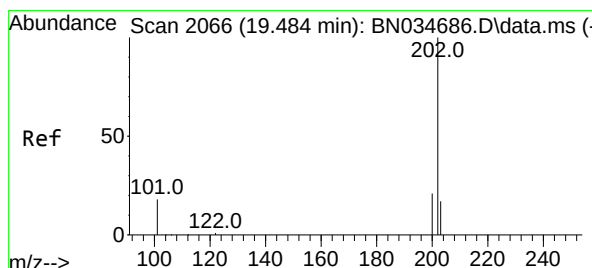
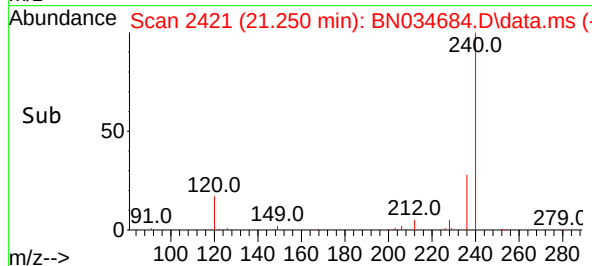
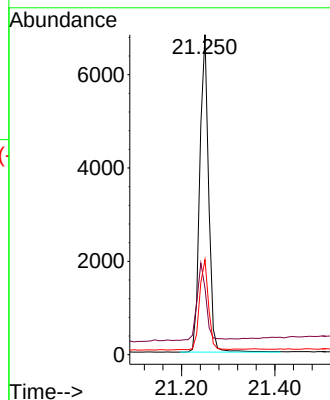
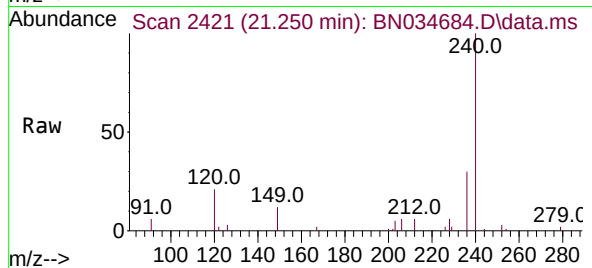
Tgt Ion:240 Resp: 9023

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

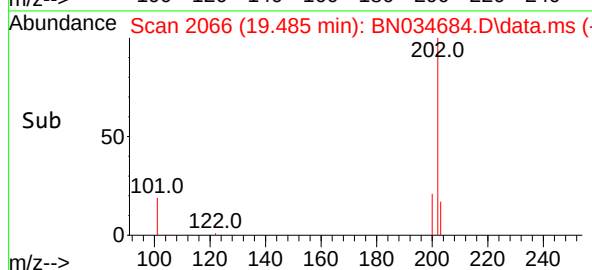
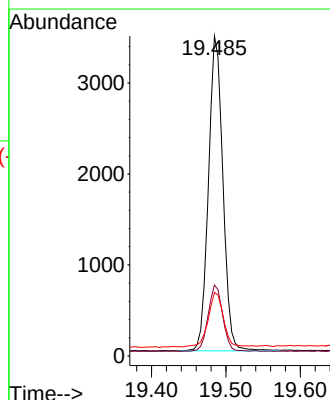
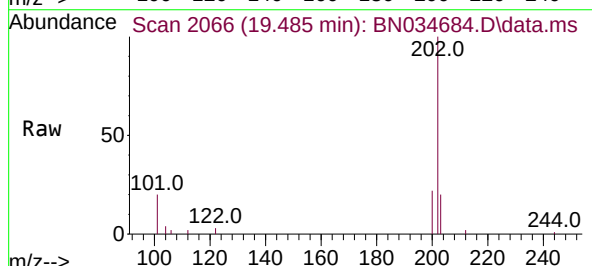
Tgt Ion:202 Resp: 4660

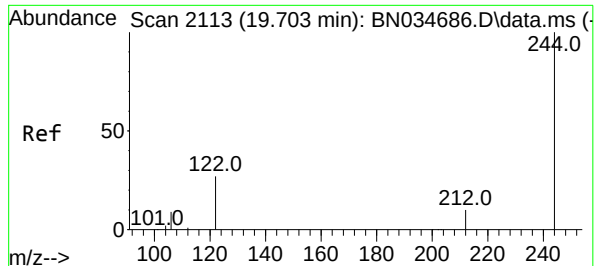
Ion Ratio Lower Upper

202 100

200 21.1 16.6 25.0

203 18.3 14.2 21.4

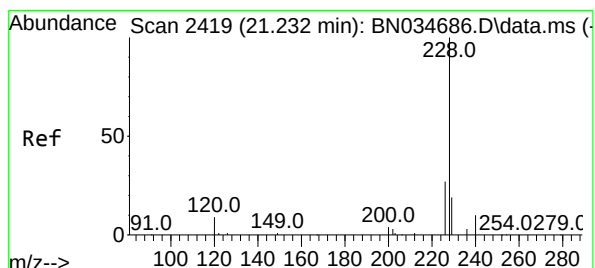
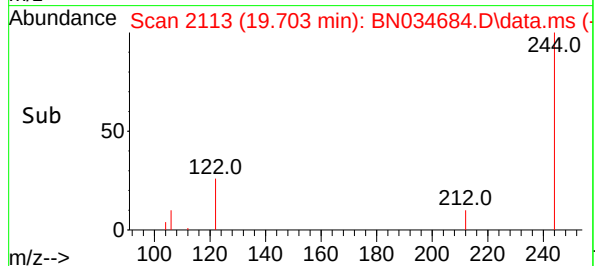
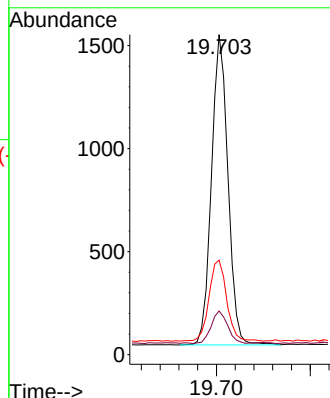
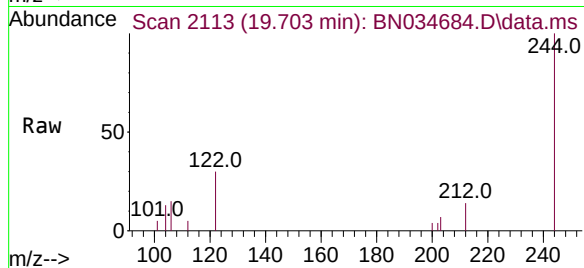




#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

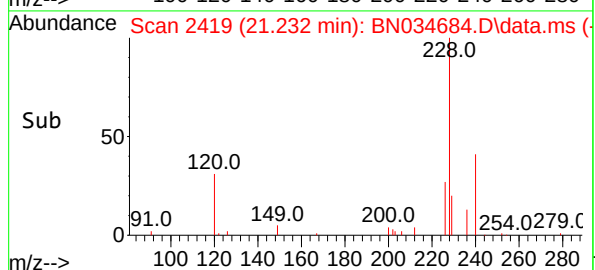
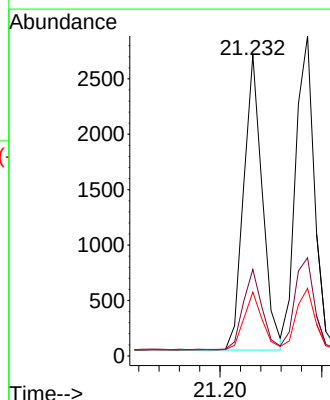
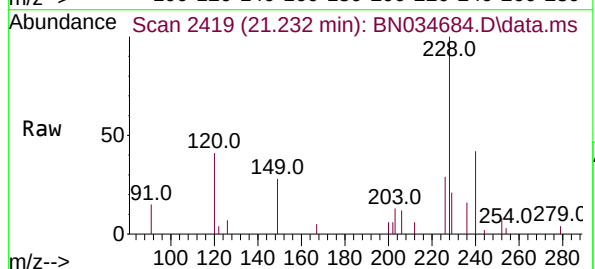
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

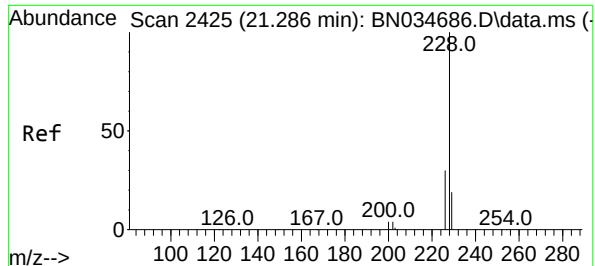
Tgt Ion:244 Resp: 1833
Ion Ratio Lower Upper
244 100
212 13.7 8.6 13.0#
122 29.6 22.3 33.5



#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 :

SSTDICC0.1

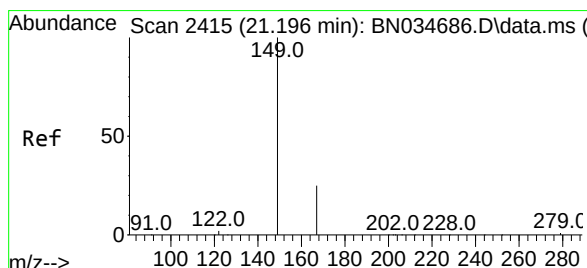
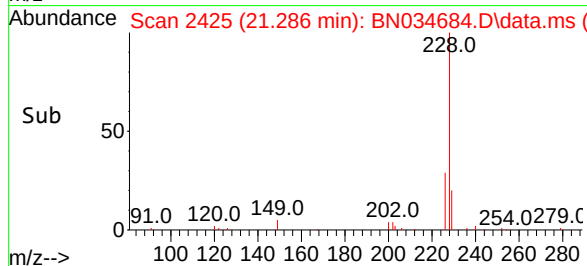
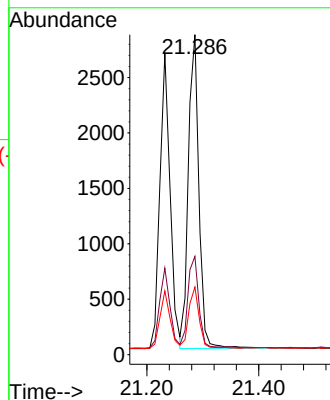
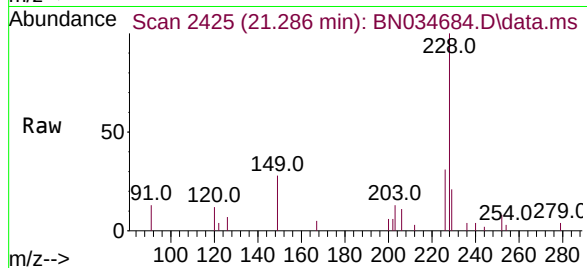
Tgt Ion:228 Resp: 3705

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

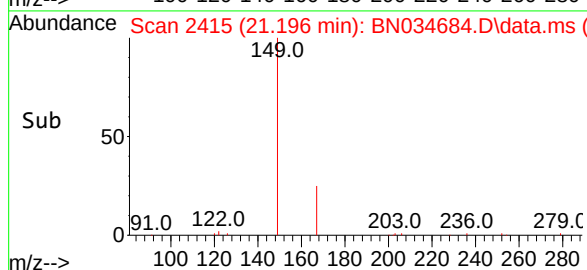
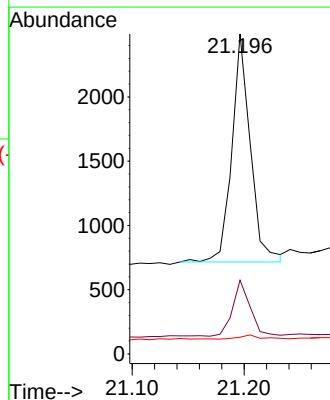
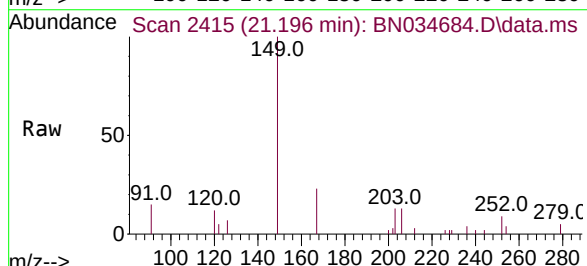
Tgt Ion:149 Resp: 2033

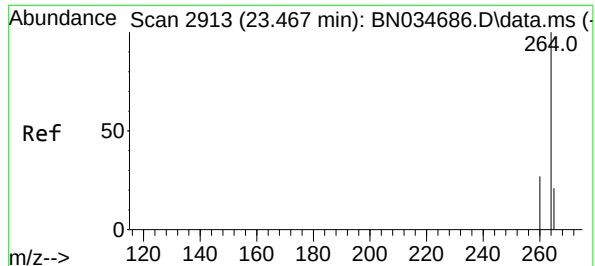
Ion Ratio Lower Upper

149 100

167 23.0 19.7 29.5

279 1.7 1.8 2.6#

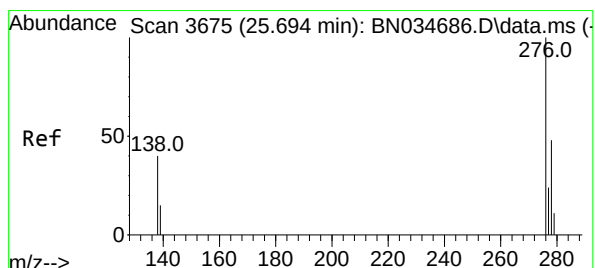
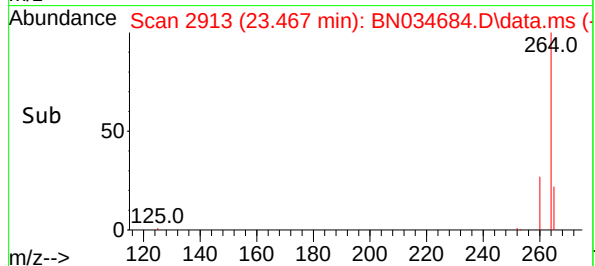
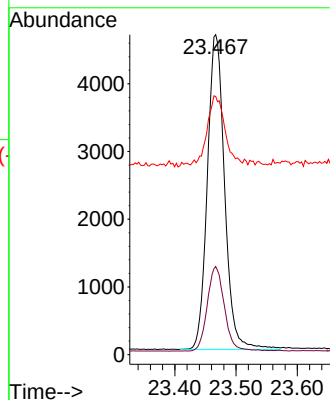
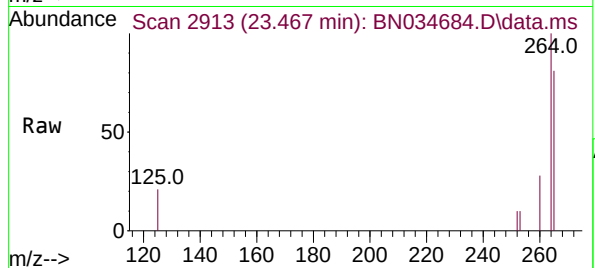




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.467 min Scan# 2913
Delta R.T. 0.000 min
Lab File: BN034684.D
Acq: 24 Oct 2024 09:11

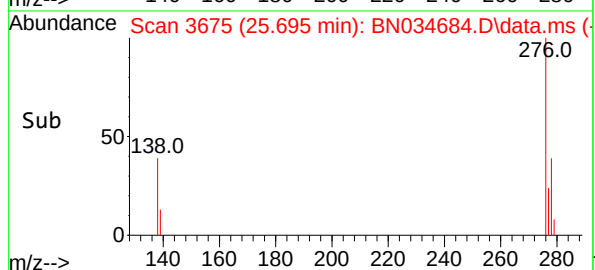
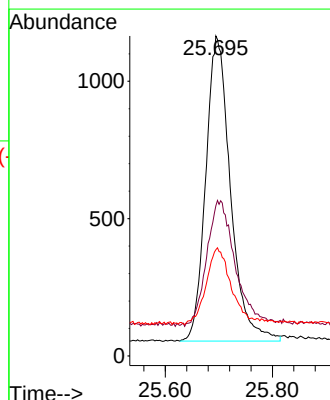
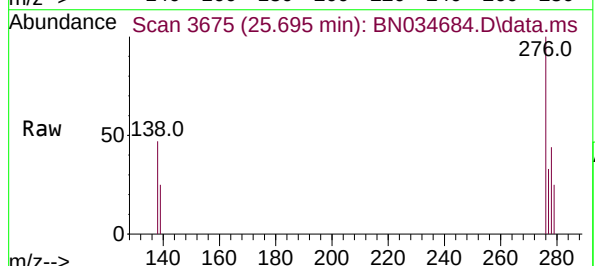
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

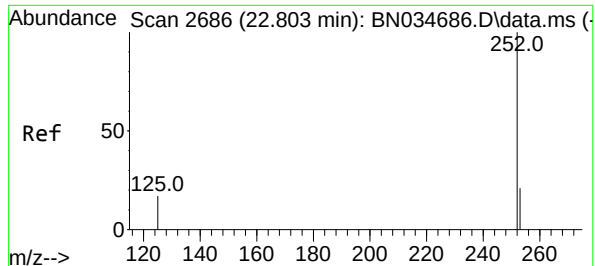
Tgt Ion:264 Resp: 9104
Ion Ratio Lower Upper
264 100
260 27.6 21.9 32.9
265 80.7 60.6 91.0



#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

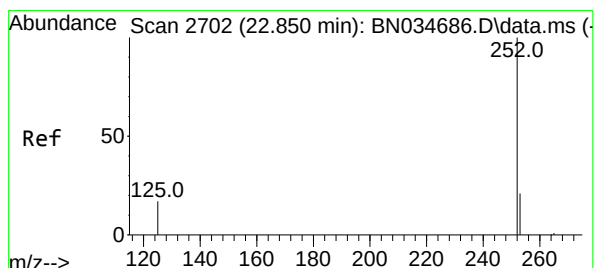
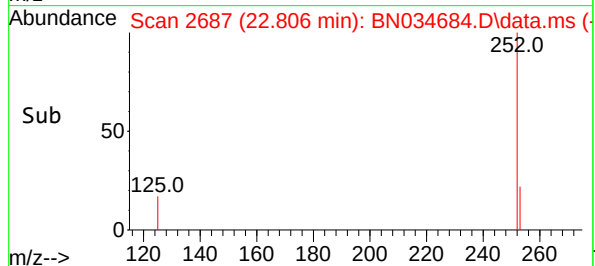
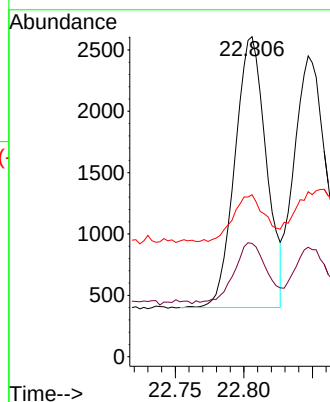
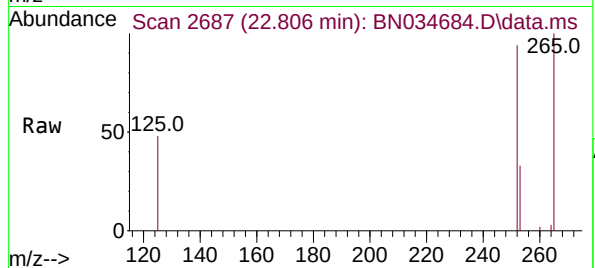
Tgt Ion:252 Resp: 3512

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

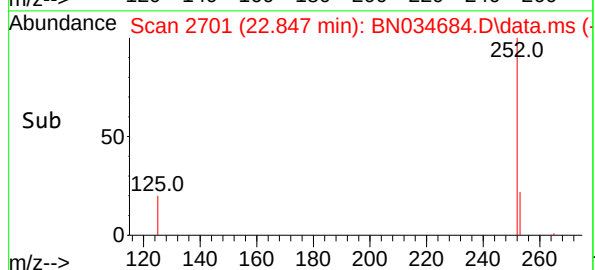
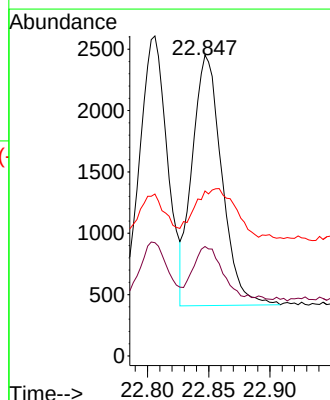
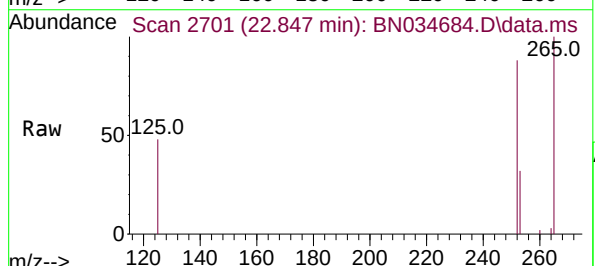
Tgt Ion:252 Resp: 3438

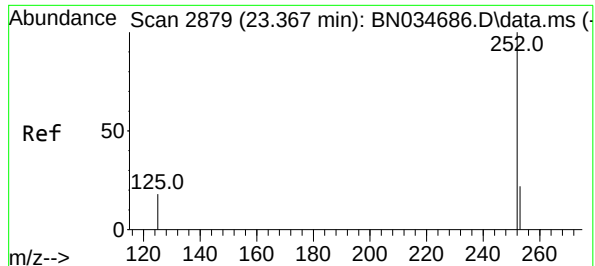
Ion Ratio Lower Upper

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

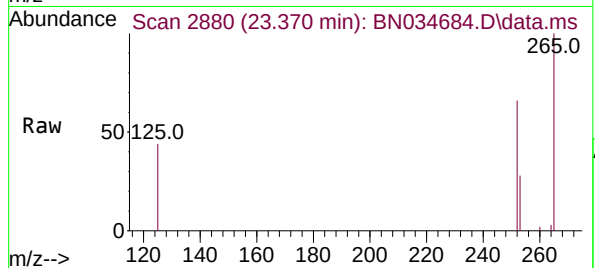
Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



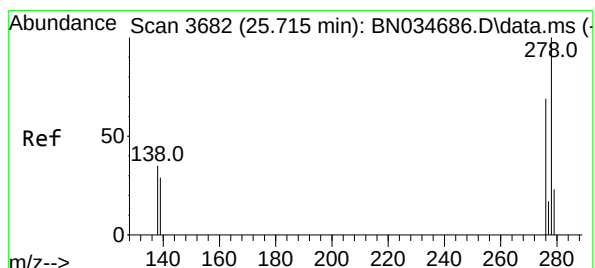
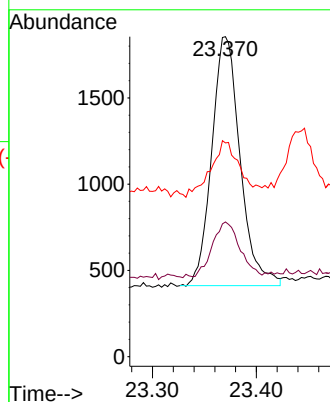
Tgt Ion:252 Resp: 2737

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

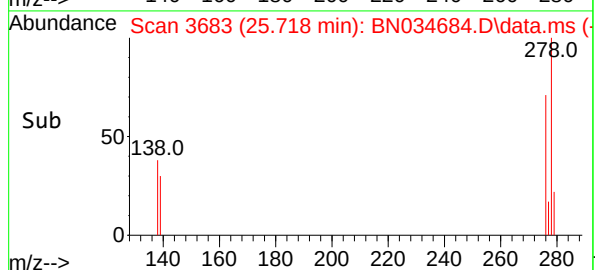
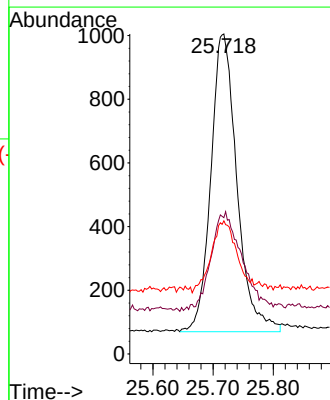
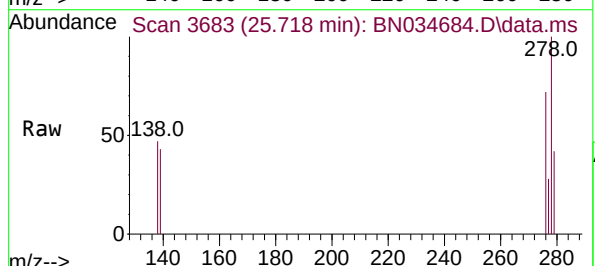
Tgt Ion:278 Resp: 2812

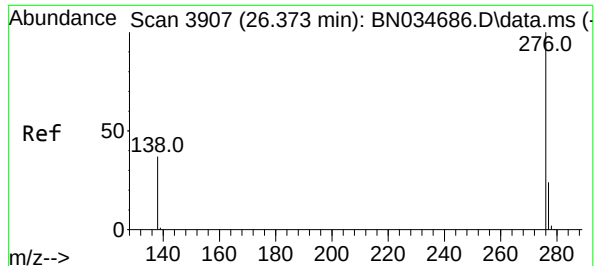
Ion Ratio Lower Upper

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

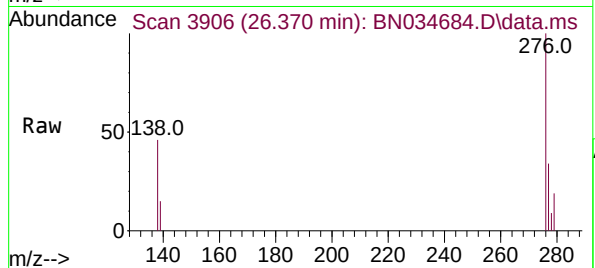
Acq: 24 Oct 2024 09:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



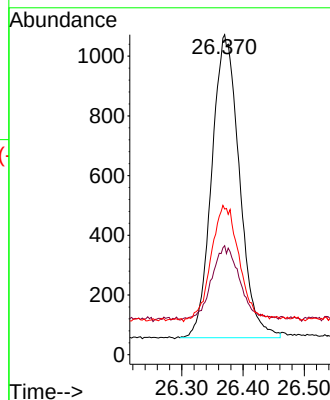
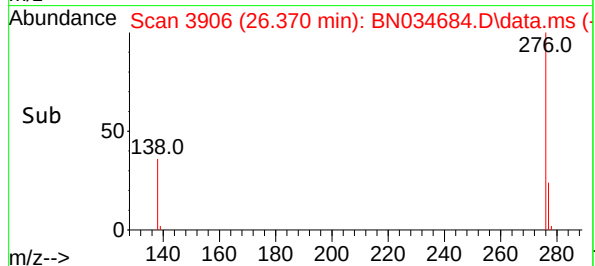
Tgt Ion:276 Resp: 3179

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)

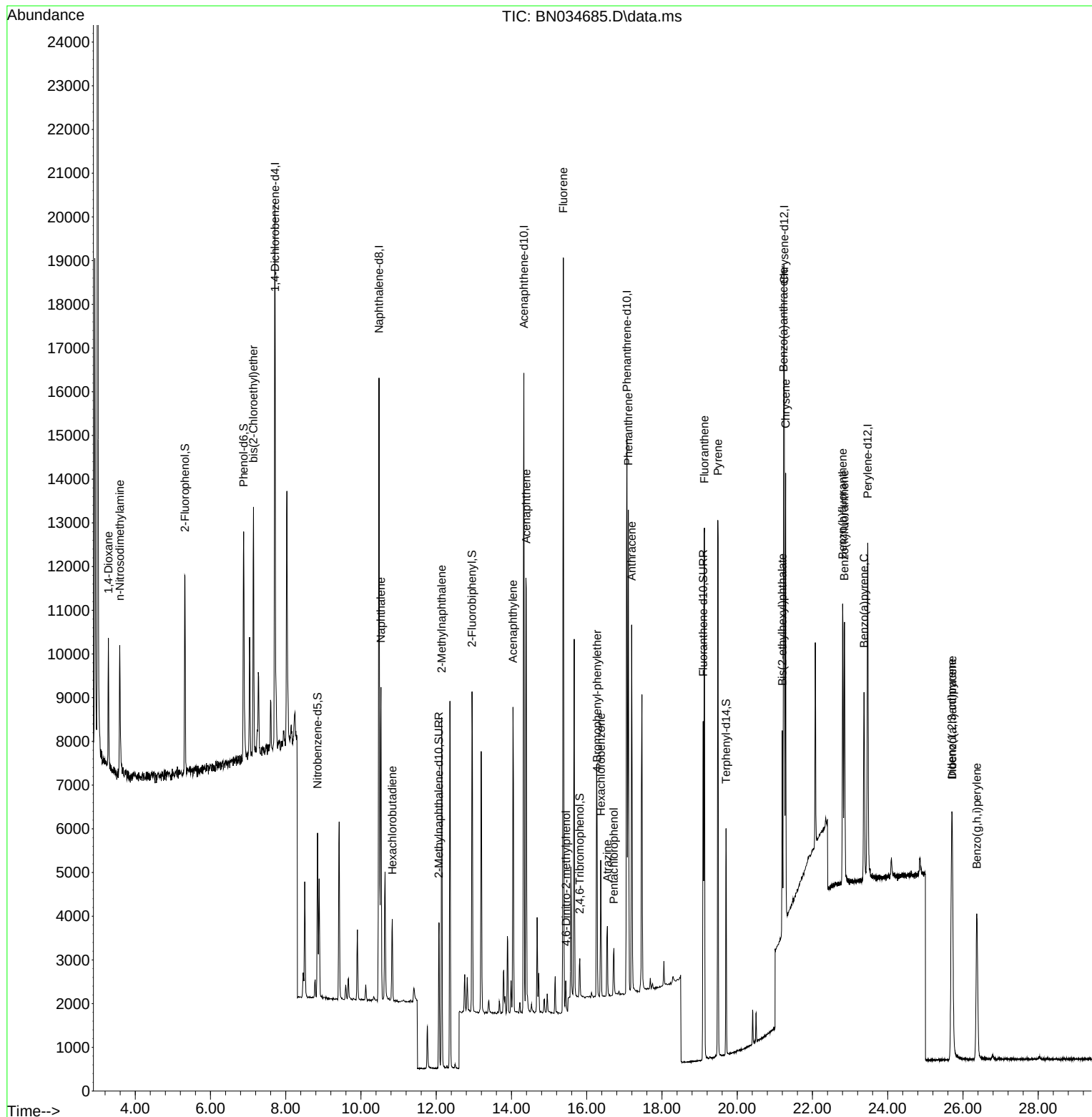
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	17008	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	8253	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	17136	0.400	ng	0.00
29) Chrysene-d12	21.250	240	10548	0.400	ng	0.00
35) Perylene-d12	23.467	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						Qvalue
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

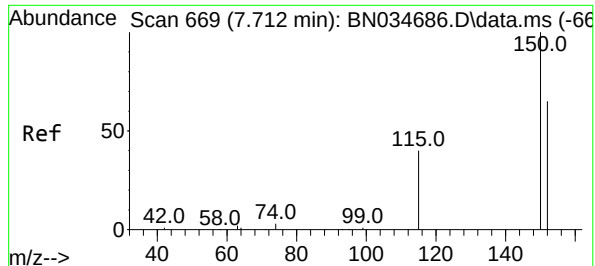
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

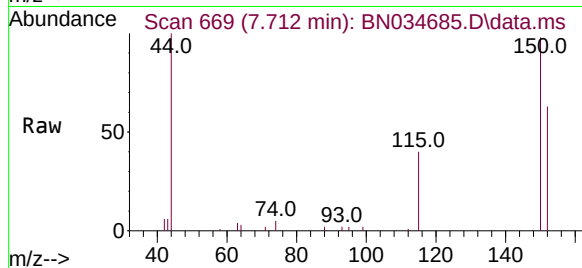
Quant Time: Oct 24 12:42:31 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration



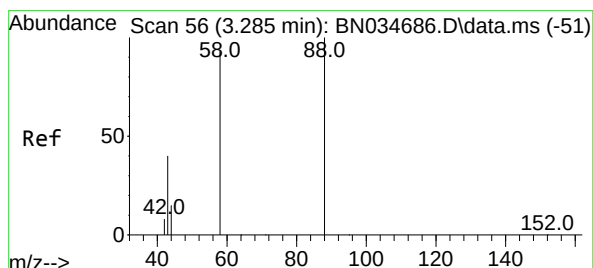
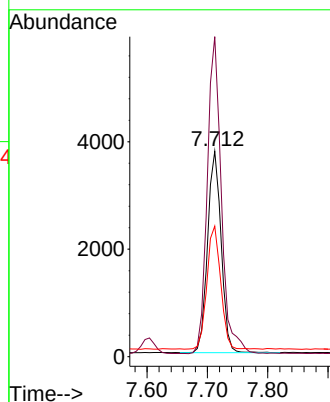
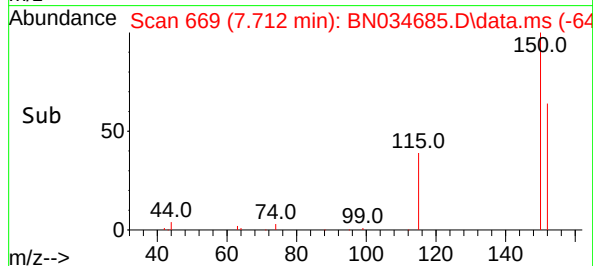


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

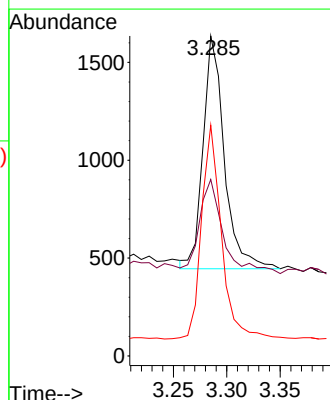
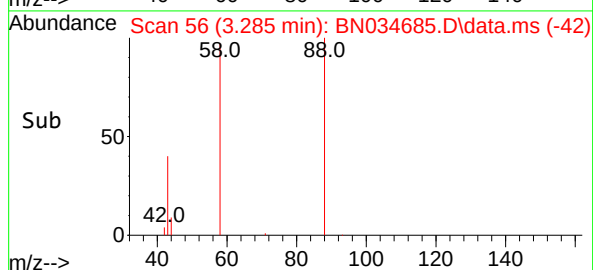
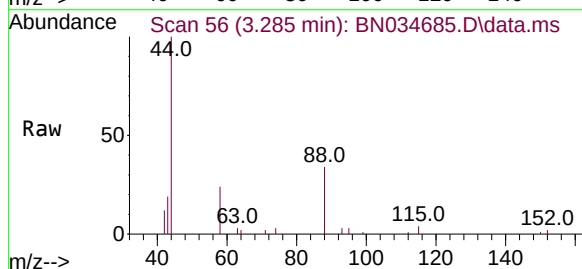


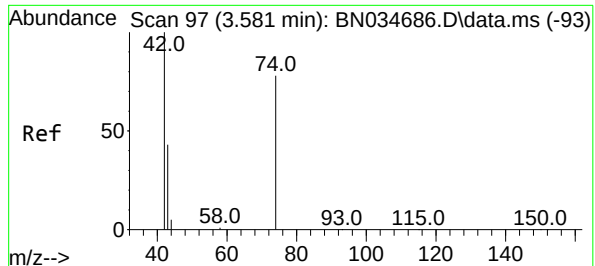
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 155.7 122.7 184.1
115 63.5 51.0 76.6



#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

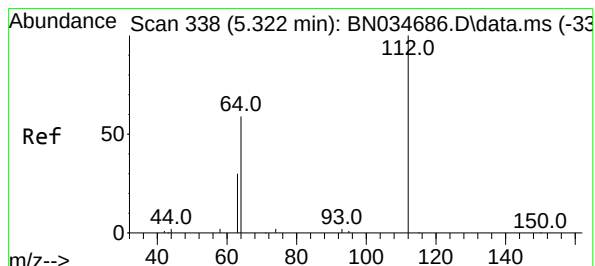
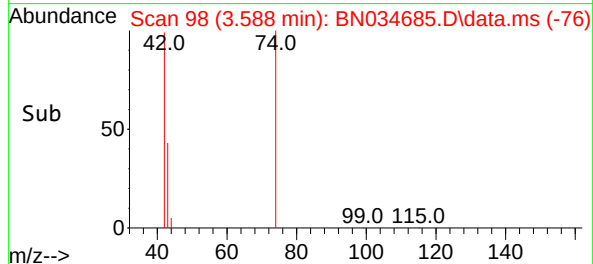
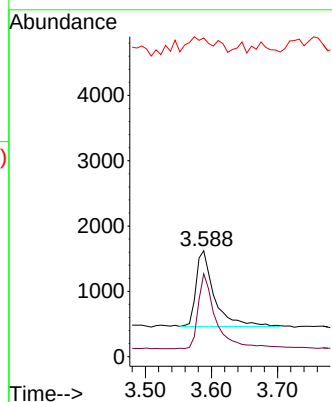
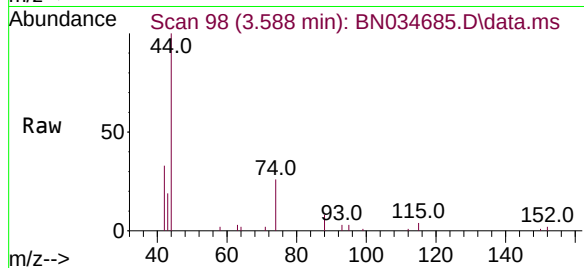




#3
n-Nitrosodimethylamine
Concen: 0.260 ng
RT: 3.588 min Scan# 97
Delta R.T. 0.007 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

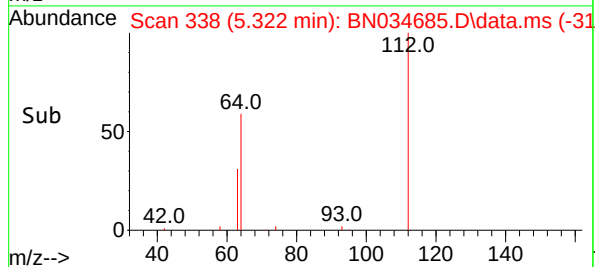
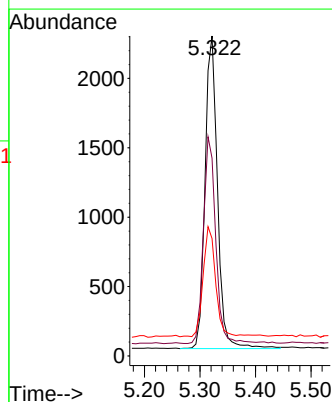
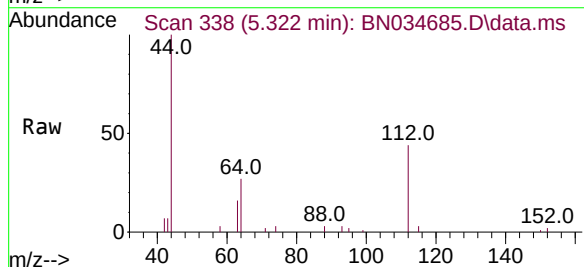
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

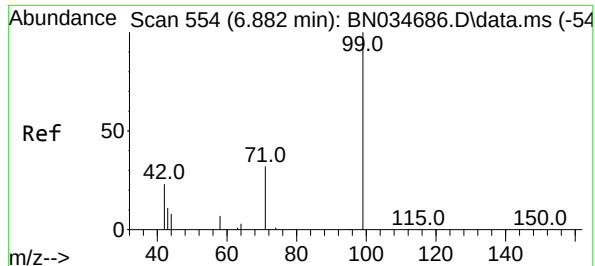
Tgt Ion: 42 Resp: 2242
Ion Ratio Lower Upper
42 100
74 95.2 77.2 115.8
44 21.1 13.4 20.2#



#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

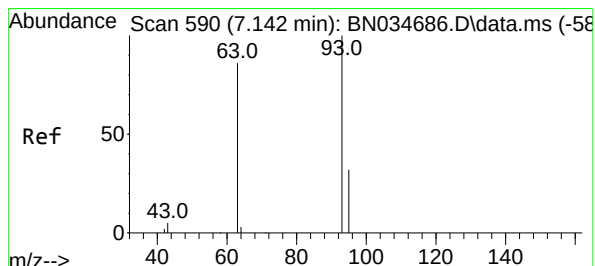
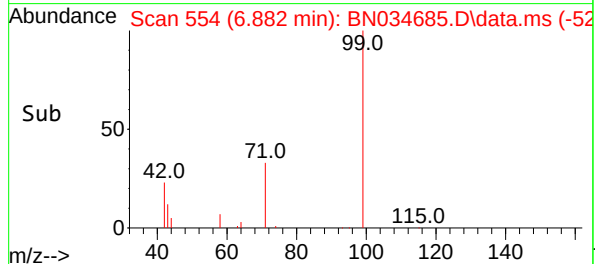
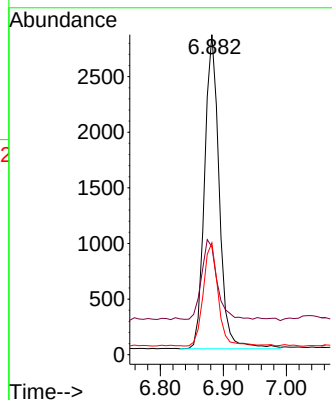
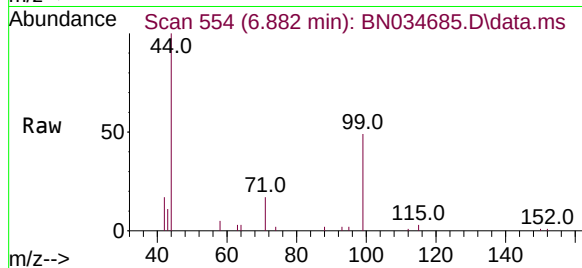




#5
Phenol-d6
Concen: 0.199 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

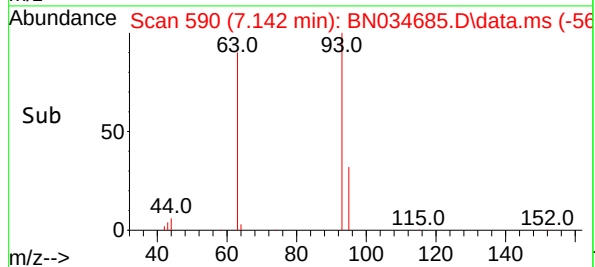
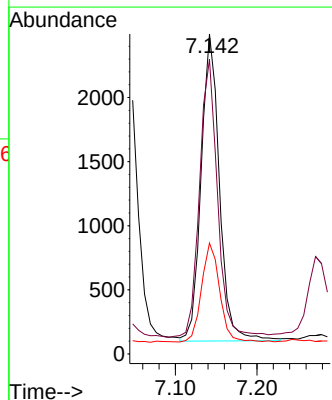
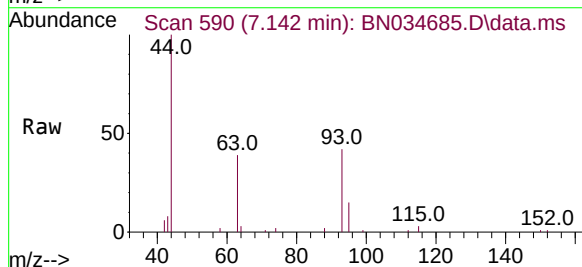
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

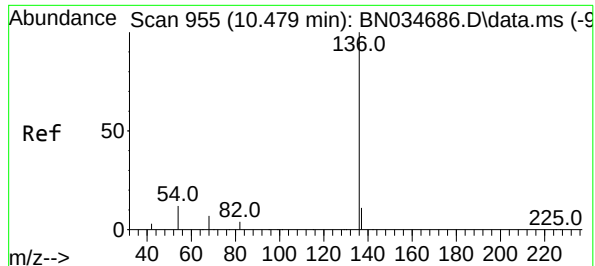
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.6	21.8	32.8
71	33.2	26.6	40.0



#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	Ratio	Lower	Upper
93	100		
63	89.0	71.5	107.3
95	31.9	25.8	38.6

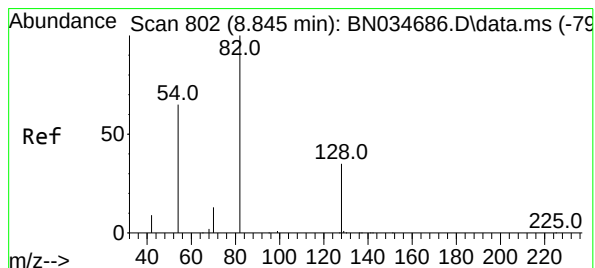
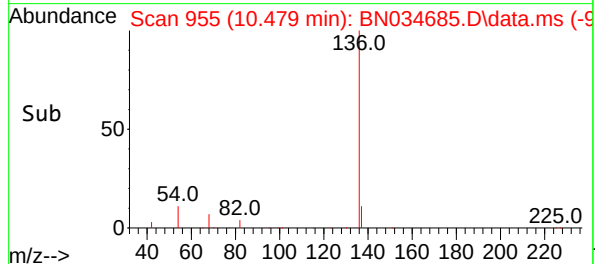
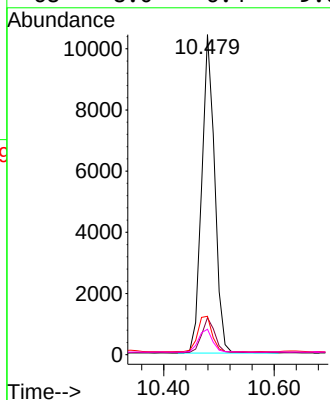
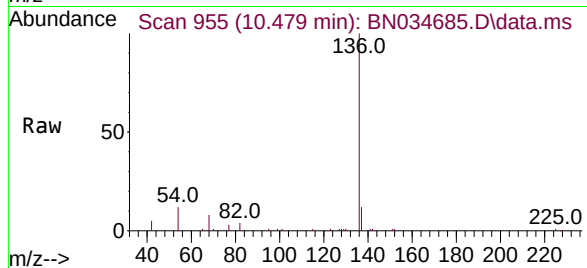




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

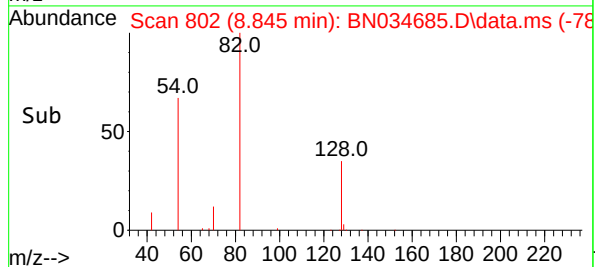
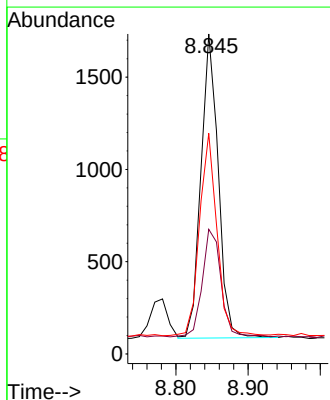
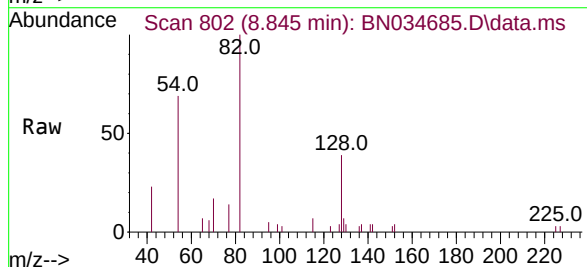
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

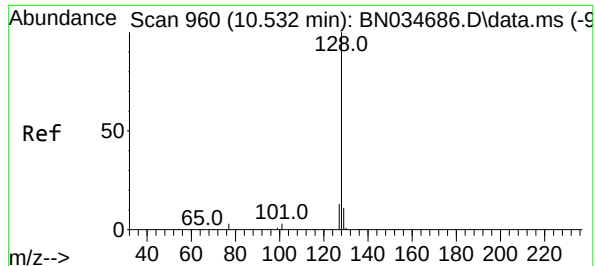
Tgt Ion:	136	Resp:	17008
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	12.0	9.8	14.8
68	8.0	6.4	9.6



#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

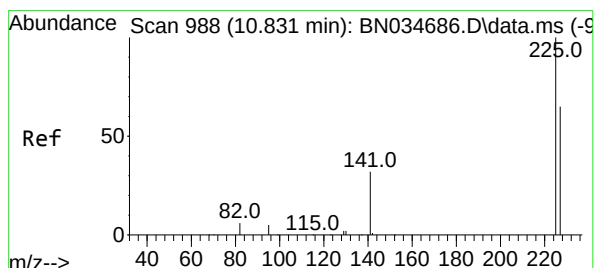
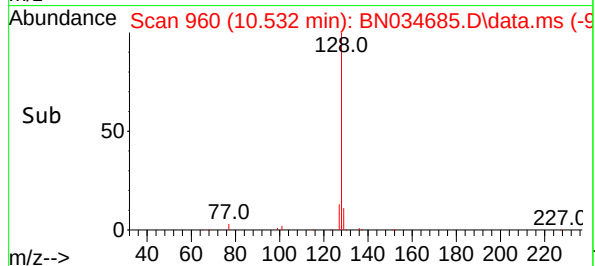
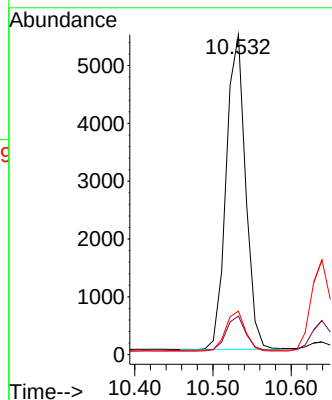
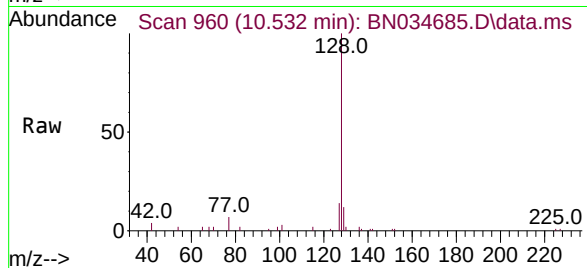
Tgt Ion:128 Resp: 9353

Ion	Ratio	Lower	Upper
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128	100		
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129	12.1	9.0	13.6
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127	13.6	10.5	15.7
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#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

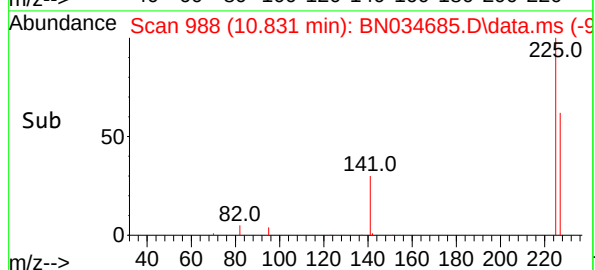
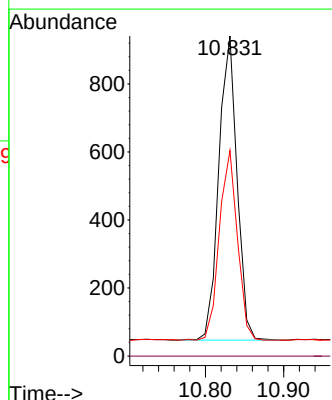
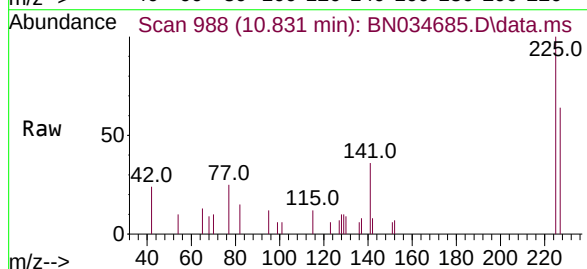
Tgt Ion:225 Resp: 1441

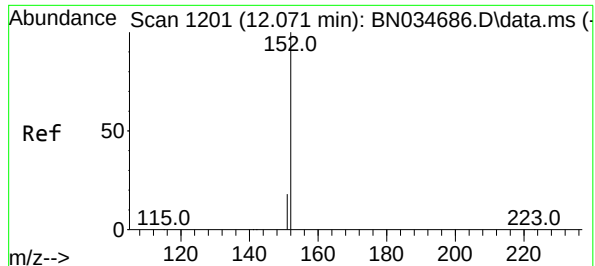
Ion	Ratio	Lower	Upper
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225	100		
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223	0.0	0.0	0.0
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227	61.8	51.4	77.0
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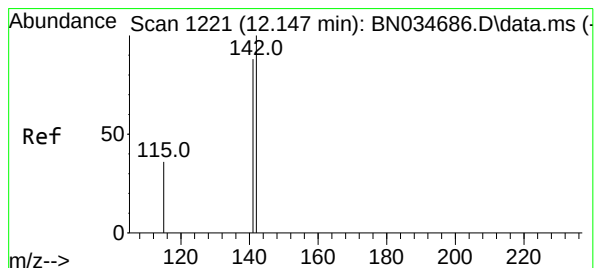
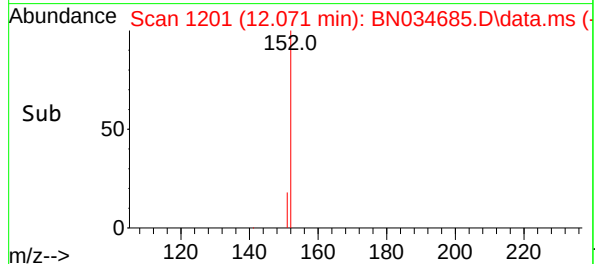
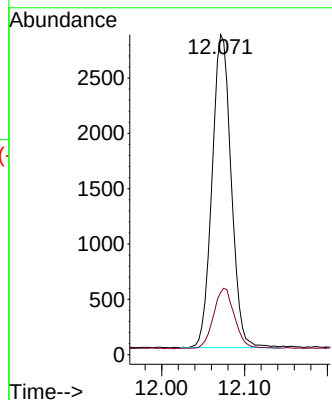
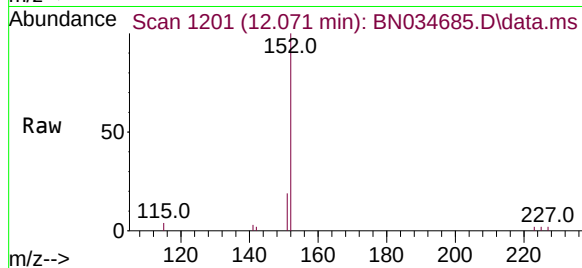




#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

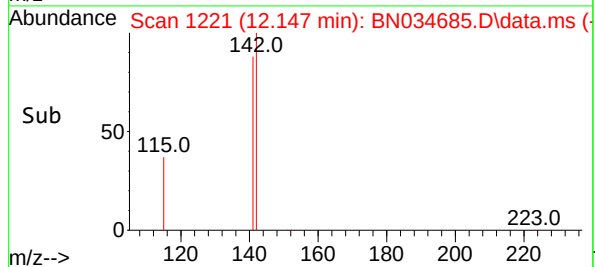
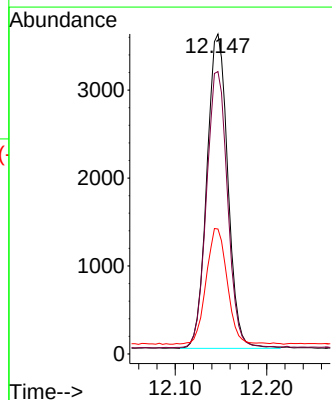
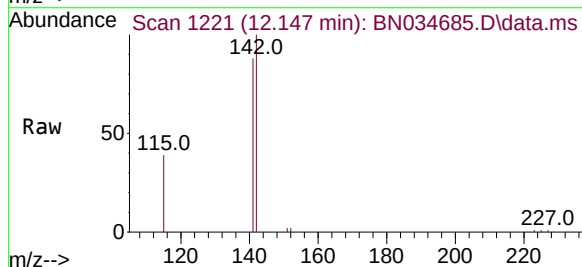
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

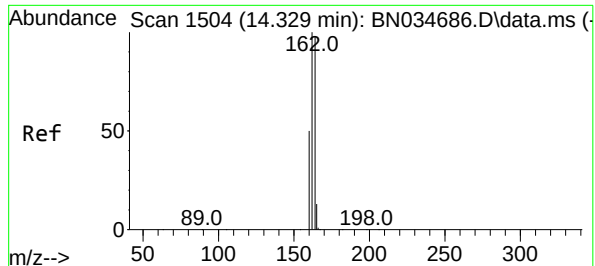
Tgt Ion:152 Resp: 4541
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1



#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

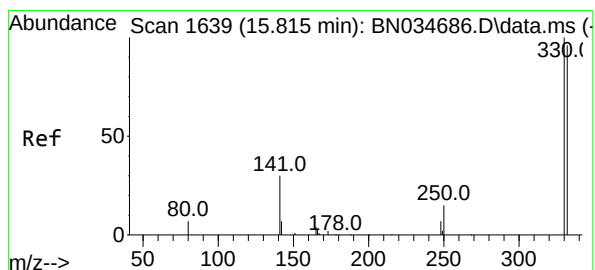
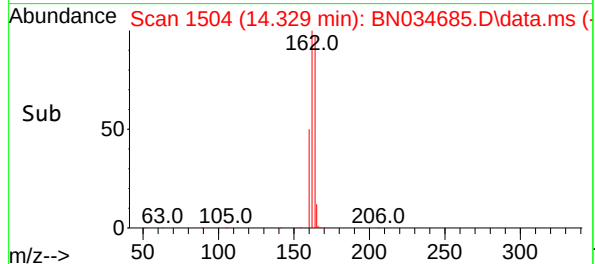
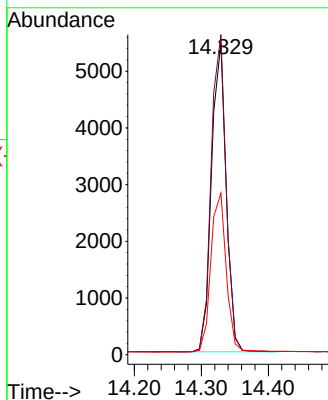
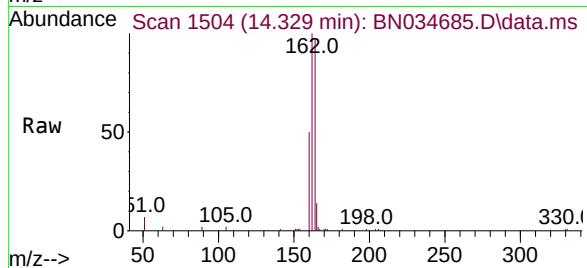




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

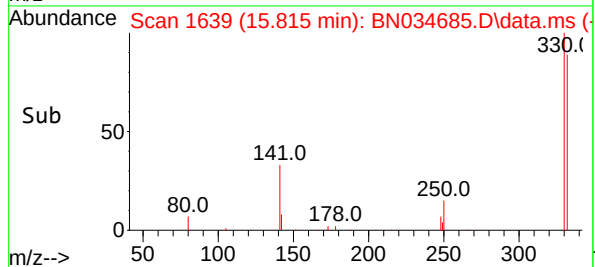
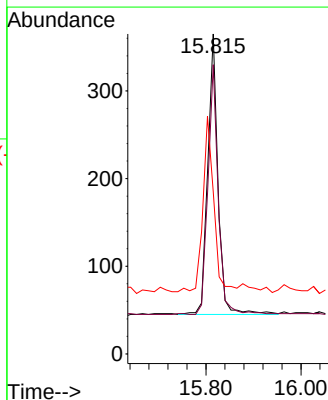
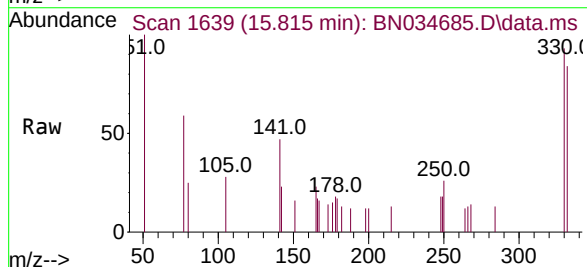
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

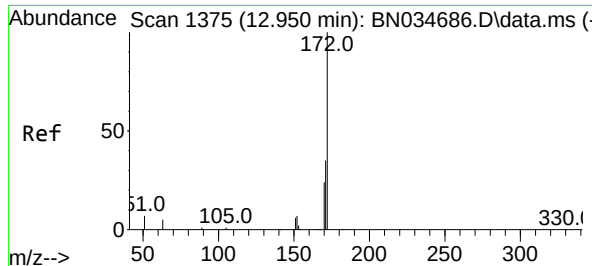
Tgt Ion:164 Resp: 8253
Ion Ratio Lower Upper
164 100
162 102.7 81.4 122.0
160 51.8 40.6 61.0



#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

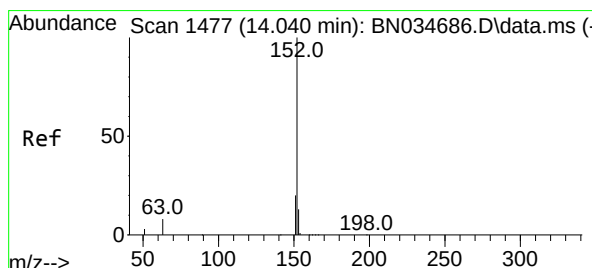
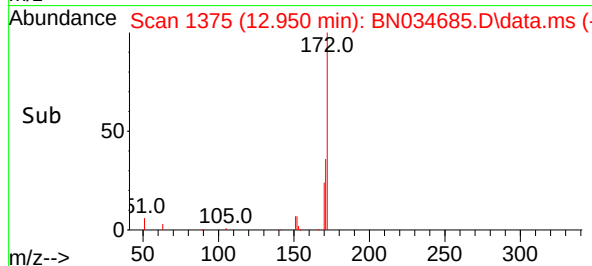
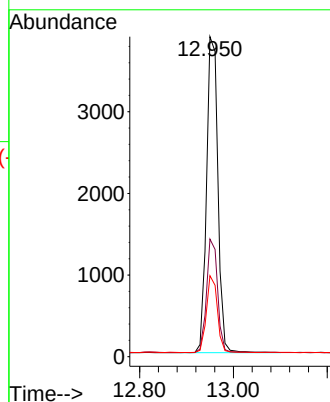
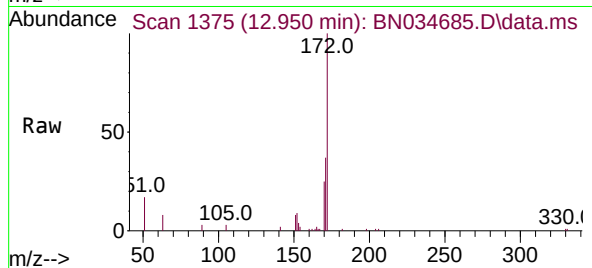




#15
2-Fluorobiphenyl
Concen: 0.200 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

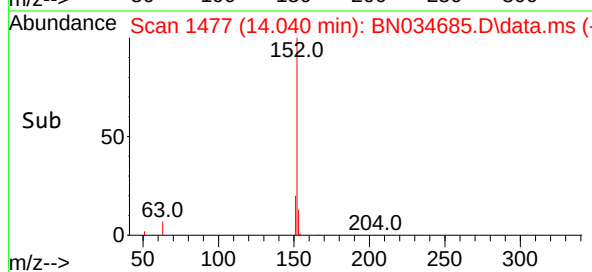
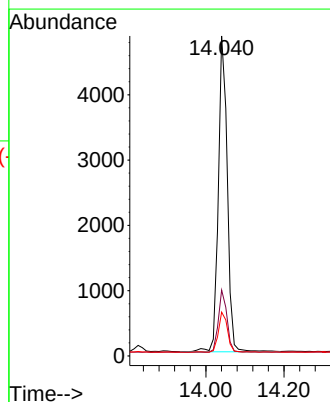
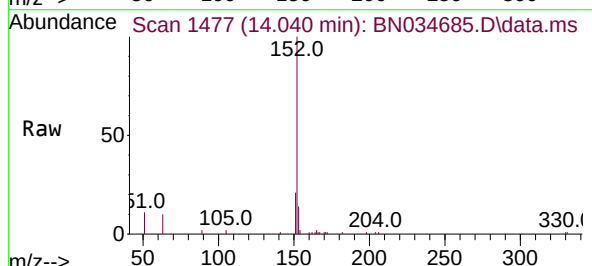
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

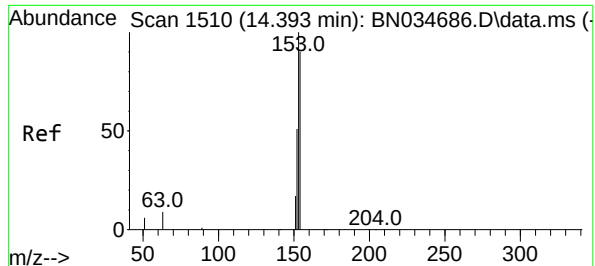
Tgt Ion:	172	Resp:	6506
Ion Ratio	Lower	Upper	
172	100		
171	36.7	28.3	42.5
170	25.3	19.8	29.6



#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

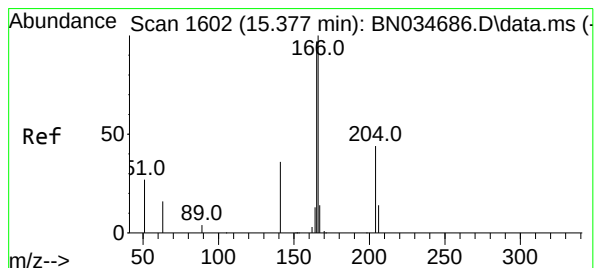
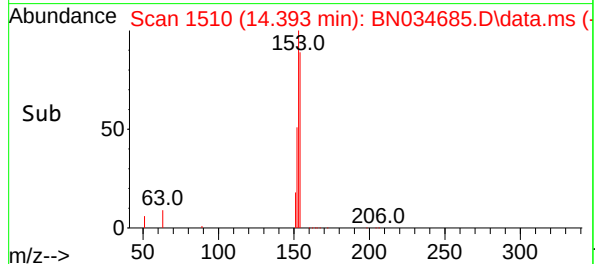
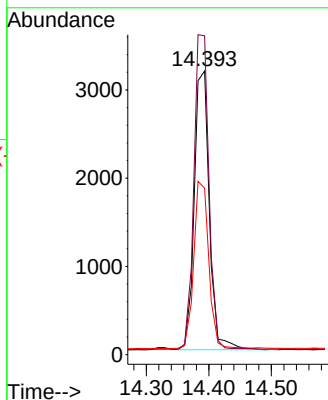
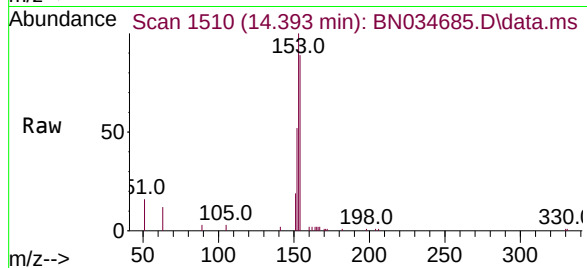




#17
Acenaphthene
Concen: 0.196 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

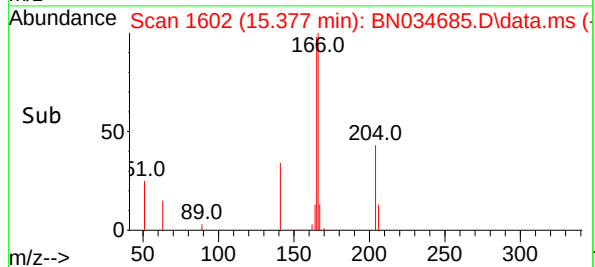
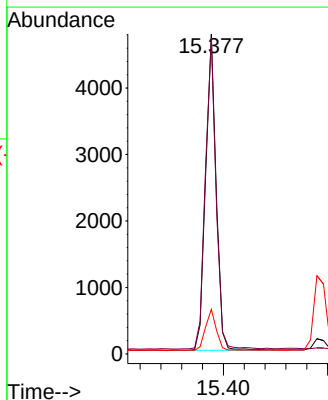
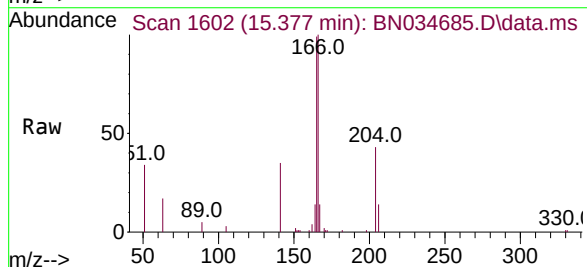
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

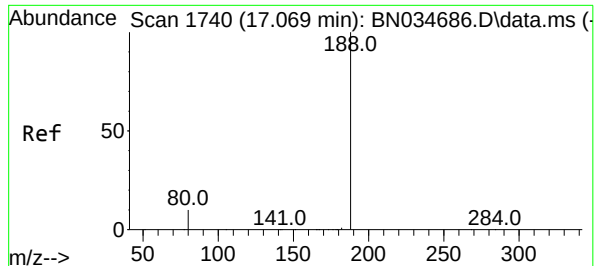
Tgt Ion:154 Resp: 5306
Ion Ratio Lower Upper
154 100
153 112.7 88.2 132.2
152 60.1 46.9 70.3



#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# 1740

Delta R.T. 0.000 min

Lab File: BN034685.D

Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

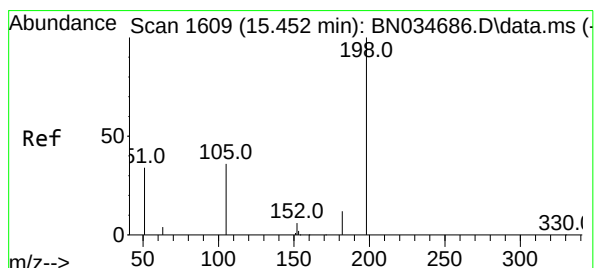
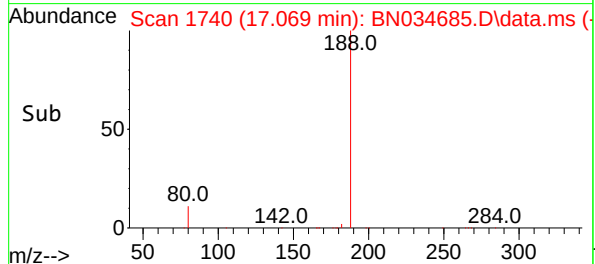
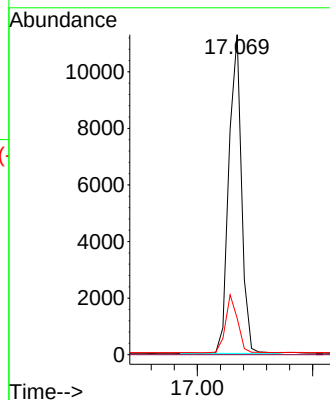
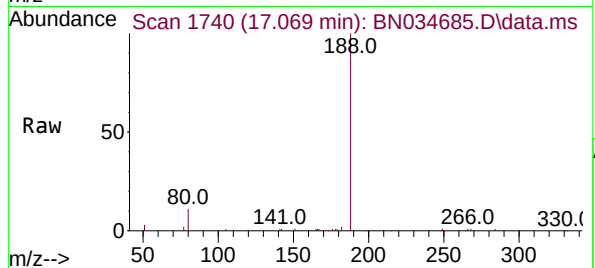
Tgt Ion:188 Resp: 17136

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

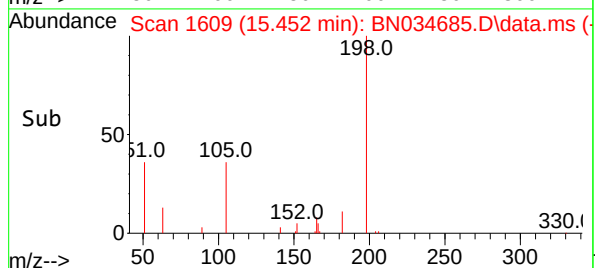
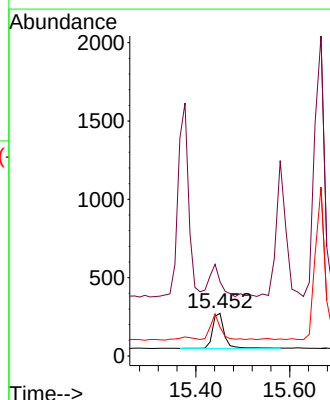
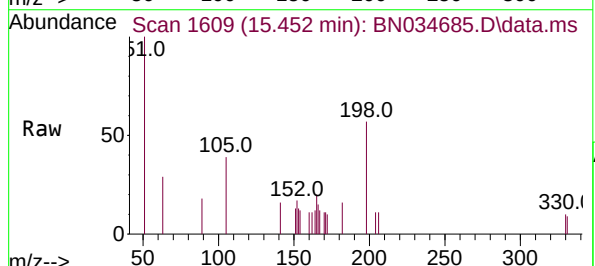
Tgt Ion:198 Resp: 410

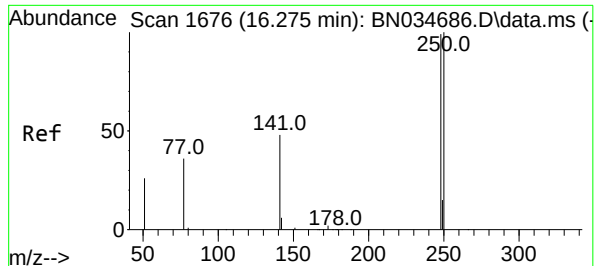
Ion Ratio Lower Upper

198 100

51 174.3 91.8 137.8#

105 67.3 44.3 66.5#

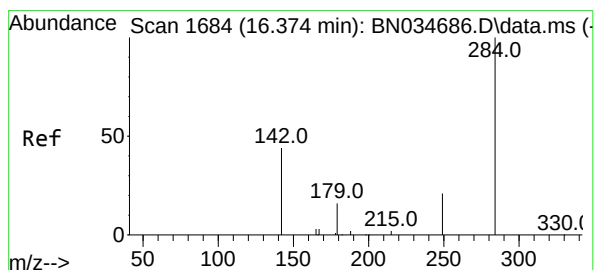
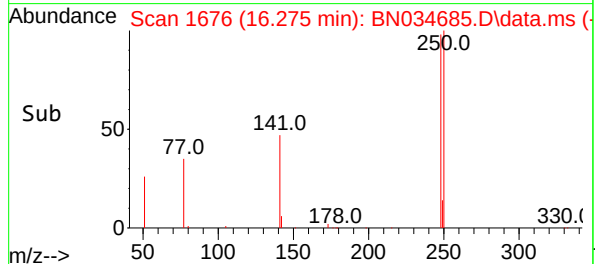
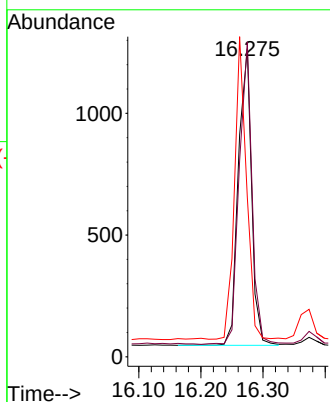
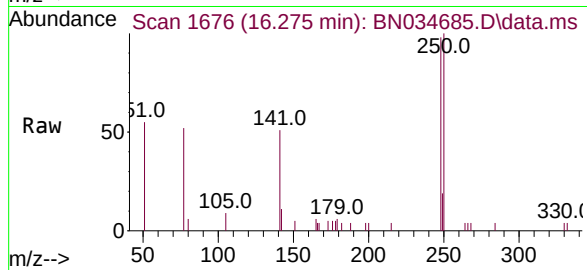




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

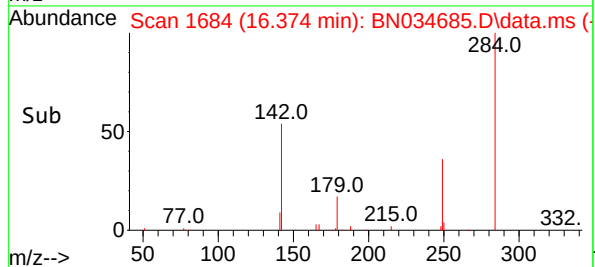
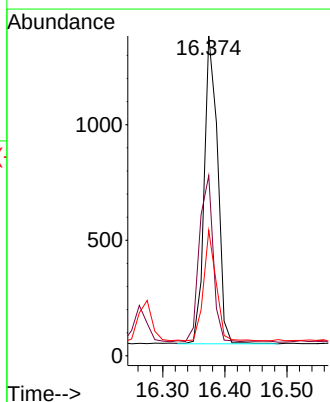
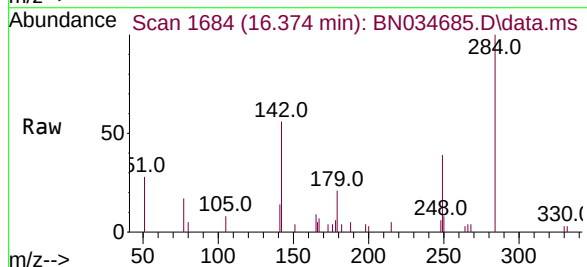
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

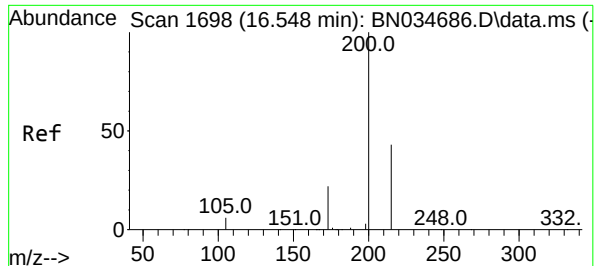
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.2	80.9	121.3
141	51.7	40.5	60.7



#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

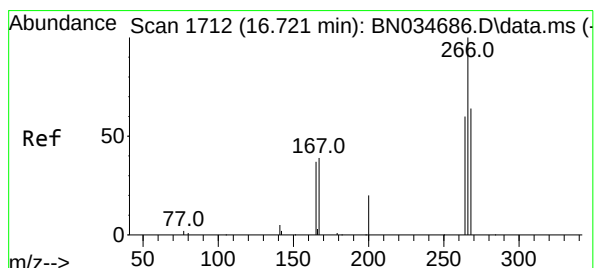
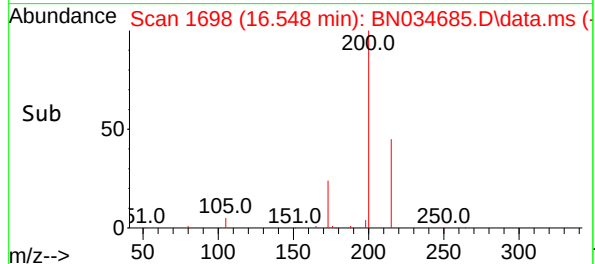
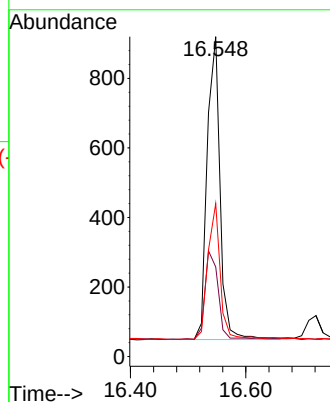
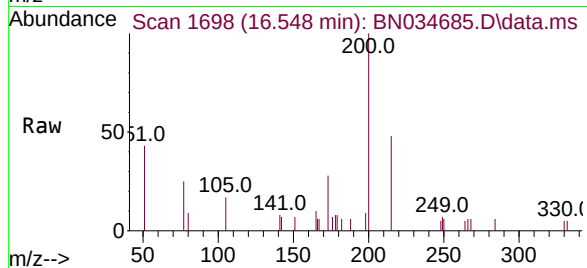




#23
Atrazine
Concen: 0.165 ng
RT: 16.548 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

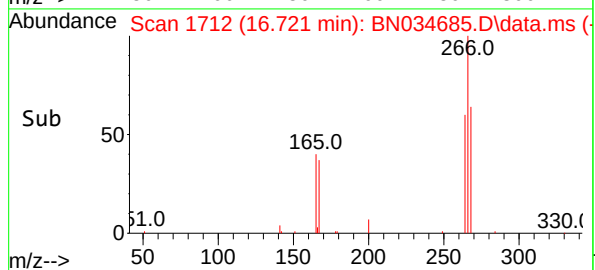
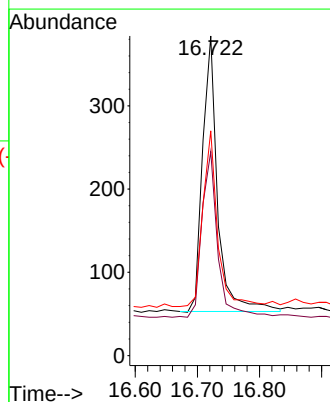
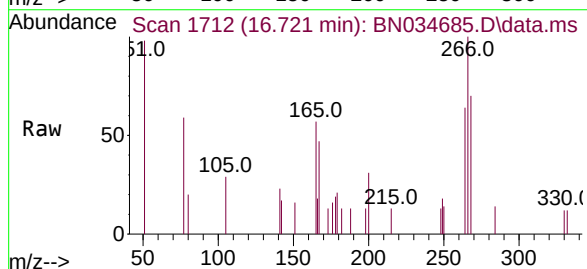
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

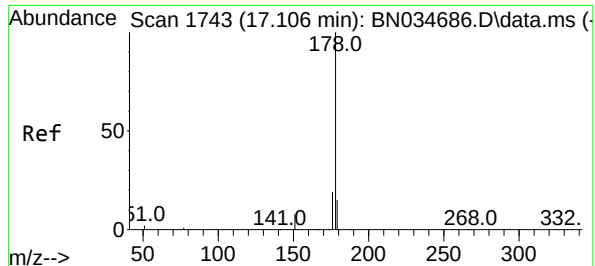
Tgt Ion:200 Resp: 1350
Ion Ratio Lower Upper
200 100
173 28.0 19.7 29.5
215 47.8 35.7 53.5



#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

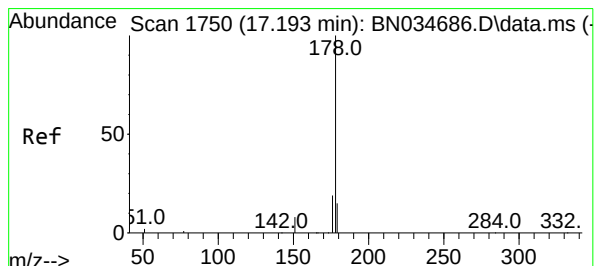
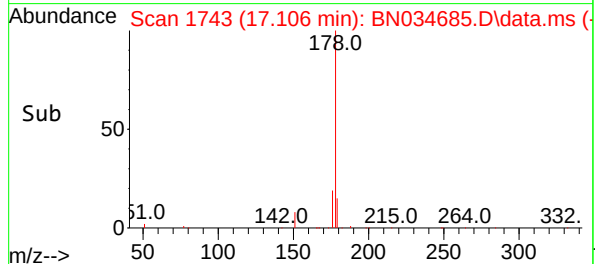
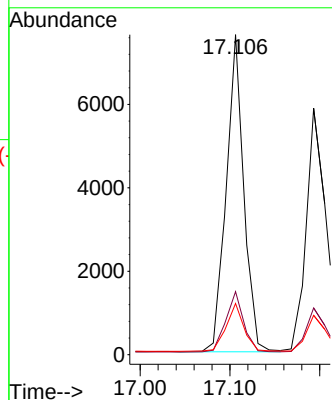
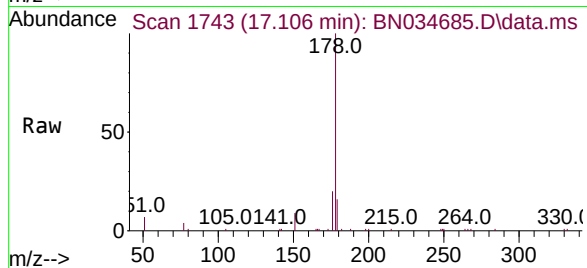




#25
Phenanthrene
Concen: 0.203 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

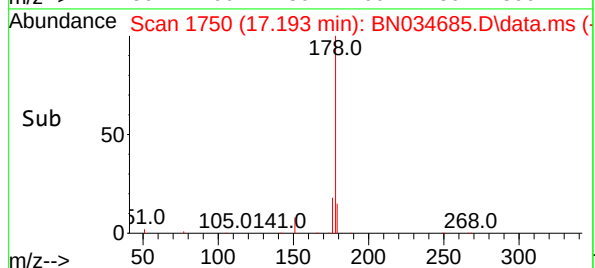
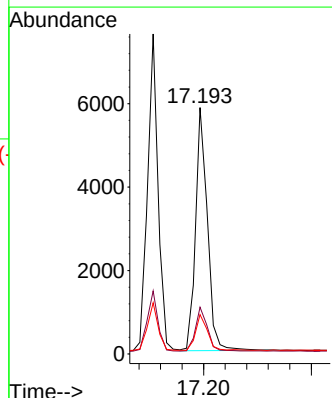
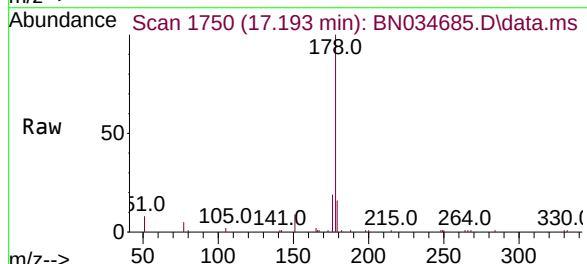
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

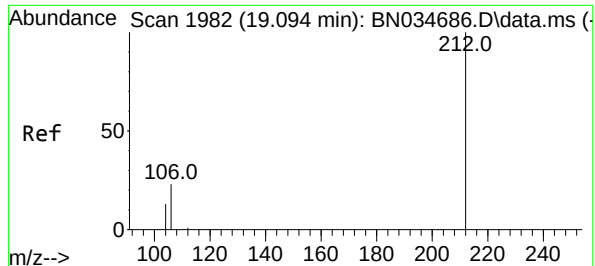
Tgt Ion:178 Resp: 10352
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.2 18.4



#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

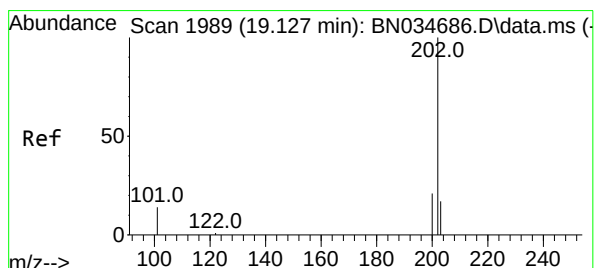
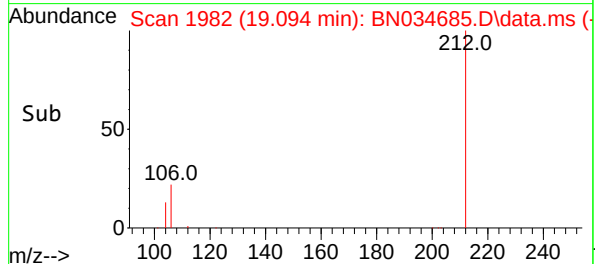
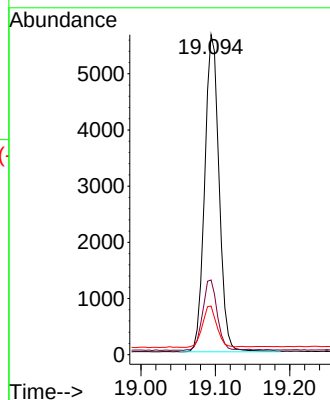
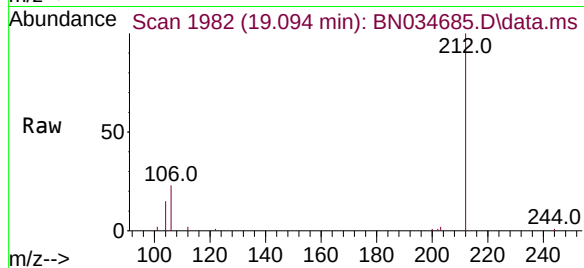
Tgt Ion:212 Resp: 7583

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

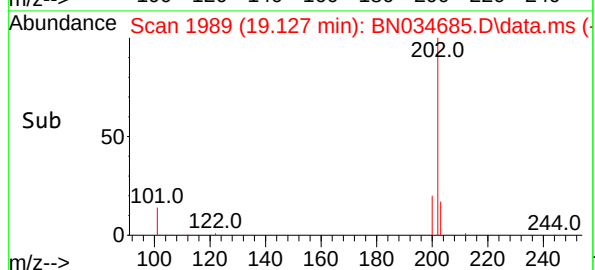
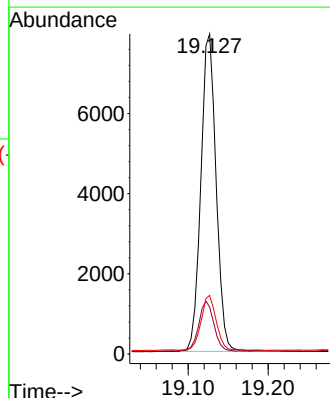
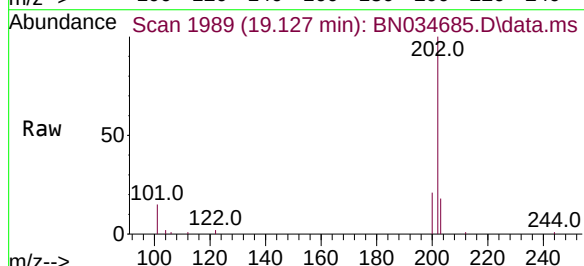
Tgt Ion:202 Resp: 10471

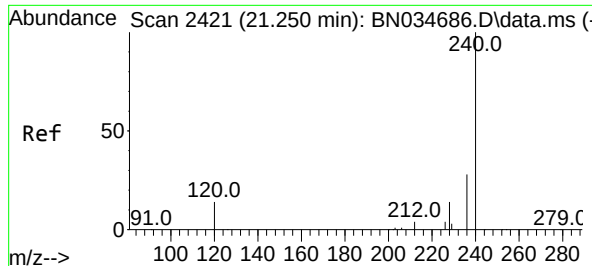
Ion Ratio Lower Upper

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

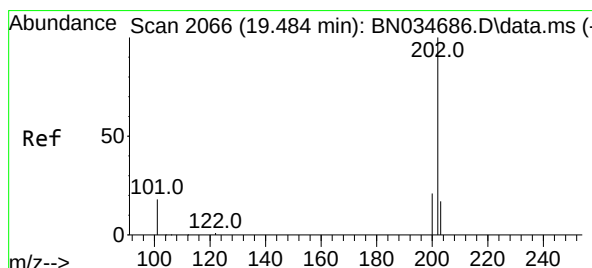
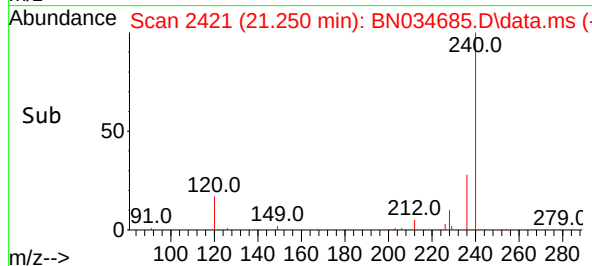
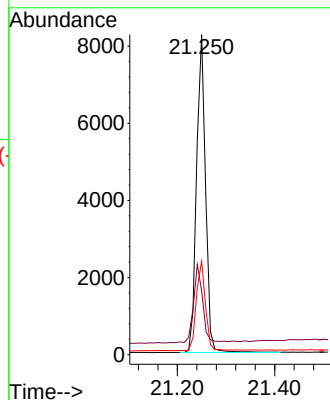
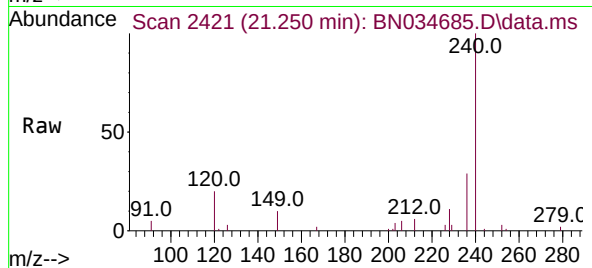
Tgt Ion:240 Resp: 10548

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

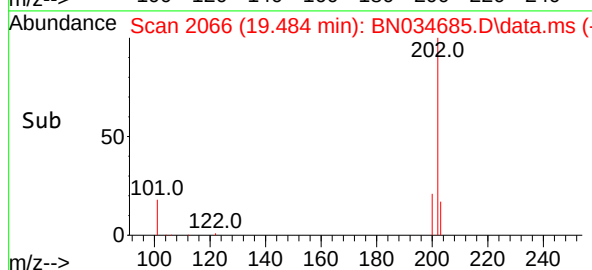
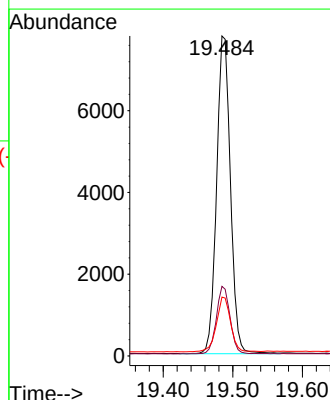
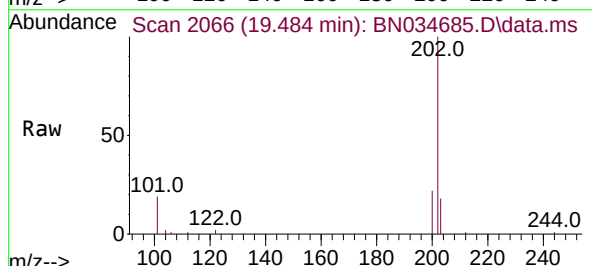
Tgt Ion:202 Resp: 10731

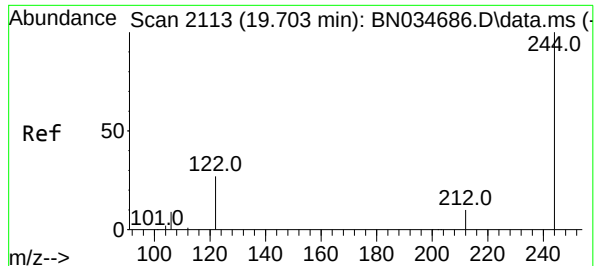
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.6 14.2 21.4

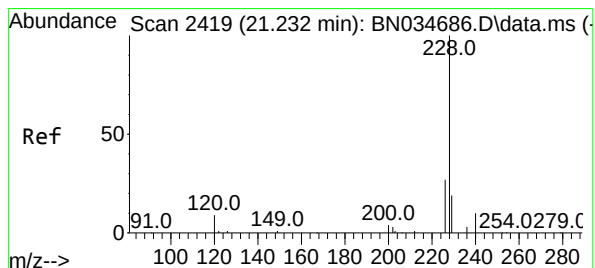
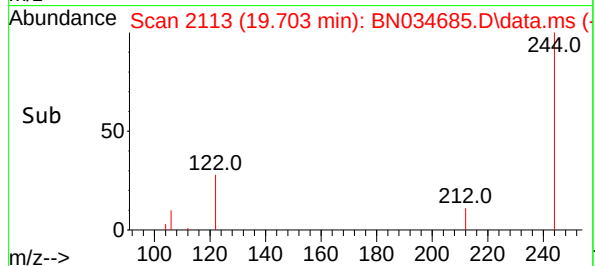
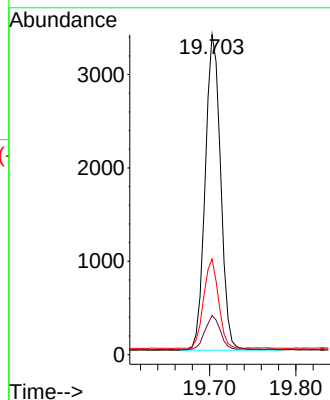
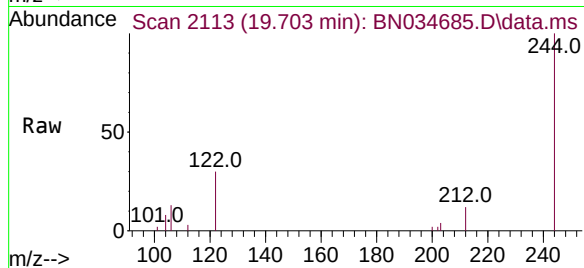




#31
Terphenyl-d14
Concen: 0.206 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034685.D
Acq: 24 Oct 2024 09:47

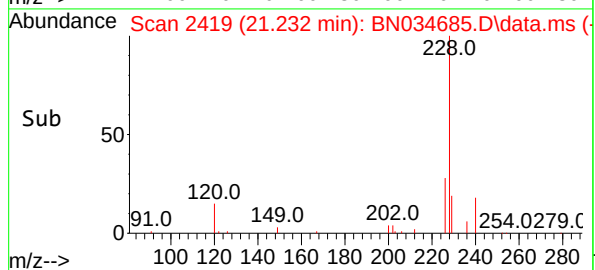
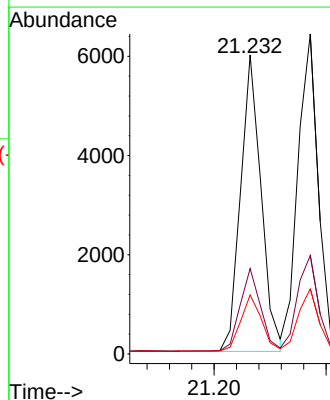
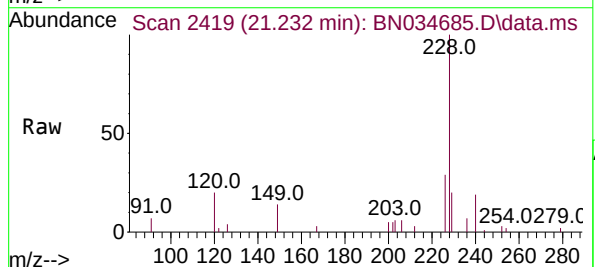
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

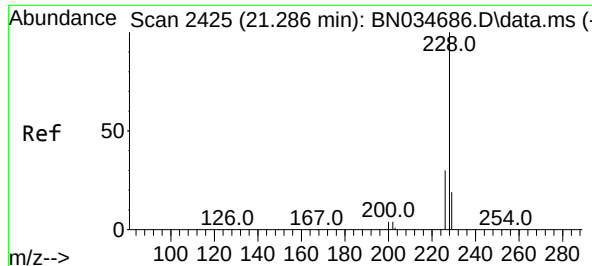
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	8.6	13.0
122	29.9	22.3	33.5



#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	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 :

SSTDICC0.2

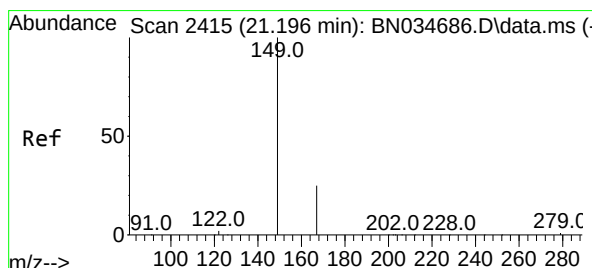
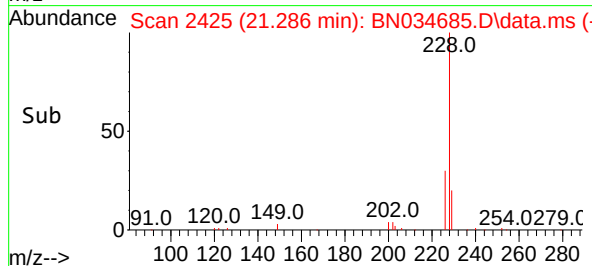
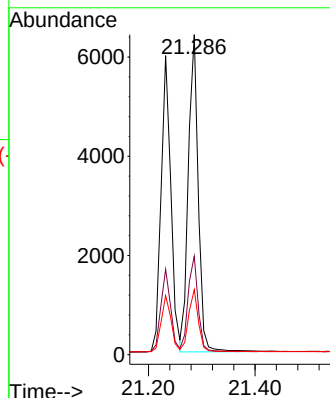
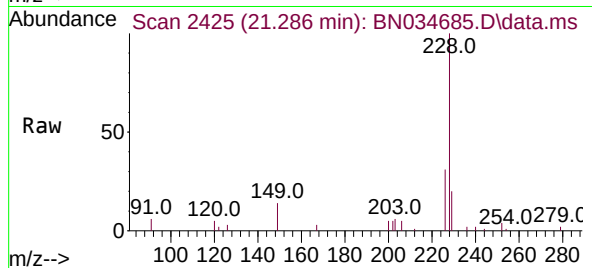
Tgt Ion:228 Resp: 8267

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

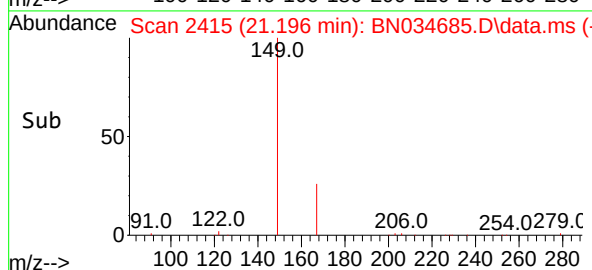
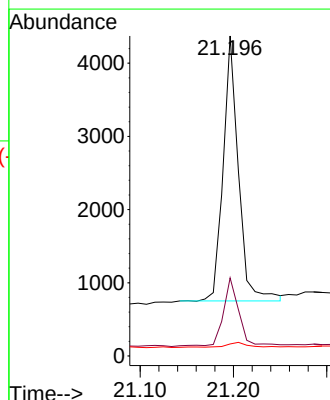
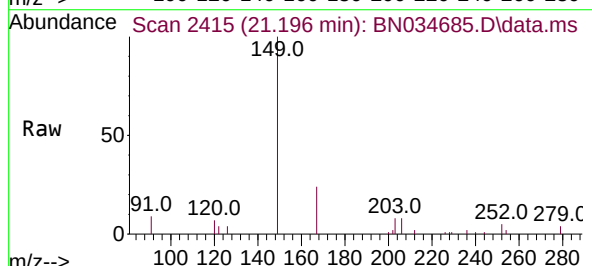
Tgt Ion:149 Resp: 4110

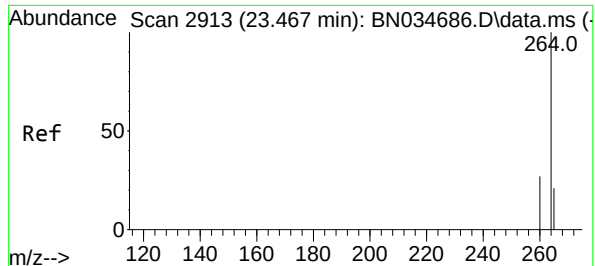
Ion Ratio Lower Upper

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 :

SSTDICC0.2

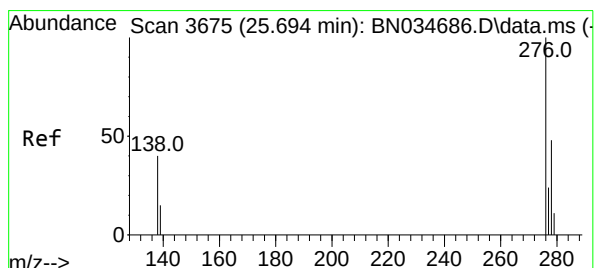
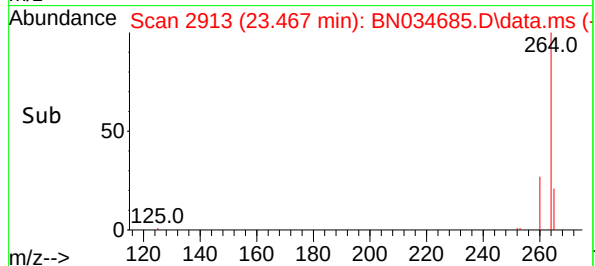
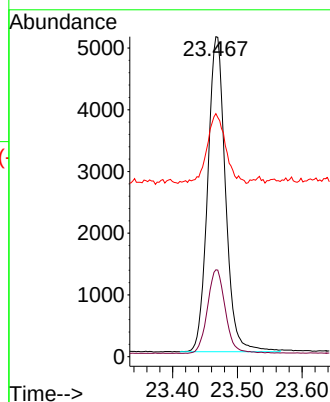
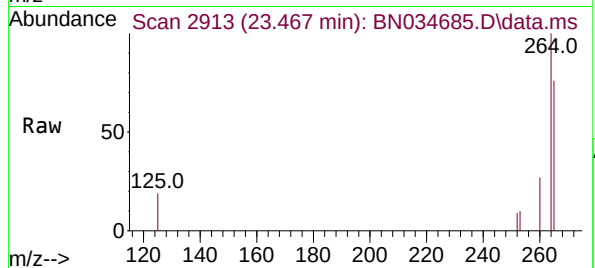
Tgt Ion:264 Resp: 9753

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

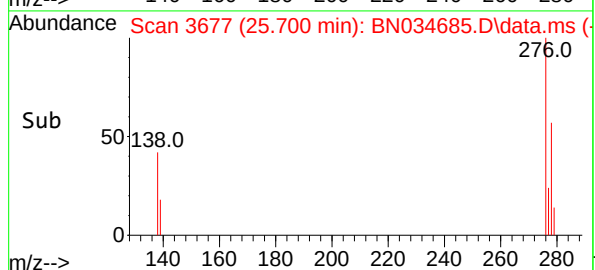
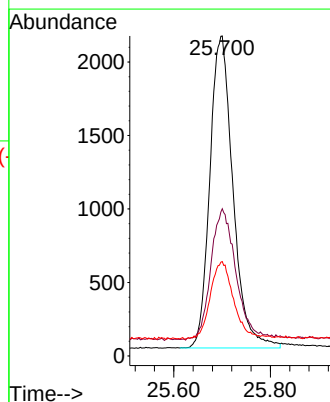
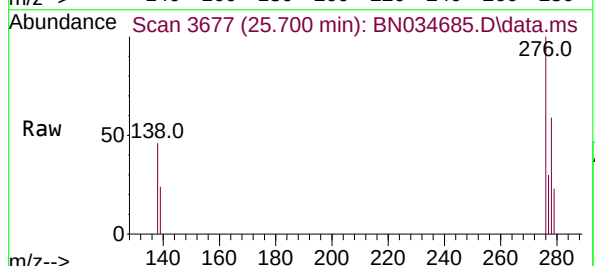
Tgt Ion:276 Resp: 7054

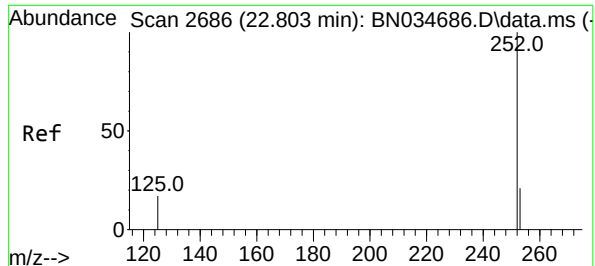
Ion Ratio Lower Upper

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

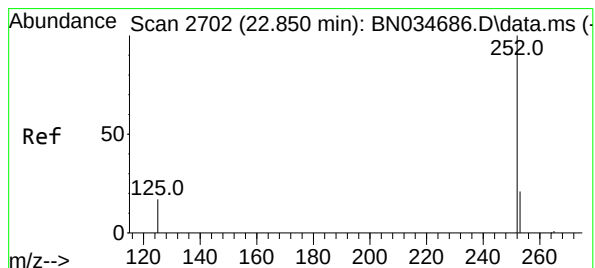
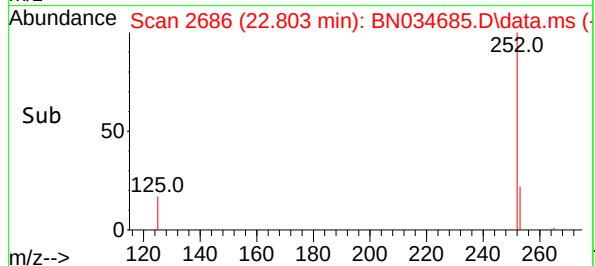
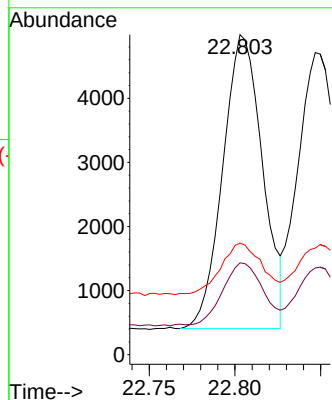
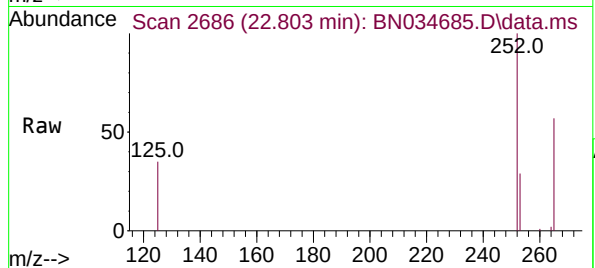
Tgt Ion:252 Resp: 7395

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

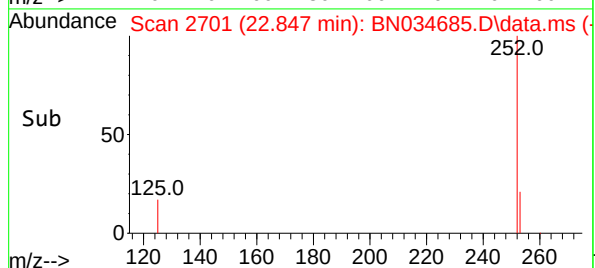
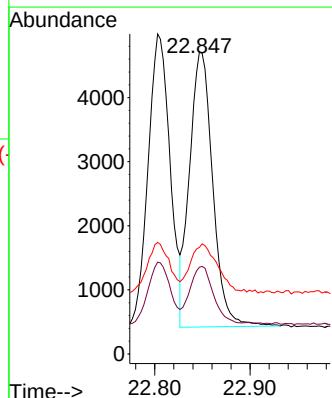
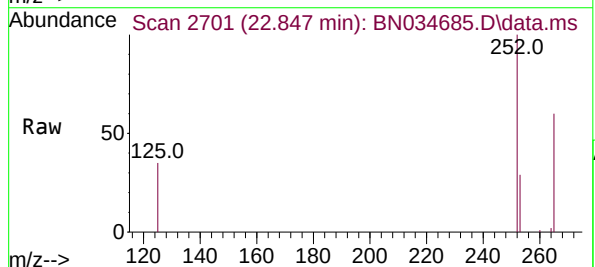
Tgt Ion:252 Resp: 7269

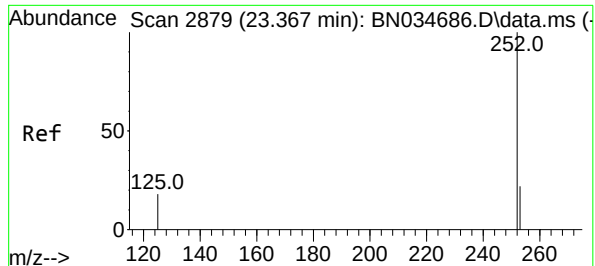
Ion Ratio Lower Upper

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

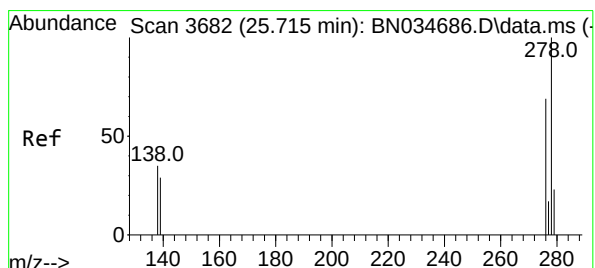
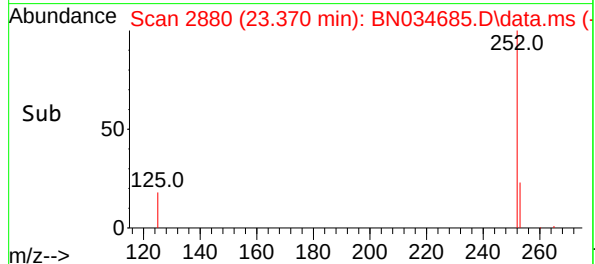
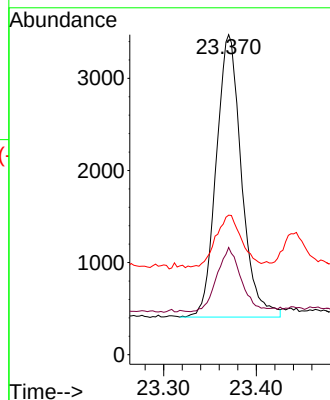
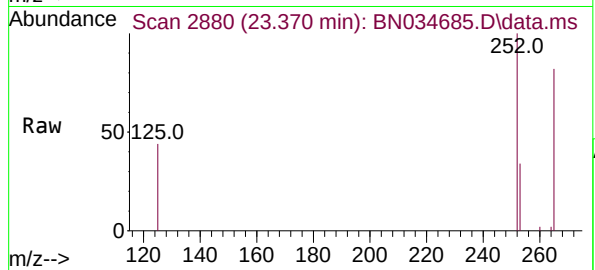
Tgt Ion:252 Resp: 5791

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

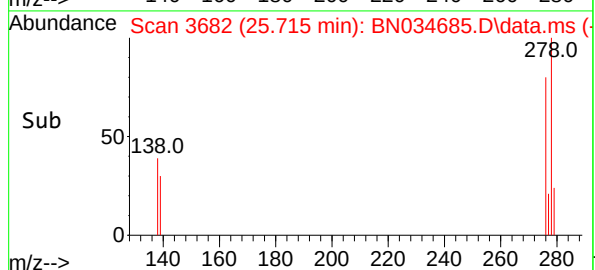
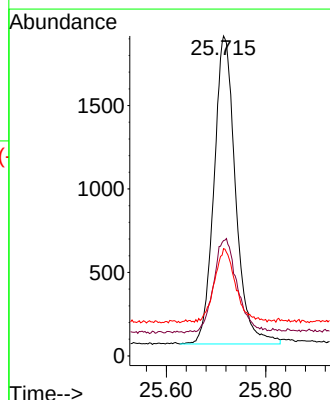
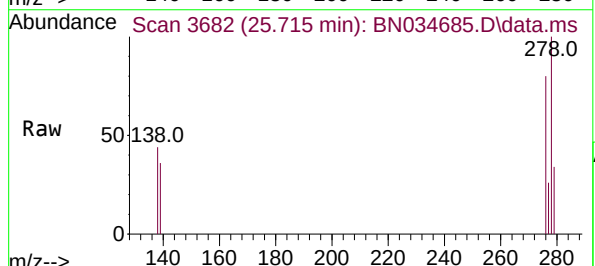
Tgt Ion:278 Resp: 5556

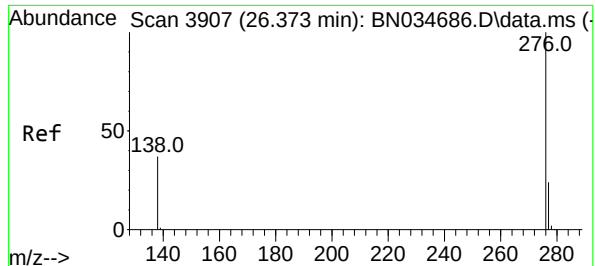
Ion Ratio Lower Upper

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

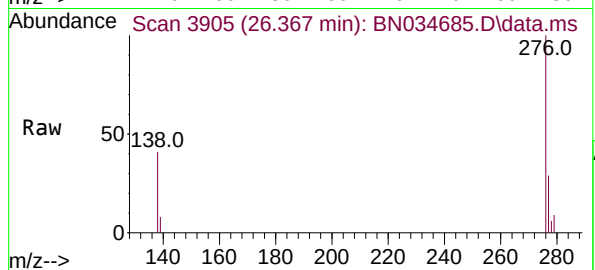
Acq: 24 Oct 2024 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



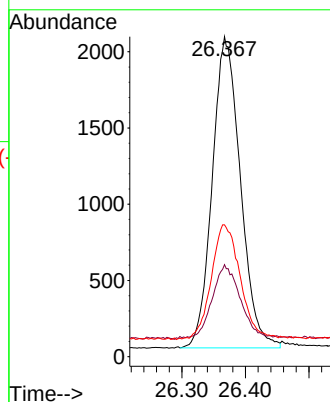
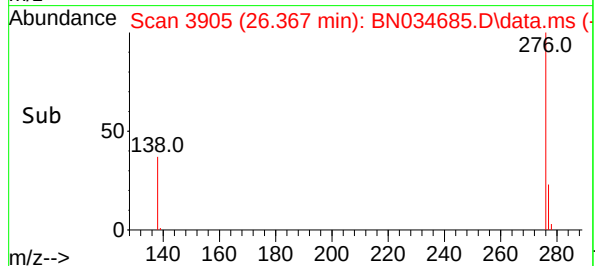
Tgt Ion:276 Resp: 6274

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)

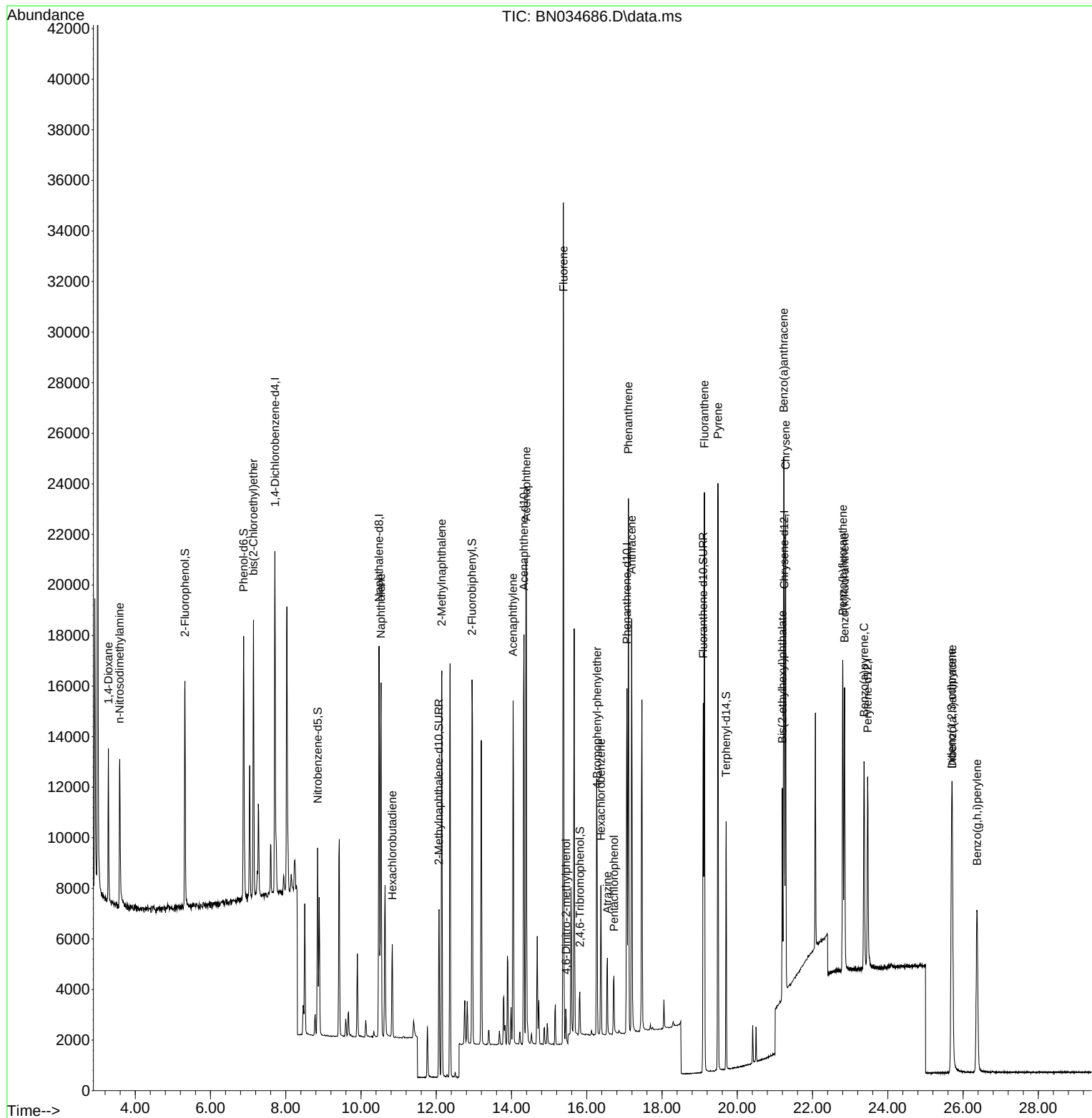
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6324	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18497	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	9311	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	18185	0.400	ng	0.00
29) Chrysene-d12	21.250	240	10628	0.400	ng	0.00
35) Perylene-d12	23.467	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

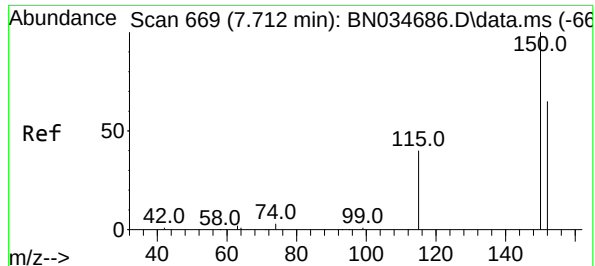
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

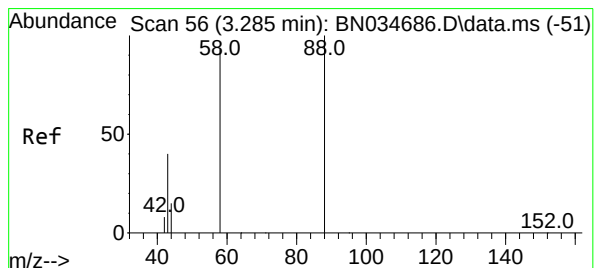
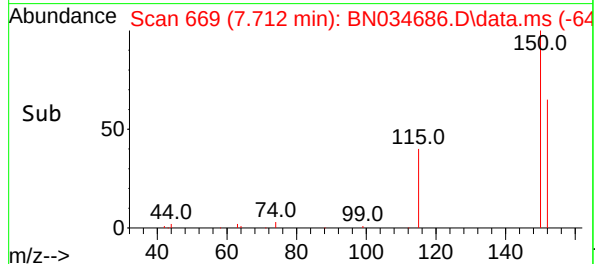
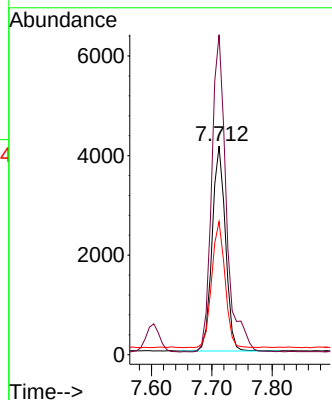
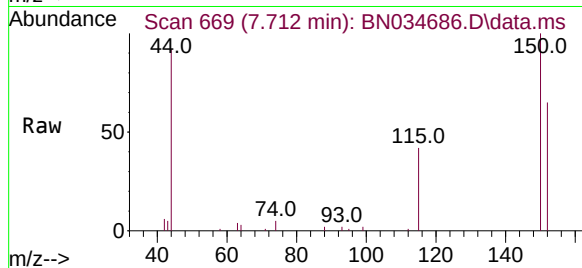




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

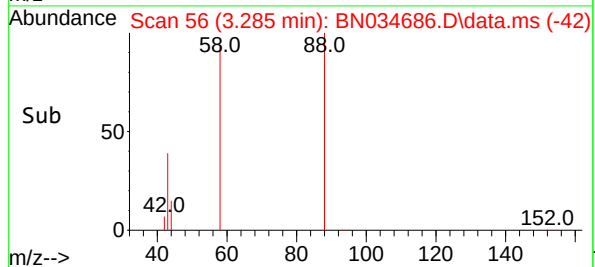
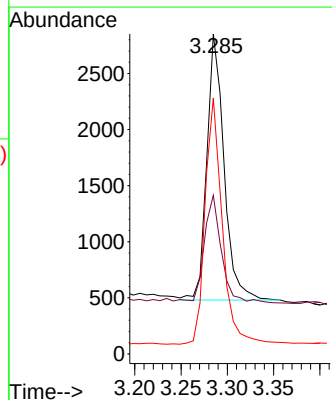
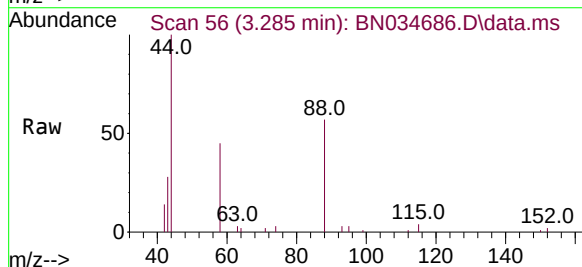
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

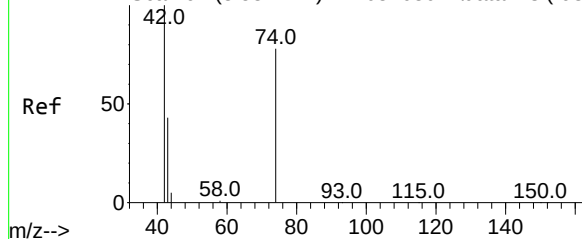


#2
1,4-Dioxane
Concen: 0.398 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

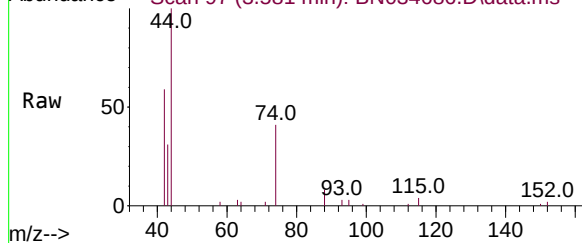
Tgt Ion: 88 Resp: 3065
Ion Ratio Lower Upper
88 100
43 40.1 32.1 48.1
58 92.1 73.7 110.5



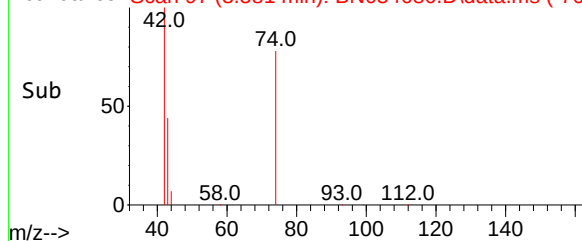
Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



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



Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-76)



#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

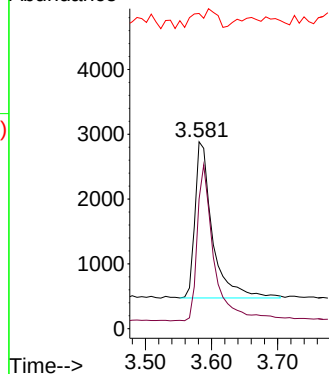
Ion Ratio Lower Upper

42 100

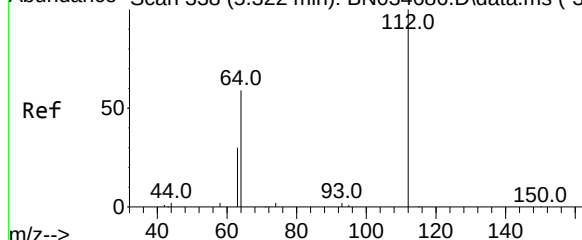
74 96.5 77.2 115.8

44 16.8 13.4 20.2

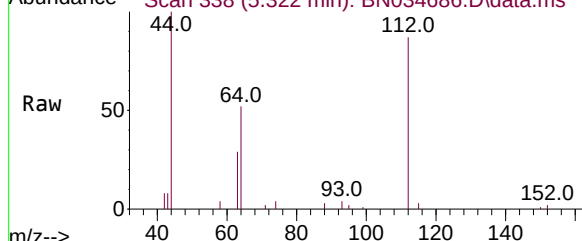
Abundance



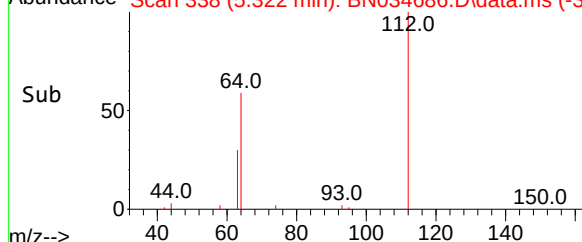
Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



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



Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-31)



#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

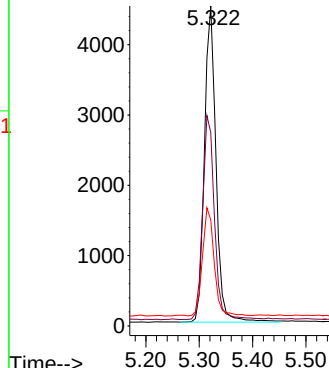
Ion Ratio Lower Upper

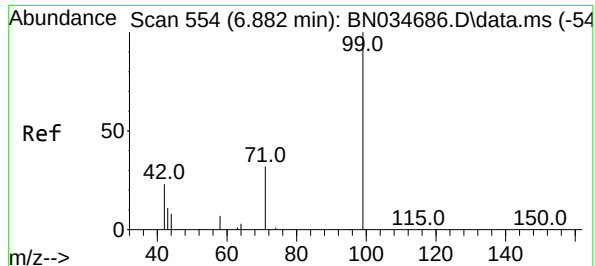
112 100

64 66.3 53.0 79.6

63 34.5 27.6 41.4

Abundance

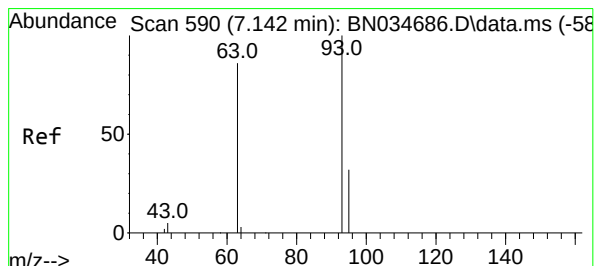
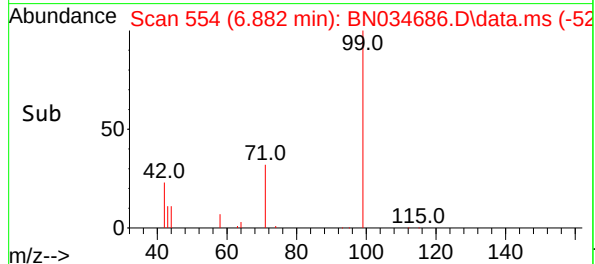
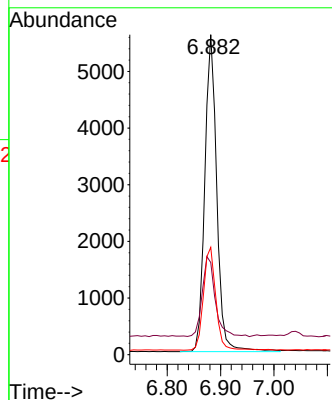
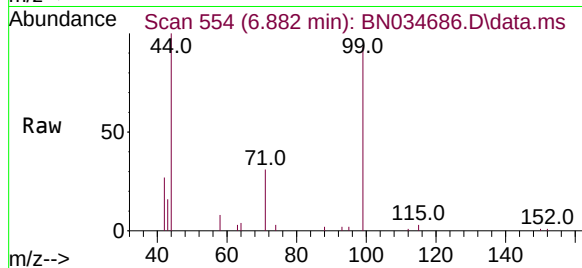




#5
Phenol-d6
Concen: 0.354 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

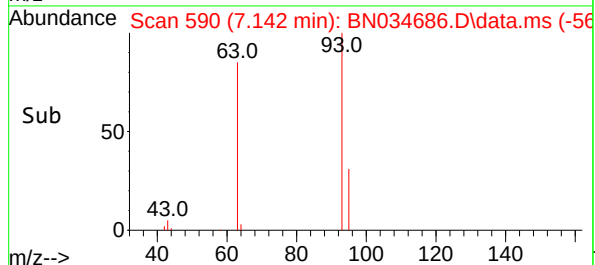
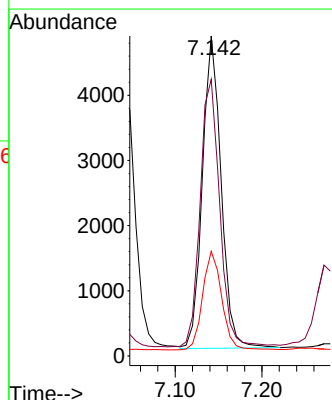
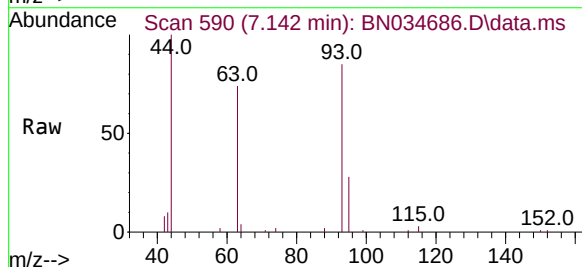
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

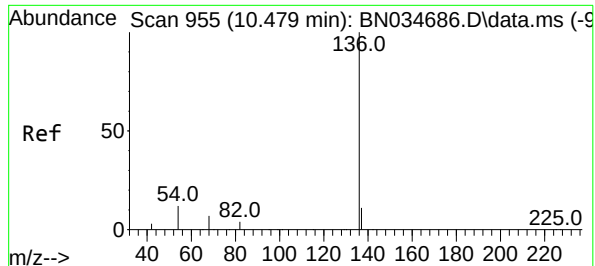
Tgt Ion: 99 Resp: 8764
Ion Ratio Lower Upper
99 100
42 27.3 21.8 32.8
71 33.3 26.6 40.0



#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

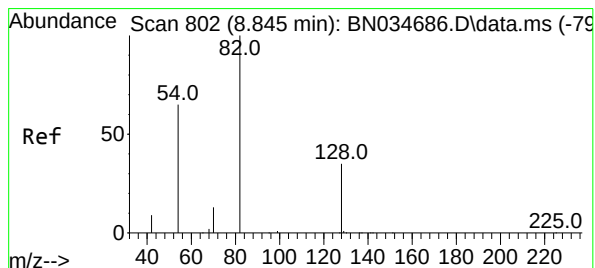
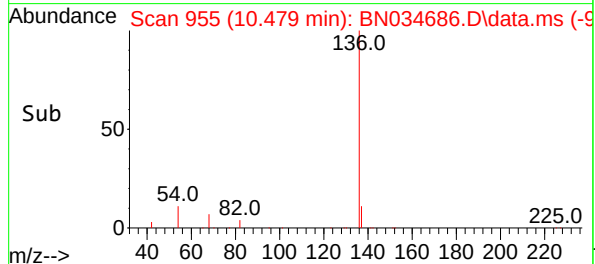
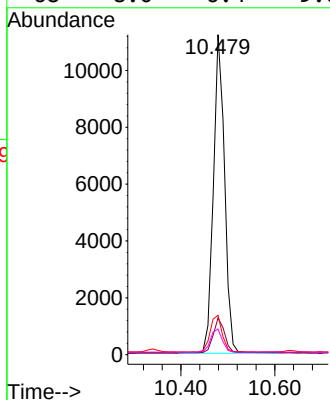
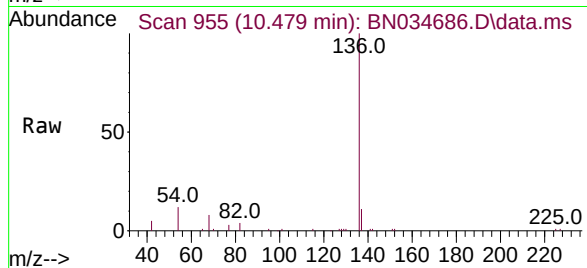




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

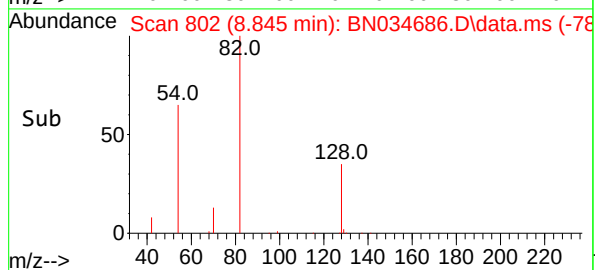
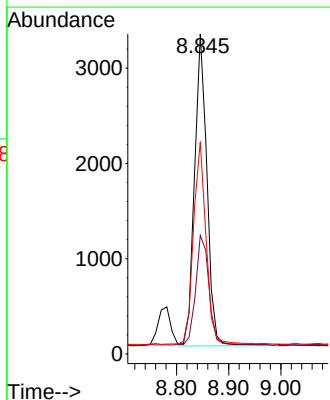
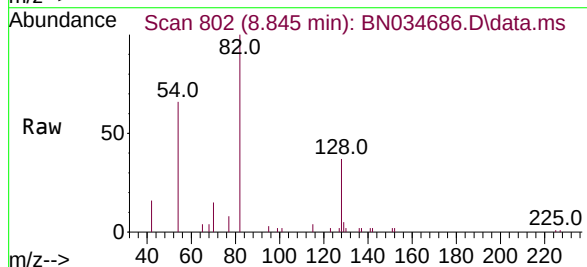
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

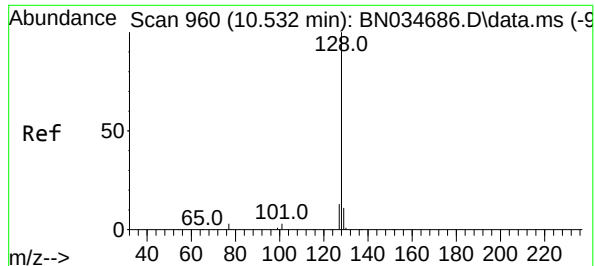
Tgt Ion:	136	Resp:	18497
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.3	9.8	14.8
68	8.0	6.4	9.6



#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

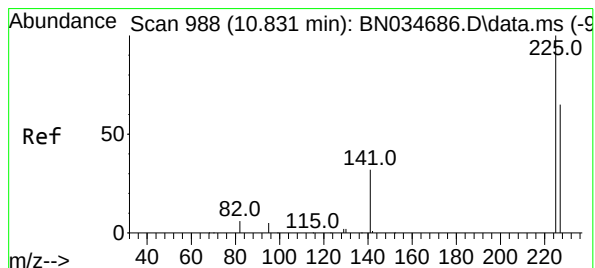
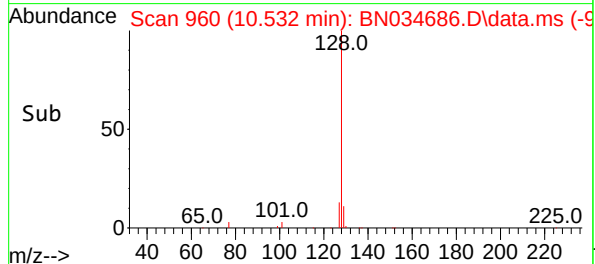
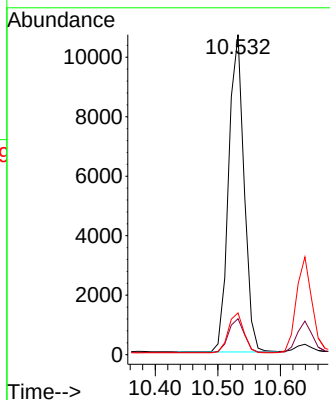
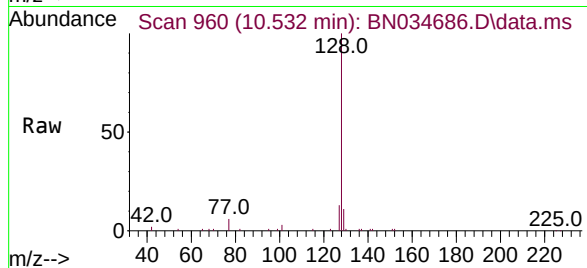




#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

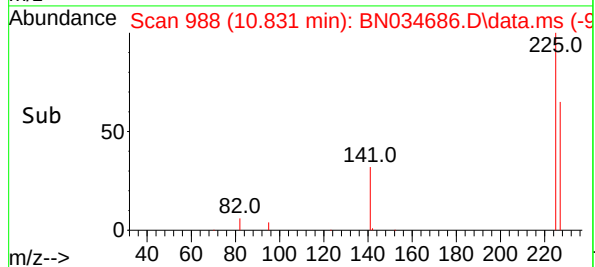
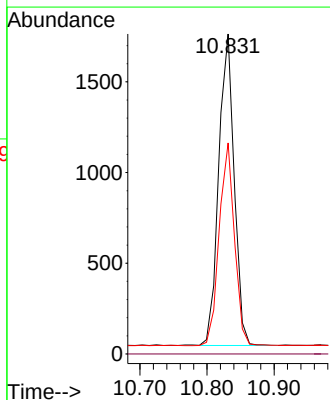
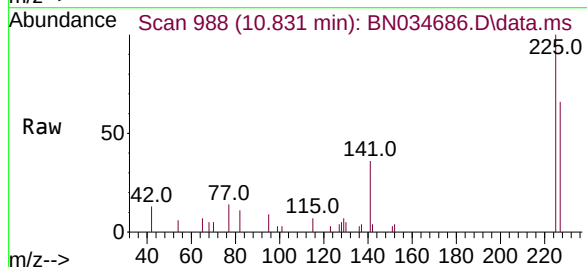
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

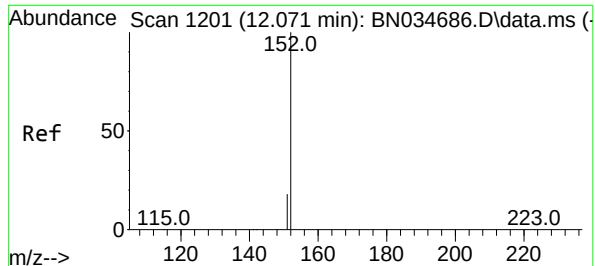
Tgt Ion:128 Resp: 18256
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.1 10.5 15.7



#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

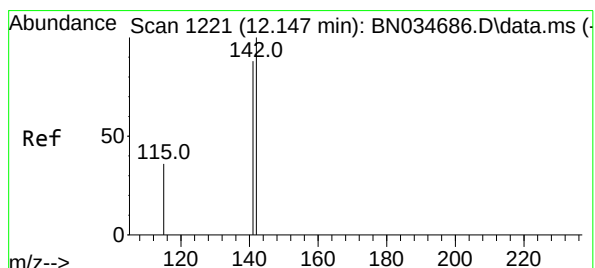
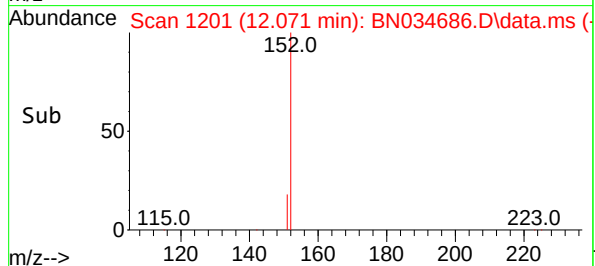
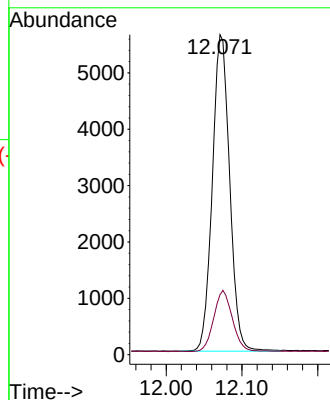
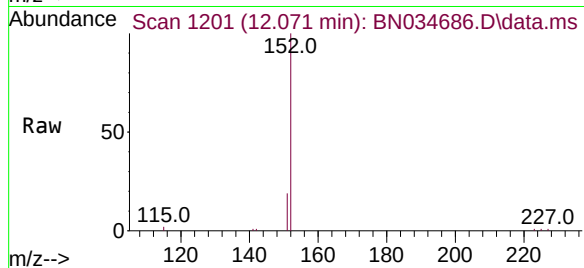




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

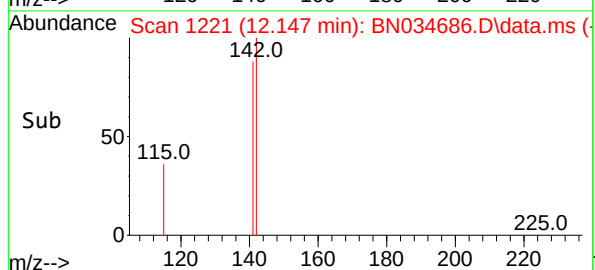
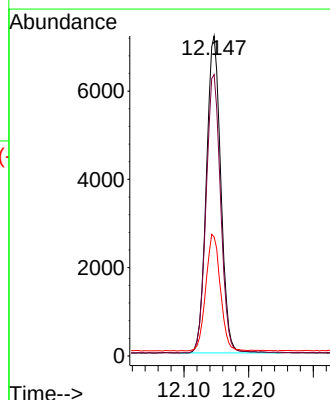
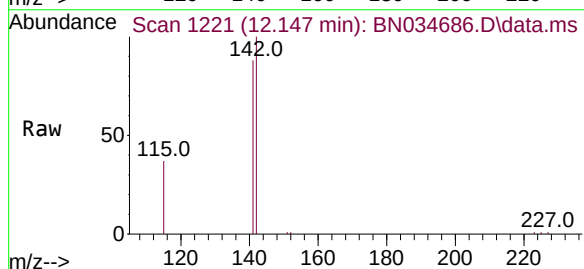
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

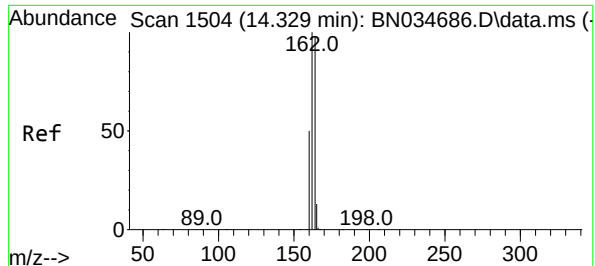
Tgt Ion:152 Resp: 8901
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#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

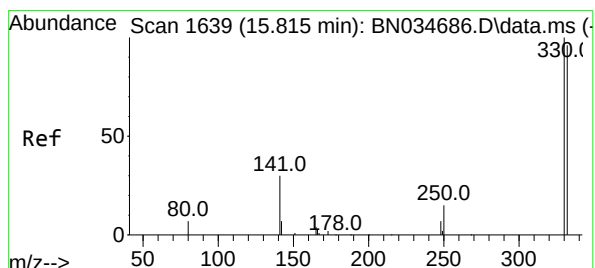
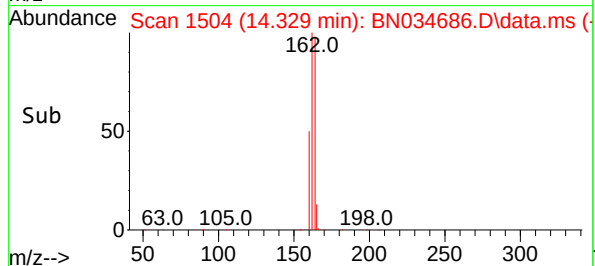
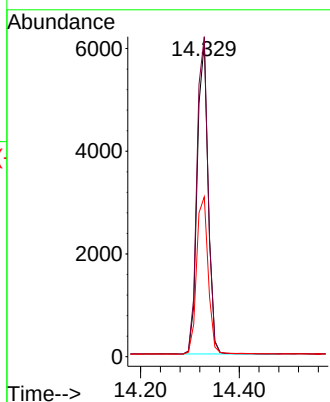
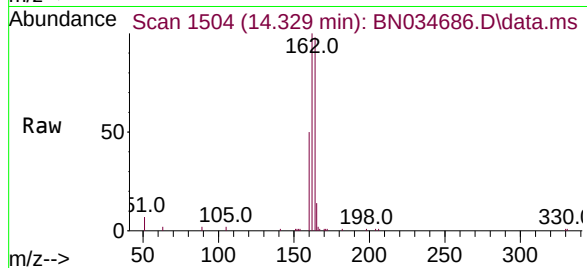




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

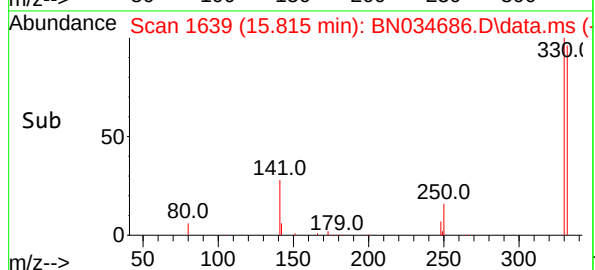
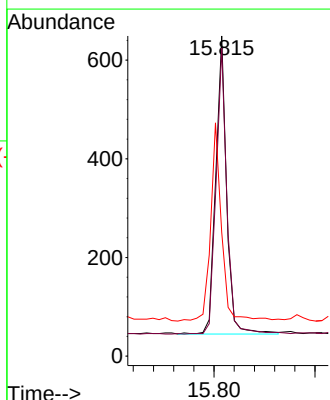
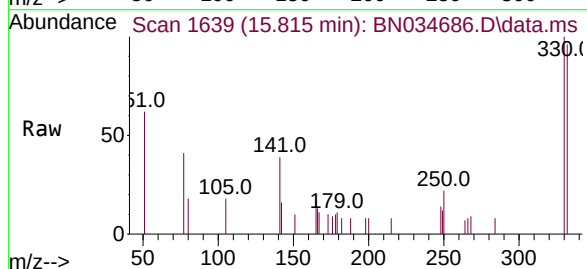
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

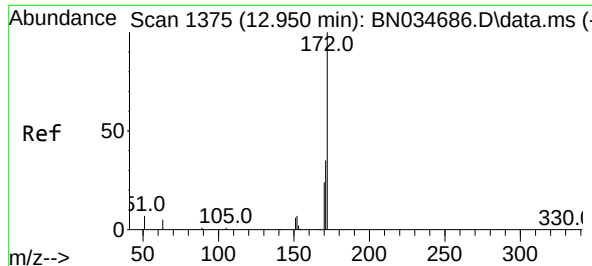
Tgt Ion:164 Resp: 9311
Ion Ratio Lower Upper
164 100
162 101.7 81.4 122.0
160 50.8 40.6 61.0



#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

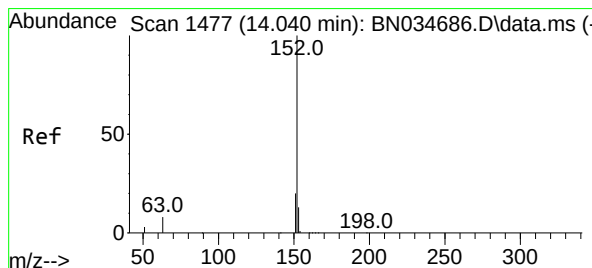
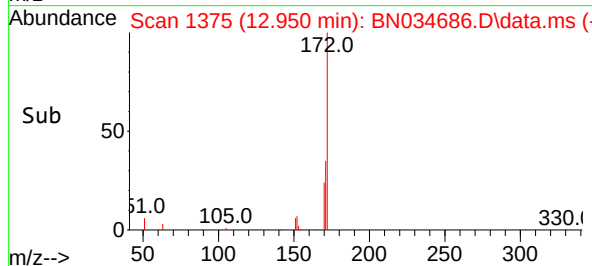
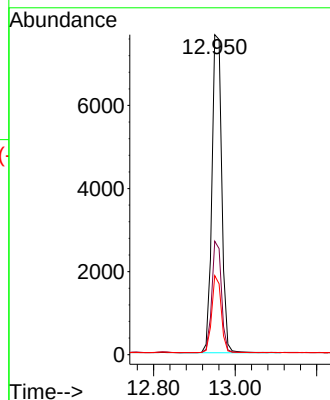
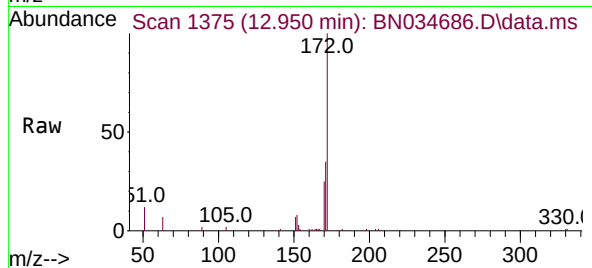




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

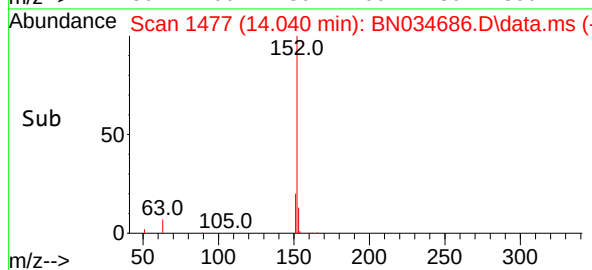
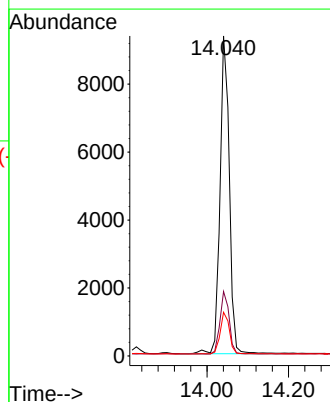
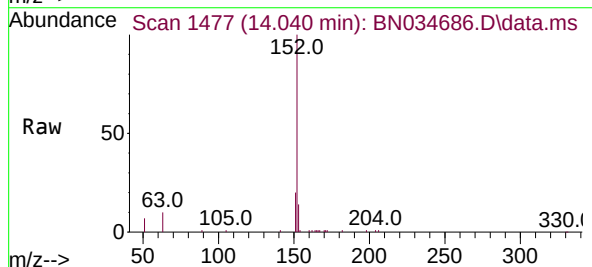
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

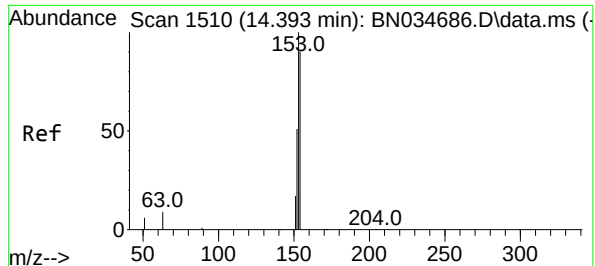
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.3	42.5
170	24.7	19.8	29.6



#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	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.2	10.6	15.8

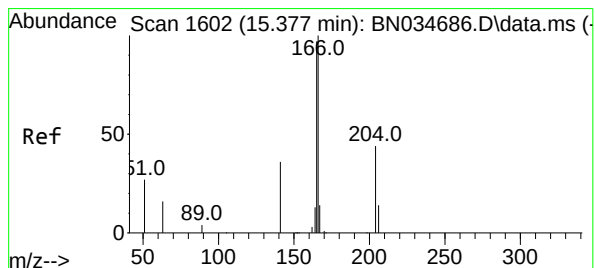
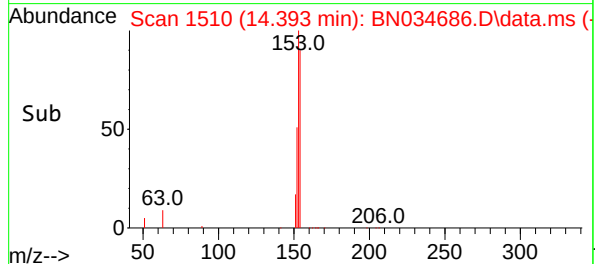
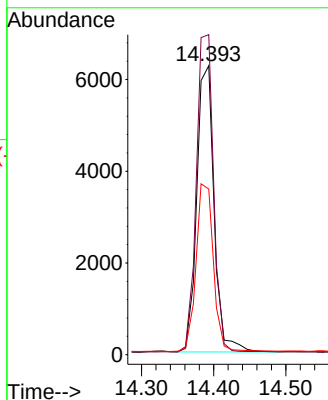
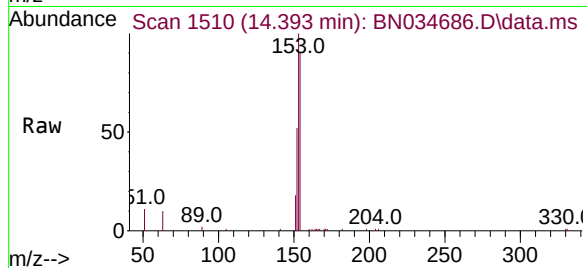




#17
Acenaphthene
Concen: 0.342 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

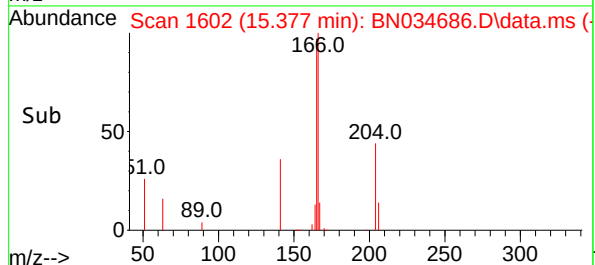
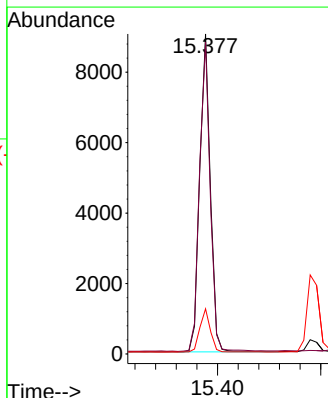
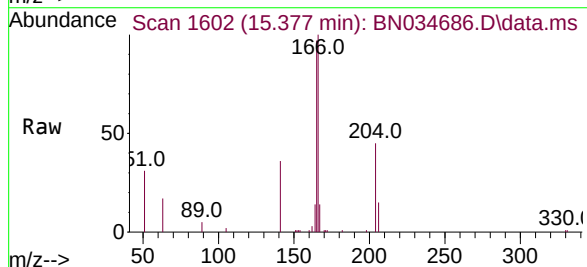
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

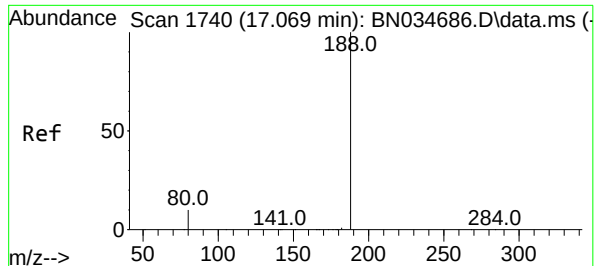
Tgt Ion:154 Resp: 10443
Ion Ratio Lower Upper
154 100
153 110.2 88.2 132.2
152 58.6 46.9 70.3



#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# 11

Delta R.T. 0.000 min

Lab File: BN034686.D

Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

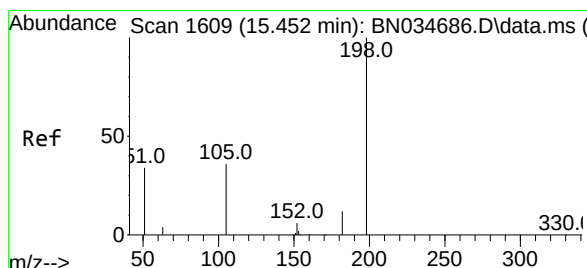
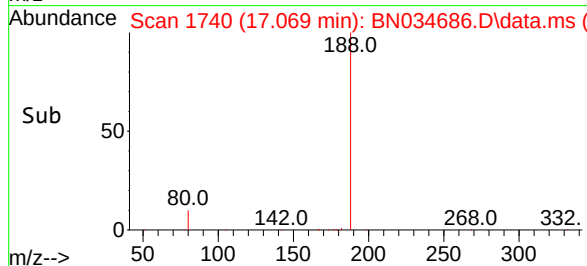
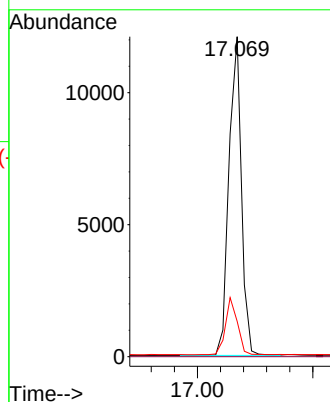
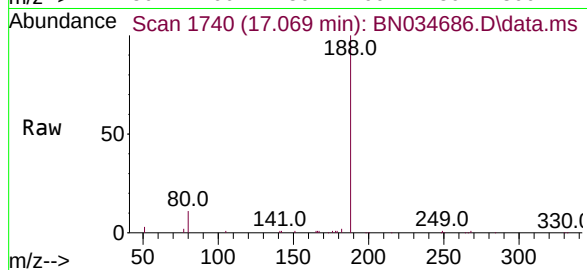
Tgt Ion:188 Resp: 18185

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

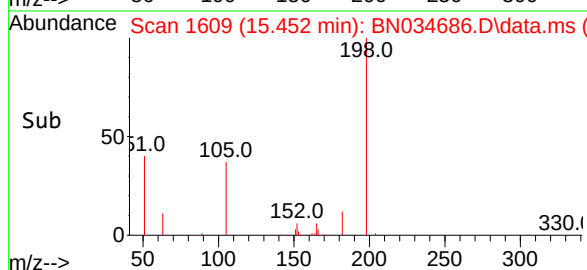
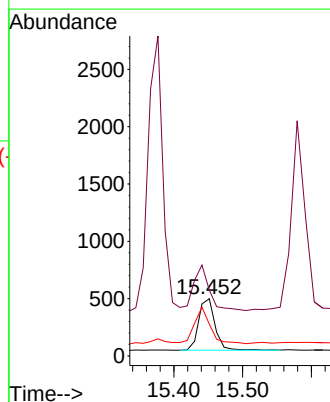
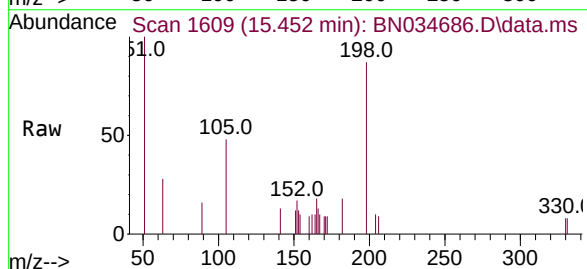
Tgt Ion:198 Resp: 774

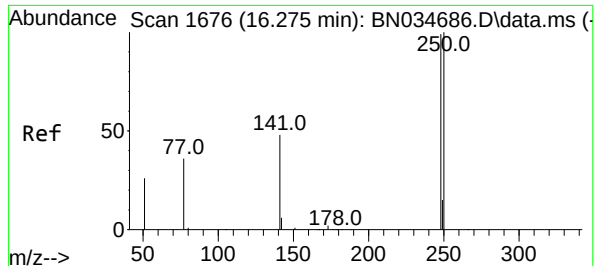
Ion Ratio Lower Upper

198 100

51 114.8 91.8 137.8

105 55.4 44.3 66.5

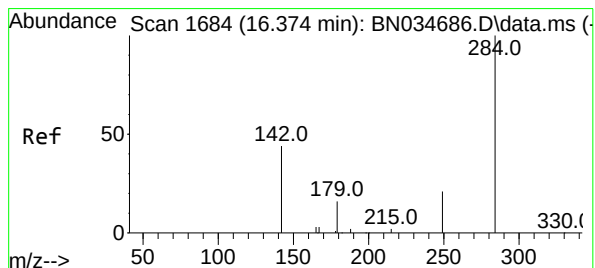
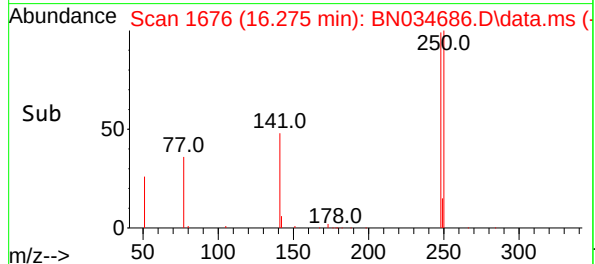
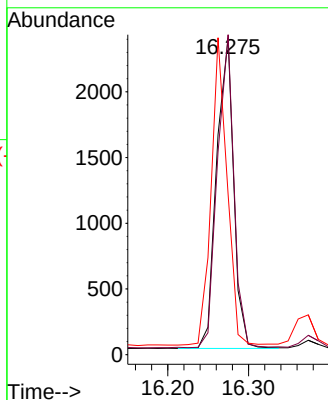
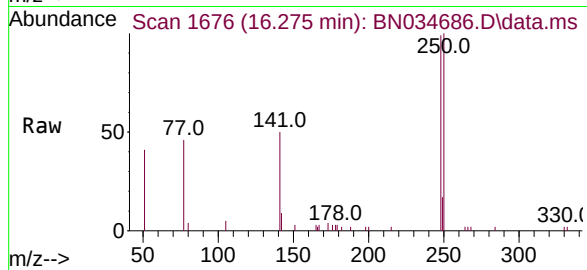




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

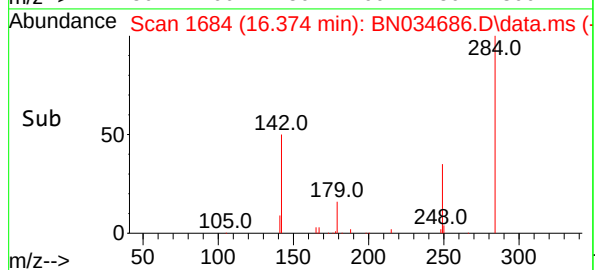
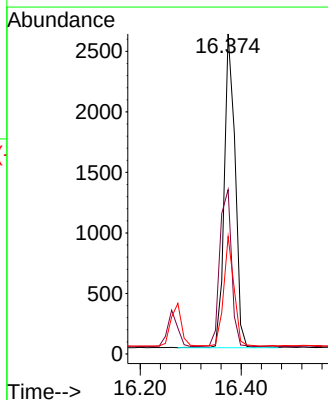
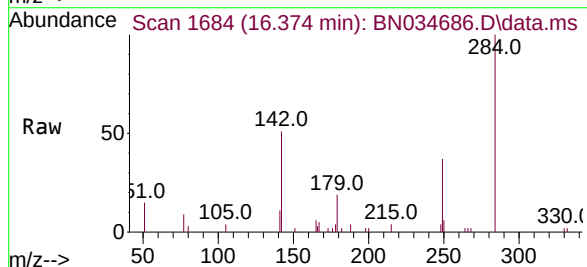
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

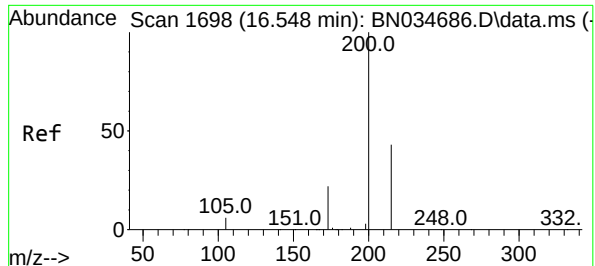
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.9	121.3
141	50.6	40.5	60.7



#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

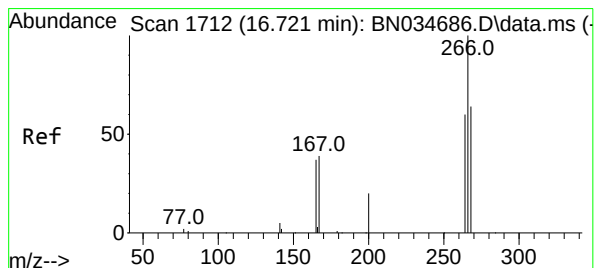
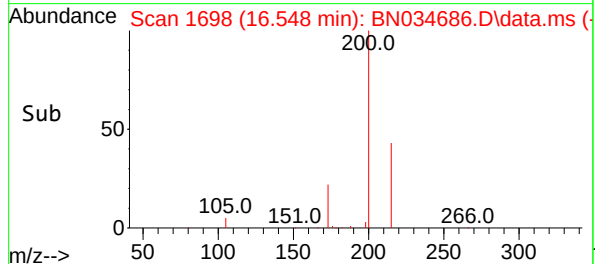
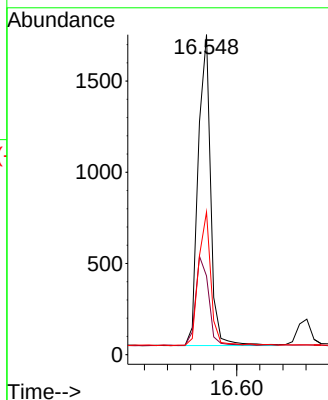
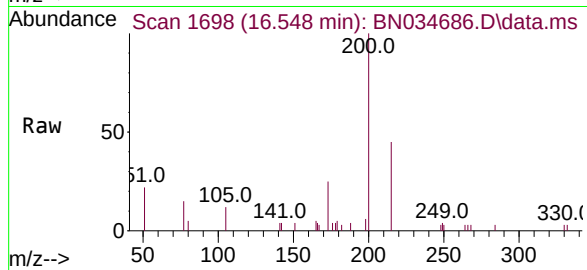




#23
Atrazine
Concen: 0.292 ng
RT: 16.548 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

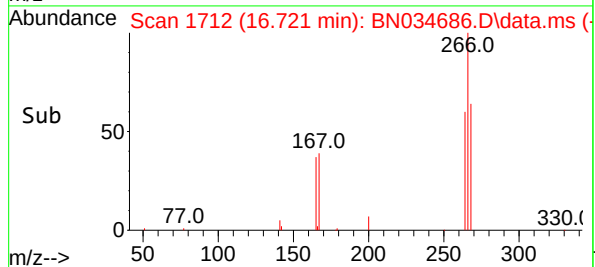
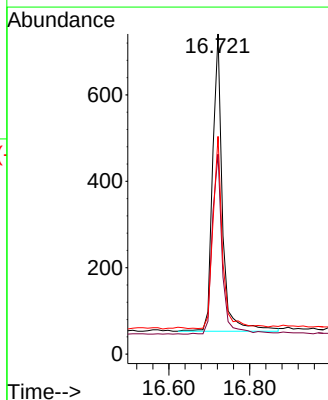
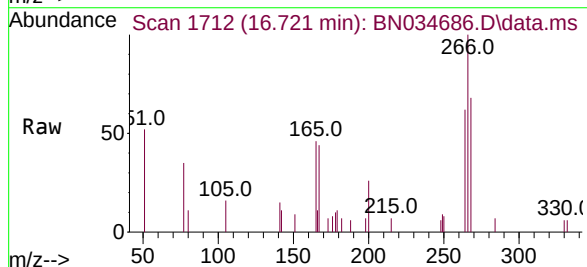
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

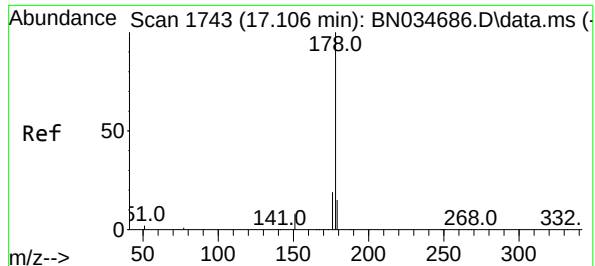
Tgt Ion:200 Resp: 2545
Ion Ratio Lower Upper
200 100
173 24.6 19.7 29.5
215 44.6 35.7 53.5



#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

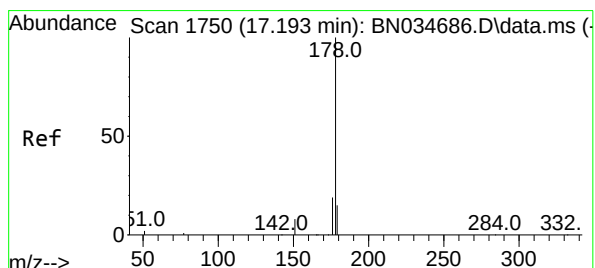
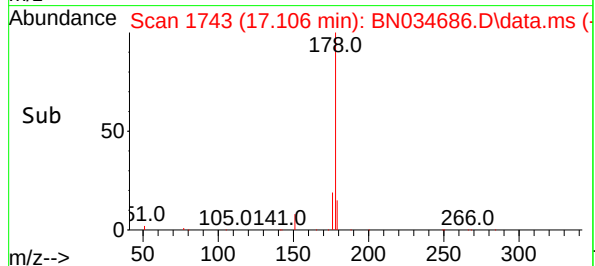
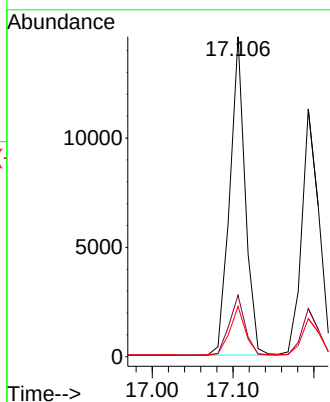
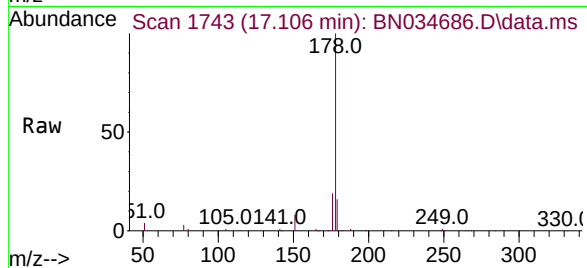
Tgt Ion:178 Resp: 19369

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

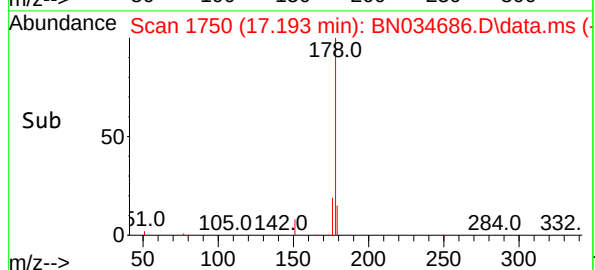
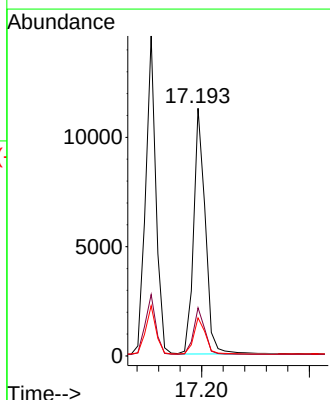
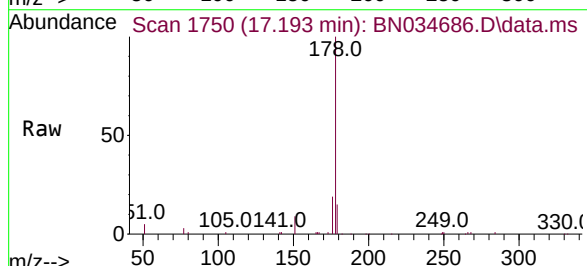
Tgt Ion:178 Resp: 16930

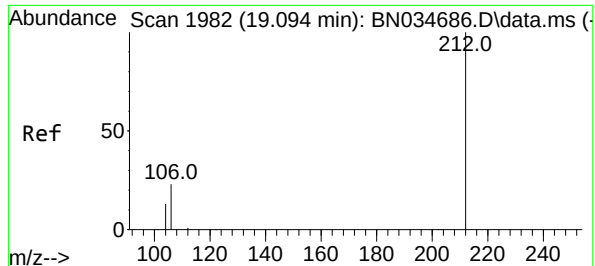
Ion Ratio Lower Upper

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

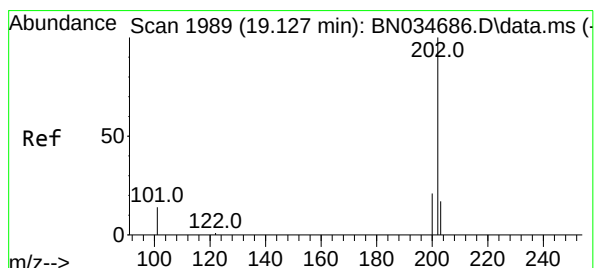
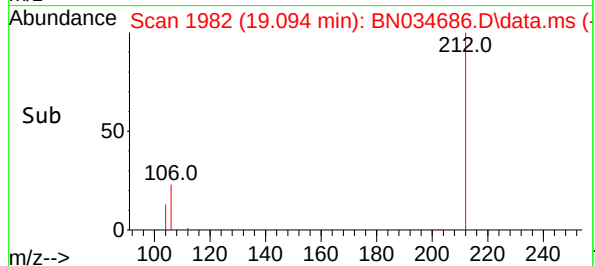
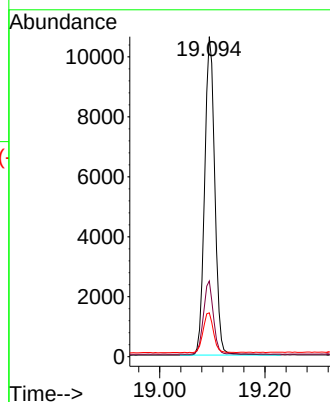
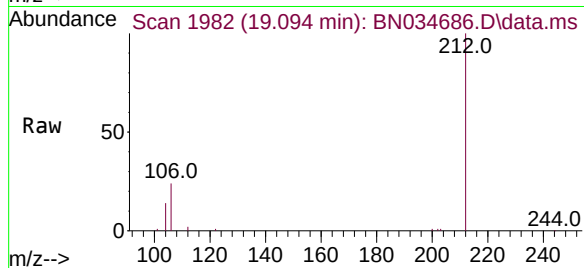
Tgt Ion:212 Resp: 14254

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

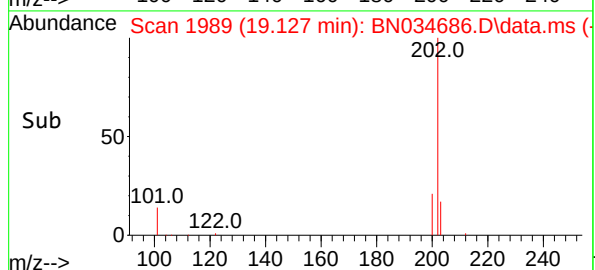
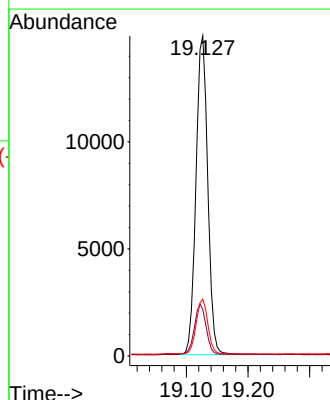
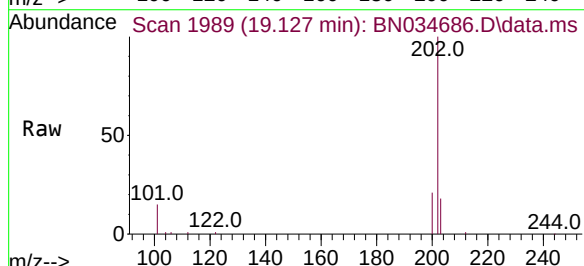
Tgt Ion:202 Resp: 19859

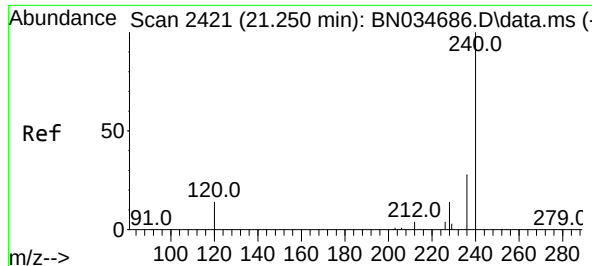
Ion Ratio Lower Upper

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

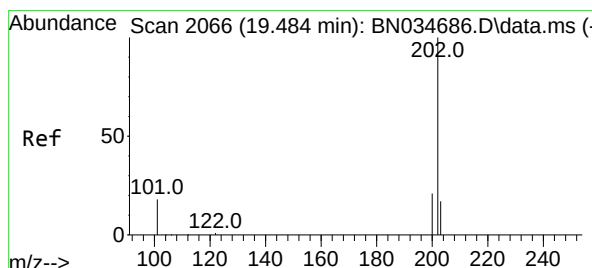
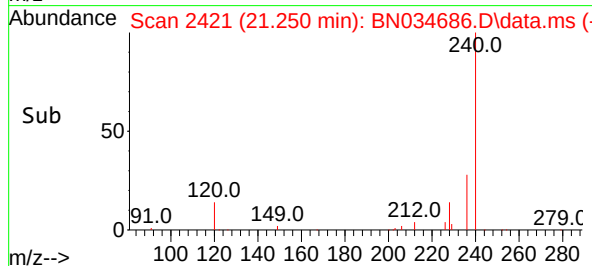
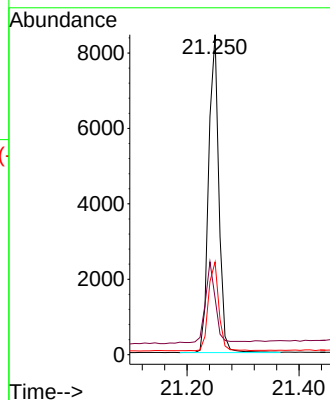
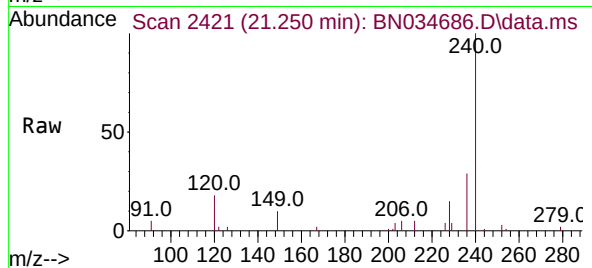
Tgt Ion:240 Resp: 10628

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

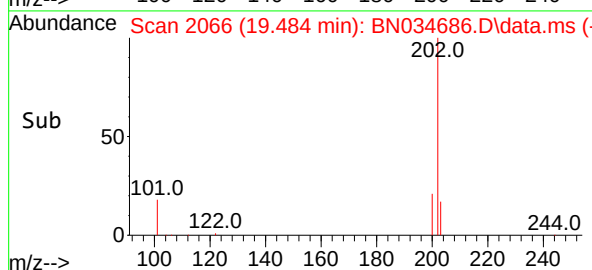
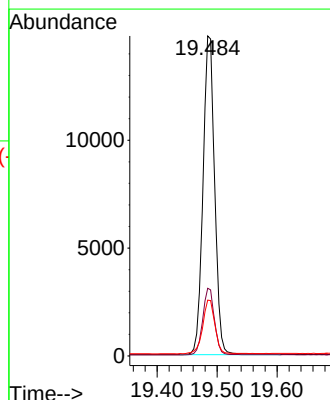
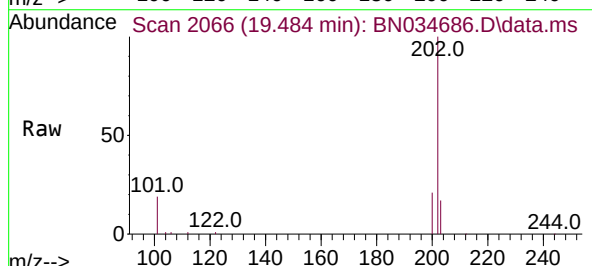
Tgt Ion:202 Resp: 19977

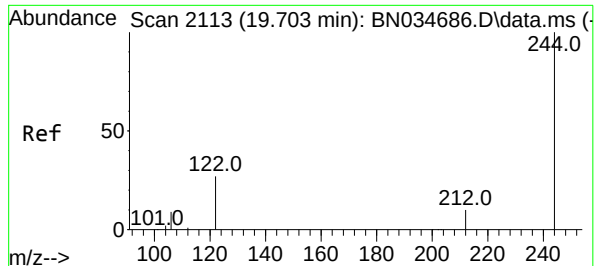
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.8 14.2 21.4

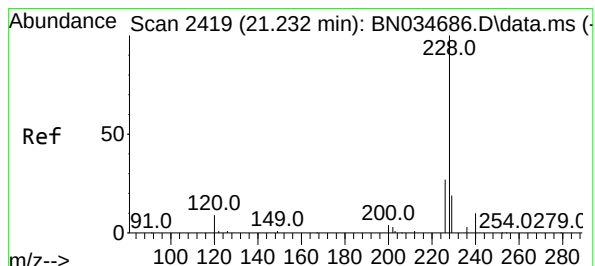
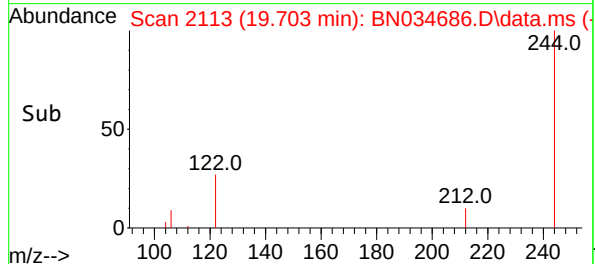
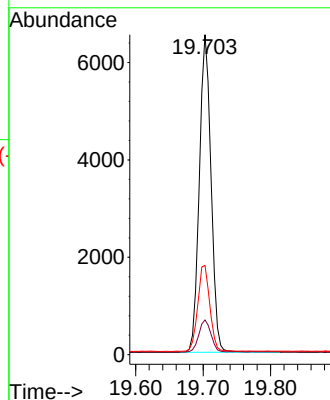
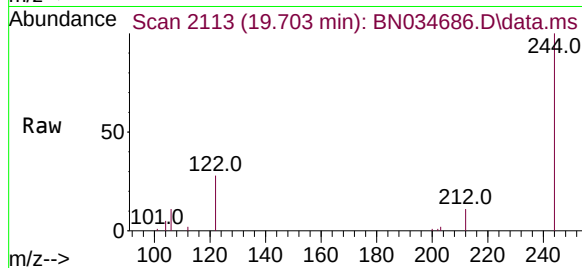




#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034686.D
Acq: 24 Oct 2024 10:23

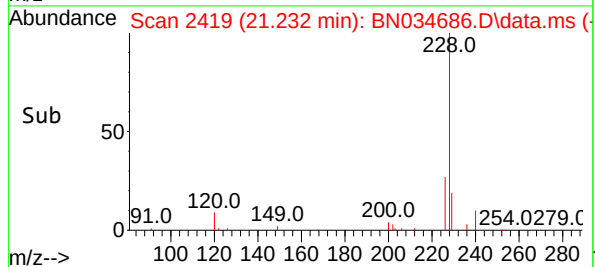
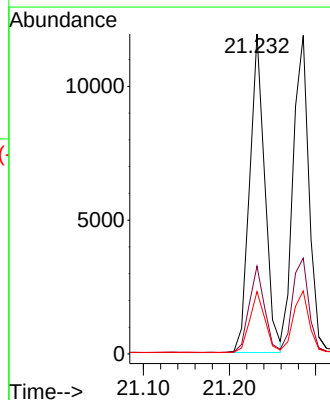
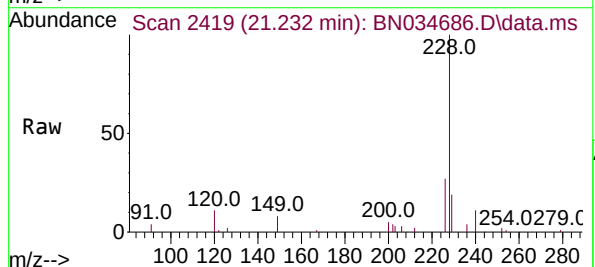
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

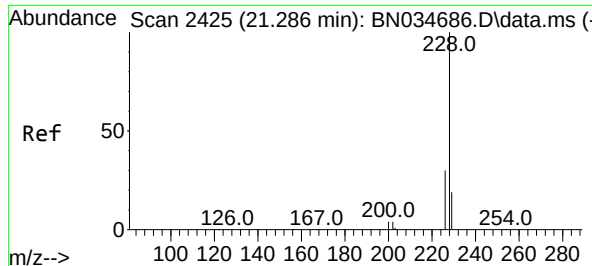
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.6	13.0
122	27.9	22.3	33.5



#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

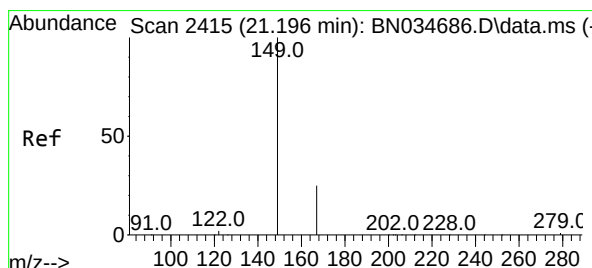
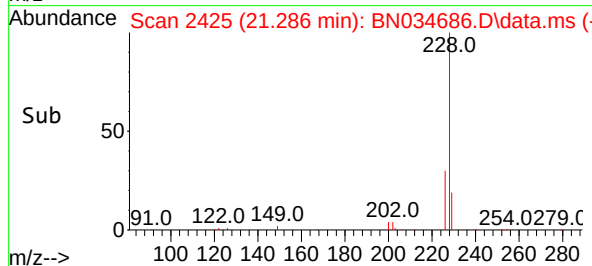
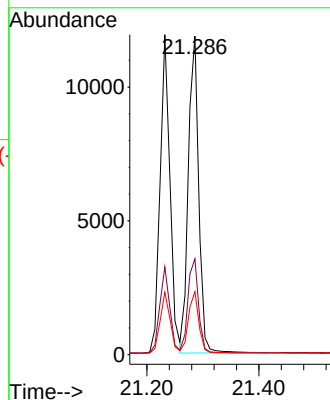
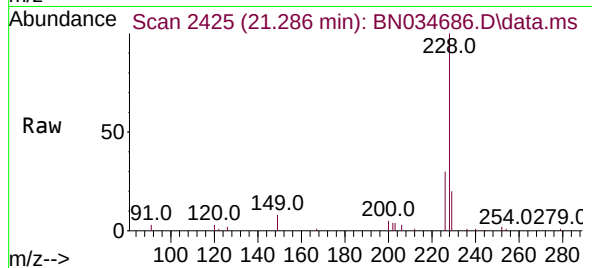
Tgt Ion:228 Resp: 15321

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

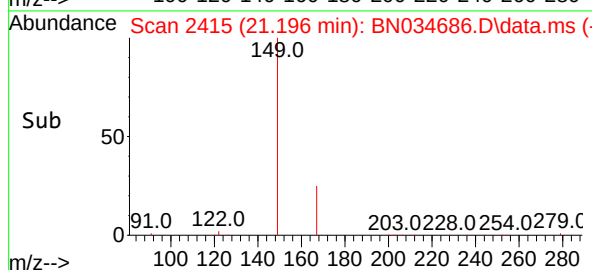
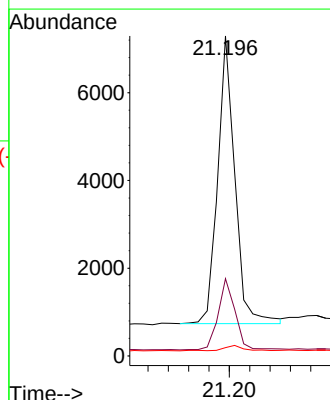
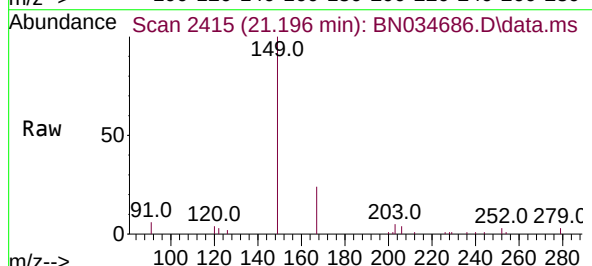
Tgt Ion:149 Resp: 7675

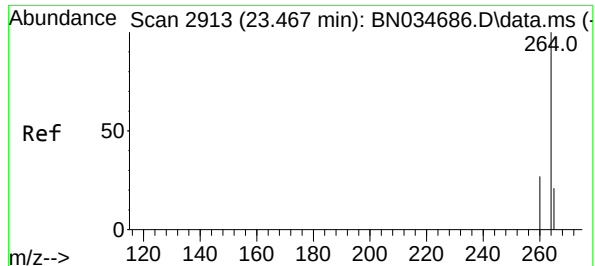
Ion Ratio Lower Upper

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

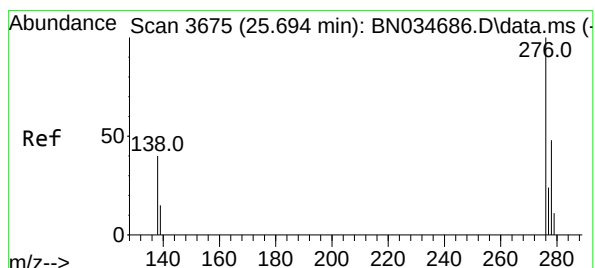
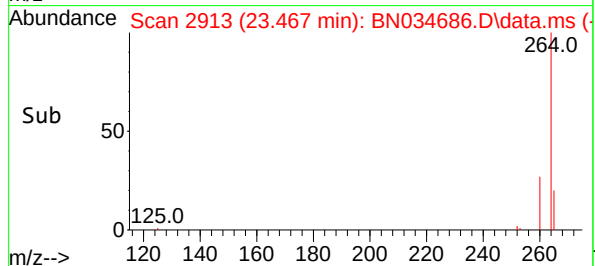
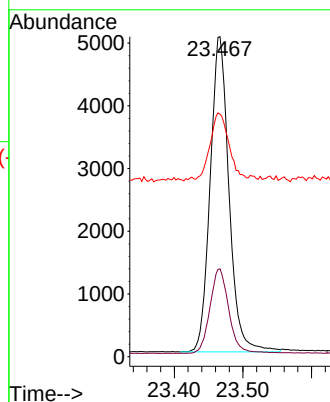
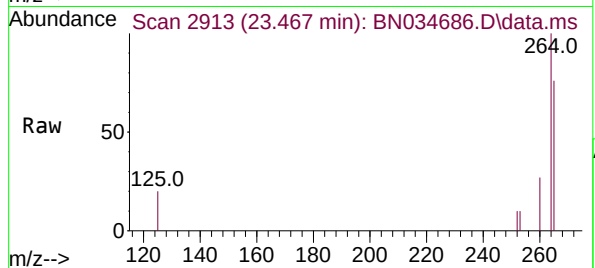
Tgt Ion:264 Resp: 9595

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

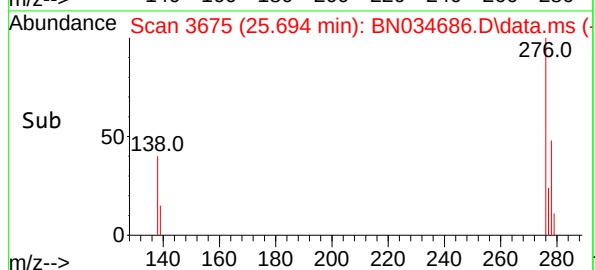
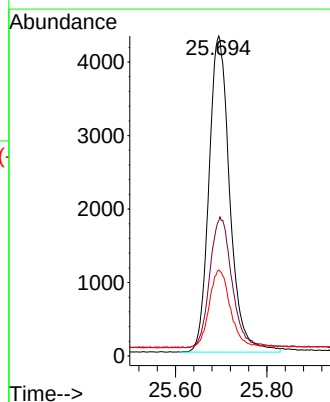
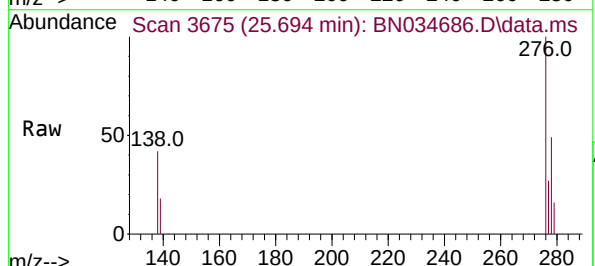
Tgt Ion:276 Resp: 13606

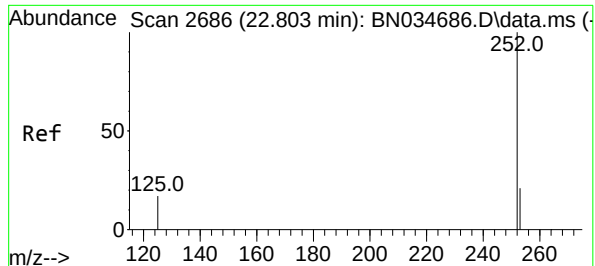
Ion Ratio Lower Upper

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

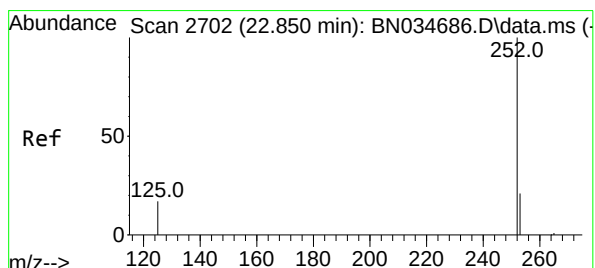
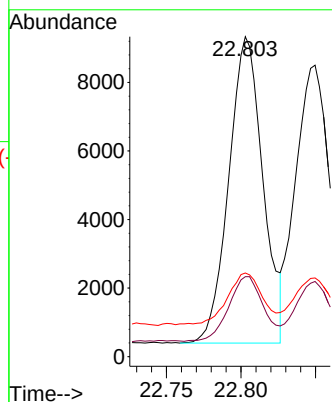
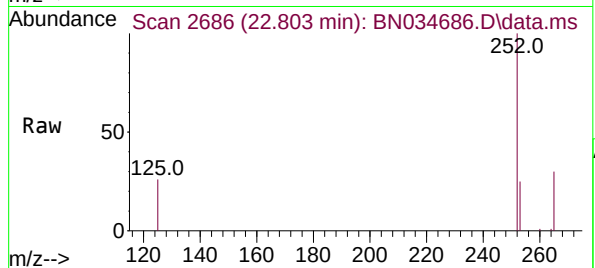
Tgt Ion:252 Resp: 14206

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

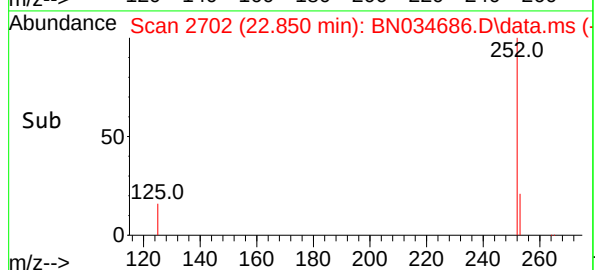
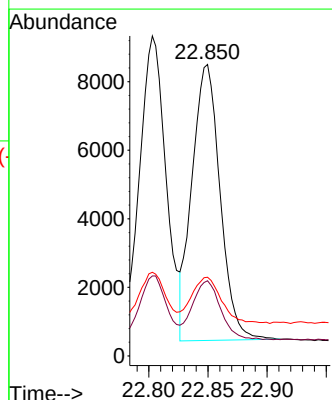
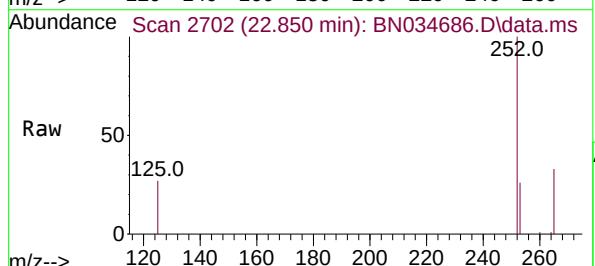
Tgt Ion:252 Resp: 13300

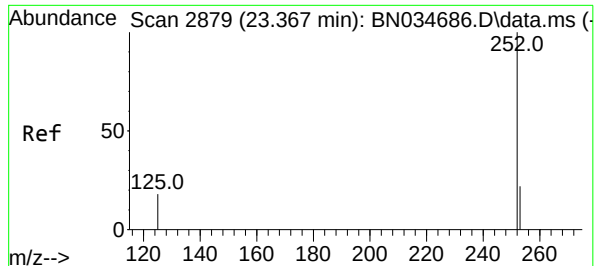
Ion Ratio Lower Upper

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

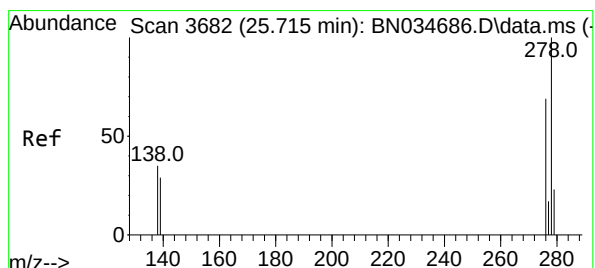
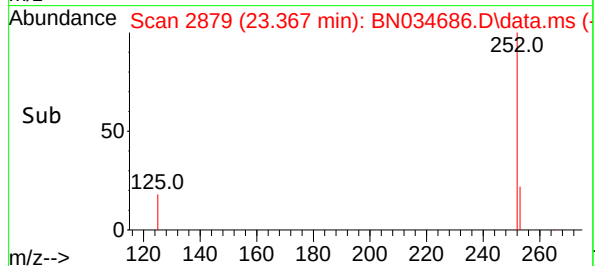
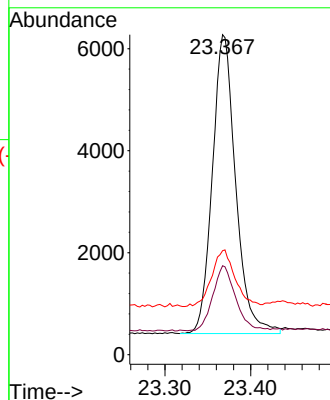
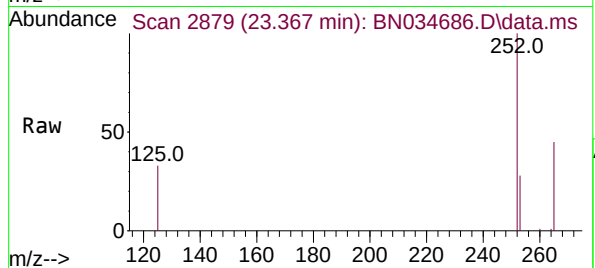
Tgt Ion:252 Resp: 11106

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

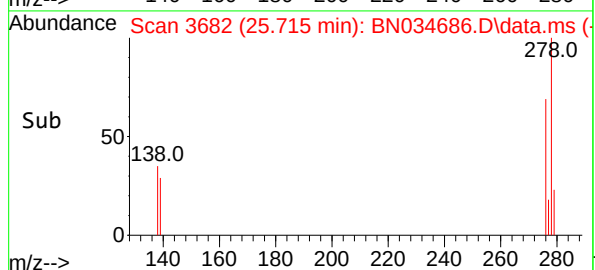
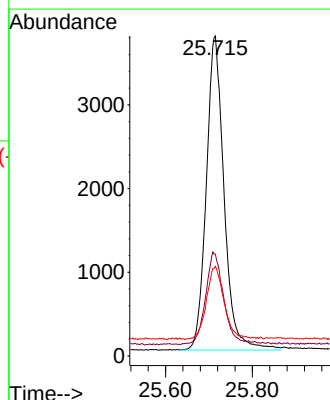
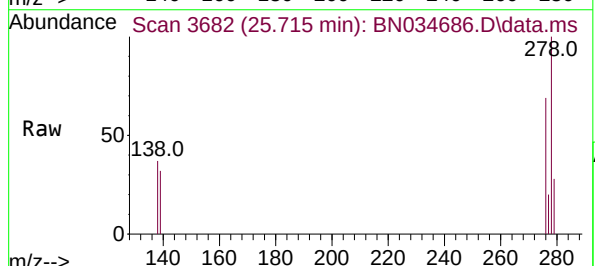
Tgt Ion:278 Resp: 10684

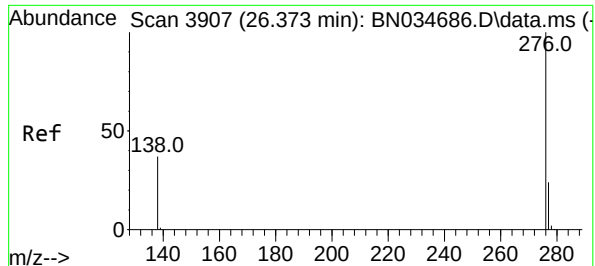
Ion Ratio Lower Upper

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

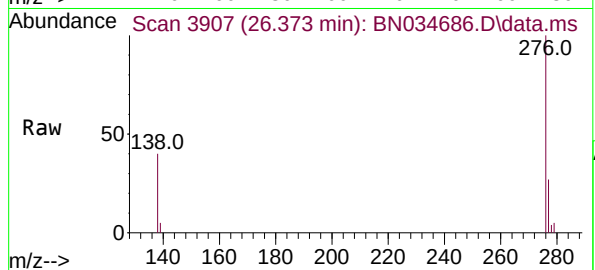
Acq: 24 Oct 2024 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



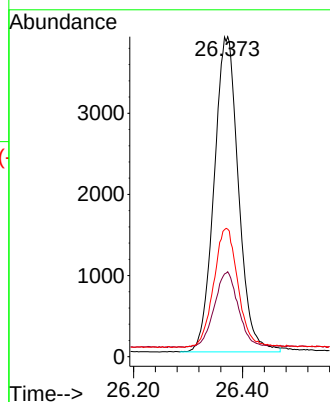
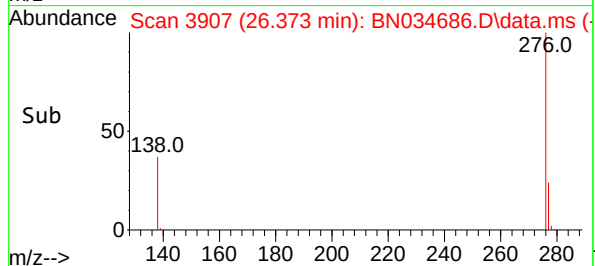
Tgt Ion:276 Resp: 12106

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						Qvalue
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

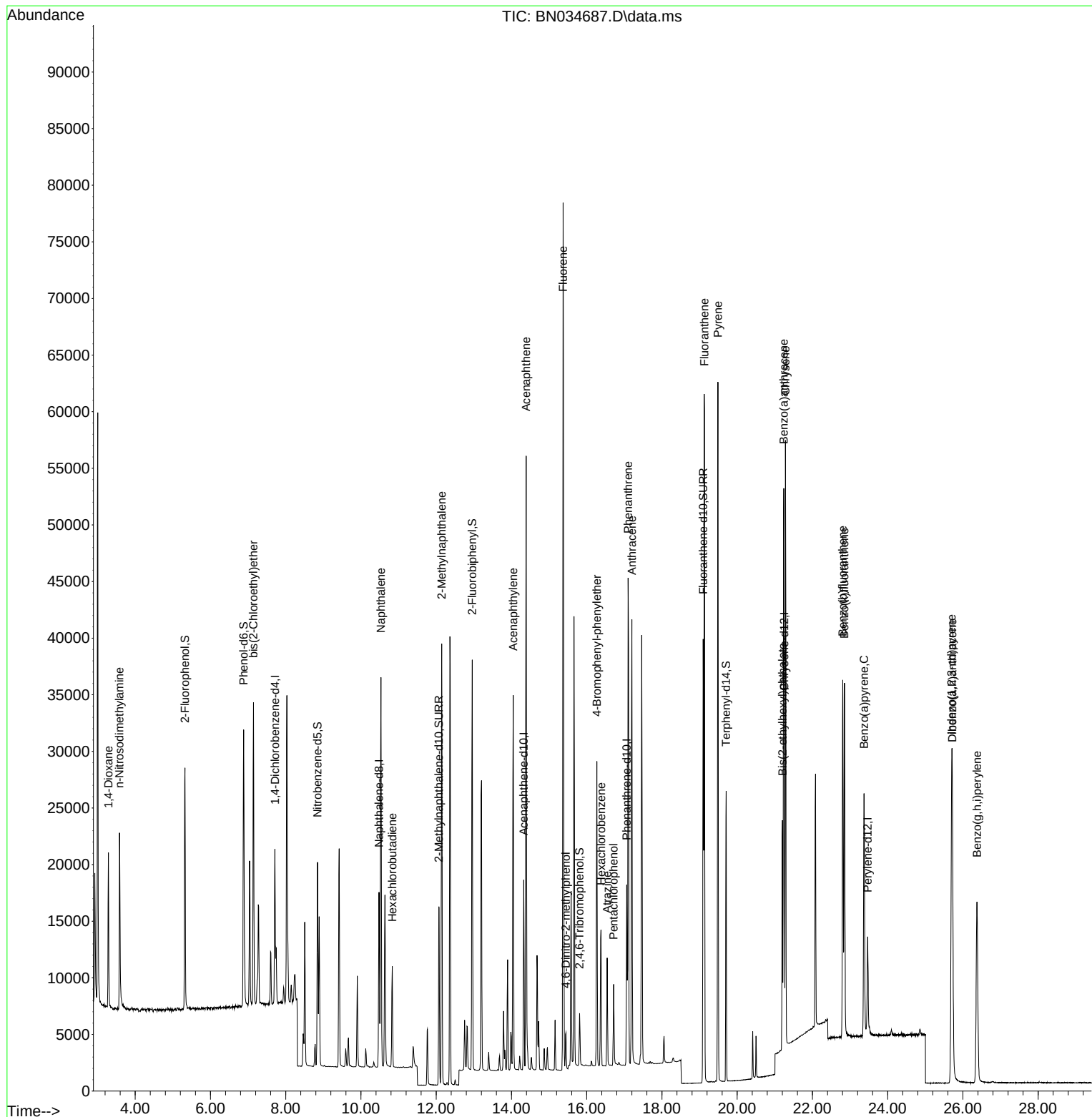
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034687.D
 Acq On : 24 Oct 2024 10:59
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

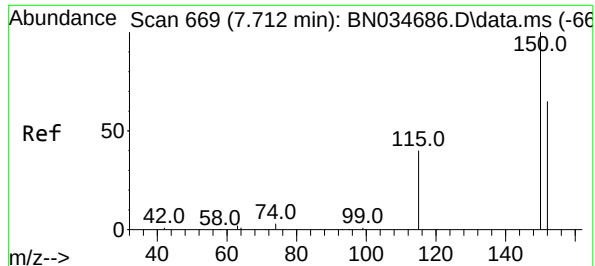
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Manual Integrations APPROVED

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

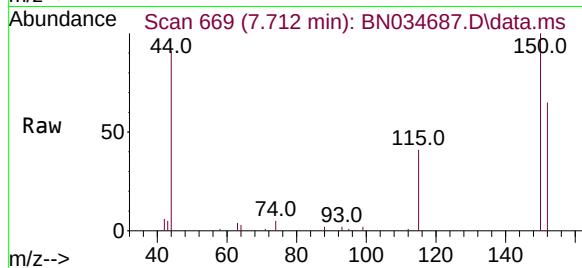
Quant Time: Oct 24 12:43:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 12:41:40 2024
 Response via : Initial Calibration





#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

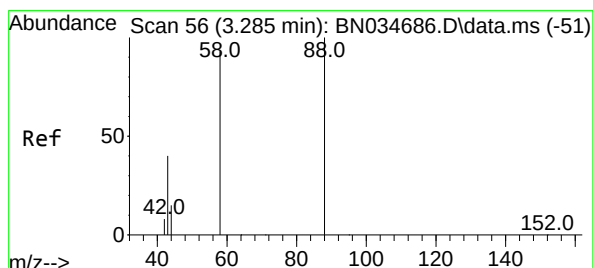
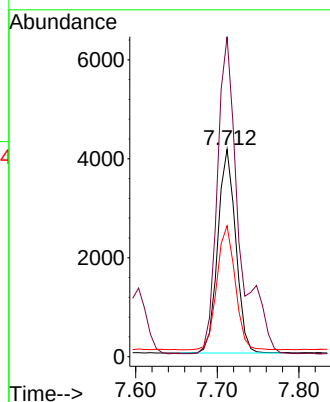
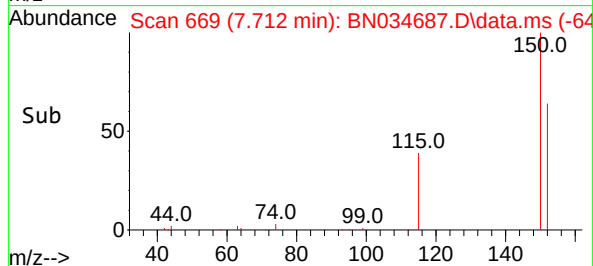
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

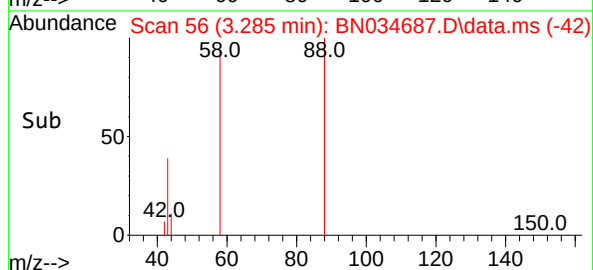
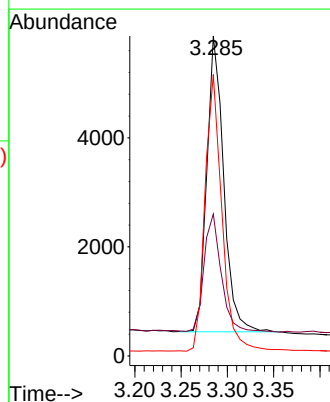
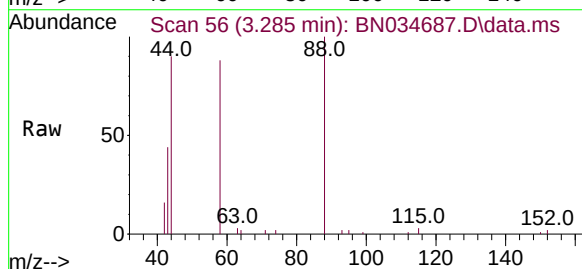
Manual Integrations
APPROVED

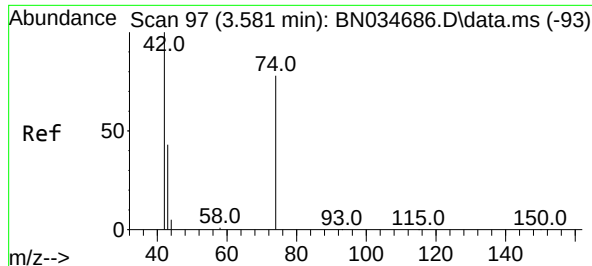
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

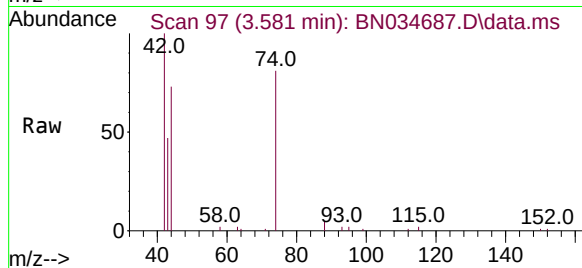
Tgt Ion: 88 Resp: 6845
Ion Ratio Lower Upper
88 100
43 41.3 32.1 48.1
58 93.9 73.7 110.5





#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

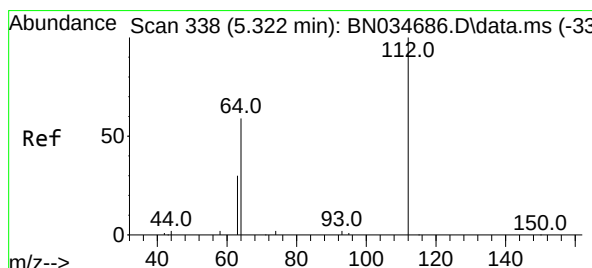
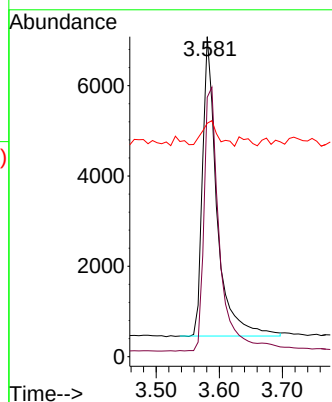
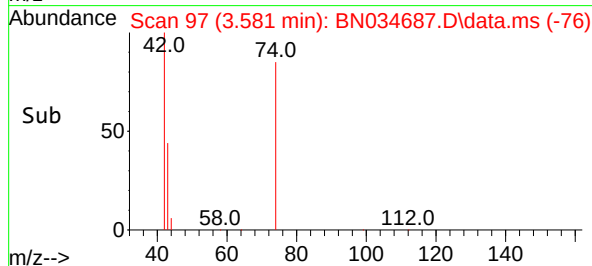
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

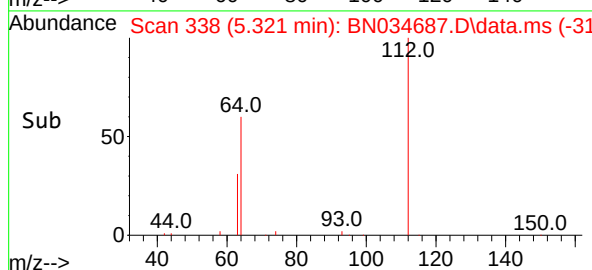
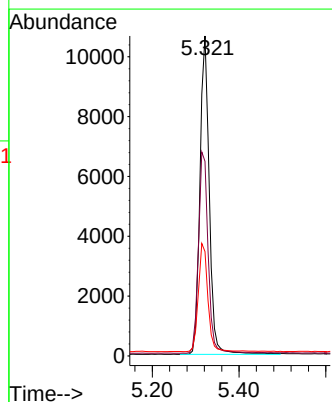
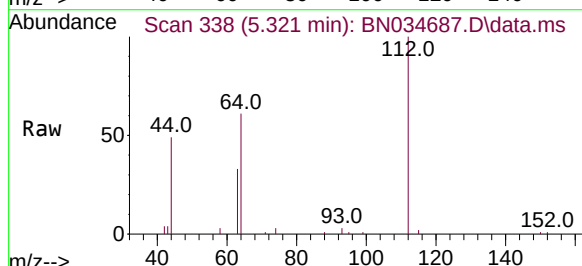
Manual Integrations
APPROVED

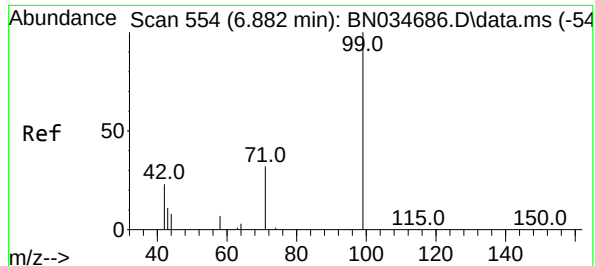
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

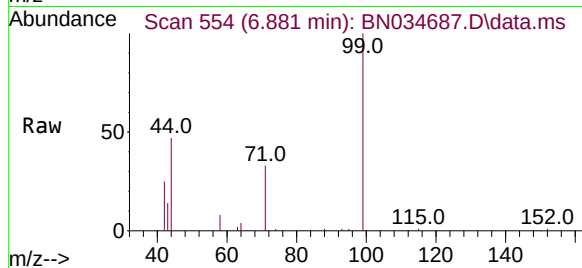
Tgt Ion:112 Resp: 15922
Ion Ratio Lower Upper
112 100
64 66.1 53.0 79.6
63 34.5 27.6 41.4





#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

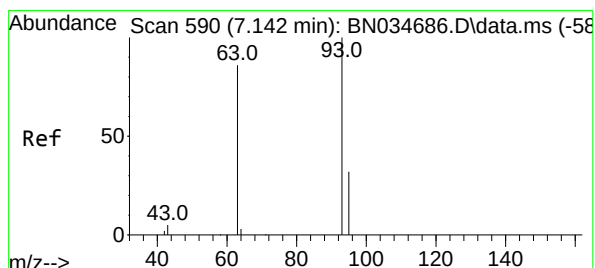
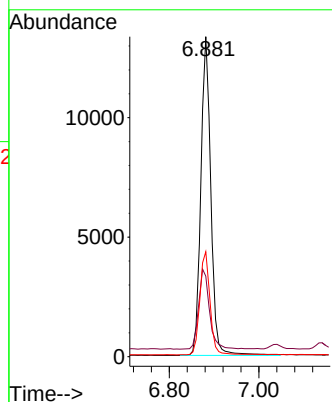
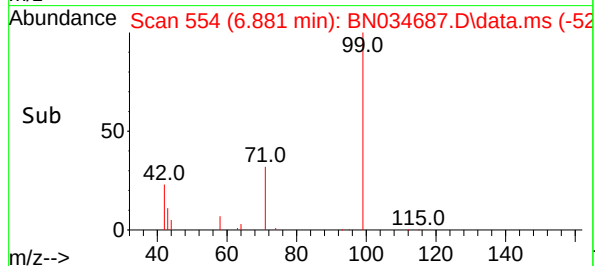
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

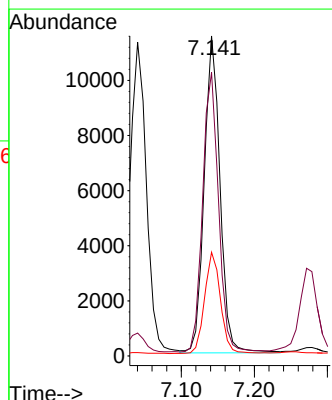
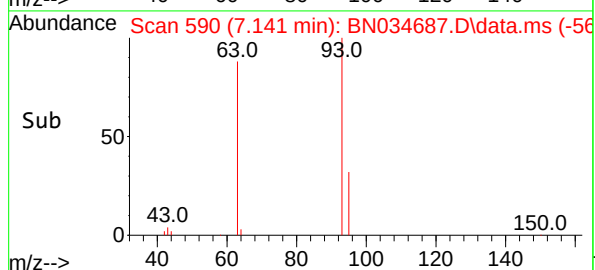
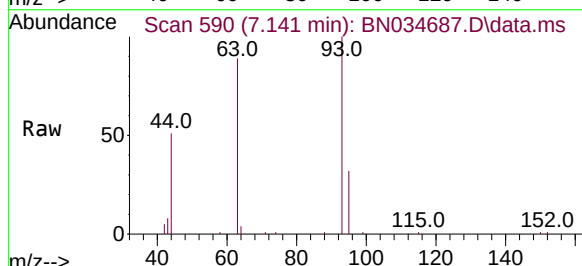
Manual Integrations
APPROVED

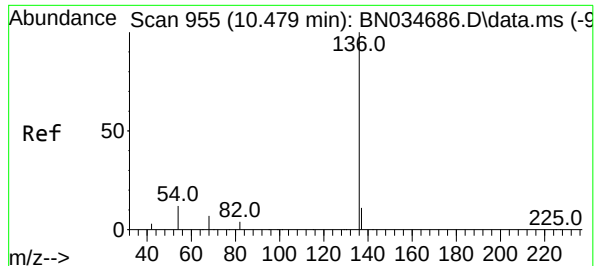
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

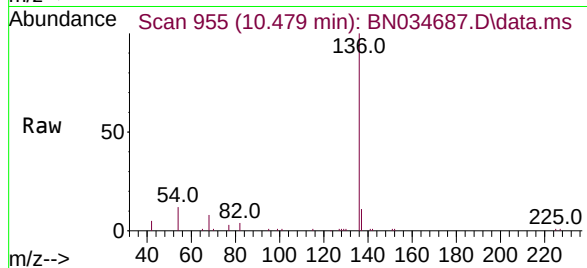
Tgt Ion: 93 Resp: 17336
Ion Ratio Lower Upper
93 100
63 88.1 71.5 107.3
95 32.1 25.8 38.6





#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

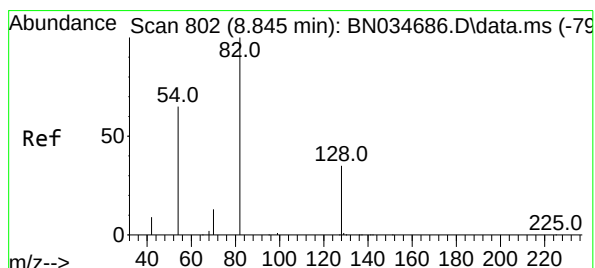
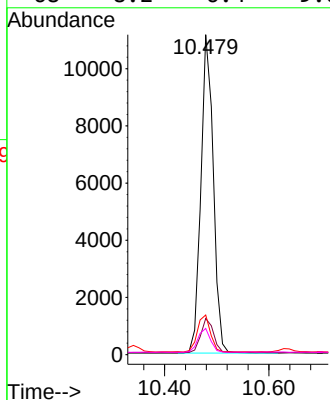
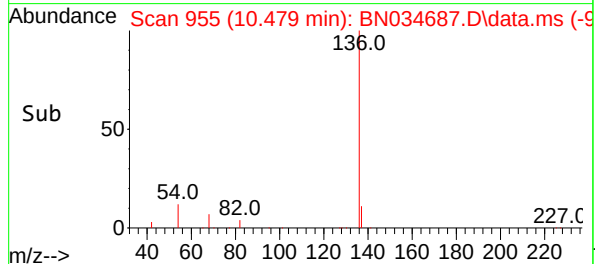
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

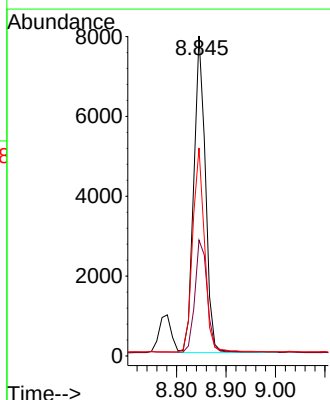
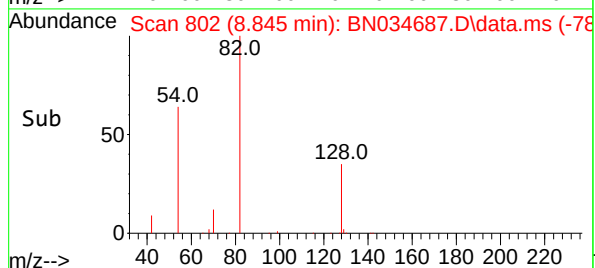
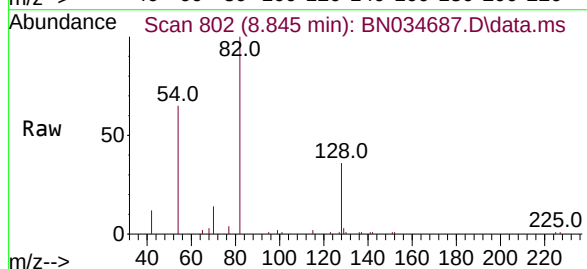
Manual Integrations
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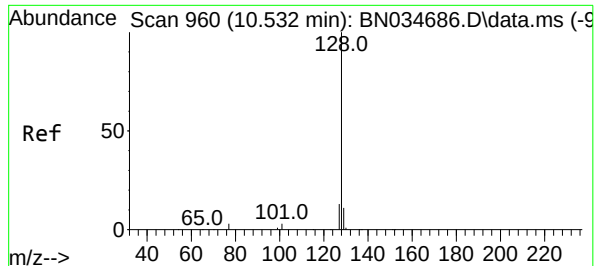
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

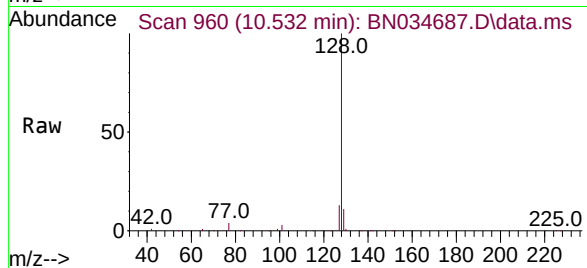
Tgt Ion: 82 Resp: 12949
Ion Ratio Lower Upper
82 100
128 36.2 29.7 44.5
54 65.0 53.0 79.6





#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

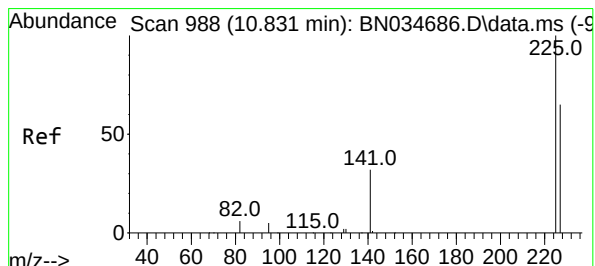
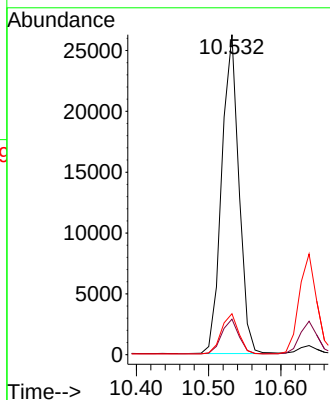
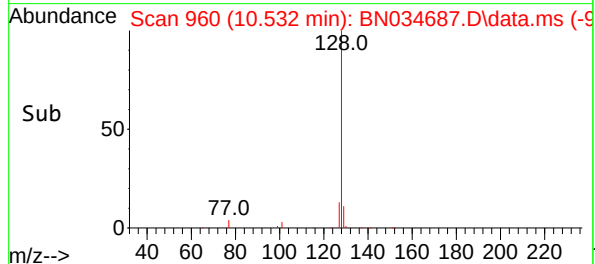
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

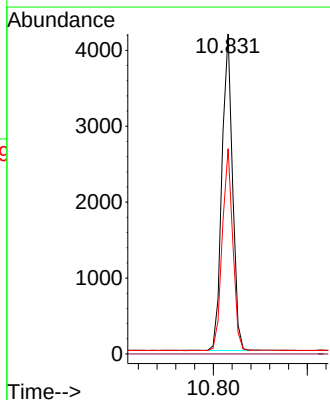
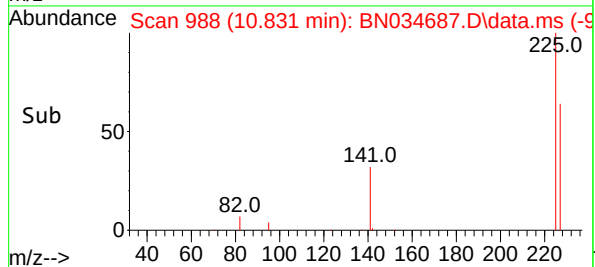
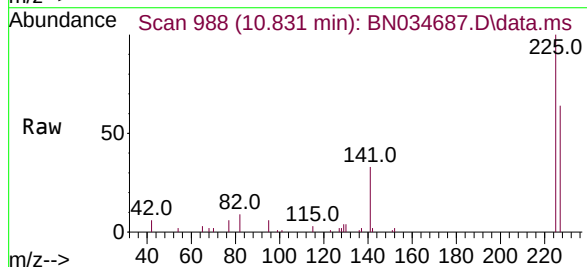
Manual Integrations
APPROVED

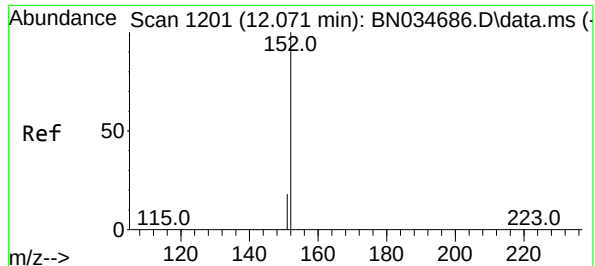
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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





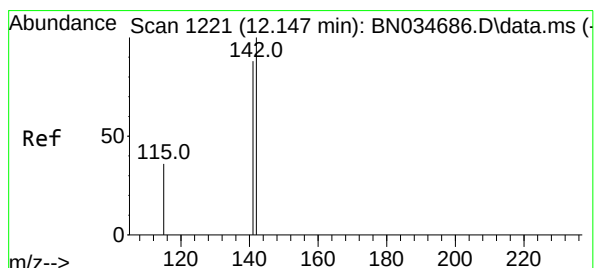
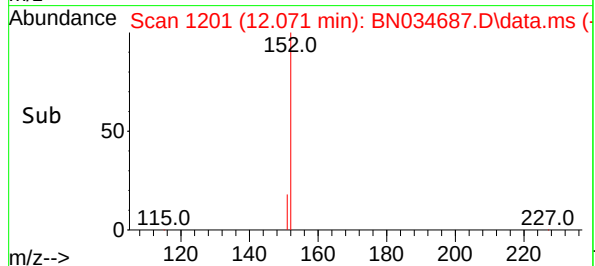
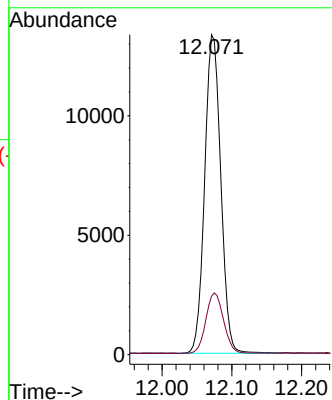
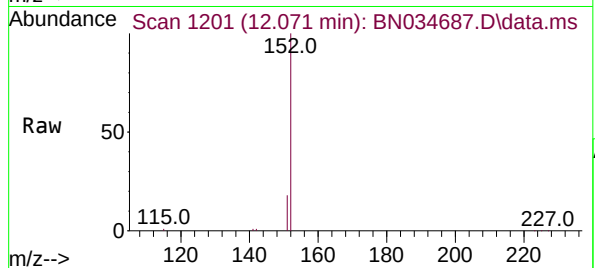
#11
2-Methylnaphthalene-d10
Concen: 0.829 ng
RT: 12.071 min Scan# 1201
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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

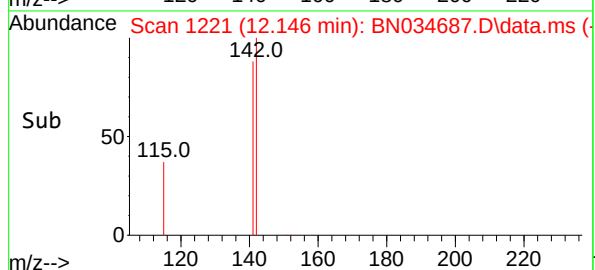
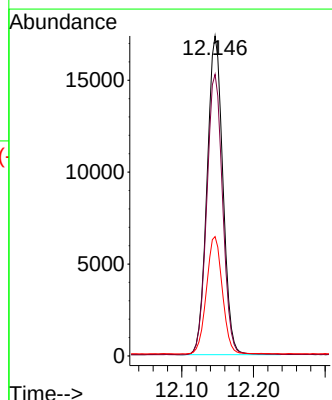
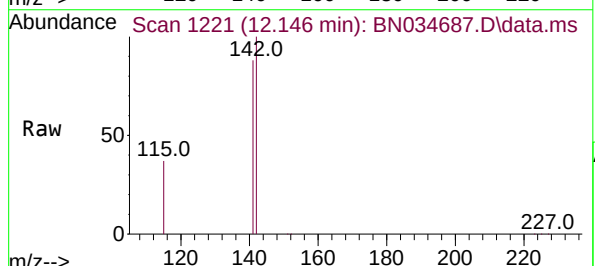
Manual Integrations
APPROVED

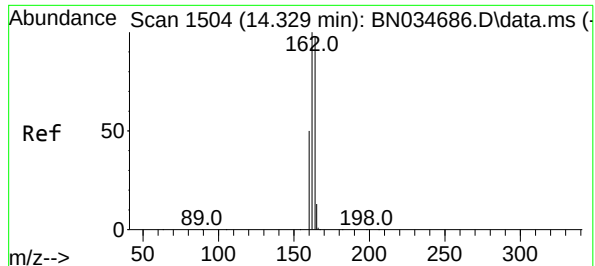
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

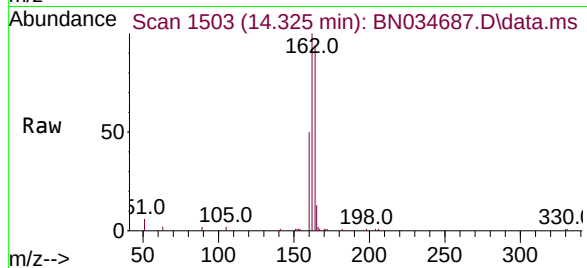
Tgt Ion:142 Resp: 26668
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 37.3 29.8 44.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

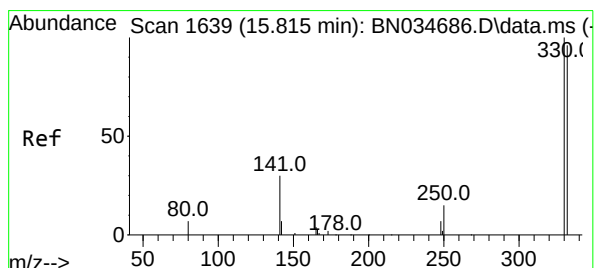
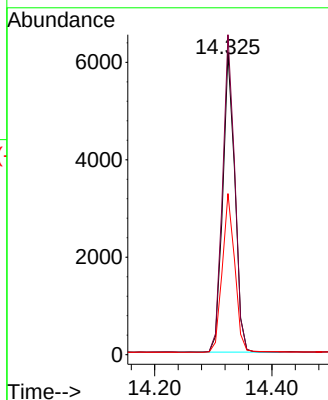
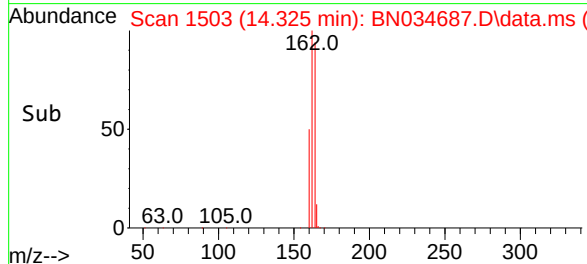
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



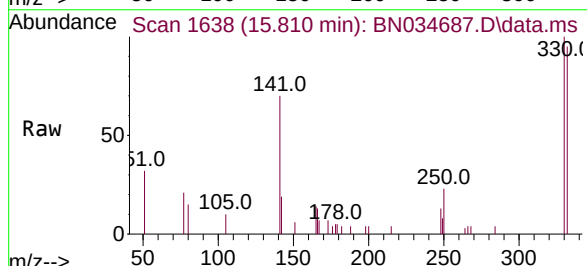
Tgt Ion:164 Resp: 878
Ion Ratio Lower Upper
164 100
162 106.2 81.4 122.0
160 53.4 40.6 61.0

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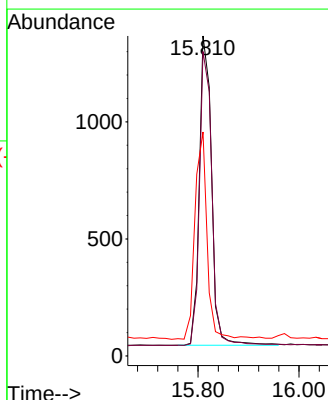
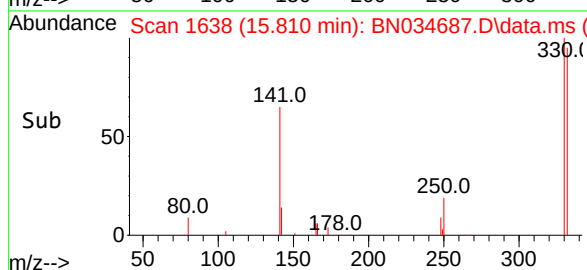
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024

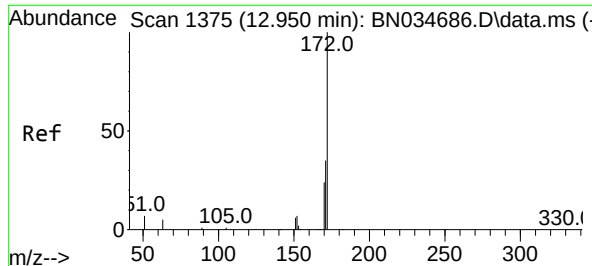


#14
2,4,6-Tribromophenol
Concen: 0.598 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59



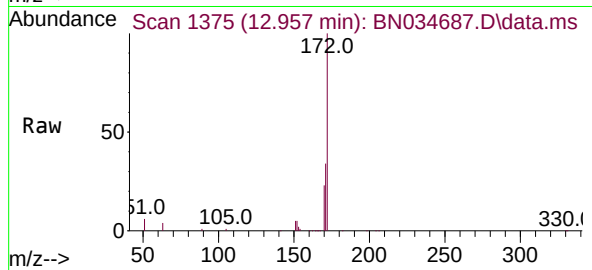
Tgt Ion:330 Resp: 2227
Ion Ratio Lower Upper
330 100
332 96.3 76.6 115.0
141 67.4 54.6 81.8





#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

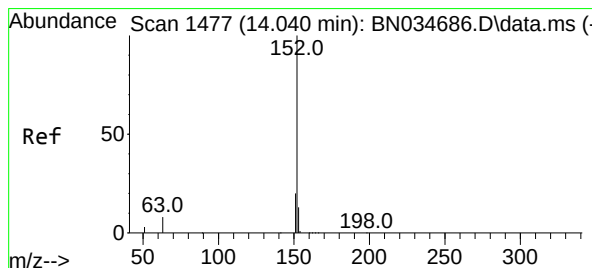
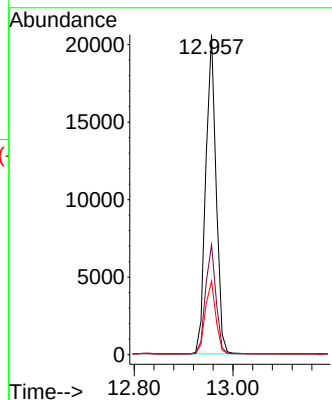
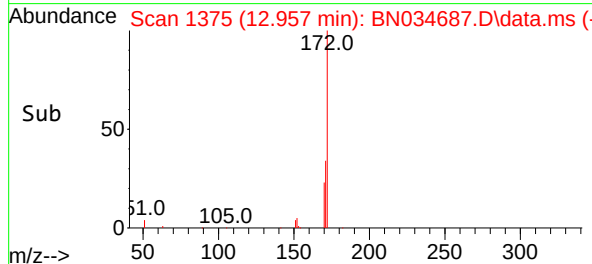
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

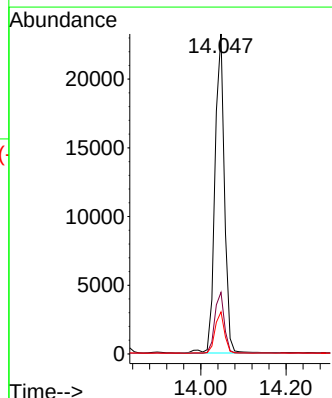
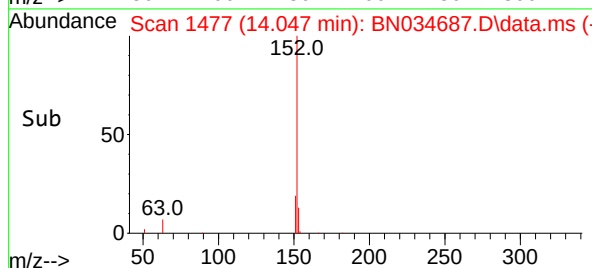
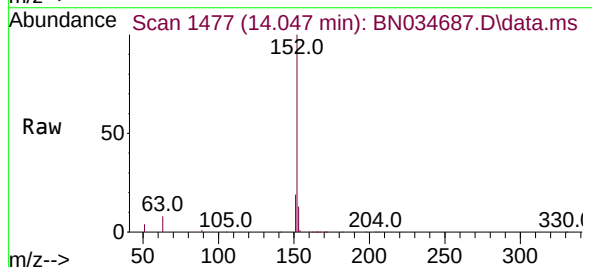
Manual Integrations
APPROVED

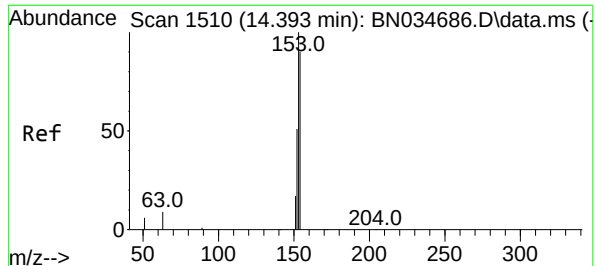
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

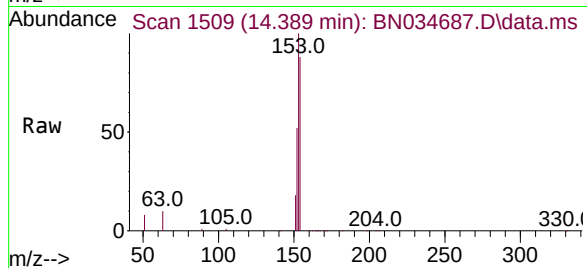
Tgt Ion:152 Resp: 35850
Ion Ratio Lower Upper
152 100
151 19.1 15.6 23.4
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.876 ng
RT: 14.389 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

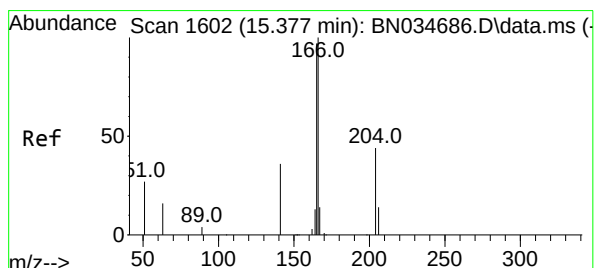
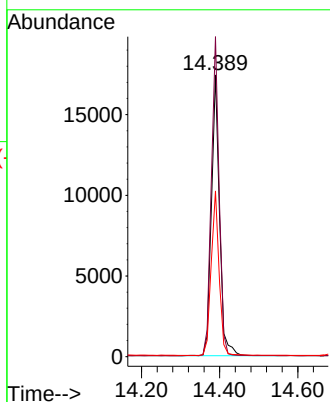
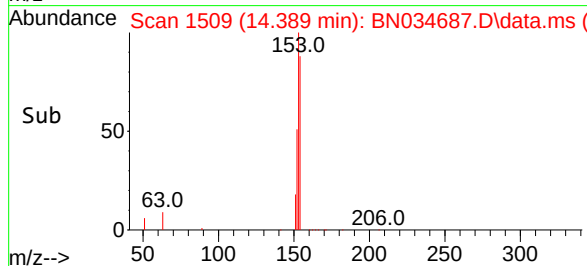
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

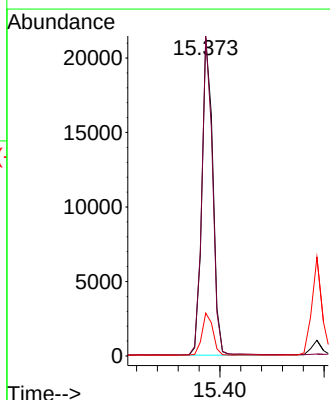
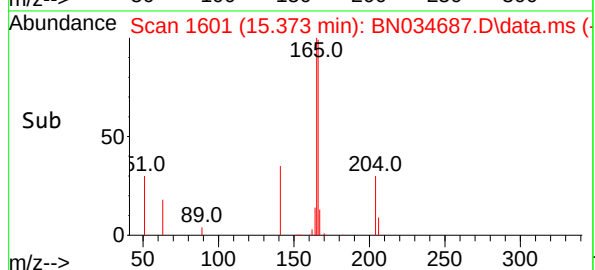
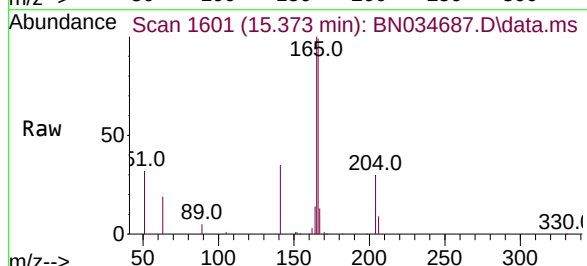
Manual Integrations
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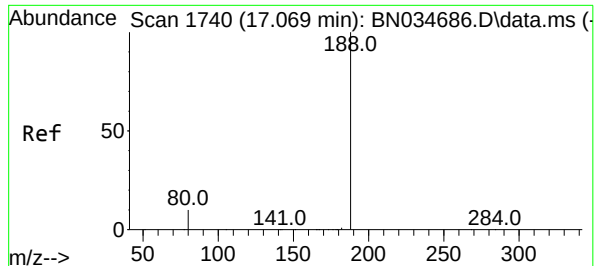
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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





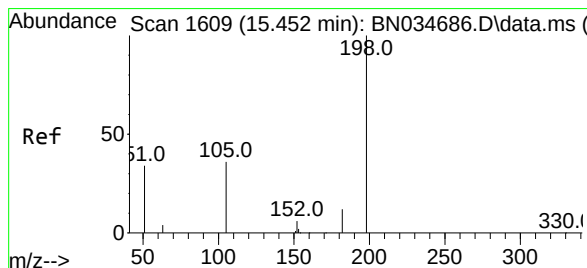
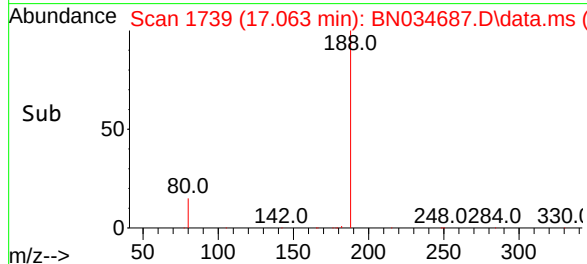
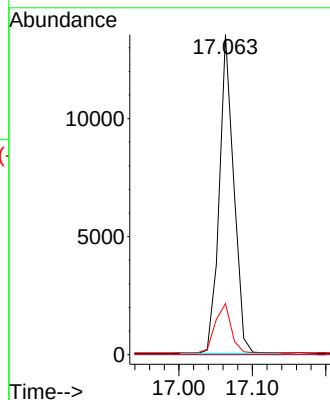
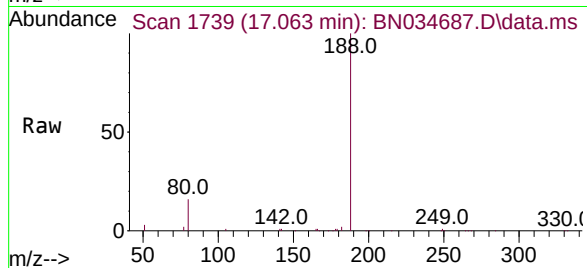
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

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

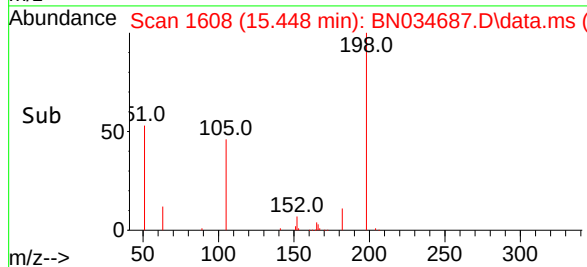
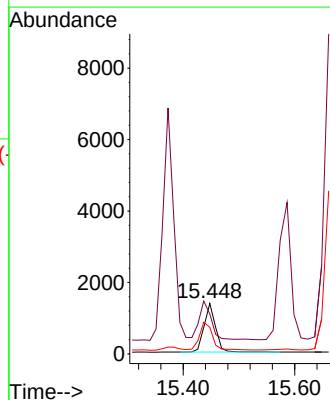
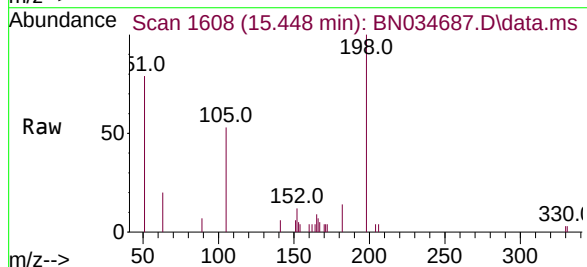
Manual Integrations
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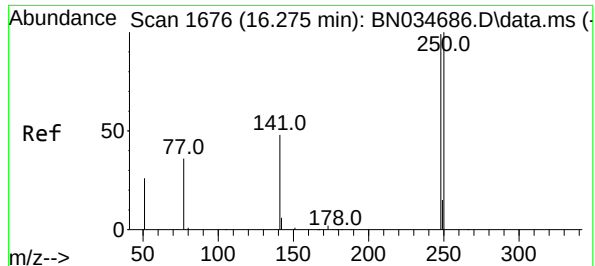
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

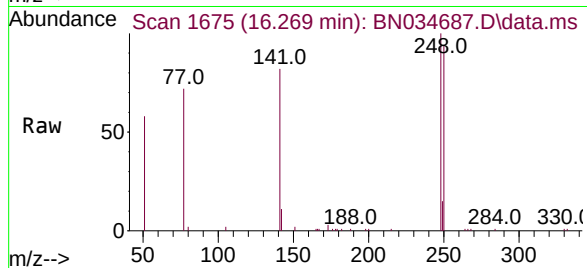
Tgt Ion:198 Resp: 2025
Ion Ratio Lower Upper
198 100
51 79.0 91.8 137.8#
105 52.7 44.3 66.5





#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

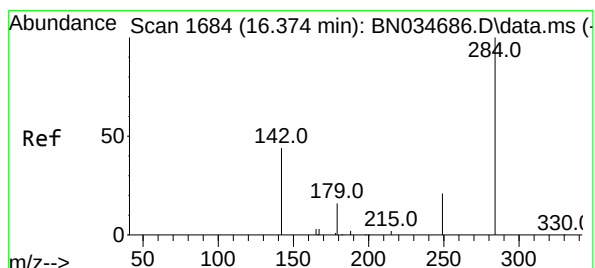
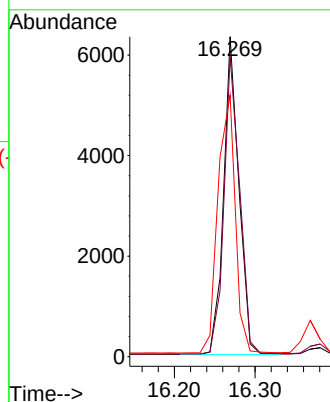
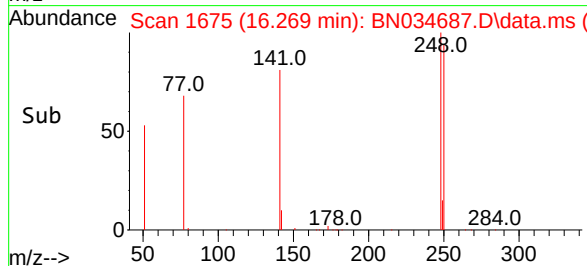
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

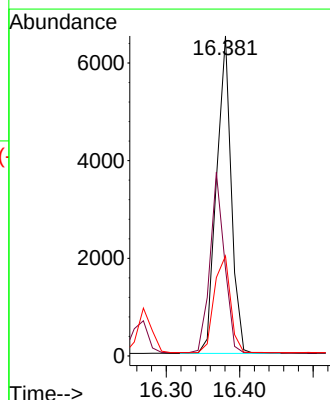
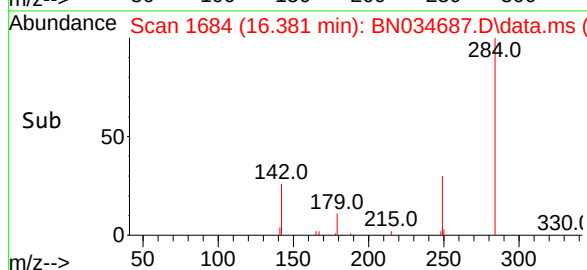
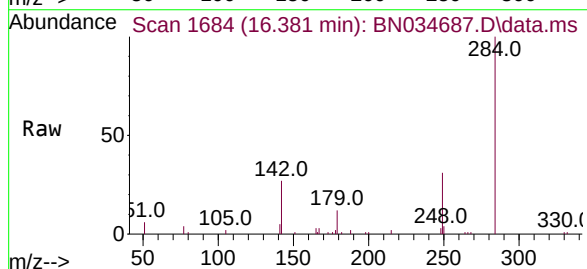
Manual Integrations
APPROVED

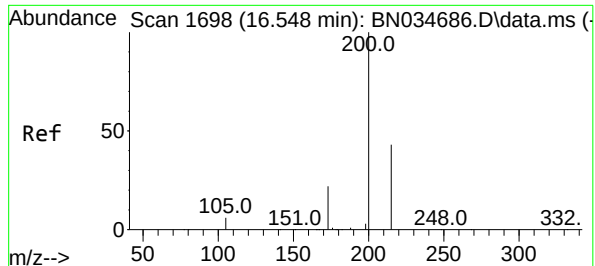
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

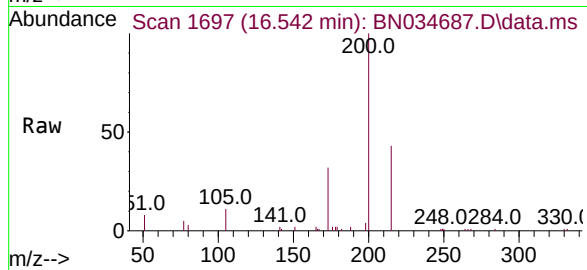
Tgt Ion:284 Resp: 9007
Ion Ratio Lower Upper
284 100
142 56.0 43.6 65.4
249 34.1 26.6 40.0





#23
Atrazine
Concen: 0.764 ng
RT: 16.542 min Scan# 1710
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

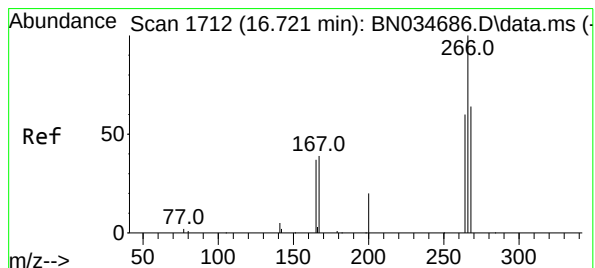
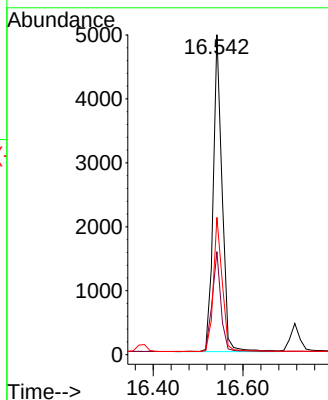
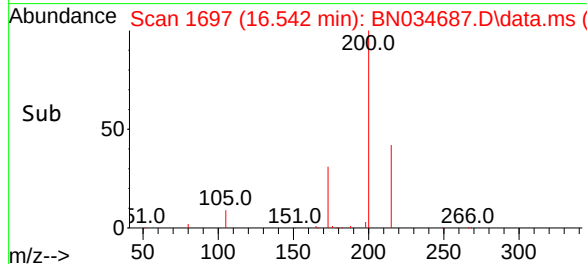
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

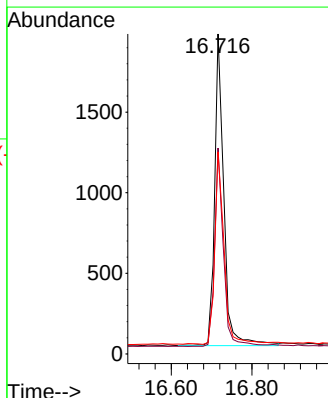
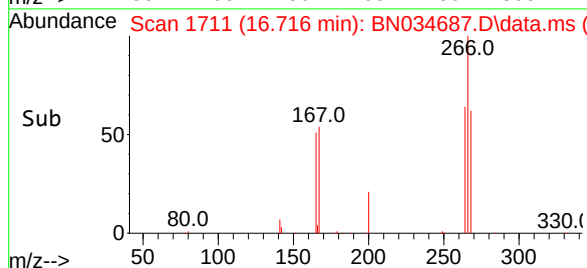
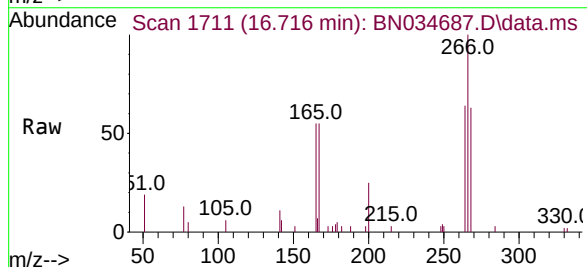
Manual Integrations
APPROVED

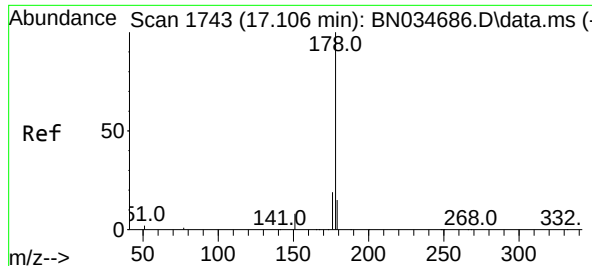
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

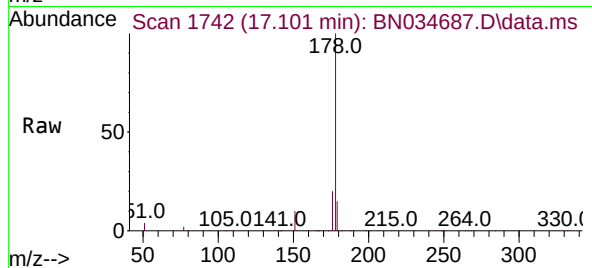
Tgt Ion:266 Resp: 3059
Ion Ratio Lower Upper
266 100
264 61.0 49.4 74.2
268 62.3 50.5 75.7





#25
Phenanthrene
Concen: 0.856 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

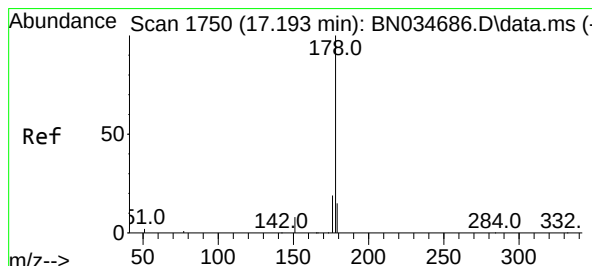
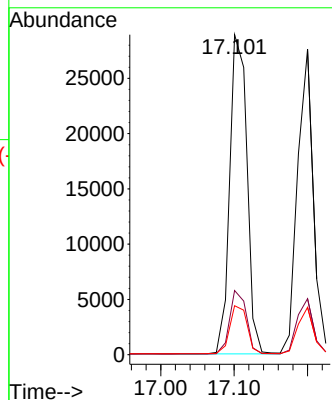
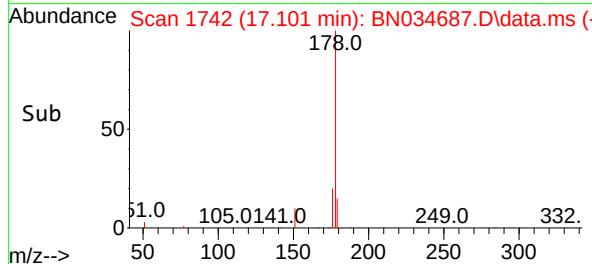
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

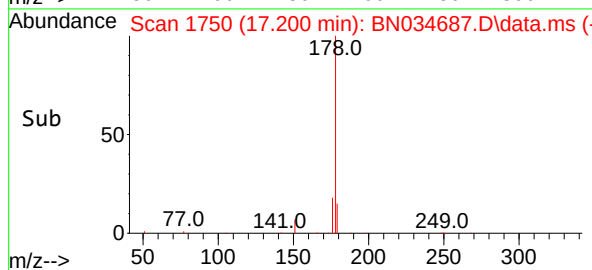
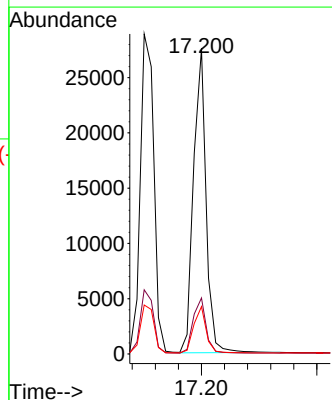
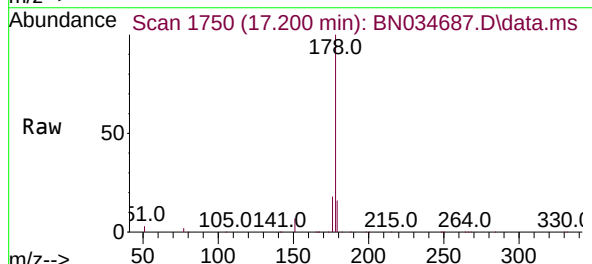
Manual Integrations
APPROVED

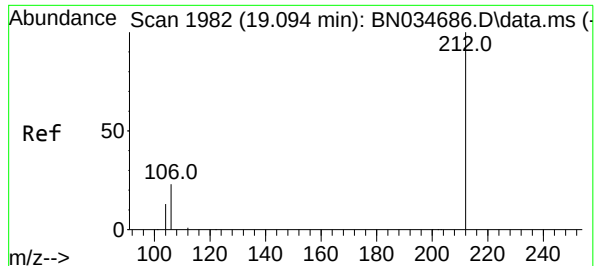
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

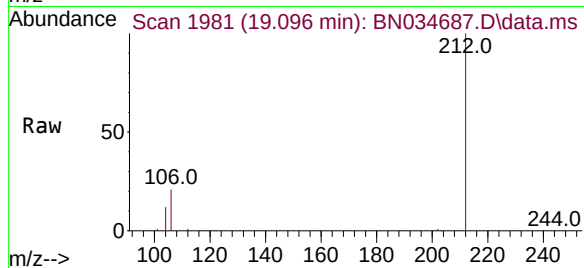
Tgt Ion:178 Resp: 41660
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.2 18.2





#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

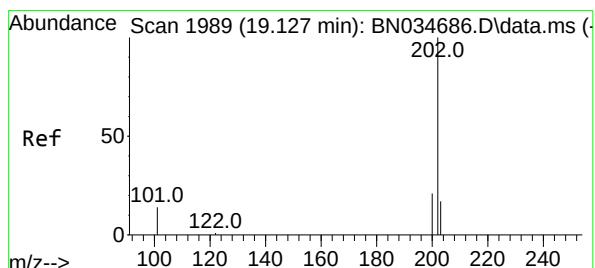
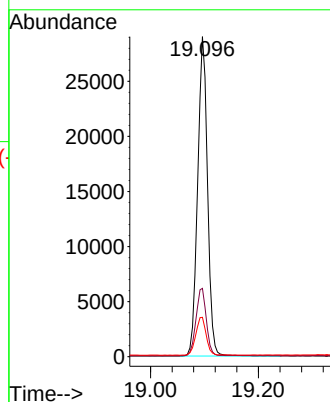
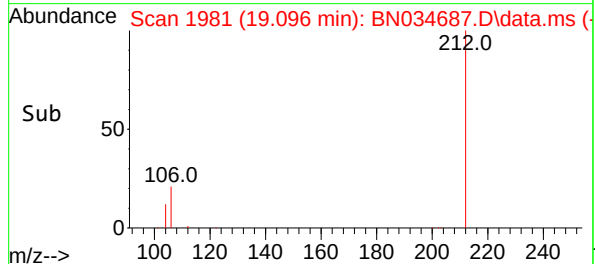
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



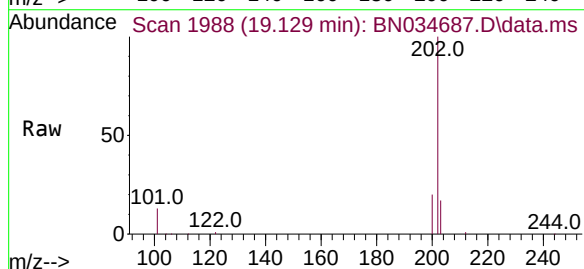
Tgt Ion:212 Resp: 36834
Ion Ratio Lower Upper
212 100
106 22.1 17.8 26.8
104 12.5 10.2 15.4

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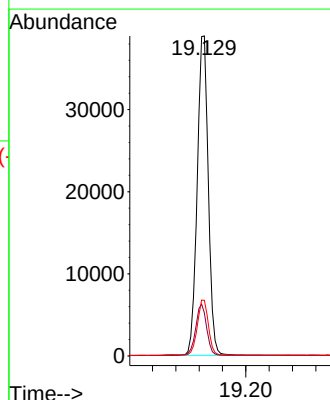
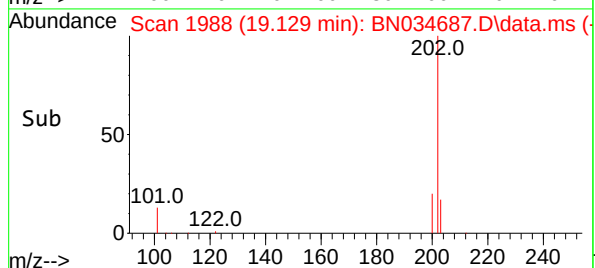
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024

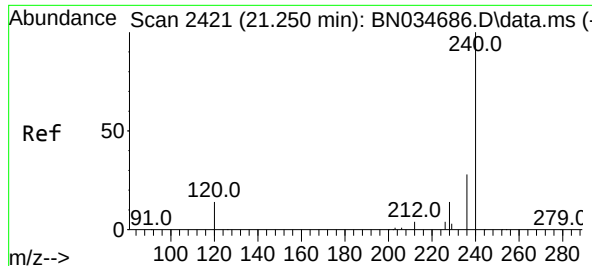


#28
Fluoranthene
Concen: 0.827 ng
RT: 19.129 min Scan# 1988
Delta R.T. 0.002 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59



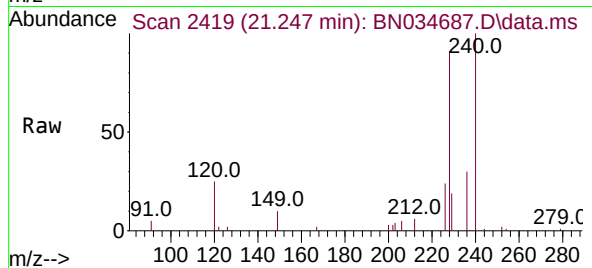
Tgt Ion:202 Resp: 51141
Ion Ratio Lower Upper
202 100
101 16.0 12.8 19.2
203 17.2 13.5 20.3





#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

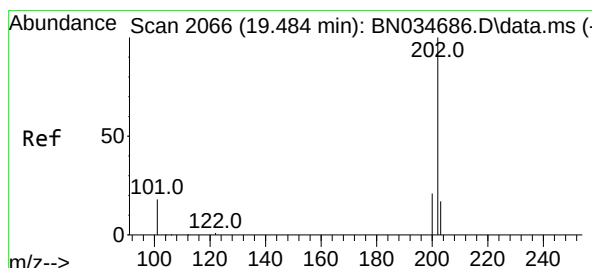
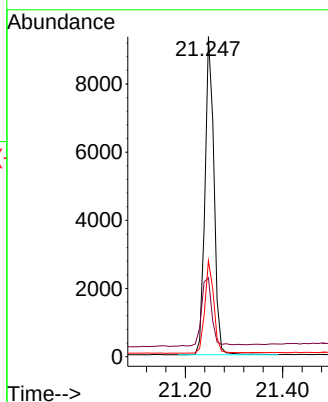
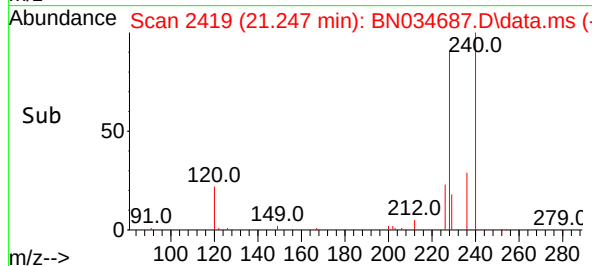
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

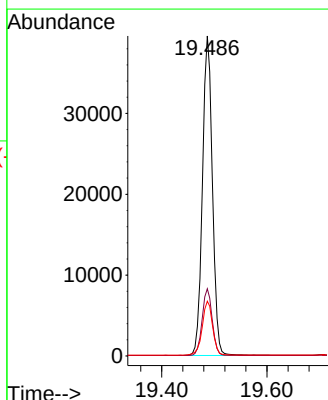
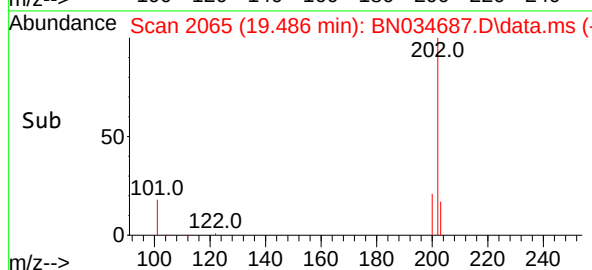
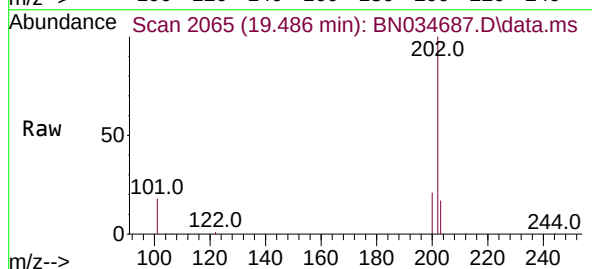
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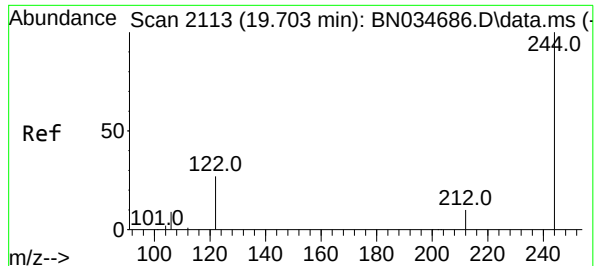
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

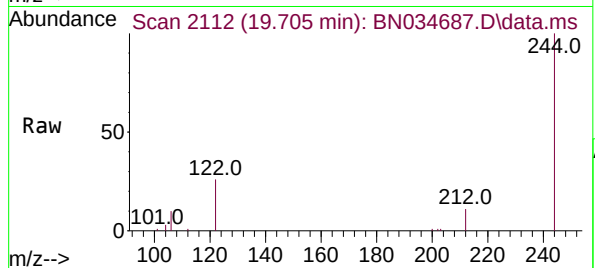
Tgt Ion:202 Resp: 51944
Ion Ratio Lower Upper
202 100
200 21.0 16.6 25.0
203 17.5 14.2 21.4





#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

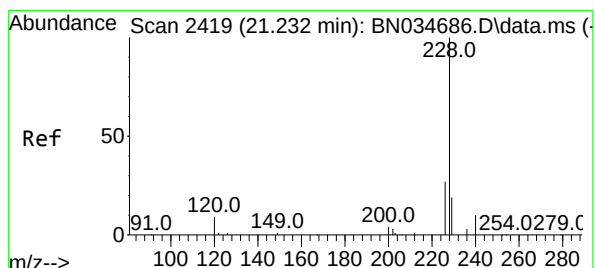
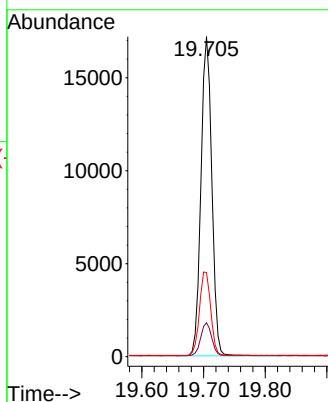
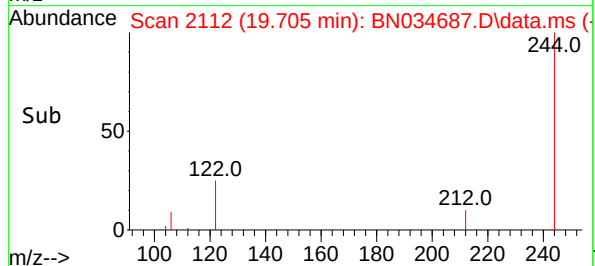
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

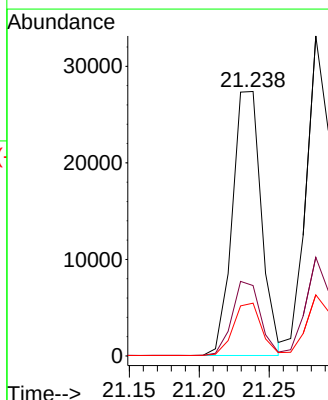
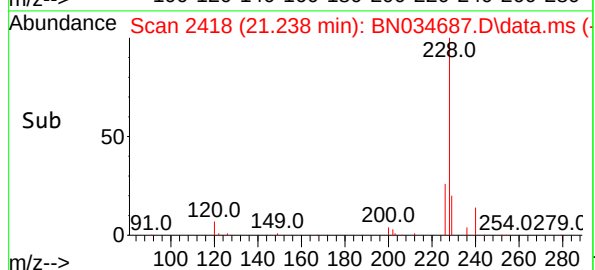
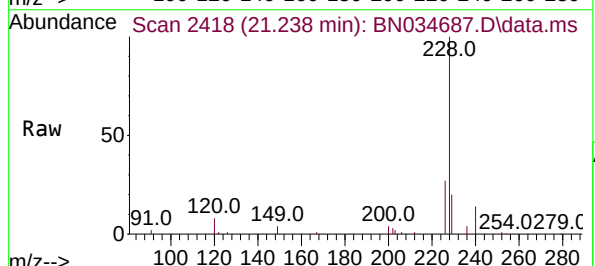
Manual Integrations
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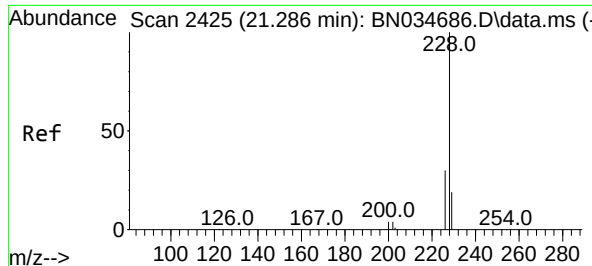
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

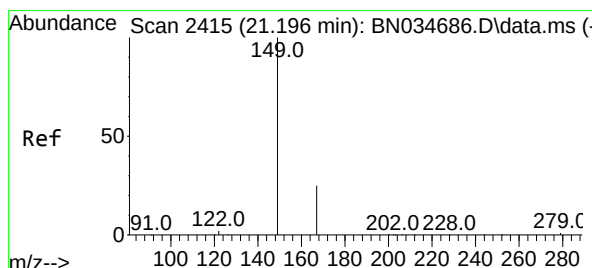
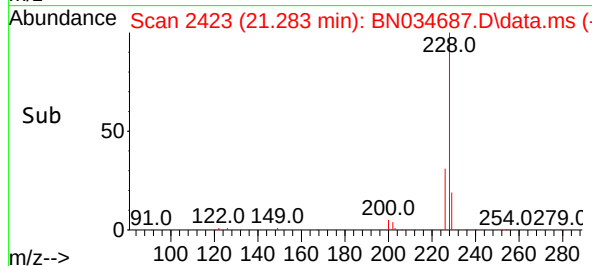
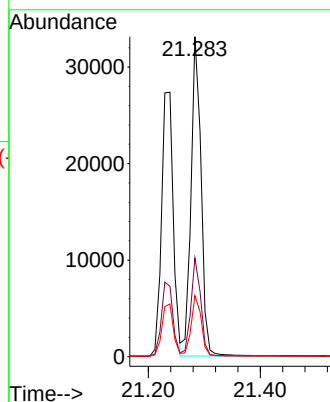
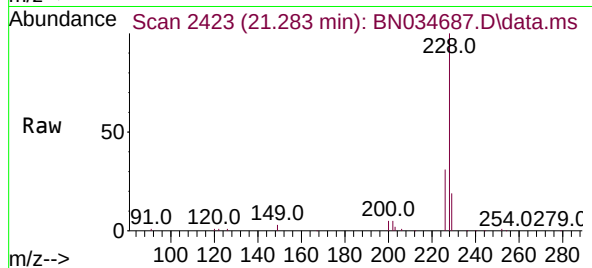
229 19.1 15.8 23.8

Manual Integrations

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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

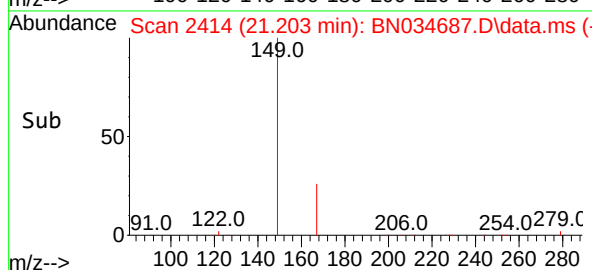
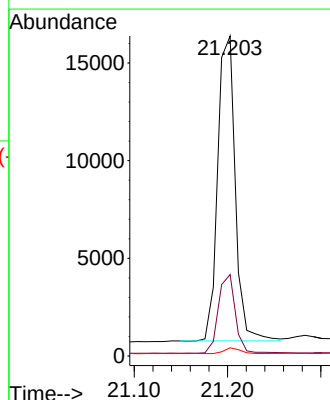
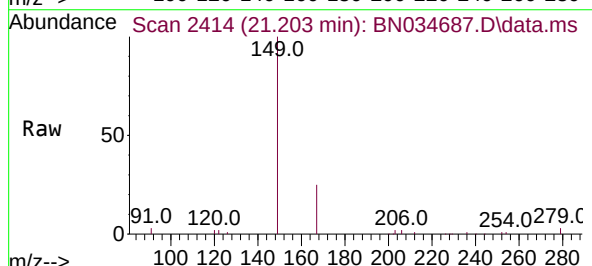
Tgt Ion:149 Resp: 20342

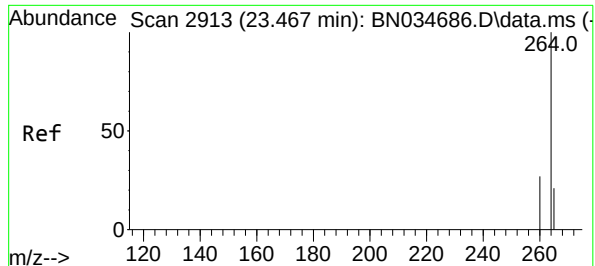
Ion Ratio Lower Upper

149 100

167 25.0 19.7 29.5

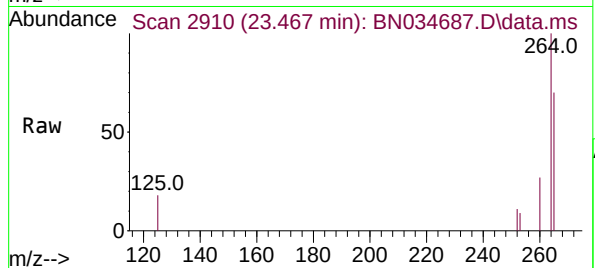
279 1.7 1.8 2.6





#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

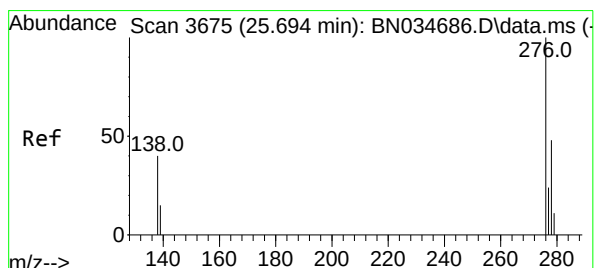
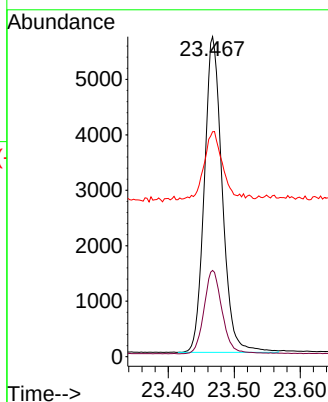
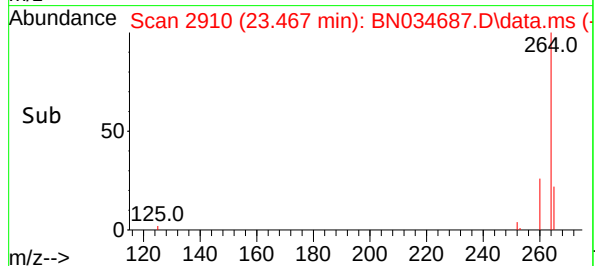
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

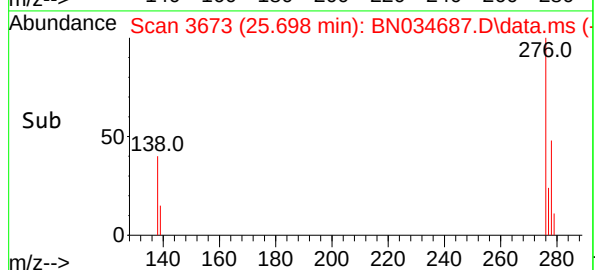
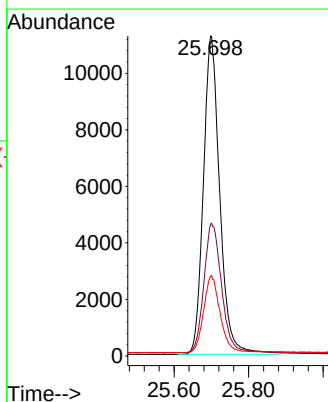
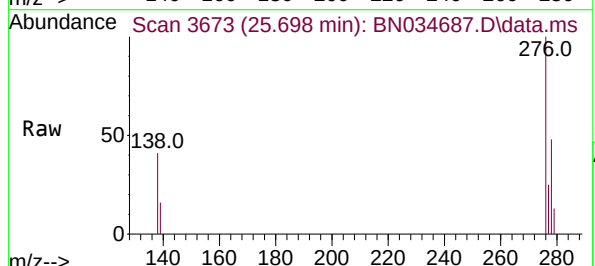
Manual Integrations
APPROVED

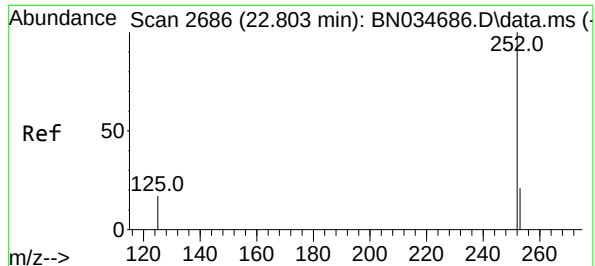
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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 :

SSTDICC0.8

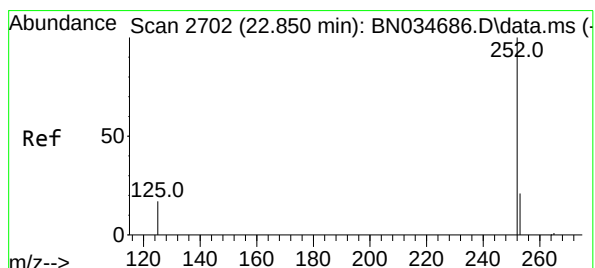
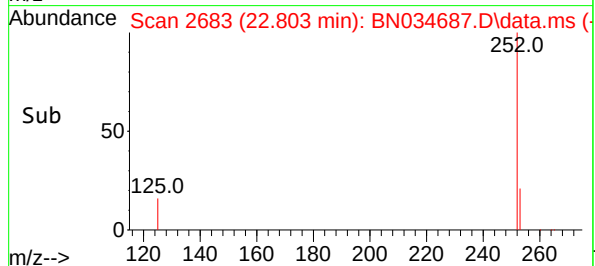
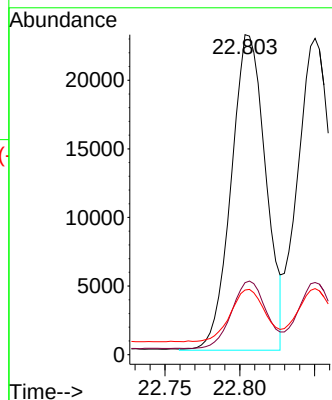
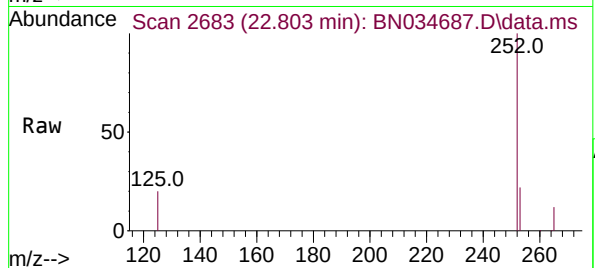
Tgt Ion:	252	Resp:	3692
Ion Ratio	Lower	Upper	
252	100		
253	22.5	20.0	30.0
125	20.2	20.9	31.3

Manual Integrations

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Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.977 ng

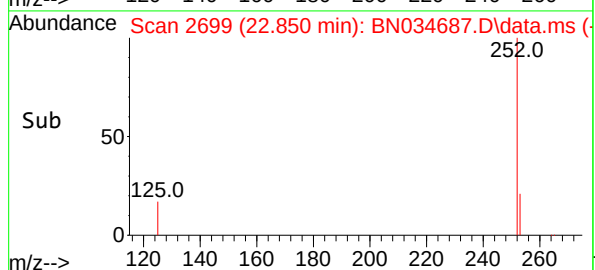
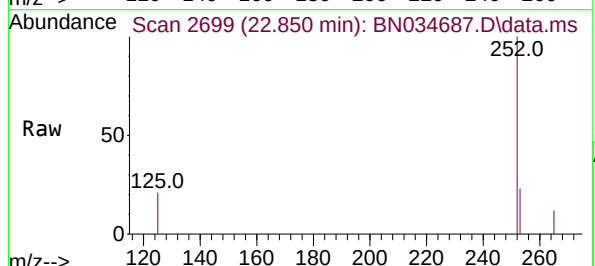
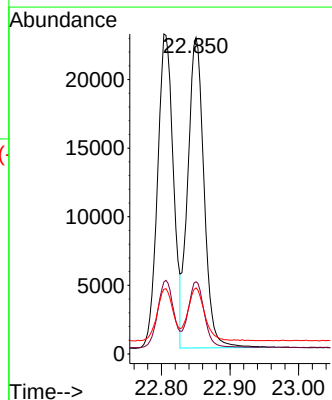
RT: 22.850 min Scan# 2699

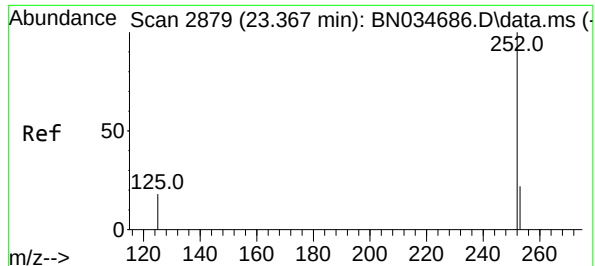
Delta R.T. 0.001 min

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 :

SSTDICC0.8

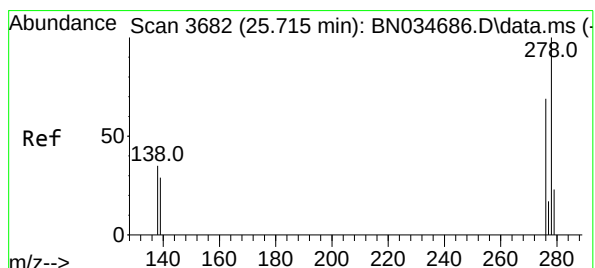
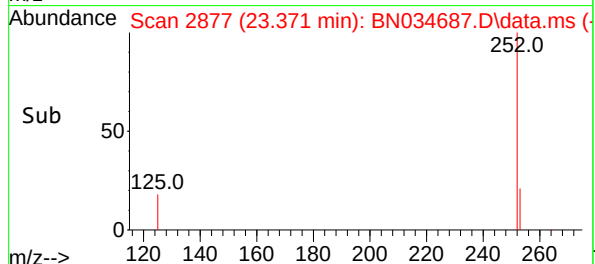
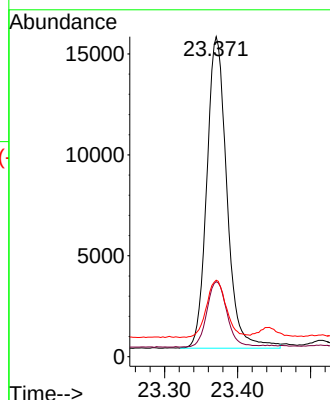
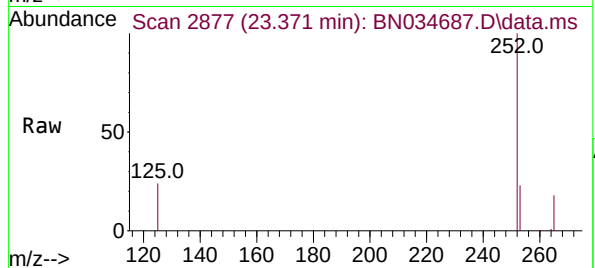
Tgt Ion:	252	Resp:	29490
Ion Ratio	Lower	Upper	
252	100		
253	23.4	22.2	33.4
125	23.9	26.0	39.0

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

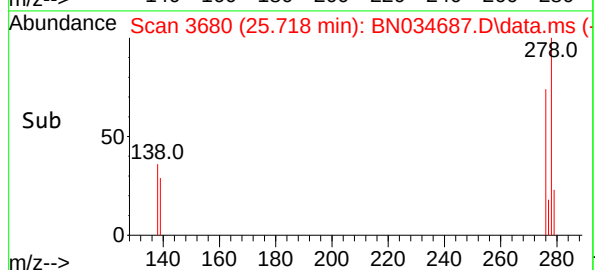
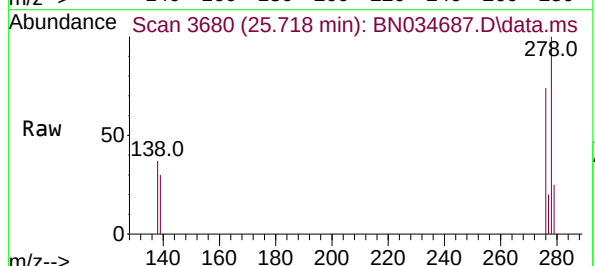
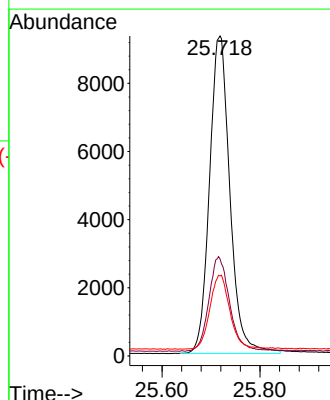
RT: 25.718 min Scan# 3680

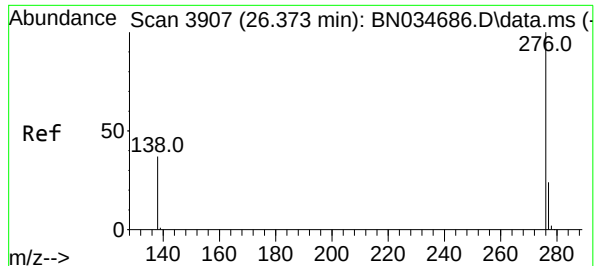
Delta R.T. 0.004 min

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

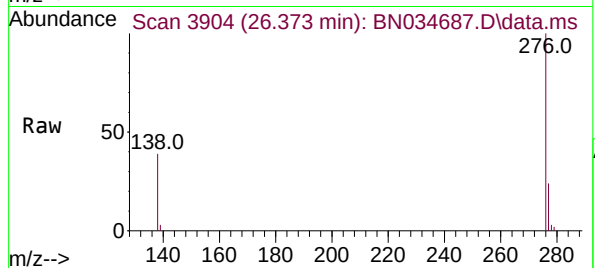
Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 2966

Ion Ratio Lower Upper

276 100

277 24.2 21.3 31.9

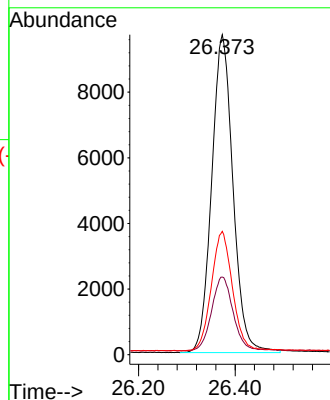
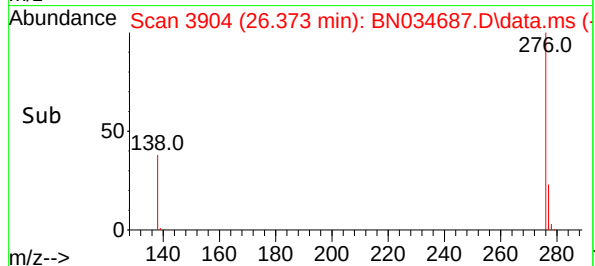
138 38.6 31.9 47.9

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

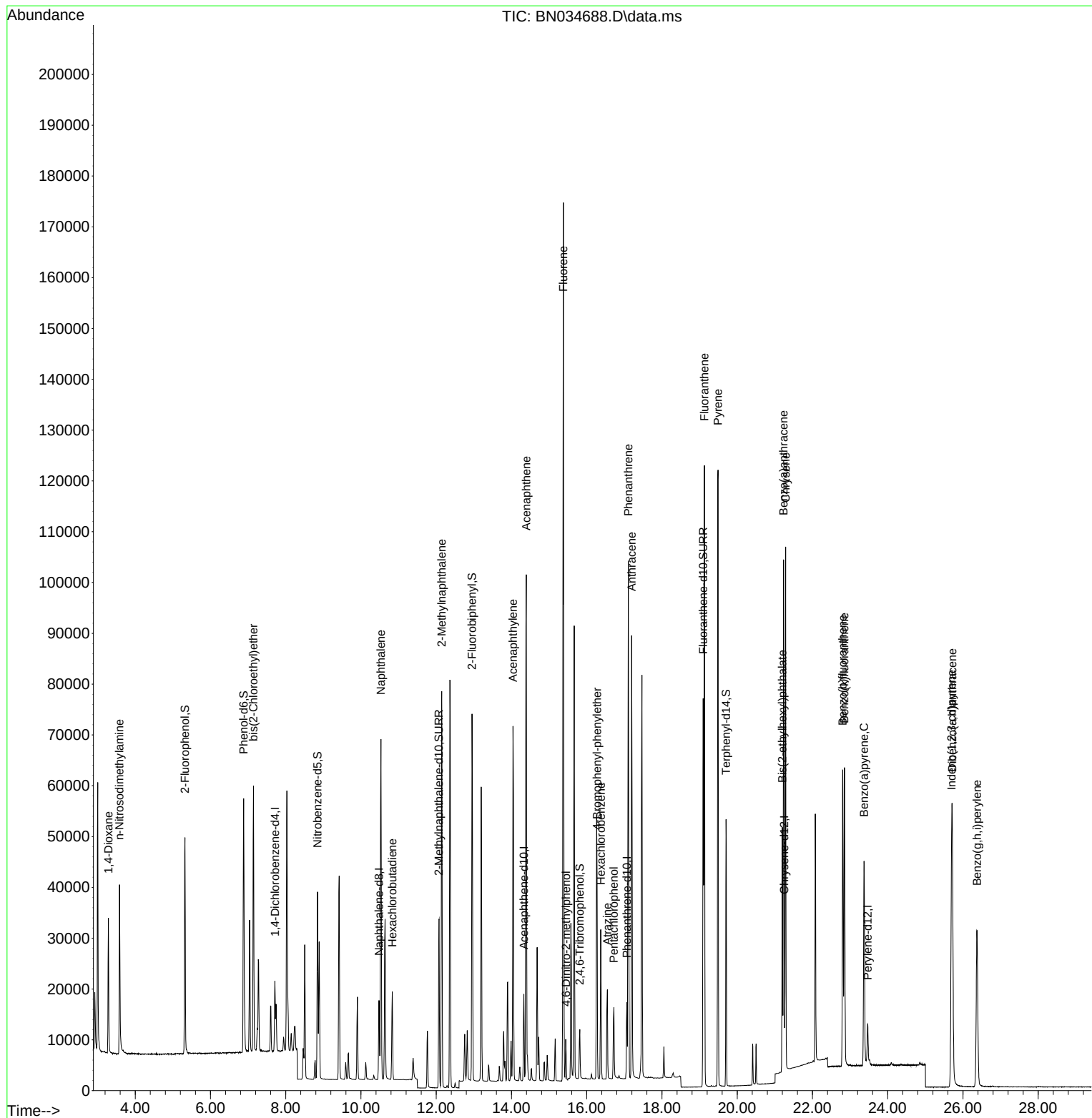
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6253	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18478	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	9335	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	19334	0.400	ng	0.00
29) Chrysene-d12	21.250	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

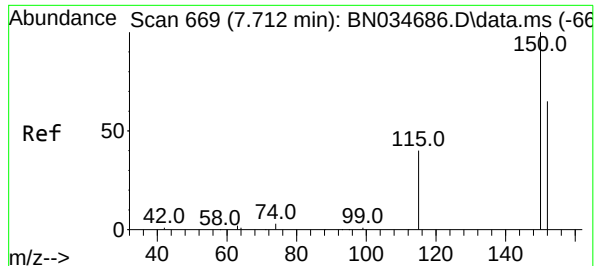
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

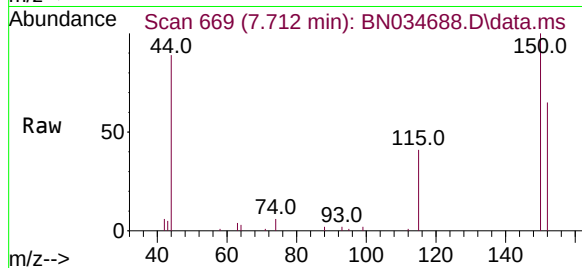
Quant Time: Oct 24 12:43:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration



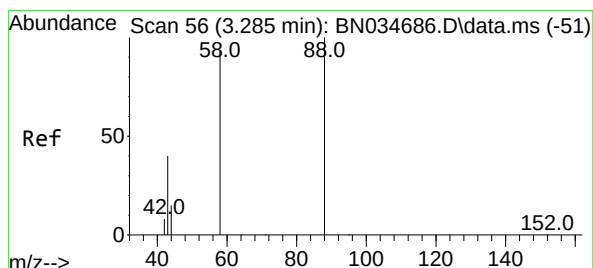
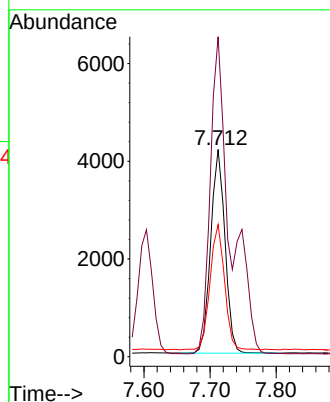
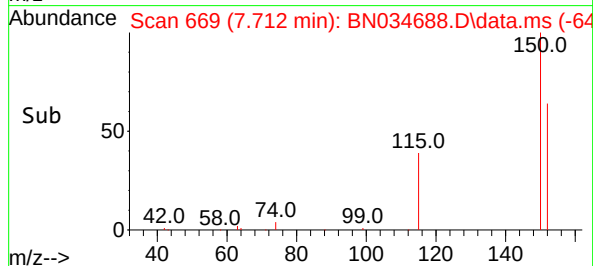


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

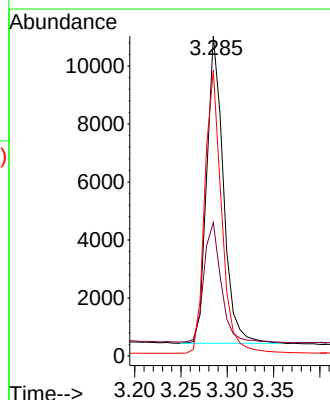
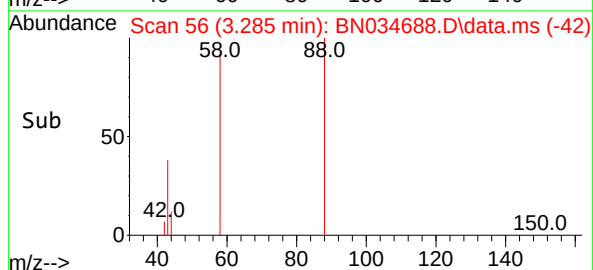
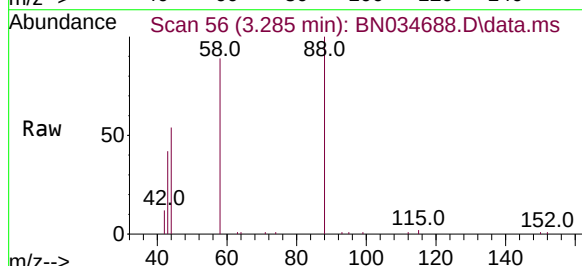


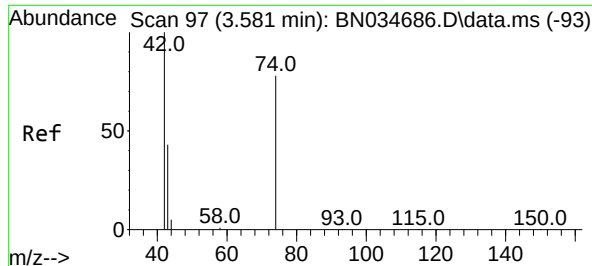
Tgt Ion:152 Resp: 6253
Ion Ratio Lower Upper
152 100
150 154.5 122.7 184.1
115 63.8 51.0 76.6



#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

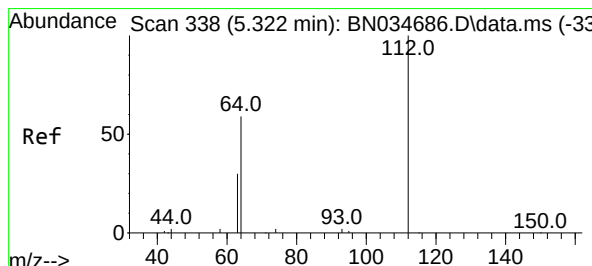
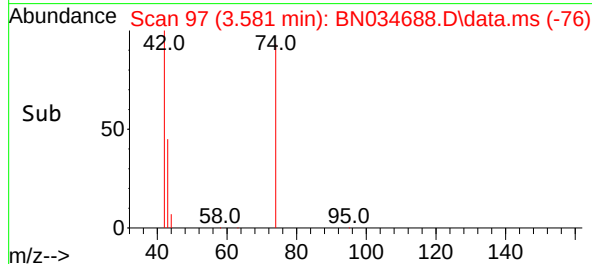
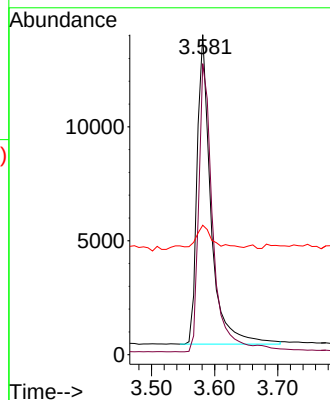
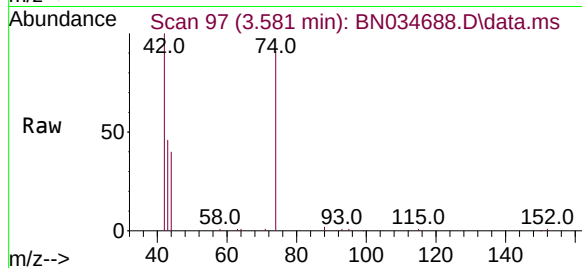




#3
n-Nitrosodimethylamine
Concen: 2.247 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

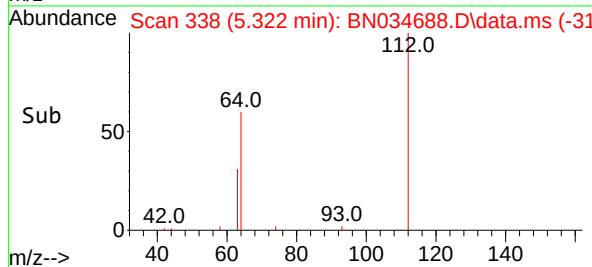
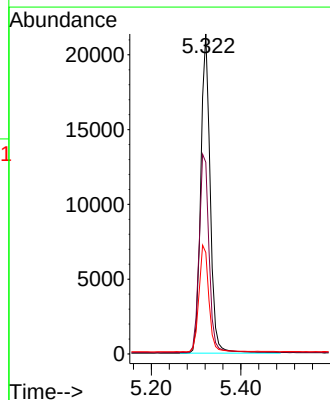
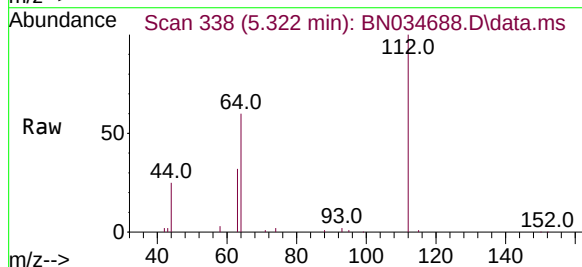
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

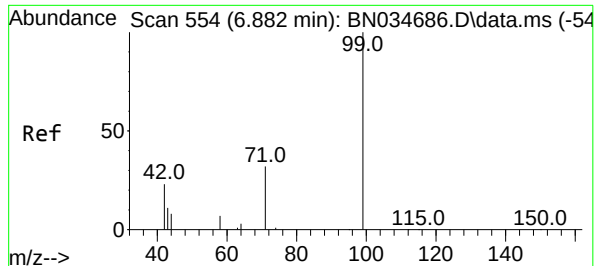
Tgt Ion: 42 Resp: 20688
Ion Ratio Lower Upper
42 100
74 96.2 77.2 115.8
44 11.1 13.4 20.2#



#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

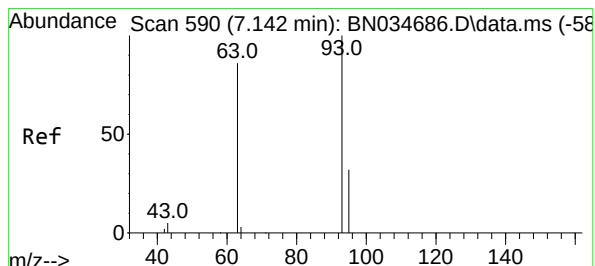
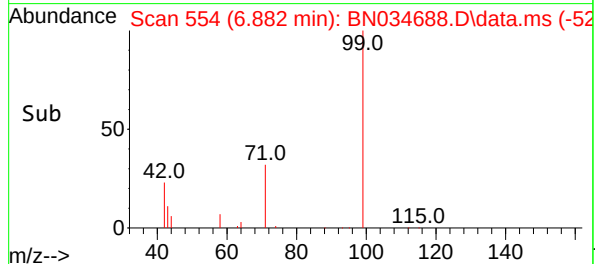
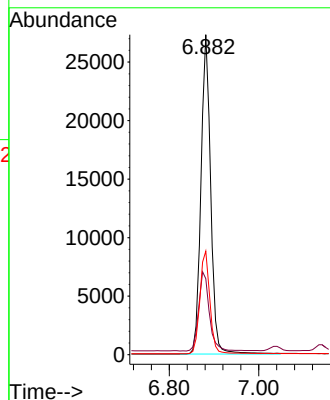
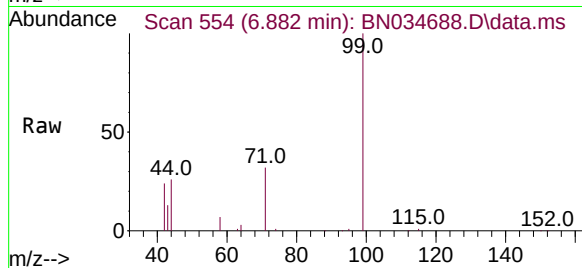




#5
Phenol-d6
Concen: 1.694 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

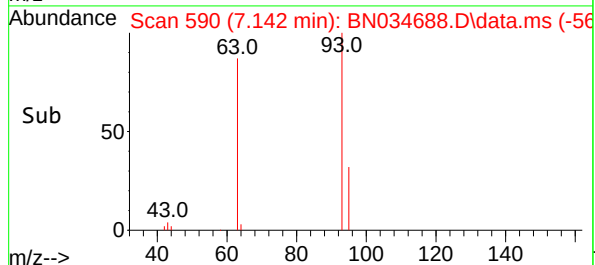
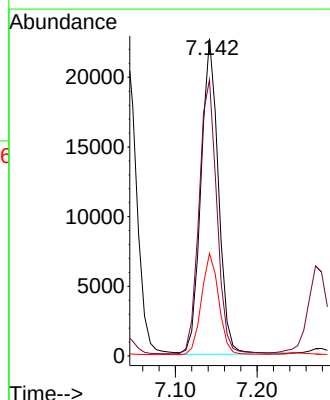
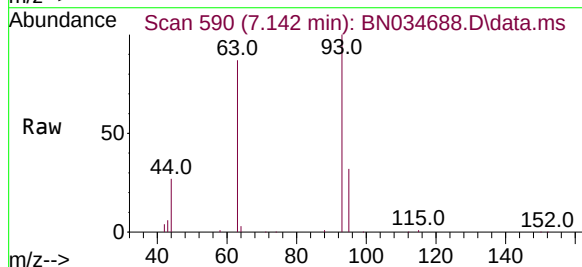
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

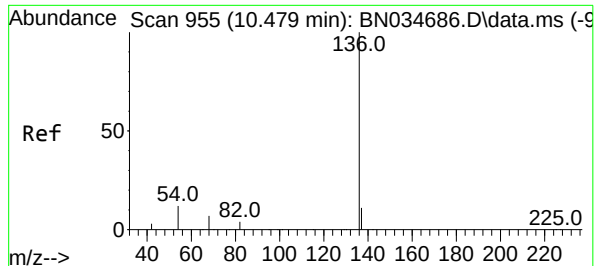
Tgt Ion: 99 Resp: 41454
Ion Ratio Lower Upper
99 100
42 27.2 21.8 32.8
71 33.2 26.6 40.0



#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

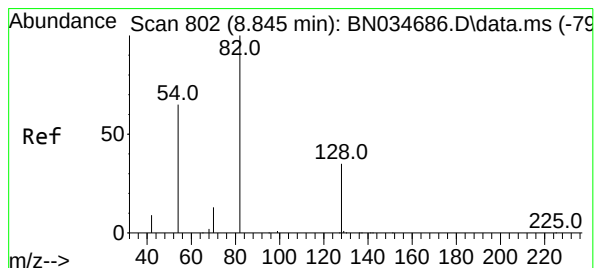
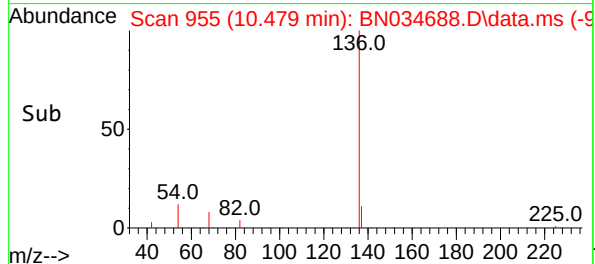
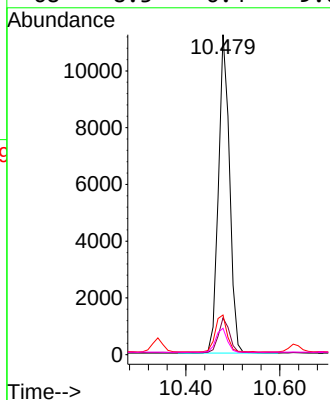
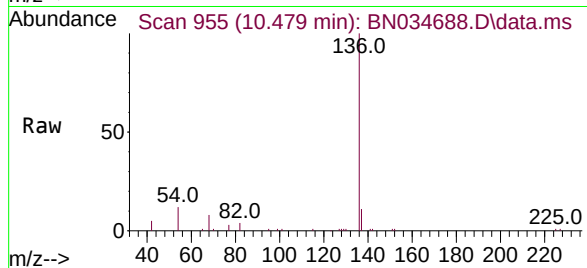




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

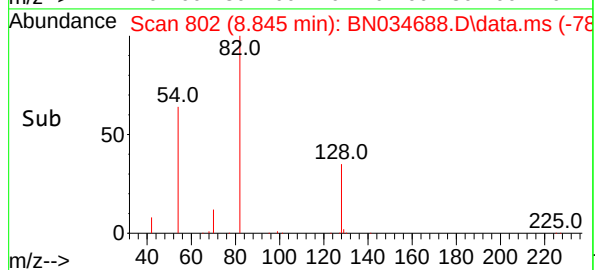
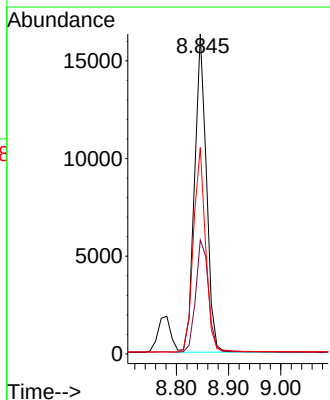
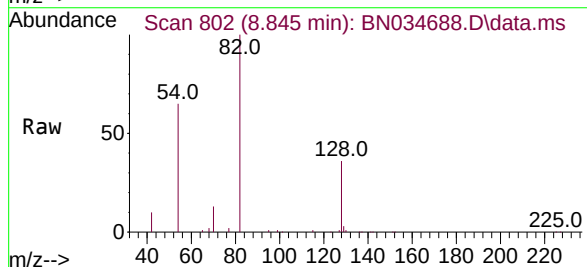
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BNA_N
ClientSampleId :
SSTDICC1.6

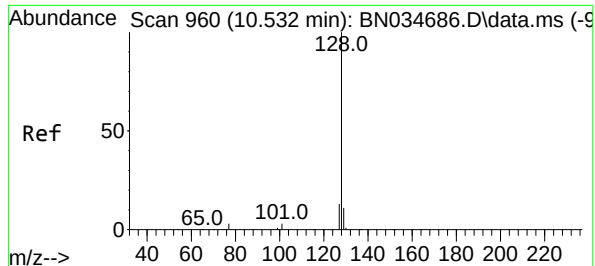
Tgt Ion:	136	Resp:	18478
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	12.4	9.8	14.8
68	8.3	6.4	9.6



#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

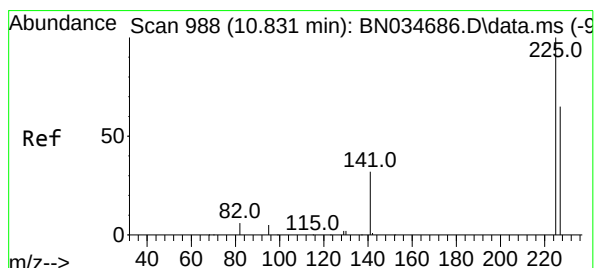
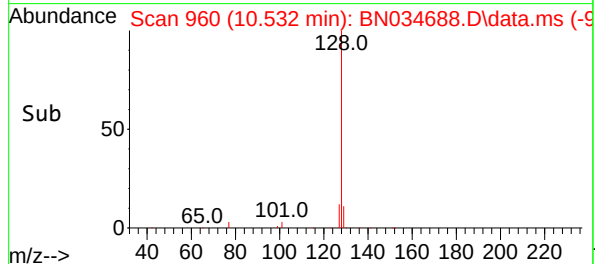
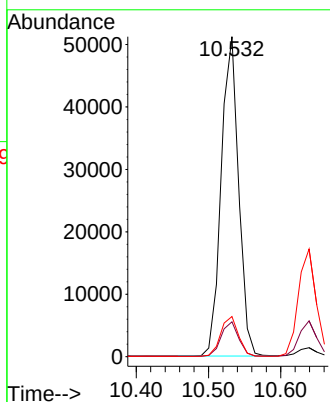
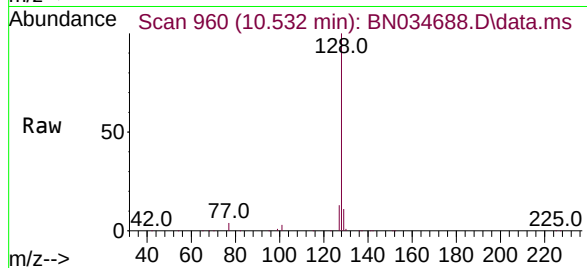




#9
Naphthalene
Concen: 1.679 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

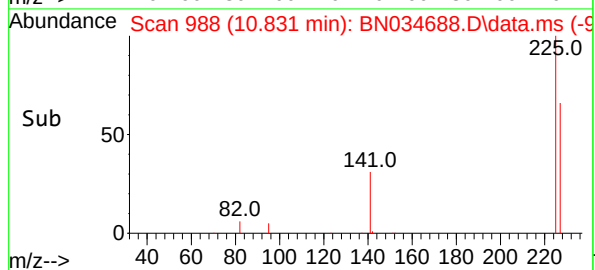
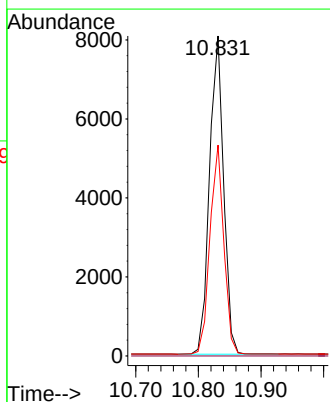
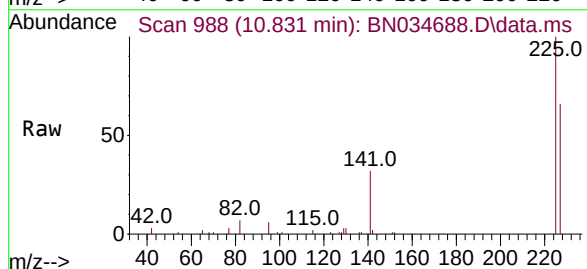
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

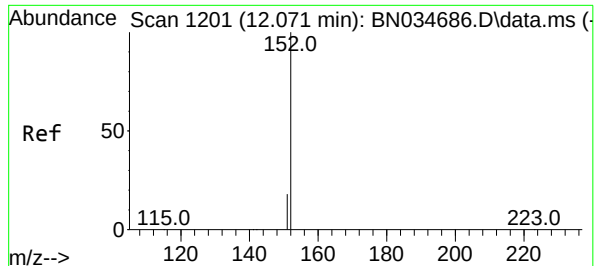
Tgt Ion:128 Resp: 85545
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.6 10.5 15.7



#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

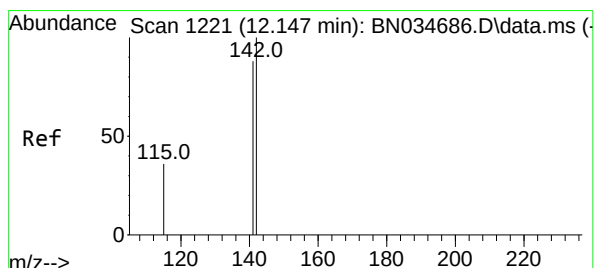
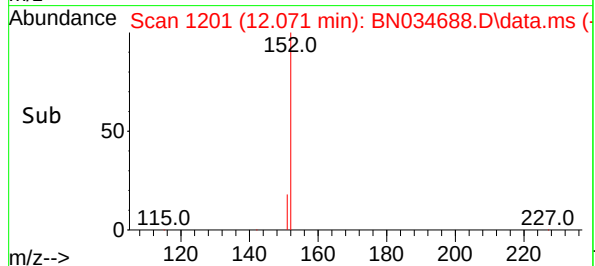
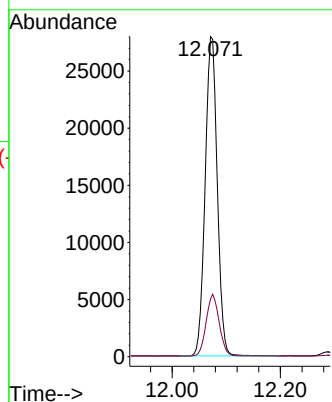
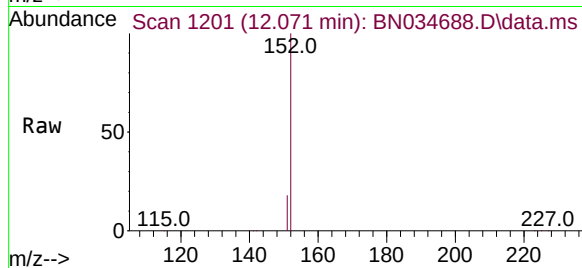




#11
2-Methylnaphthalene-d10
Concen: 1.664 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

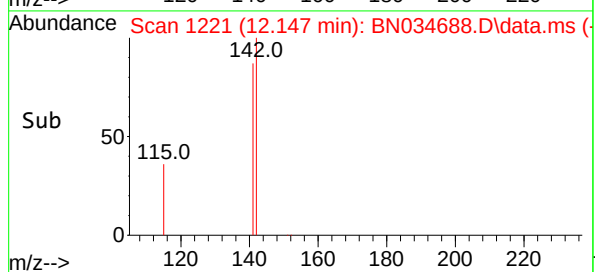
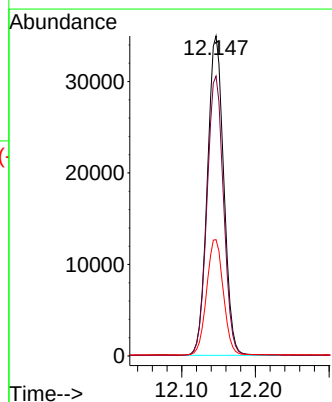
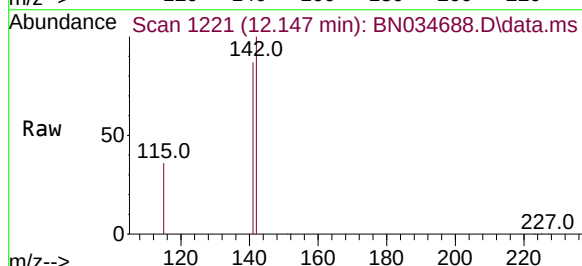
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

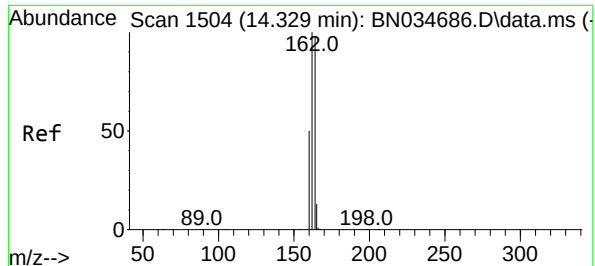
Tgt Ion:152 Resp: 43281
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#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

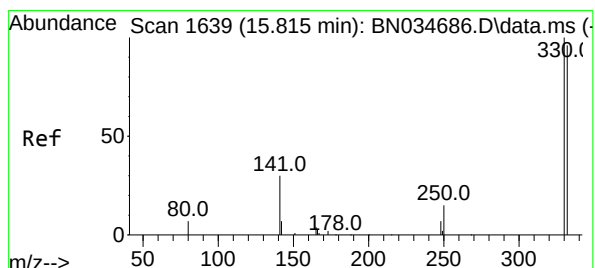
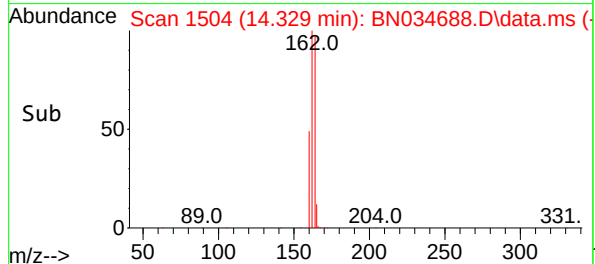
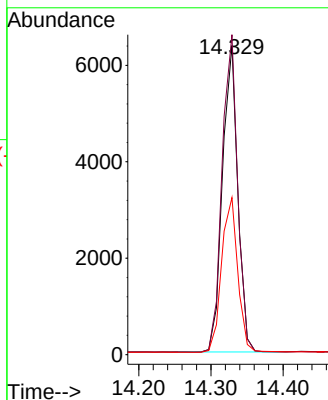
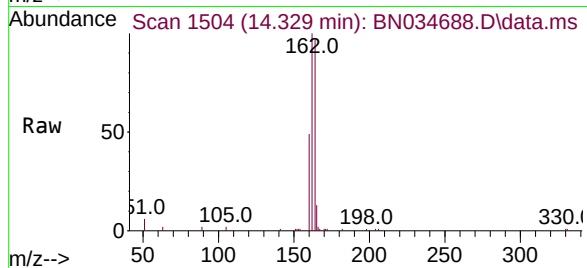




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

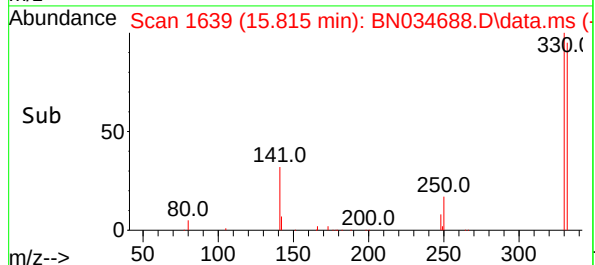
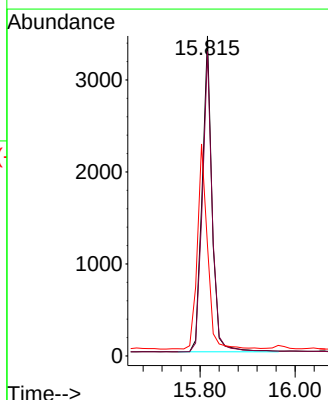
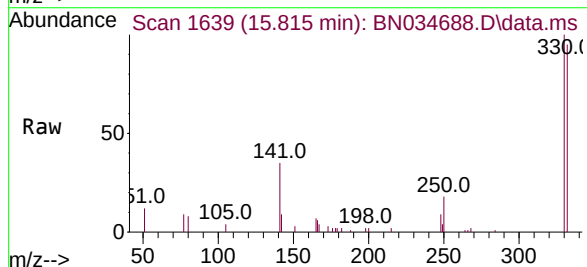
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

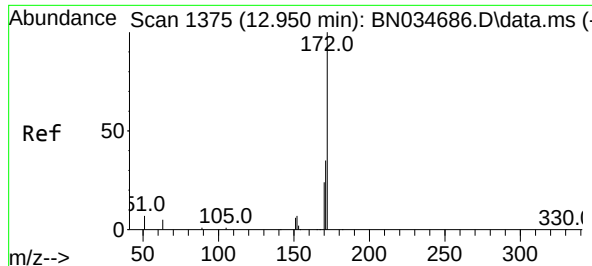
Tgt Ion:164 Resp: 9335
Ion Ratio Lower Upper
164 100
162 103.4 81.4 122.0
160 50.8 40.6 61.0



#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

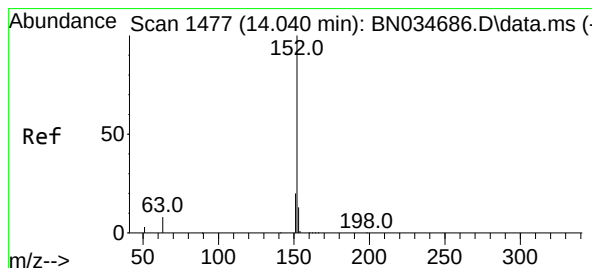
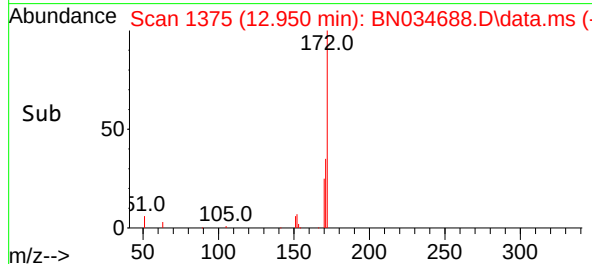
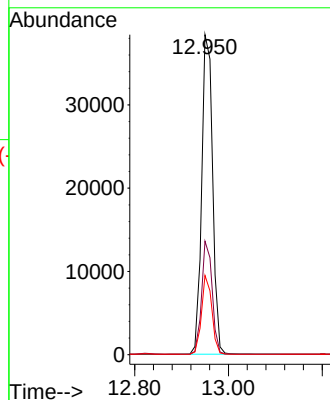
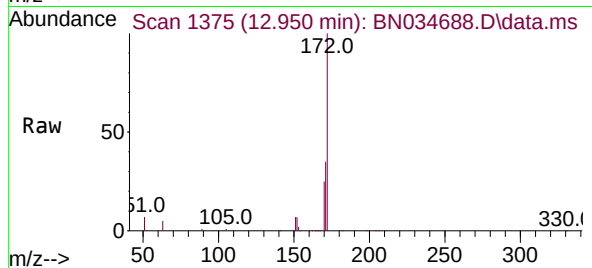




#15
2-Fluorobiphenyl
Concen: 1.691 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

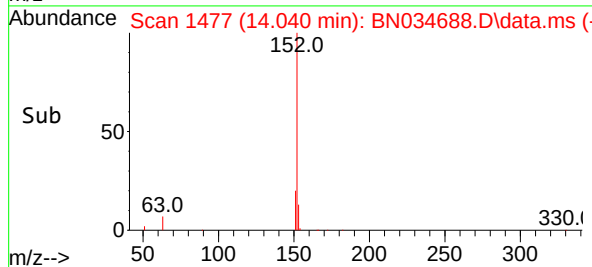
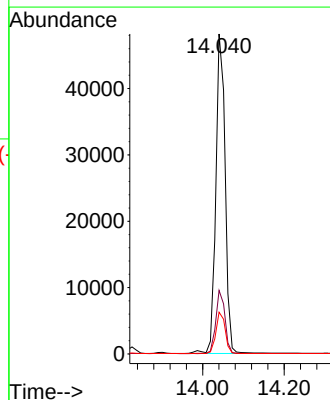
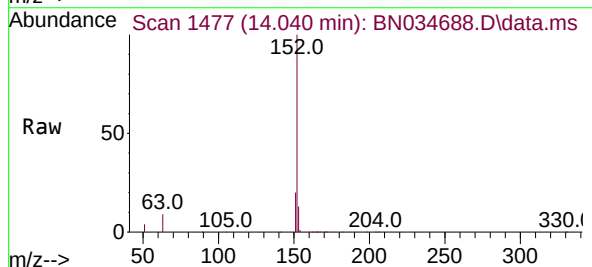
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

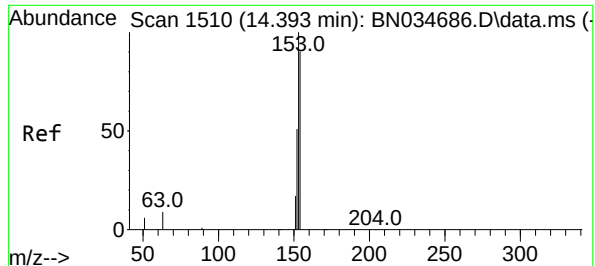
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	24.8	19.8	29.6



#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

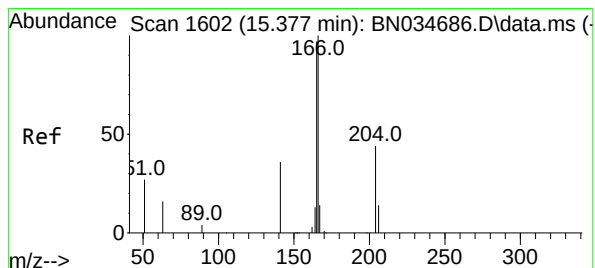
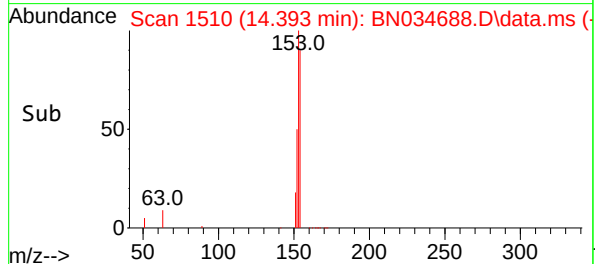
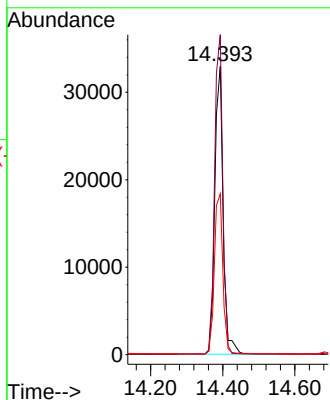
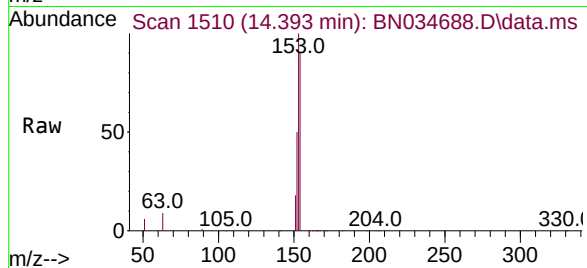




#17
Acenaphthene
Concen: 1.718 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

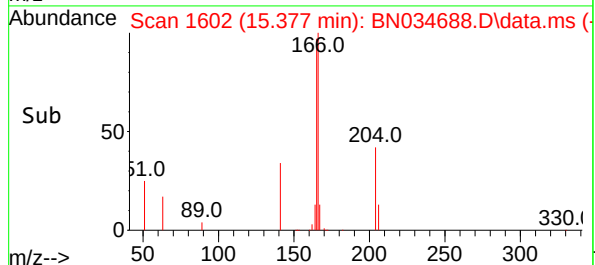
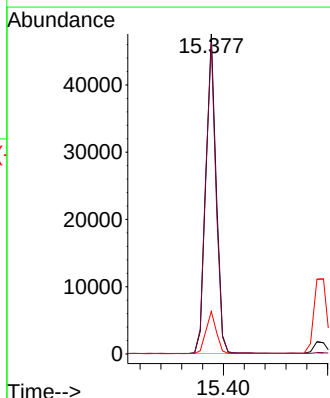
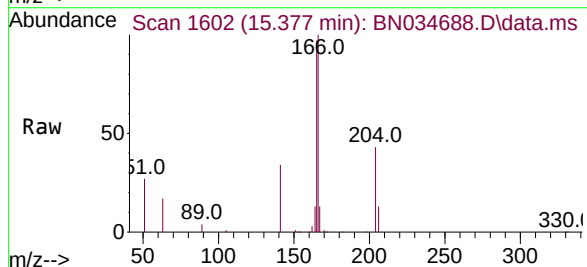
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

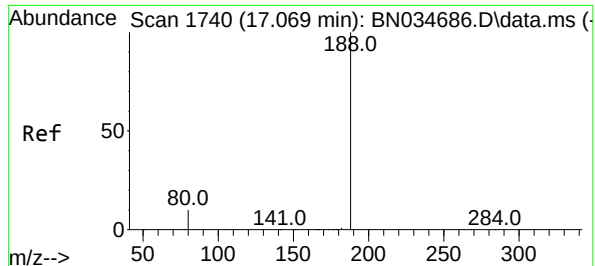
Tgt Ion:154 Resp: 52549
Ion Ratio Lower Upper
154 100
153 108.8 88.2 132.2
152 56.9 46.9 70.3



#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# 1

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

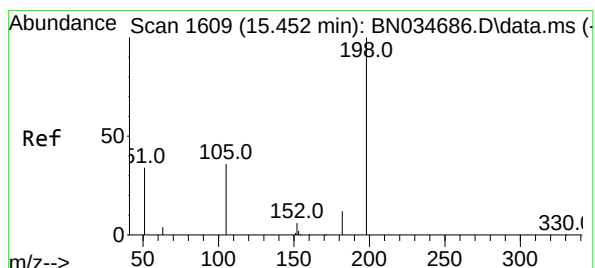
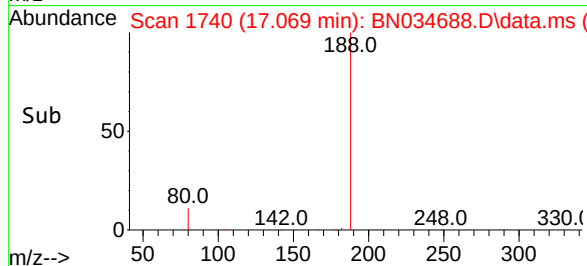
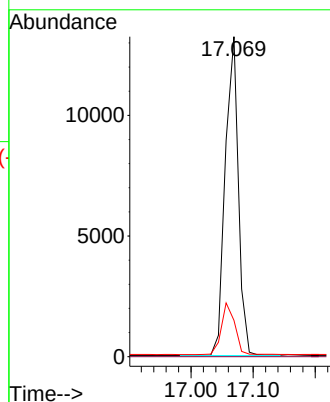
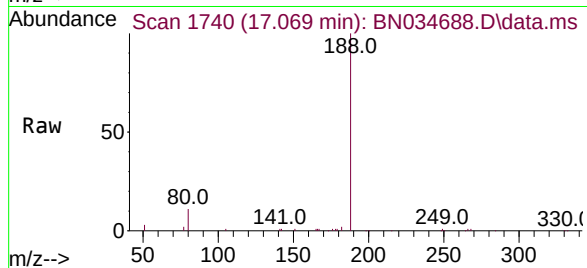
Tgt Ion:188 Resp: 19334

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

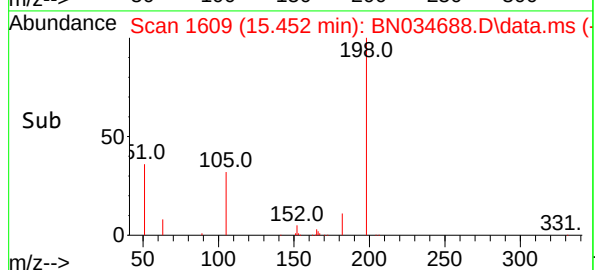
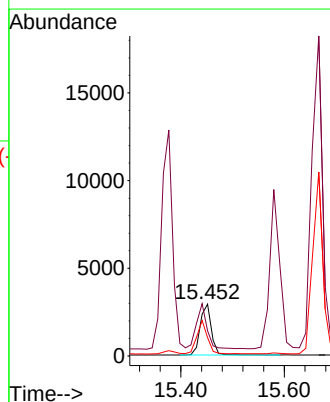
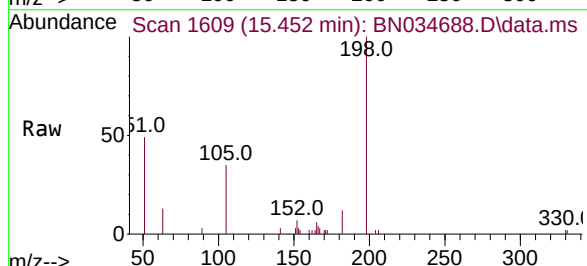
Tgt Ion:198 Resp: 4583

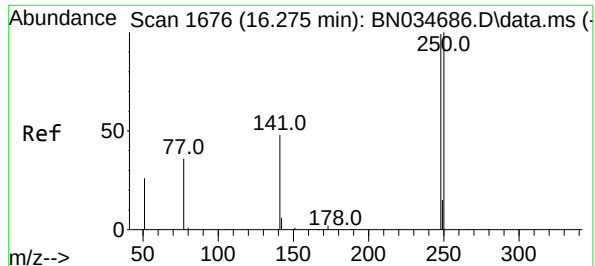
Ion Ratio Lower Upper

198 100

51 48.7 91.8 137.8#

105 35.4 44.3 66.5#

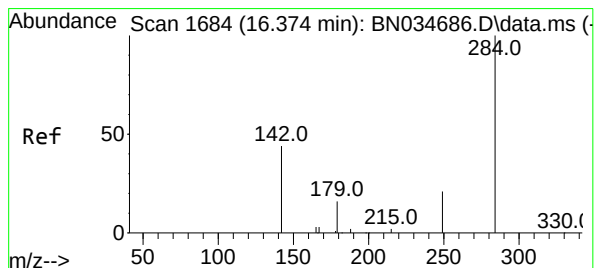
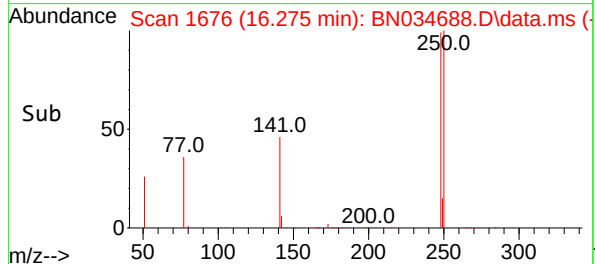
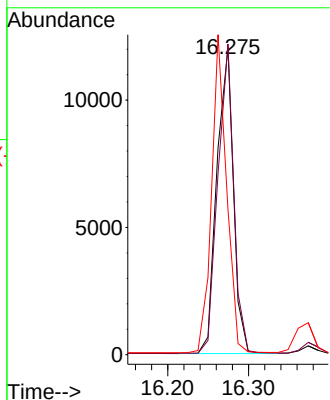
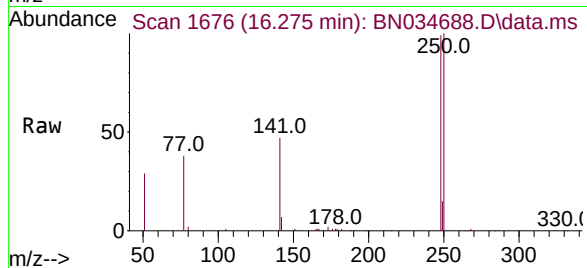




#21
4-Bromophenyl-phenylether
Concen: 1.615 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

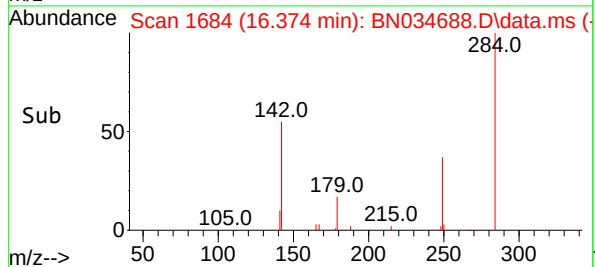
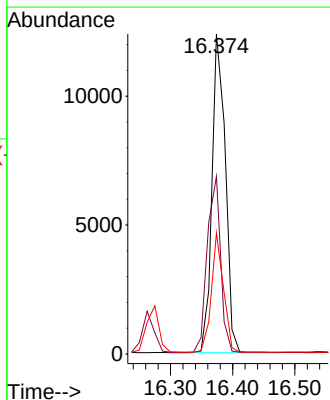
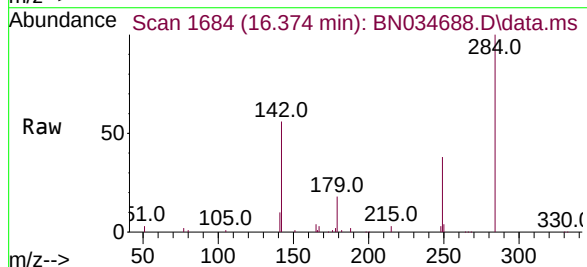
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

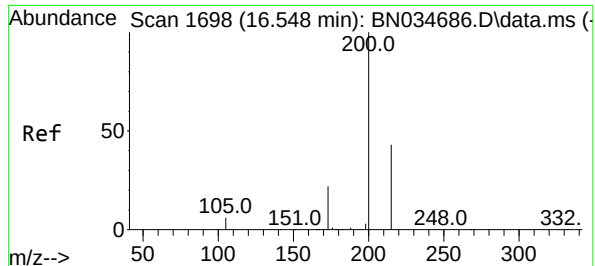
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.9	121.3
141	47.4	40.5	60.7



#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

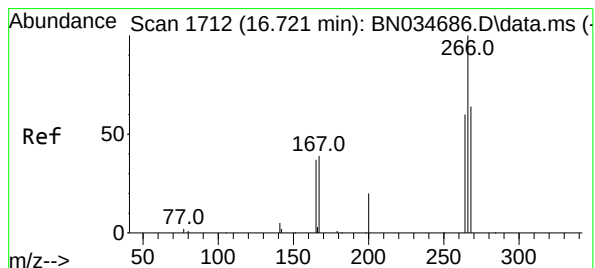
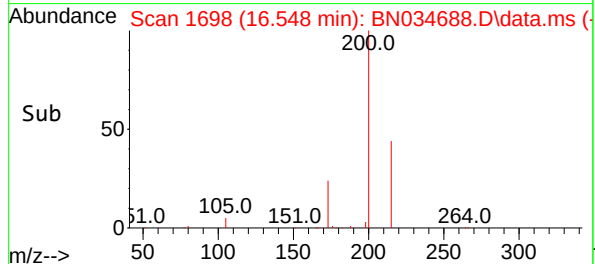
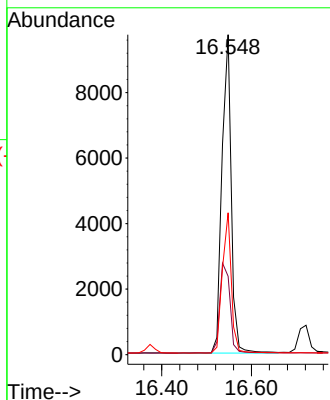
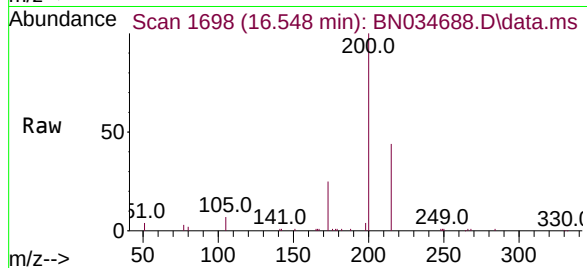




#23
Atrazine
Concen: 1.516 ng
RT: 16.548 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

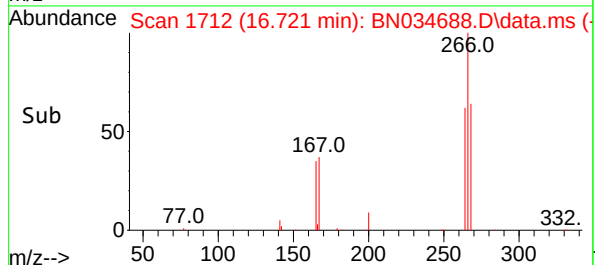
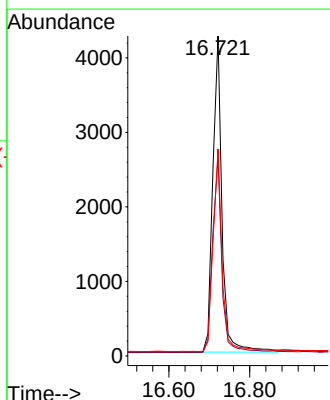
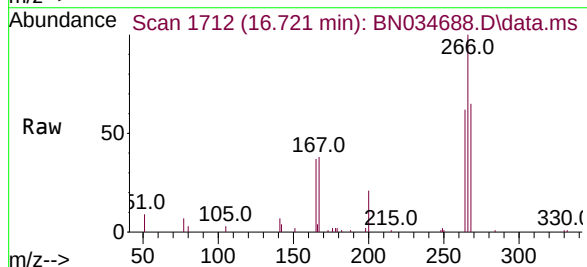
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

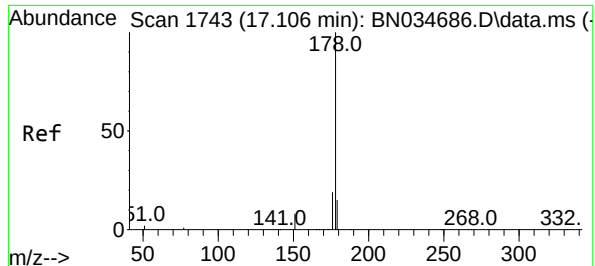
Tgt Ion:200 Resp: 14024
Ion Ratio Lower Upper
200 100
173 24.5 19.7 29.5
215 44.3 35.7 53.5



#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

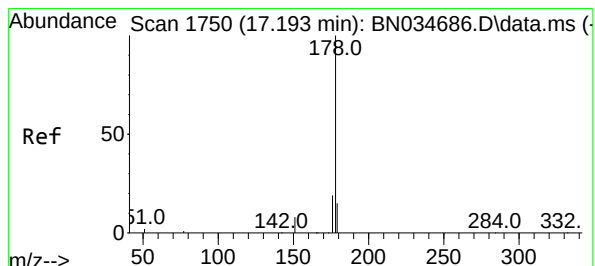
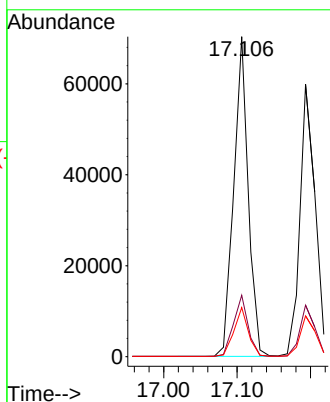
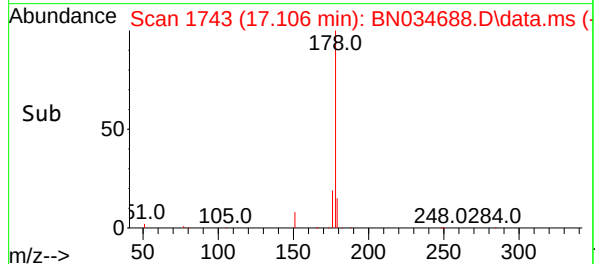
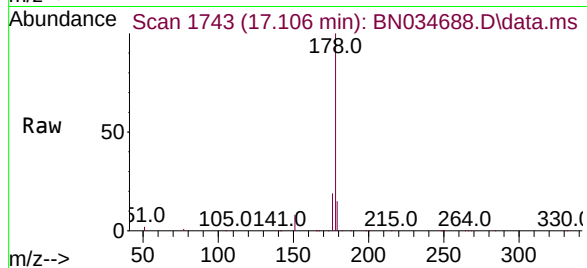




#25
Phenanthrene
Concen: 1.673 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

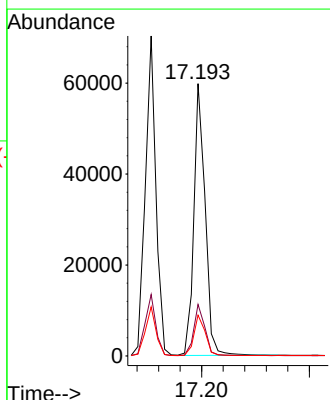
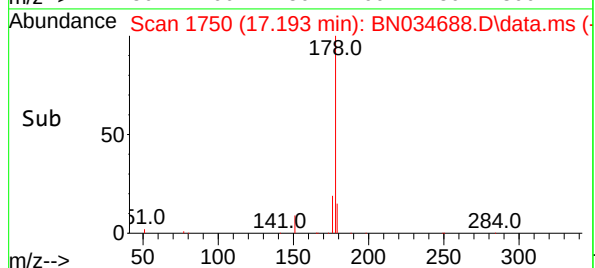
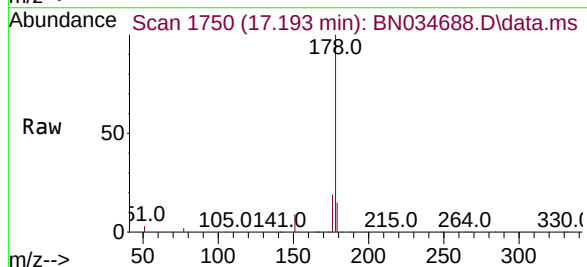
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

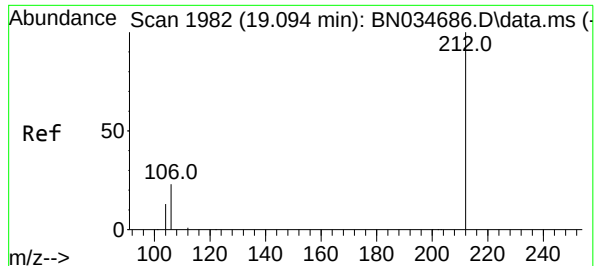
Tgt Ion:178 Resp: 96240
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.2 18.4



#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

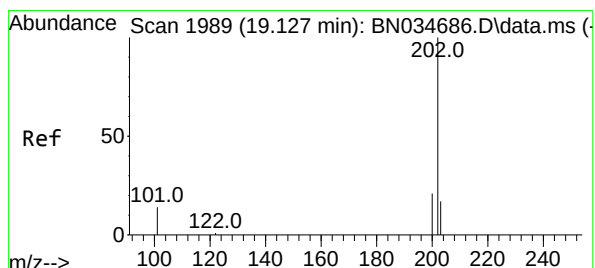
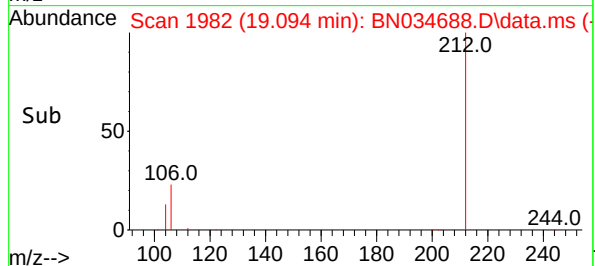
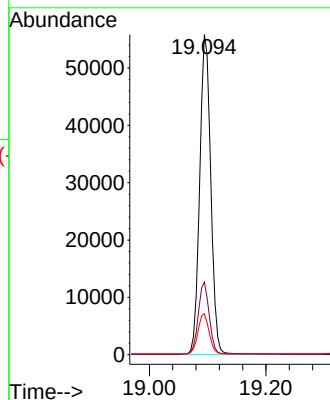
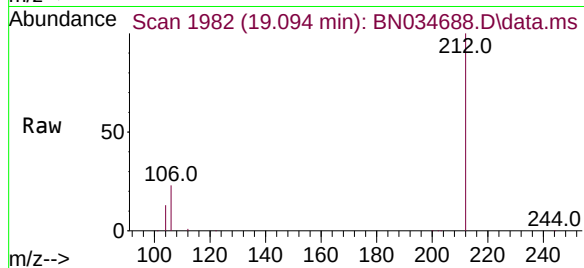
Tgt Ion:212 Resp: 73515

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

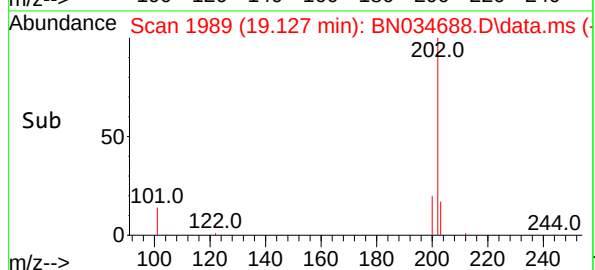
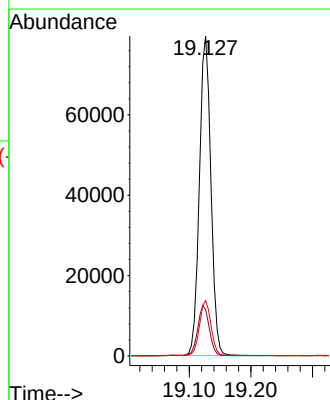
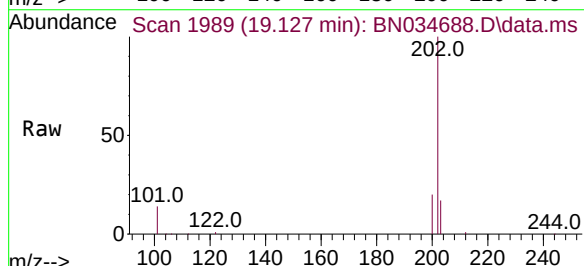
Tgt Ion:202 Resp: 103093

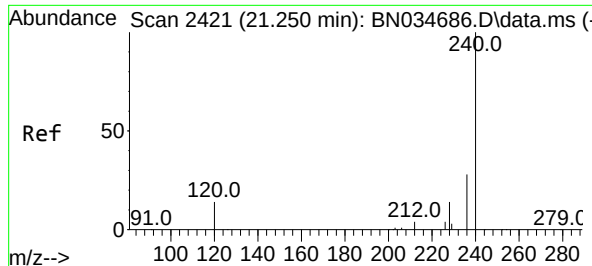
Ion Ratio Lower Upper

202 100

101 16.0 12.8 19.2

203 17.2 13.5 20.3

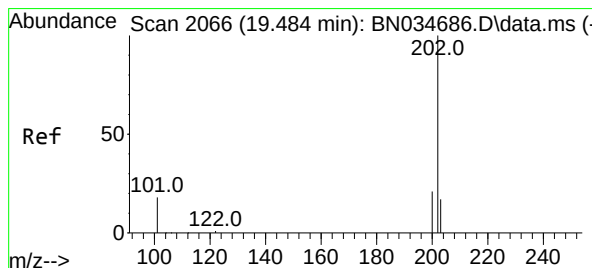
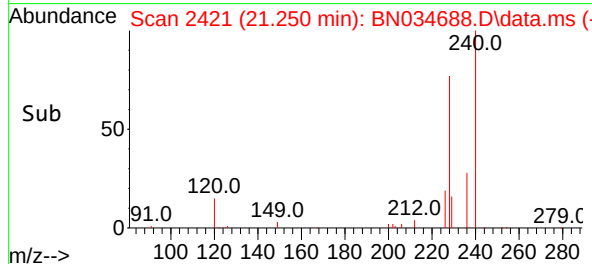
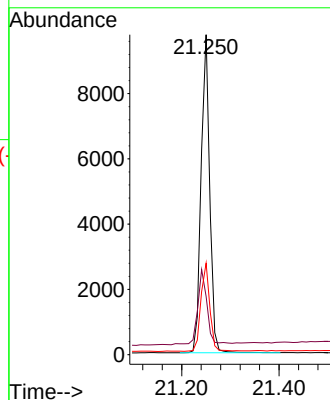
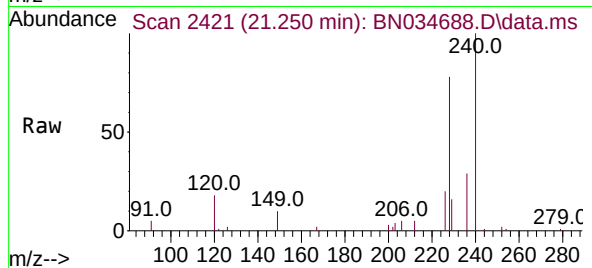




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

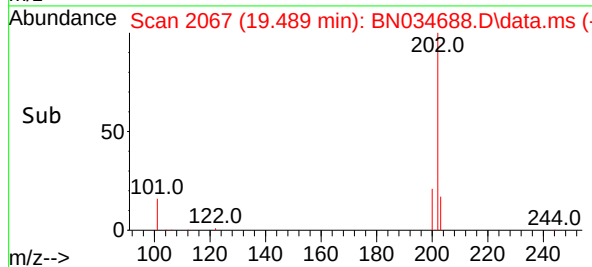
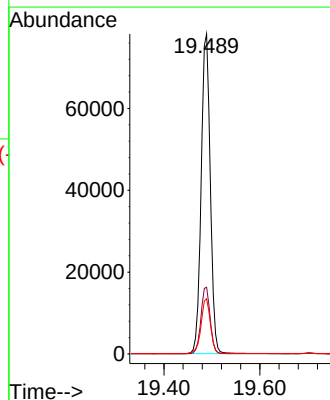
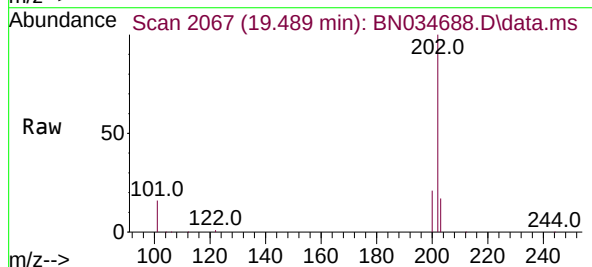
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

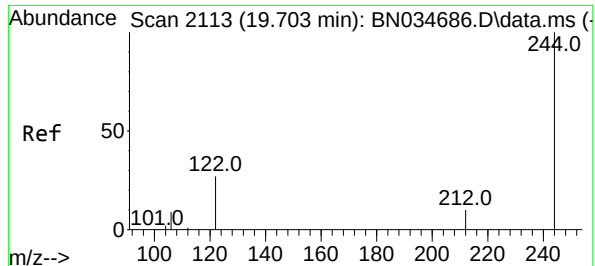
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.2	14.2	21.2
236	28.6	23.1	34.7



#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	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.7	14.2	21.4

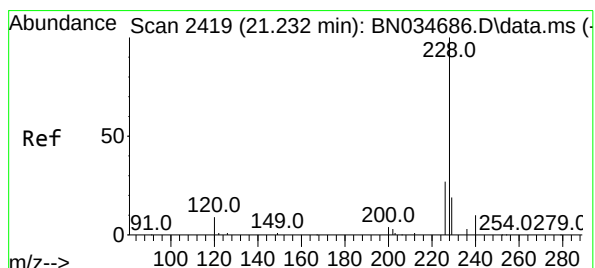
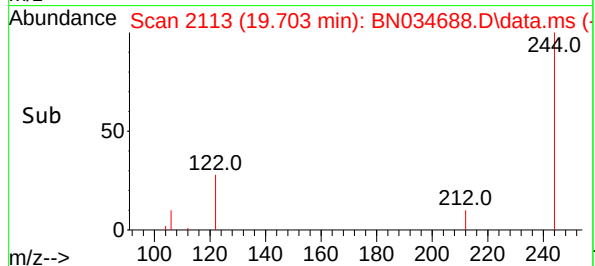
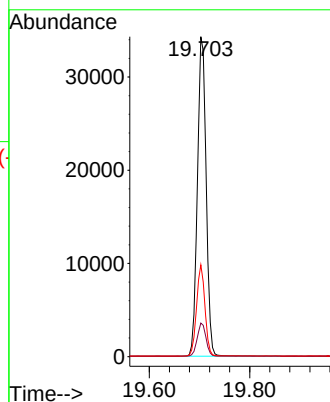
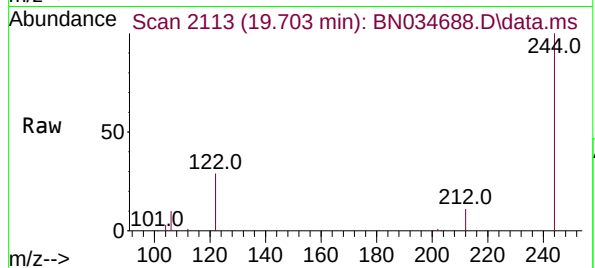




#31
Terphenyl-d14
Concen: 1.788 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034688.D
Acq: 24 Oct 2024 11:35

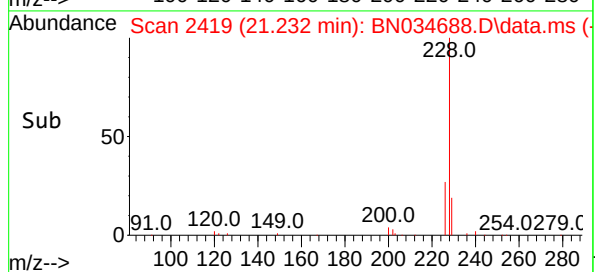
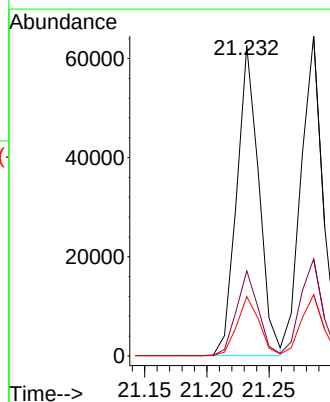
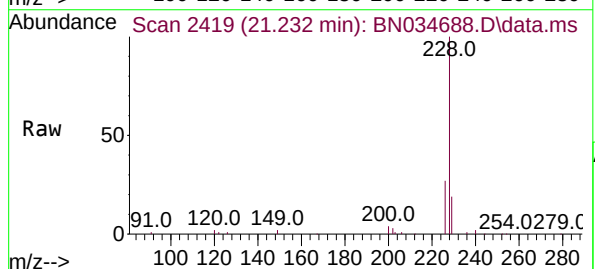
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

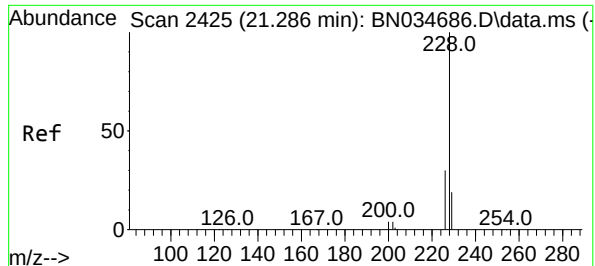
Tgt Ion:244 Resp: 41261
Ion Ratio Lower Upper
244 100
212 10.5 8.6 13.0
122 28.7 22.3 33.5



#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

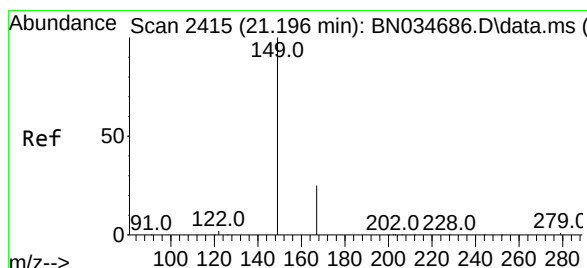
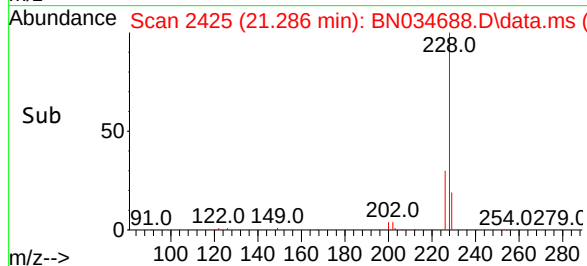
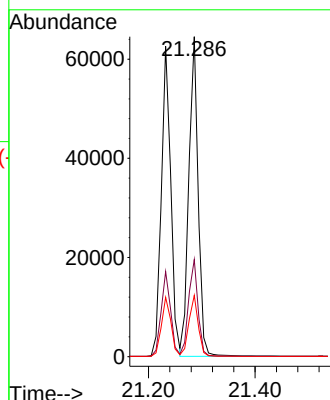
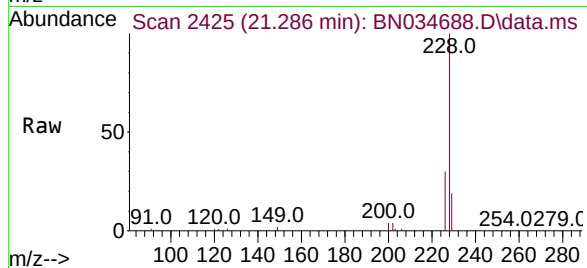
Tgt Ion:228 Resp: 78358

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

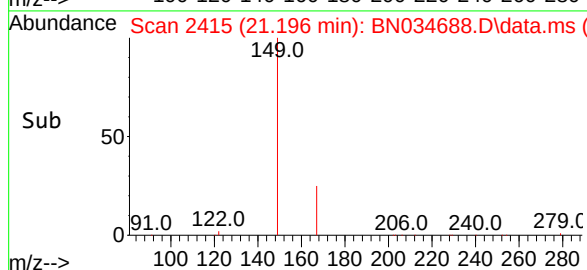
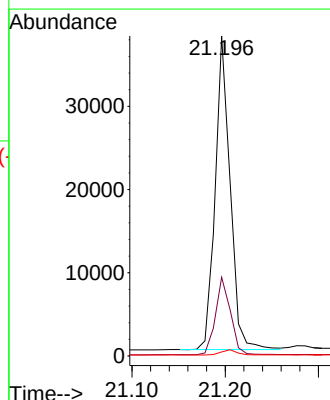
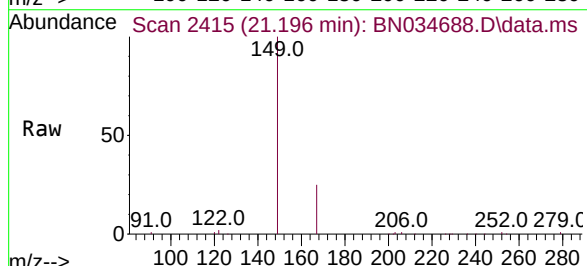
Tgt Ion:149 Resp: 41892

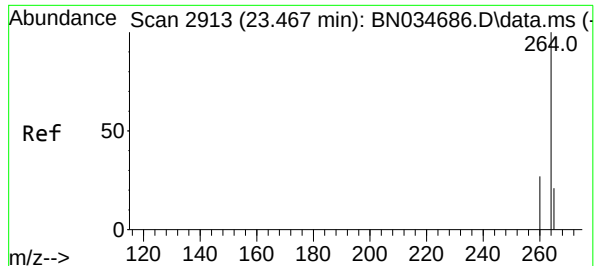
Ion Ratio Lower Upper

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

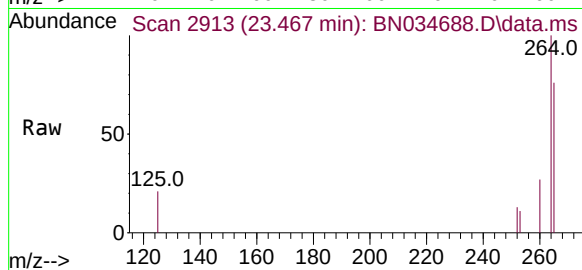
Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



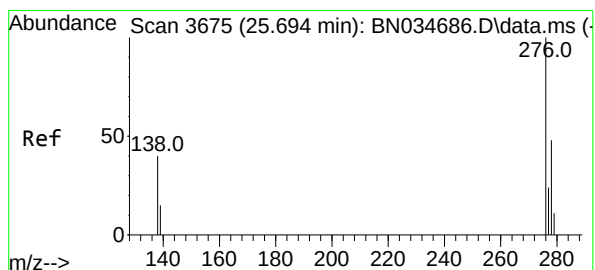
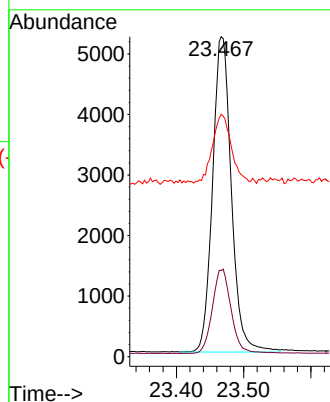
Tgt Ion:264 Resp: 10103

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

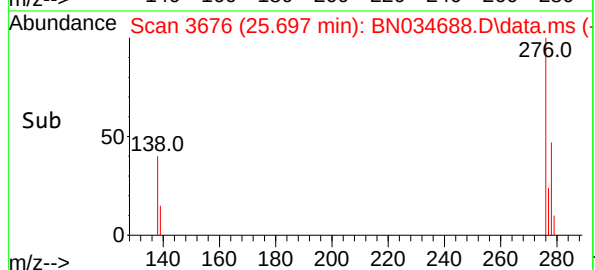
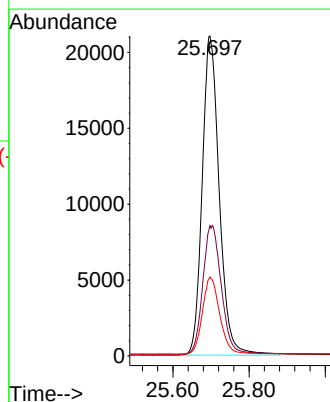
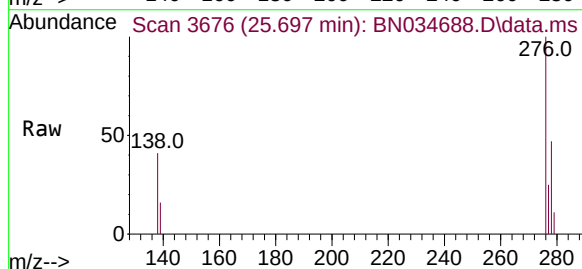
Tgt Ion:276 Resp: 65482

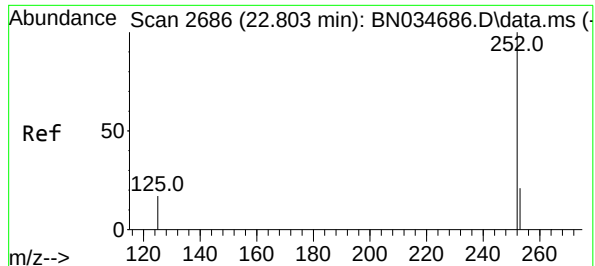
Ion Ratio Lower Upper

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# 2686

Delta R.T. 0.000 min

Lab File: BN034688.D

Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

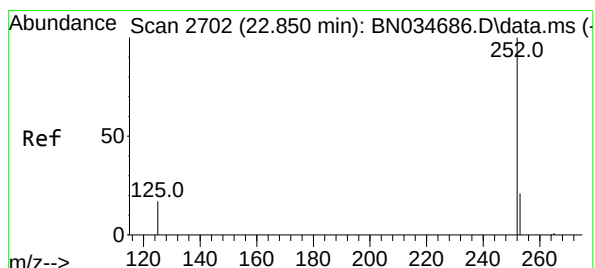
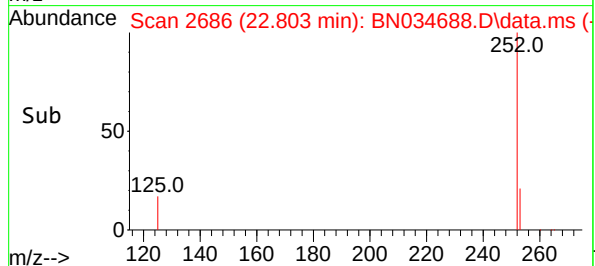
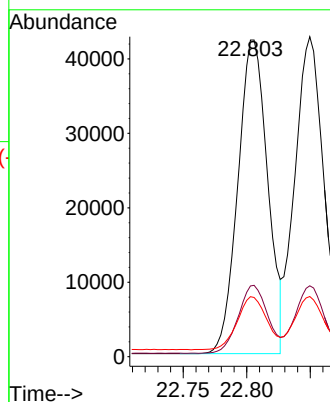
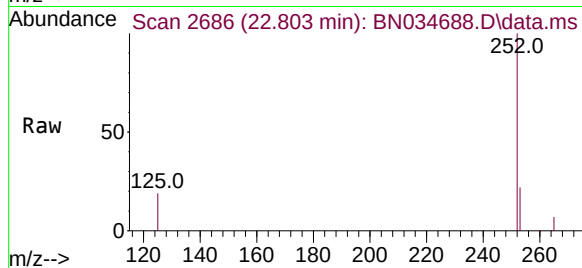
Tgt Ion:252 Resp: 68644

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

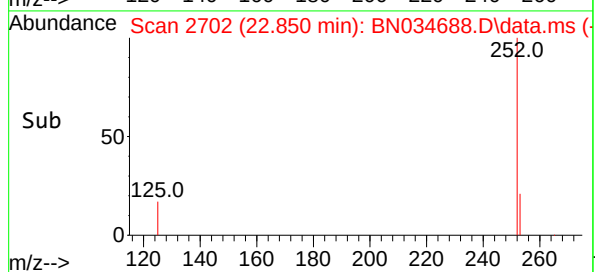
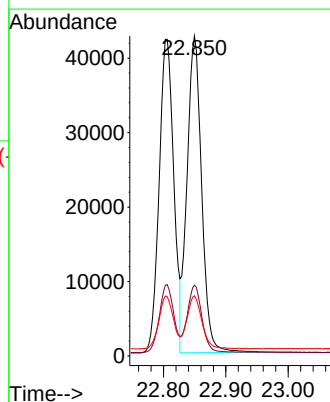
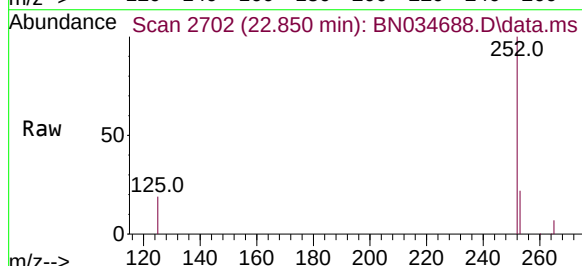
Tgt Ion:252 Resp: 69183

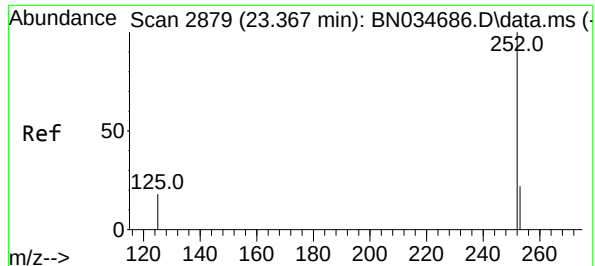
Ion Ratio Lower Upper

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

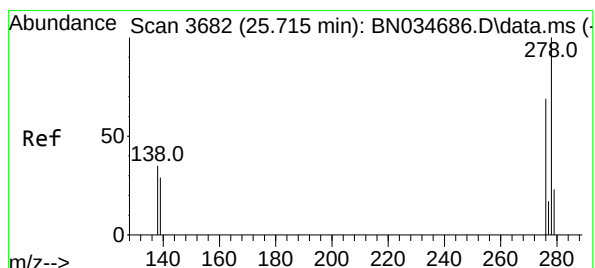
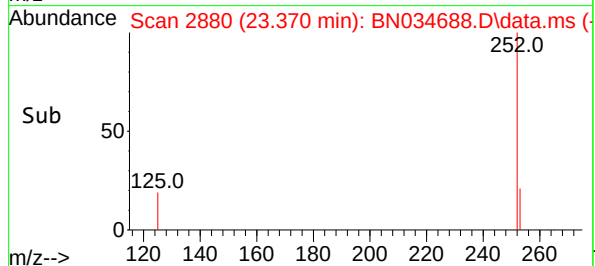
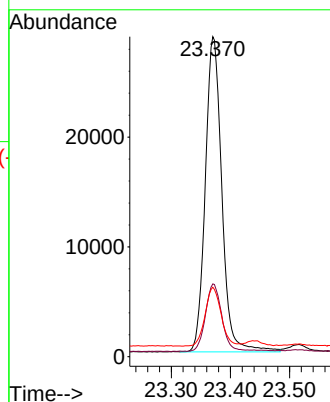
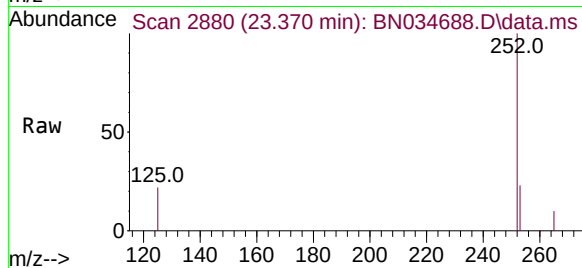
Tgt Ion:252 Resp: 55896

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

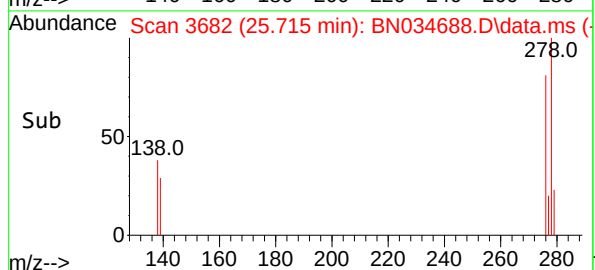
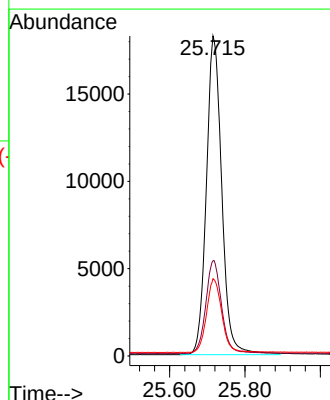
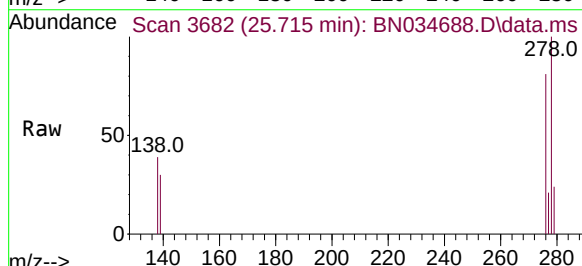
Tgt Ion:278 Resp: 51867

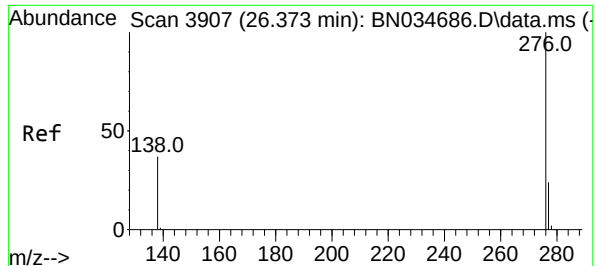
Ion Ratio Lower Upper

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

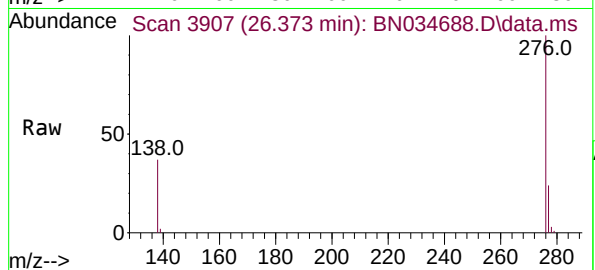
Acq: 24 Oct 2024 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



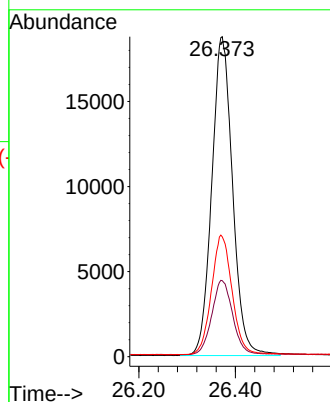
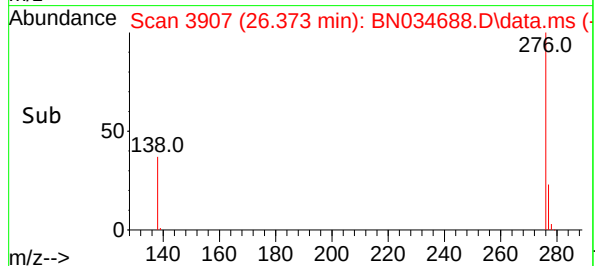
Tgt Ion:276 Resp: 56042

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)

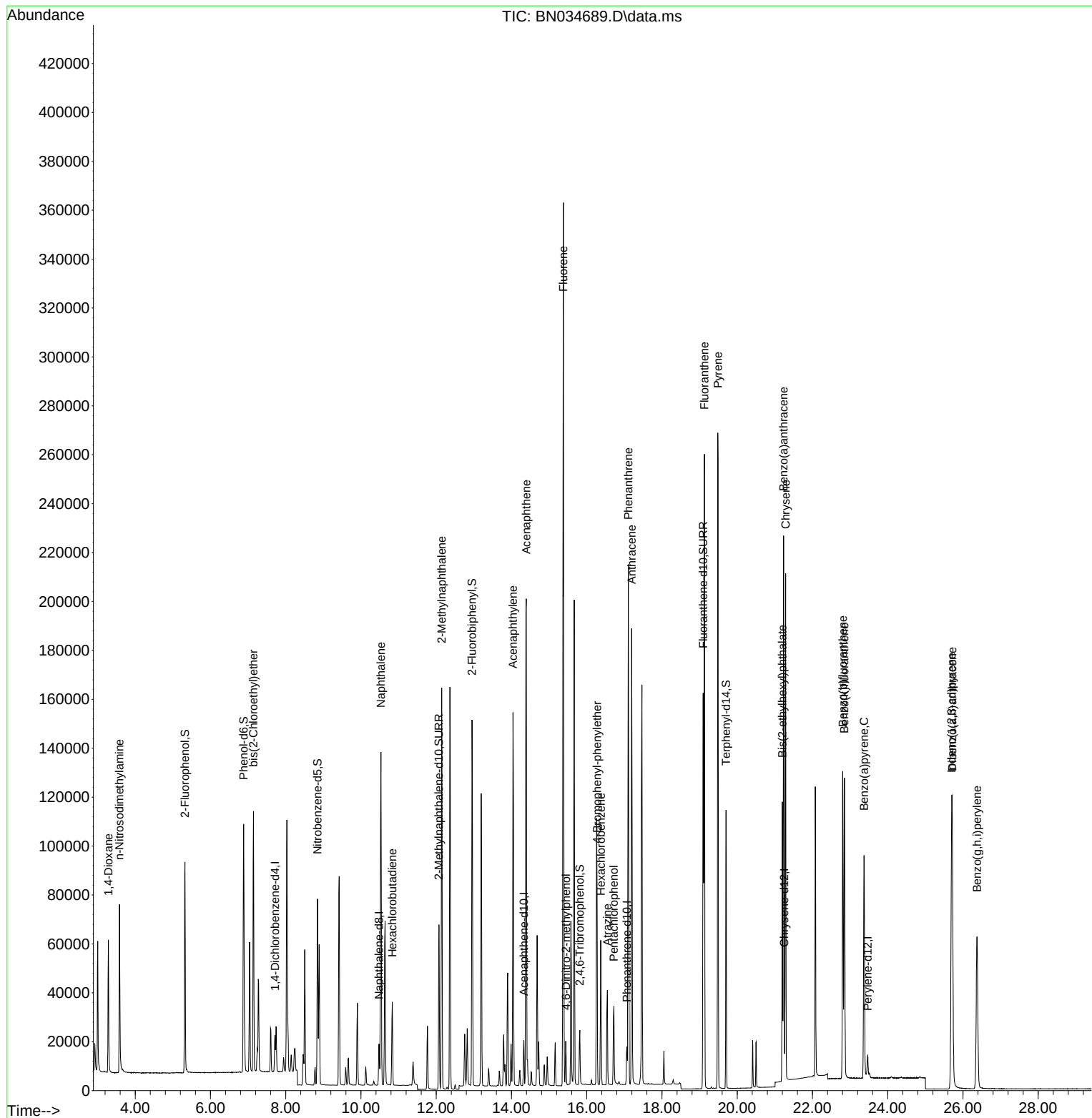
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6787	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19859	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	10274	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	21008	0.400	ng	0.00
29) Chrysene-d12	21.250	240	13427	0.400	ng	0.00
35) Perylene-d12	23.467	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						Qvalue
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

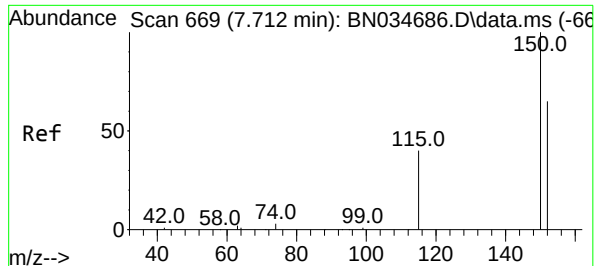
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

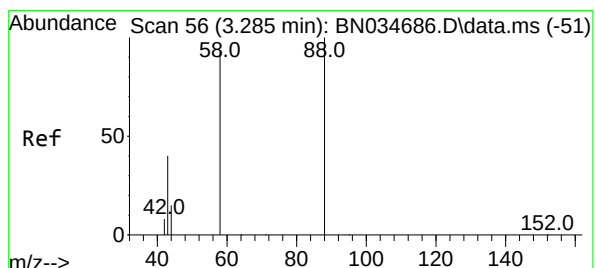
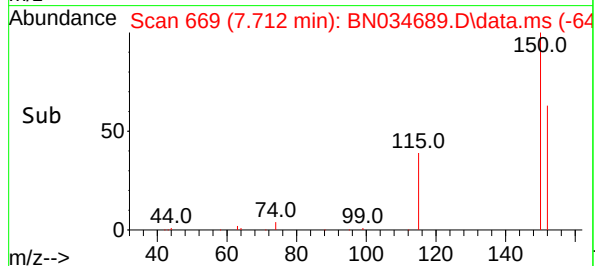
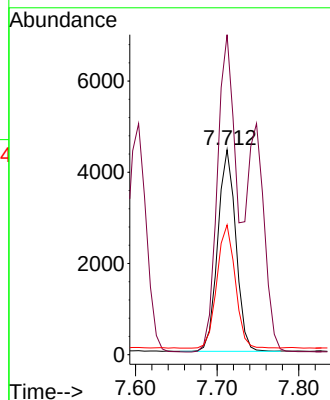
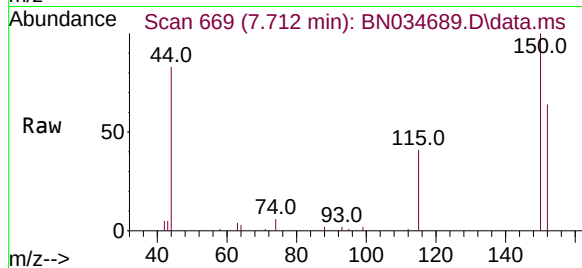




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

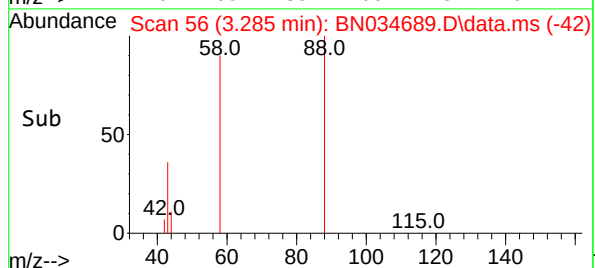
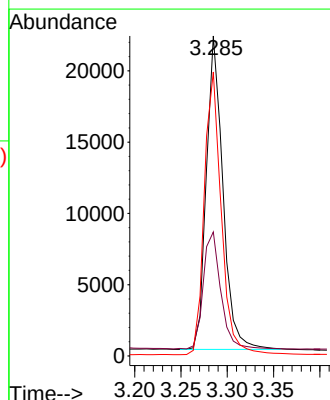
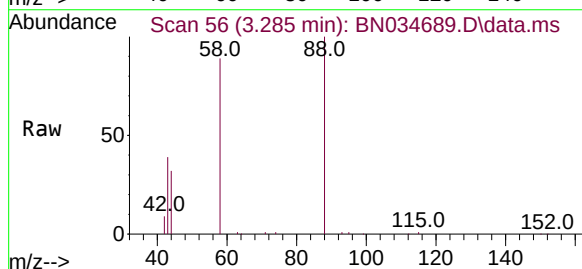
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

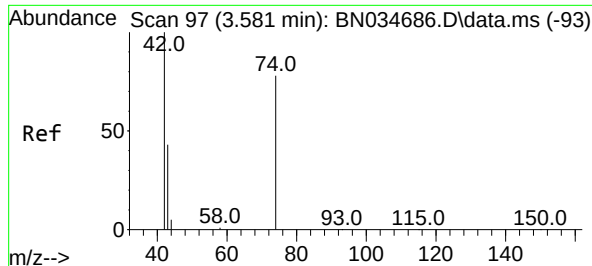
Tgt Ion:152 Resp: 6787
Ion Ratio Lower Upper
152 100
150 156.1 122.7 184.1
115 63.3 51.0 76.6



#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

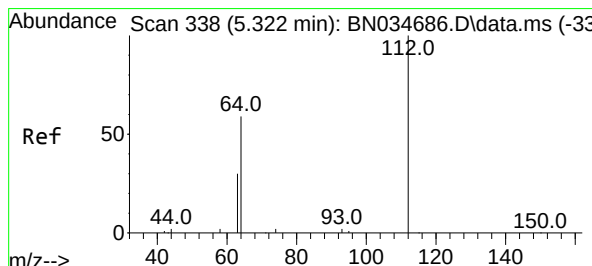
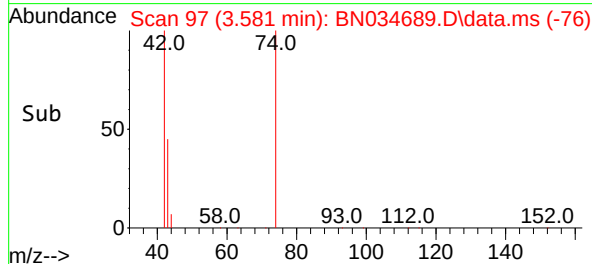
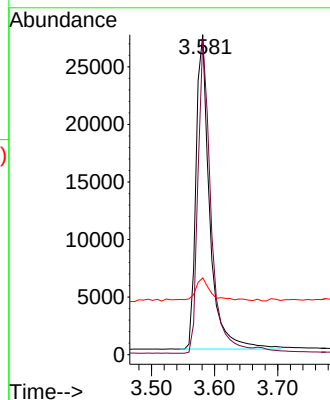
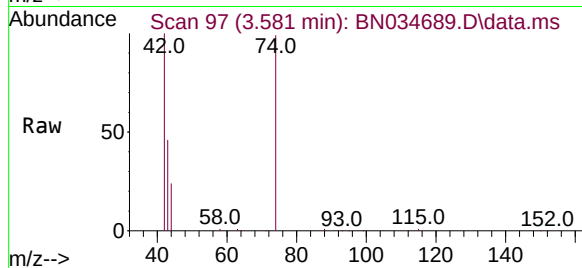




#3
n-Nitrosodimethylamine
Concen: 4.134 ng
RT: 3.581 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

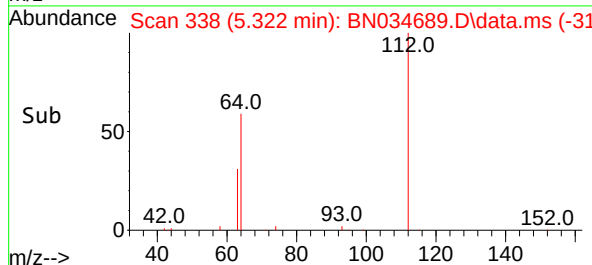
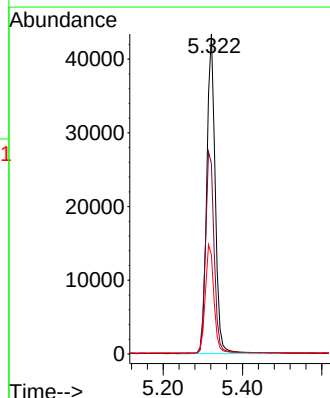
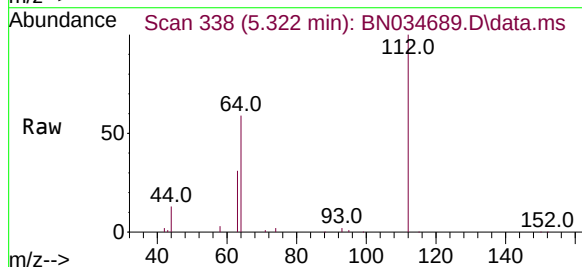
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

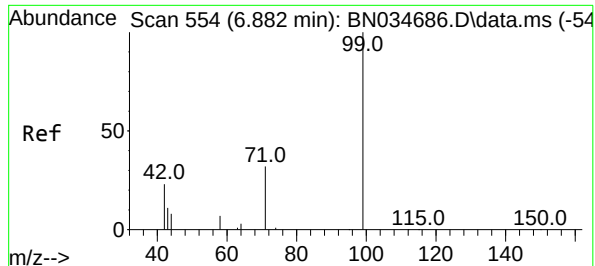
Tgt Ion: 42 Resp: 41310
Ion Ratio Lower Upper
42 100
74 94.5 77.2 115.8
44 8.2 13.4 20.2#



#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

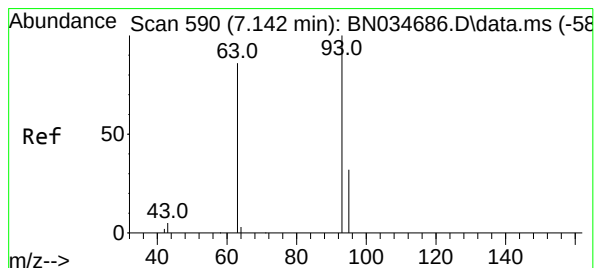
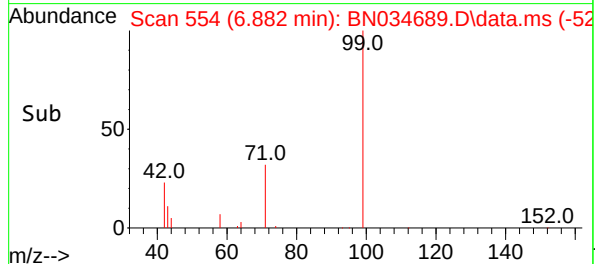
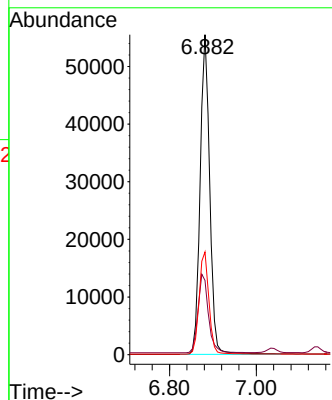
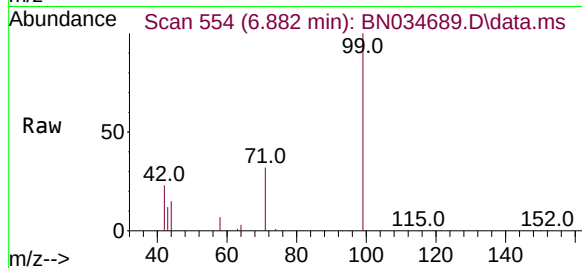




#5
Phenol-d6
Concen: 3.208 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

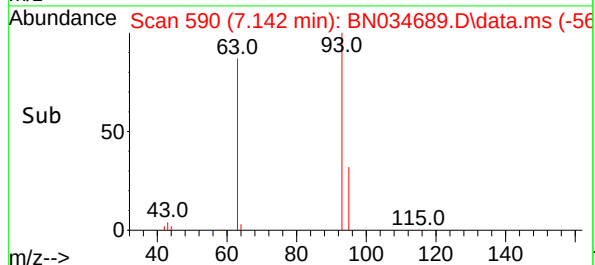
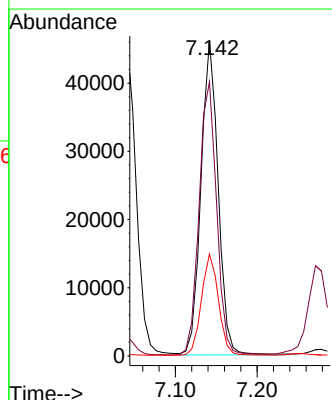
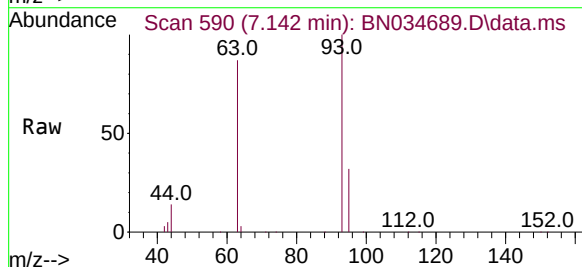
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

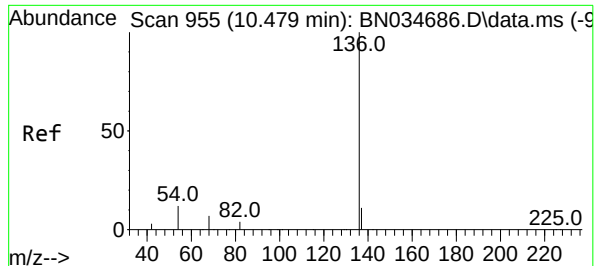
Tgt Ion: 99 Resp: 85211
Ion Ratio Lower Upper
99 100
42 26.8 21.8 32.8
71 32.9 26.6 40.0



#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

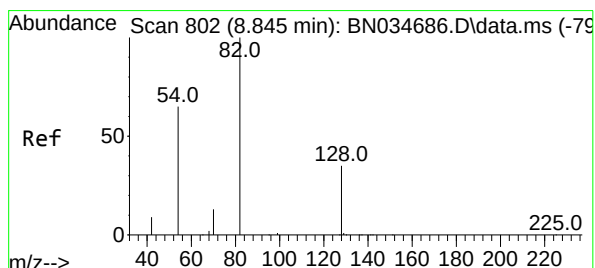
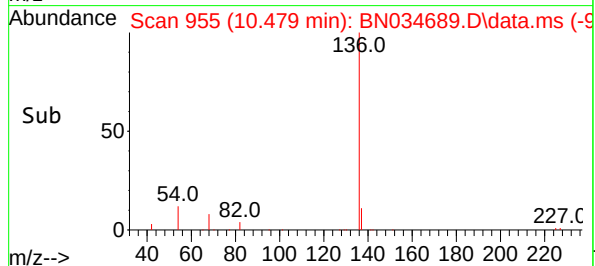
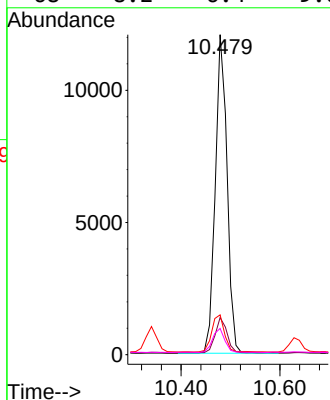
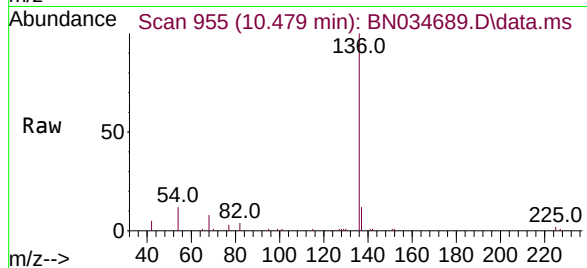




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

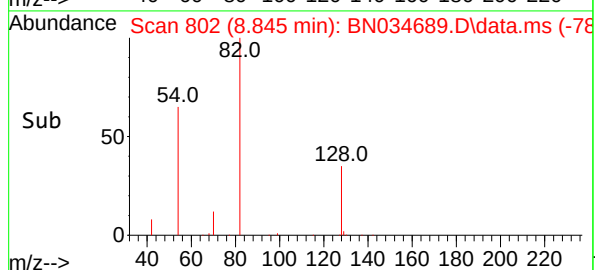
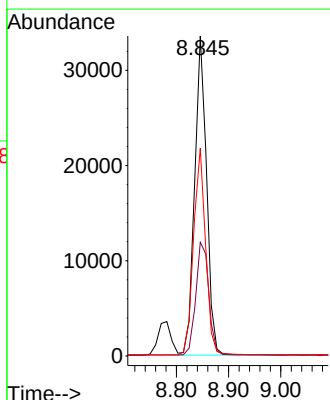
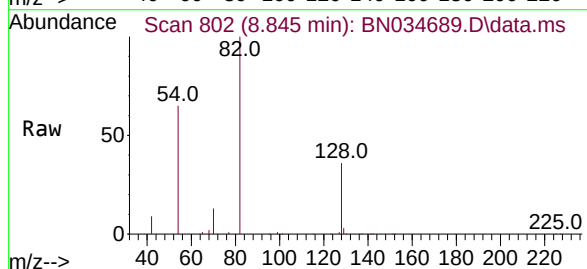
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

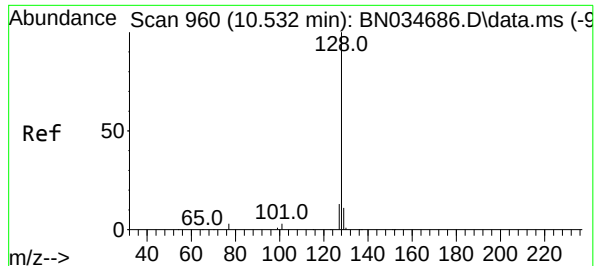
Tgt Ion:	136	Resp:	19859
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	12.4	9.8	14.8
68	8.2	6.4	9.6



#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

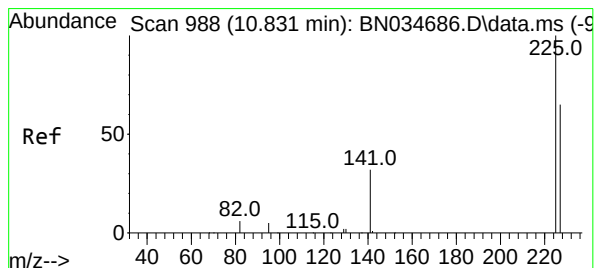
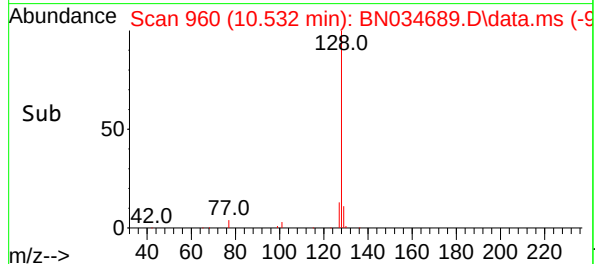
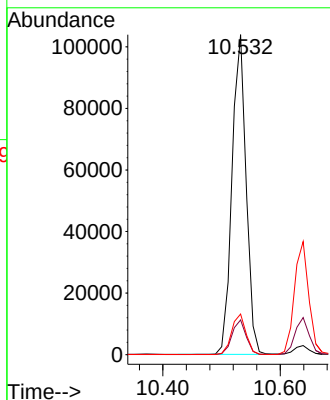
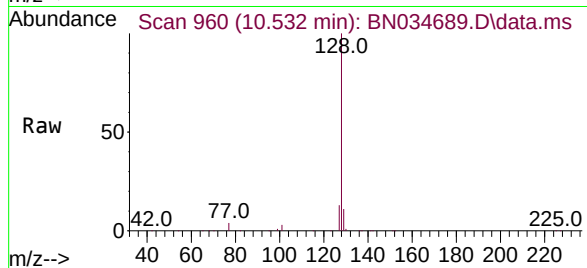




#9
Naphthalene
Concen: 3.175 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

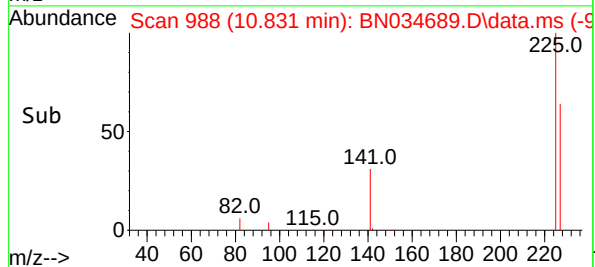
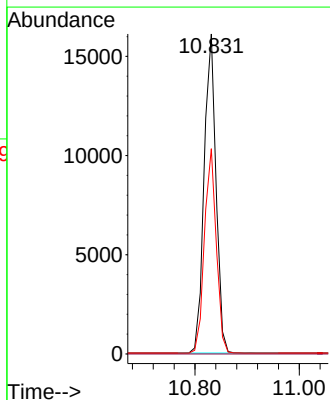
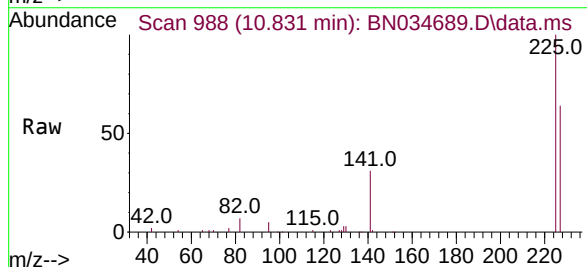
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

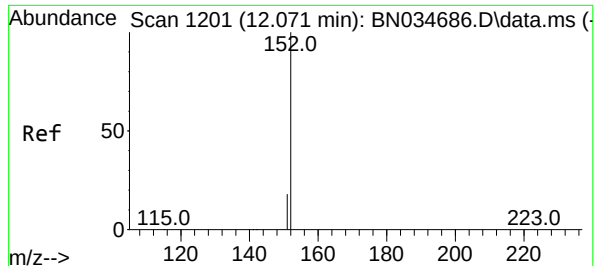
Tgt Ion:128 Resp: 173884
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.7 10.5 15.7



#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

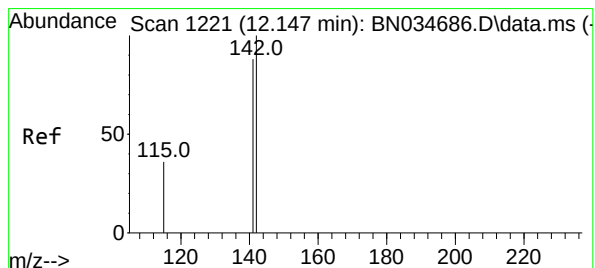
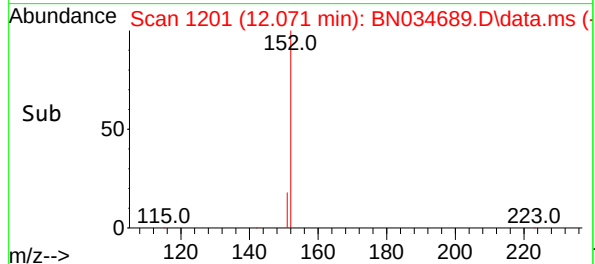
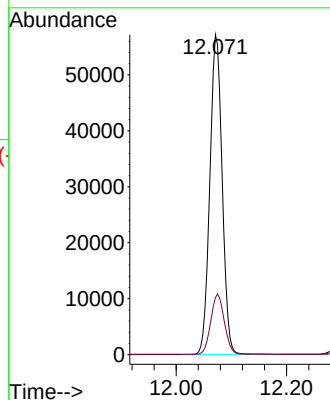
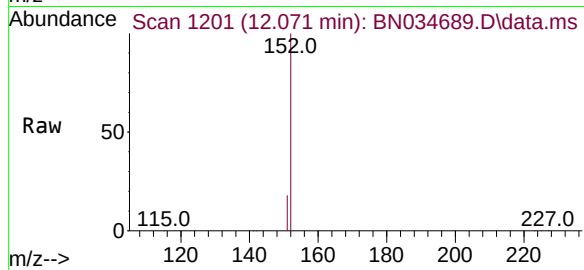




#11
2-Methylnaphthalene-d10
Concen: 3.167 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

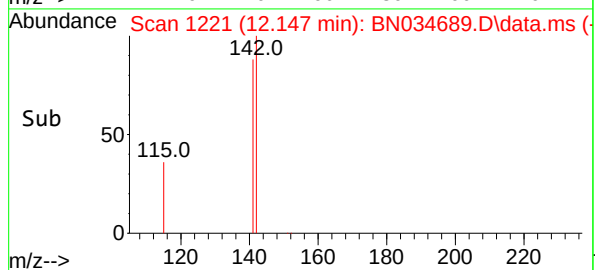
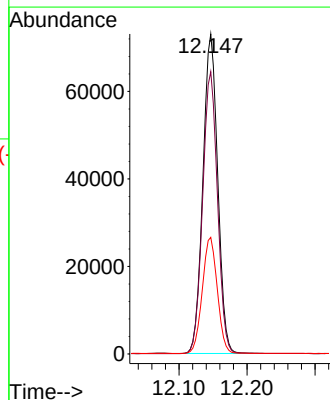
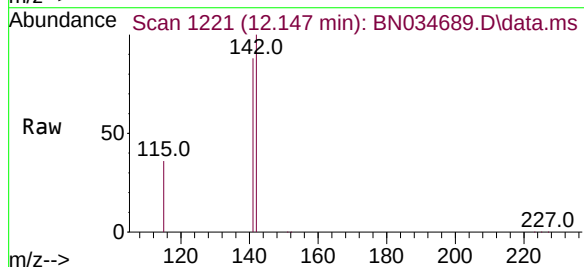
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

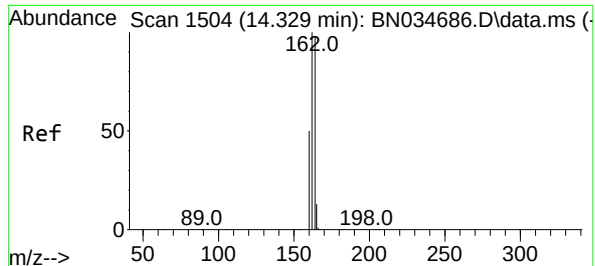
Tgt Ion:152 Resp: 88547
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#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

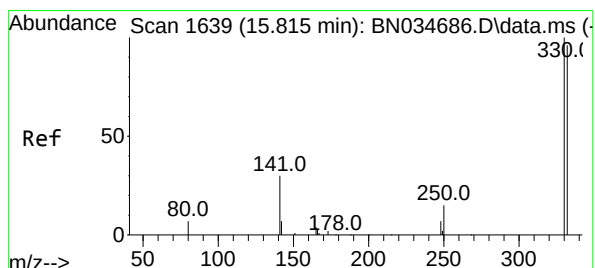
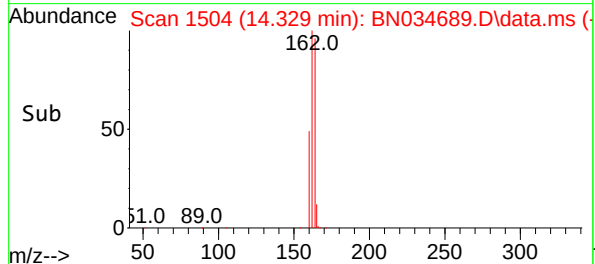
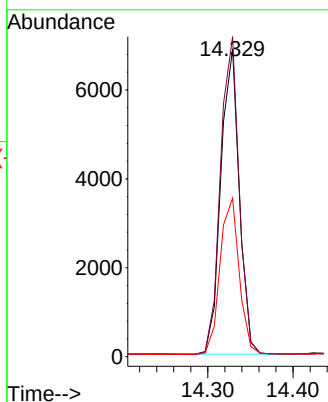
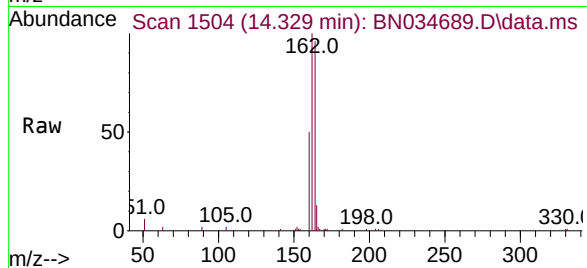




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

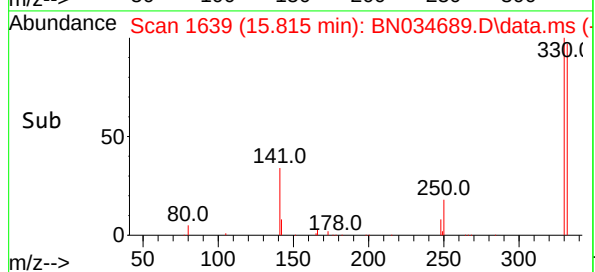
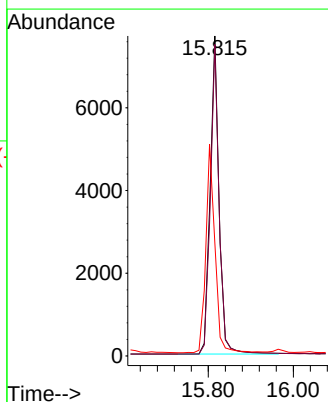
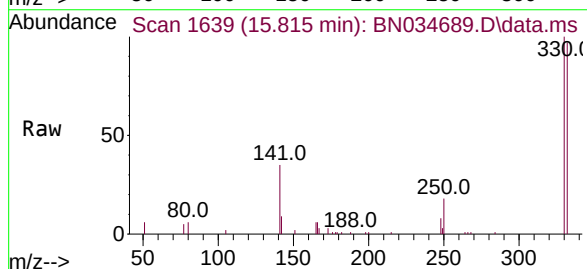
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

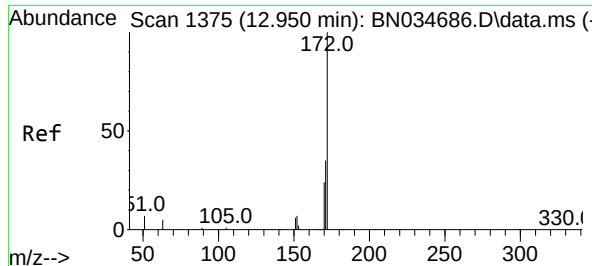
Tgt Ion:164 Resp: 10274
Ion Ratio Lower Upper
164 100
162 104.0 81.4 122.0
160 51.5 40.6 61.0



#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

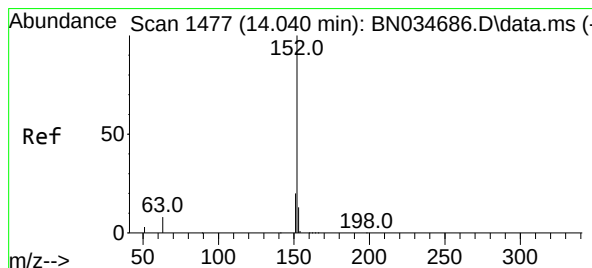
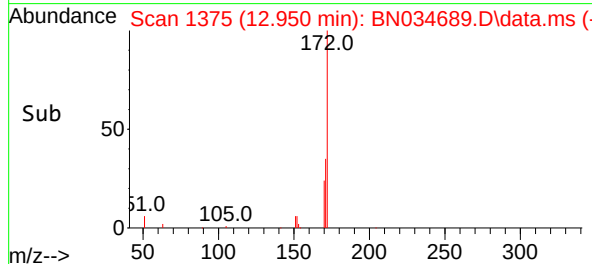
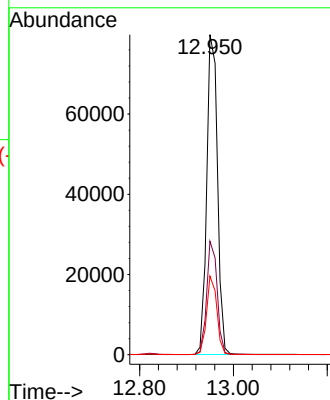
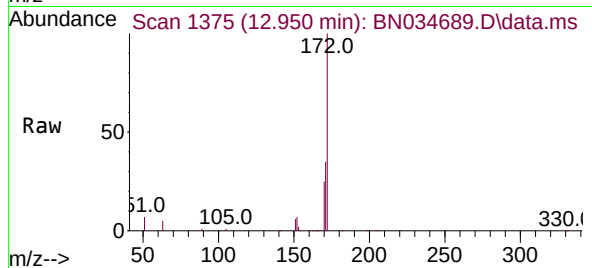




#15
2-Fluorobiphenyl
Concen: 3.125 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

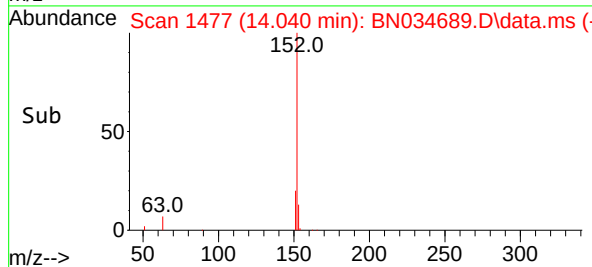
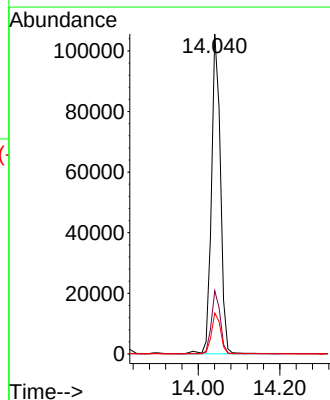
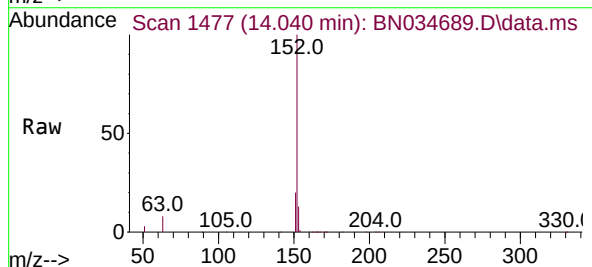
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

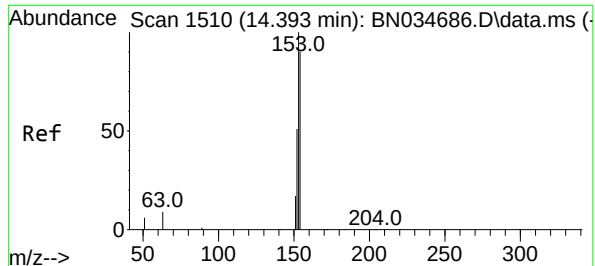
Tgt Ion:172 Resp: 126562
Ion Ratio Lower Upper
172 100
171 35.4 28.3 42.5
170 24.5 19.8 29.6



#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

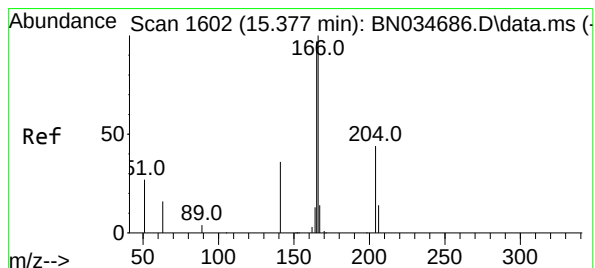
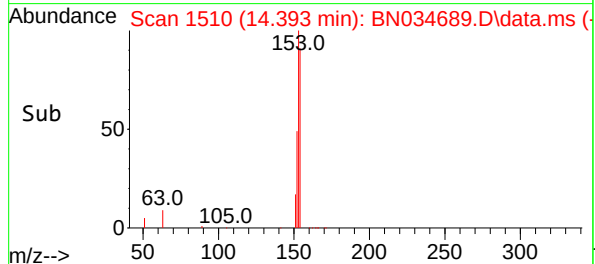
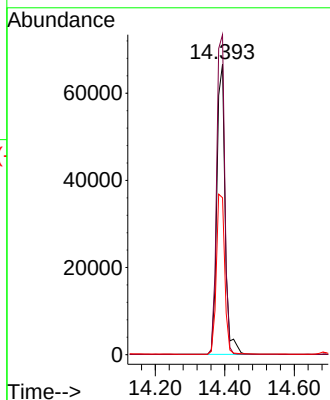
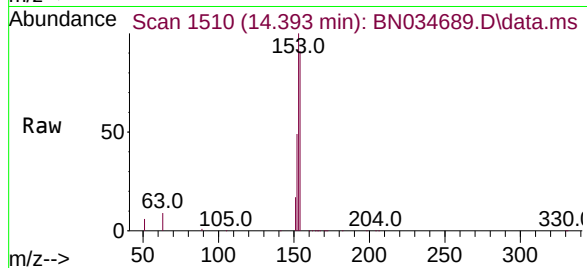




#17
Acenaphthene
Concen: 3.243 ng
RT: 14.393 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

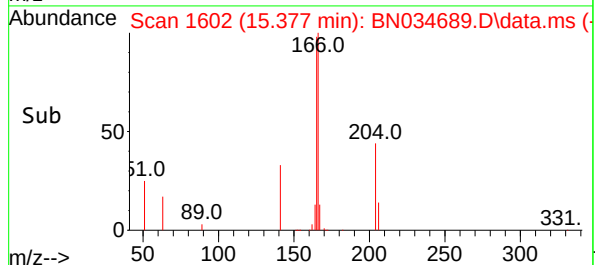
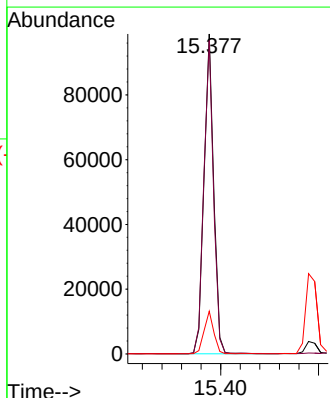
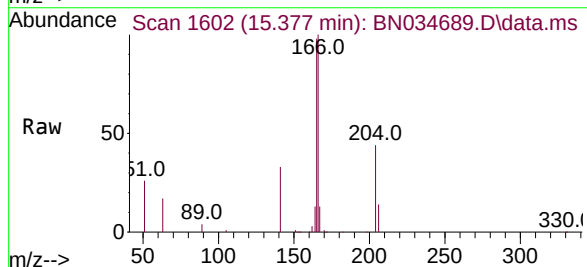
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

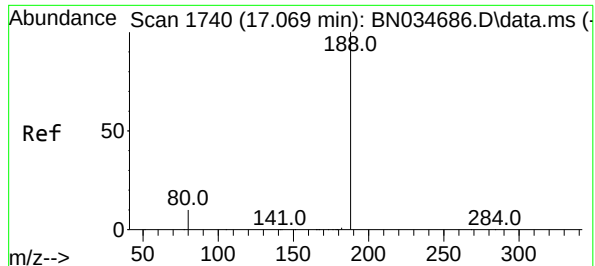
Tgt Ion:154 Resp: 109212
Ion Ratio Lower Upper
154 100
153 108.5 88.2 132.2
152 55.7 46.9 70.3



#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# 1

Delta R.T. 0.000 min

Lab File: BN034689.D

Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

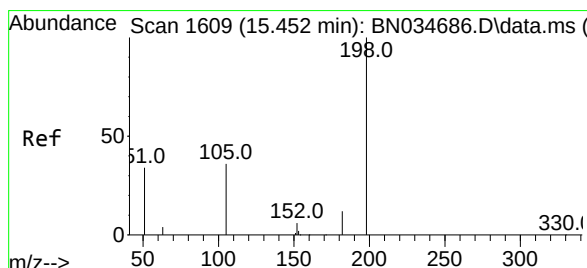
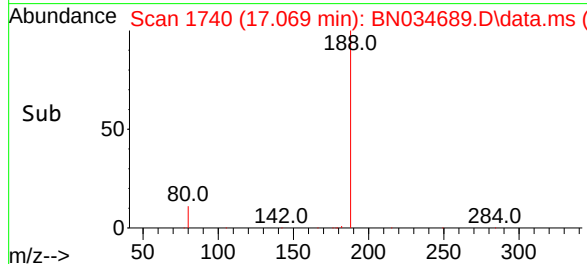
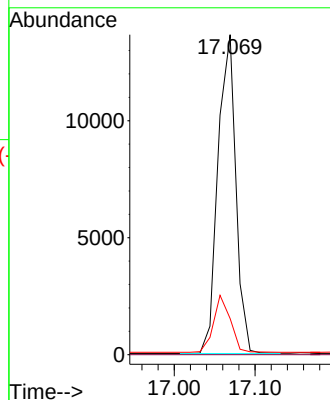
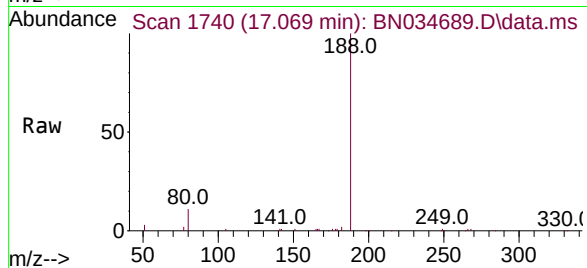
Tgt Ion:188 Resp: 21008

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

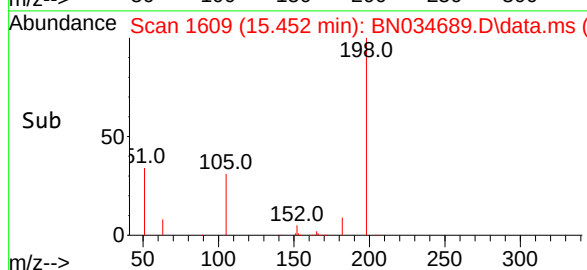
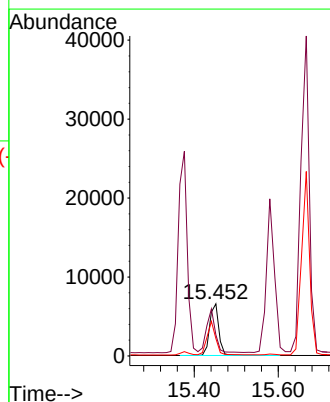
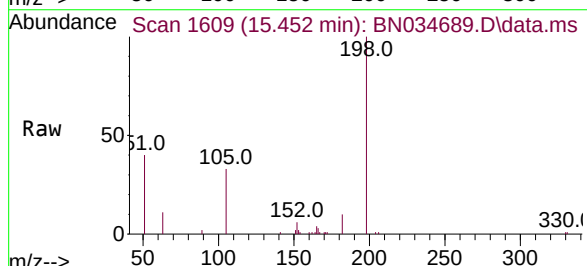
Tgt Ion:198 Resp: 10505

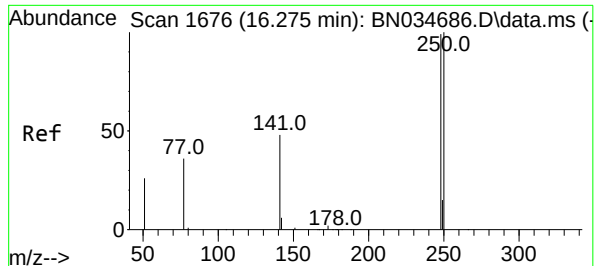
Ion Ratio Lower Upper

198 100

51 40.4 91.8 137.8#

105 33.3 44.3 66.5#

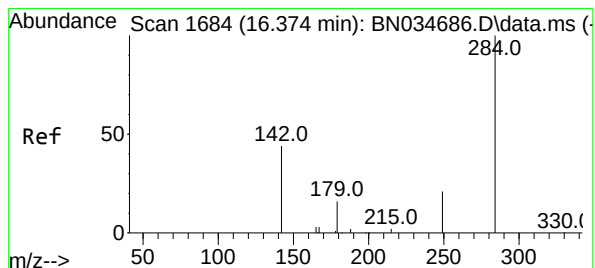
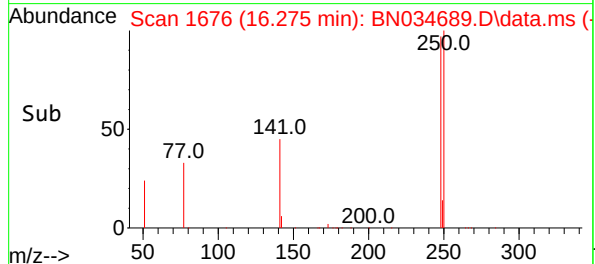
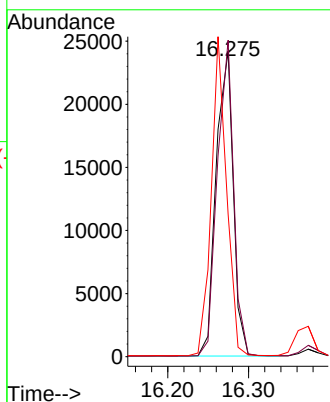
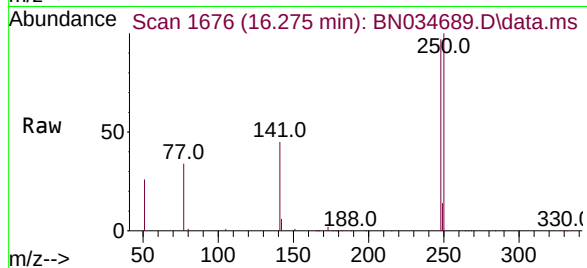




#21
4-Bromophenyl-phenylether
Concen: 3.098 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

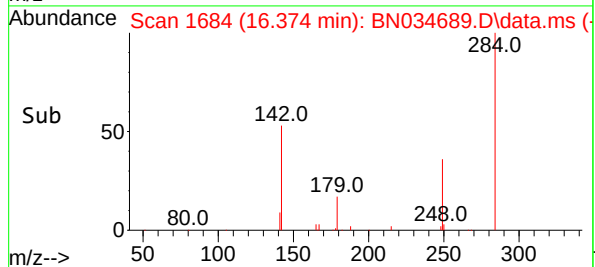
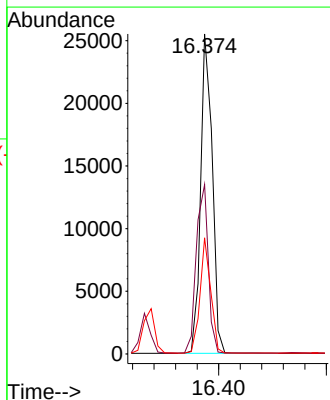
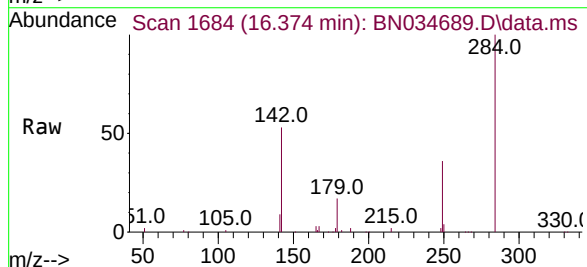
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

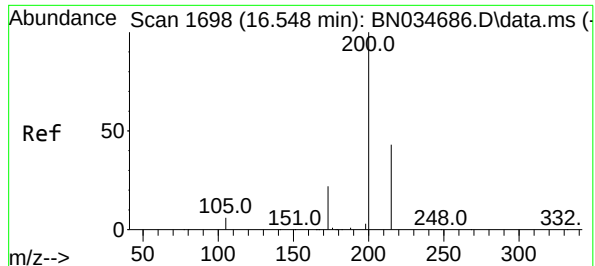
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.9	121.3
141	46.6	40.5	60.7



#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

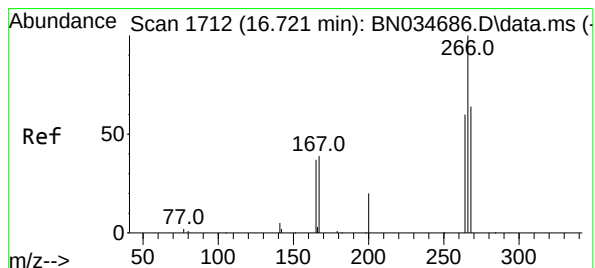
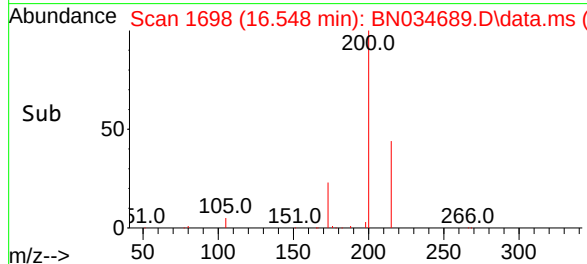
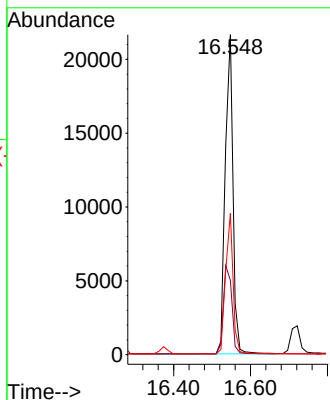
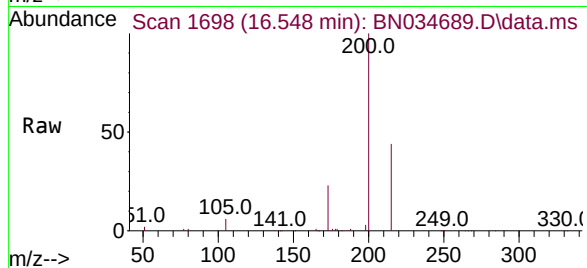




#23
Atrazine
Concen: 3.032 ng
RT: 16.548 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

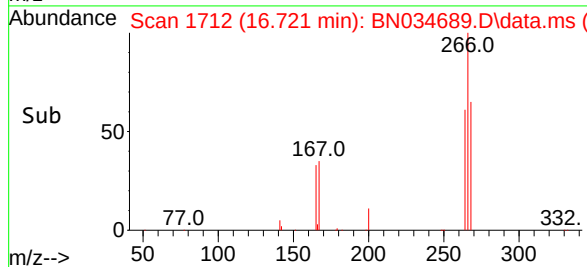
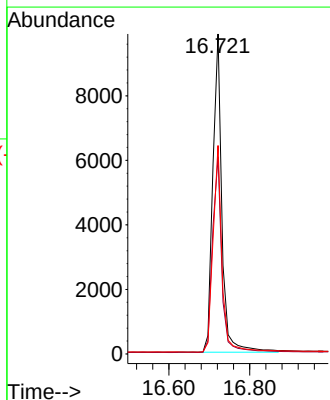
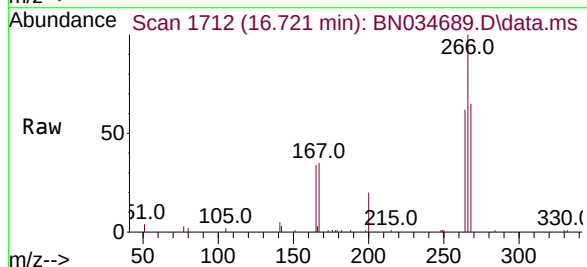
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

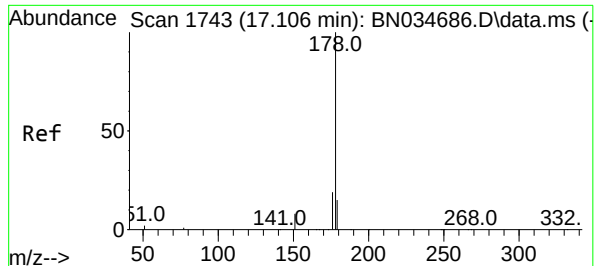
Tgt Ion:200 Resp: 30485
Ion Ratio Lower Upper
200 100
173 23.2 19.7 29.5
215 44.2 35.7 53.5



#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

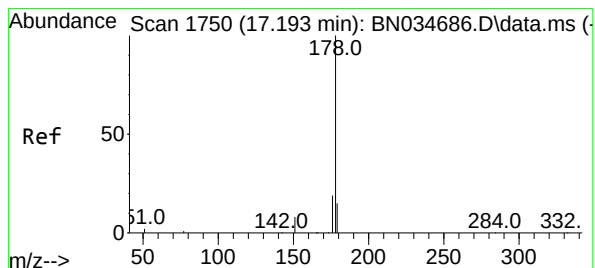
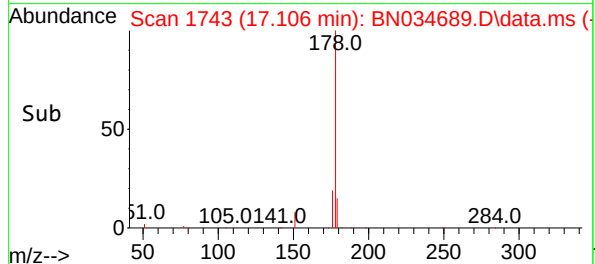
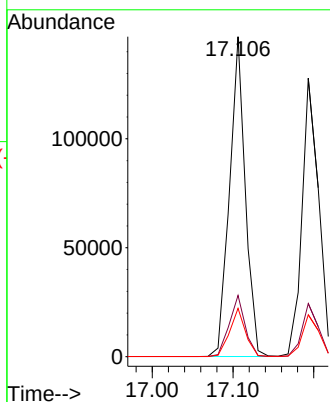
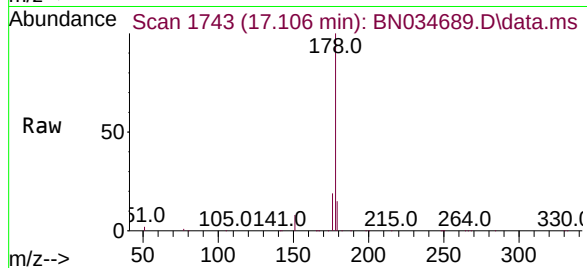




#25
Phenanthrene
Concen: 3.203 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

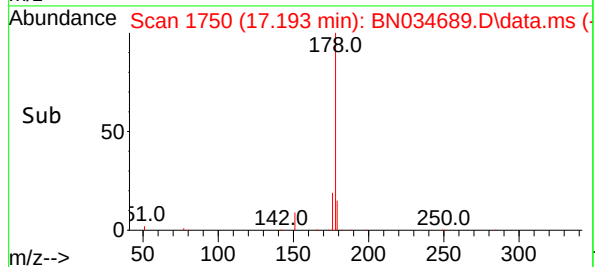
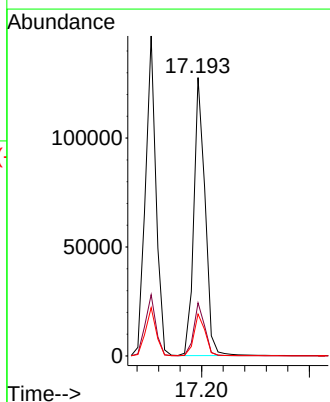
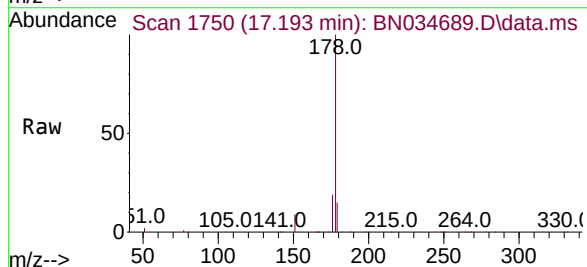
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

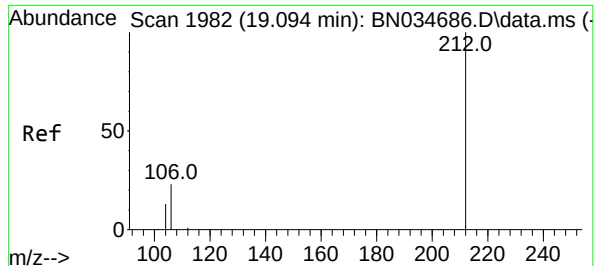
Tgt Ion:178 Resp: 200178
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.0 12.2 18.4



#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

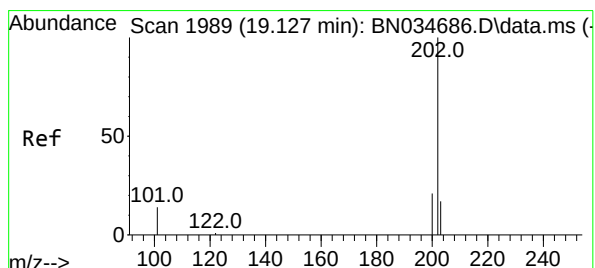
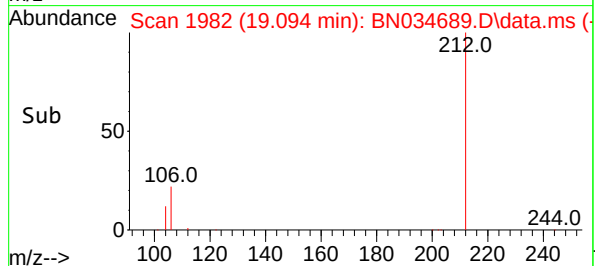
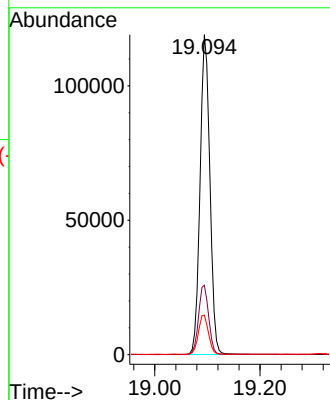
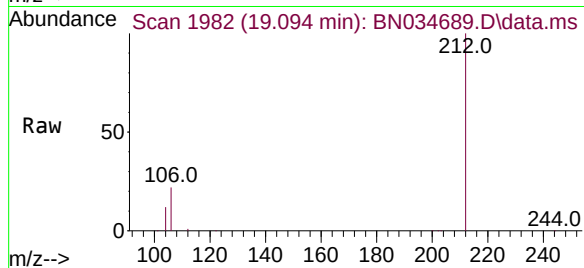
Tgt Ion:212 Resp: 153423

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

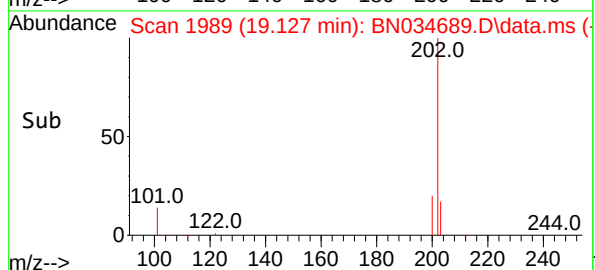
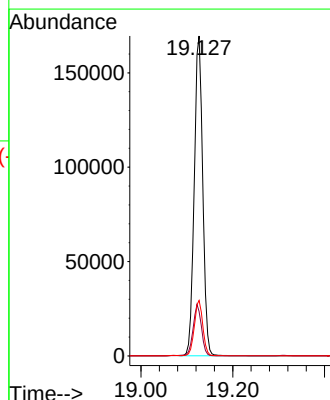
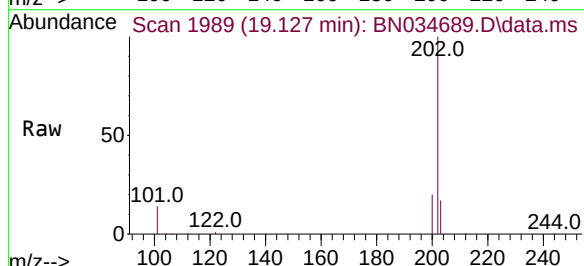
Tgt Ion:202 Resp: 216788

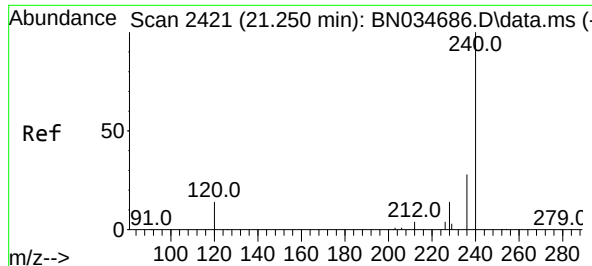
Ion Ratio Lower Upper

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

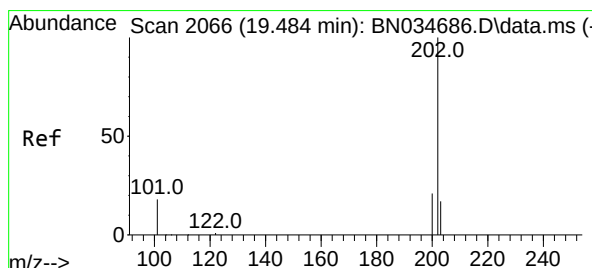
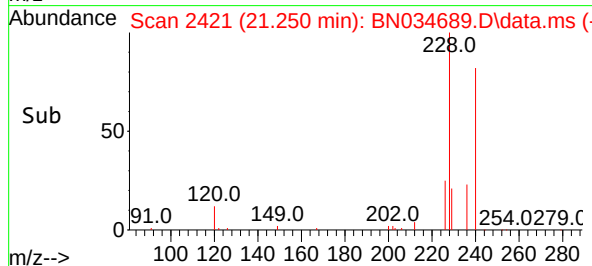
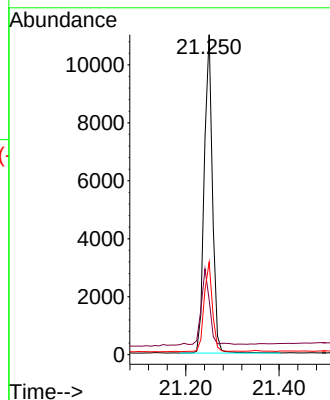
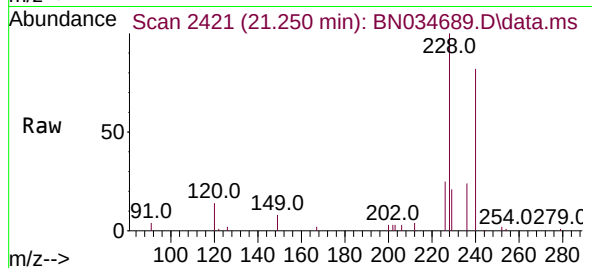
Tgt Ion:240 Resp: 13427

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

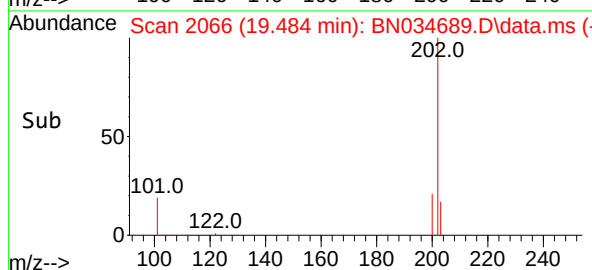
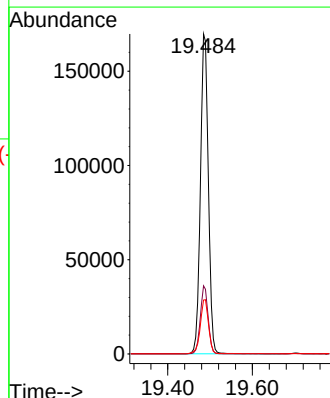
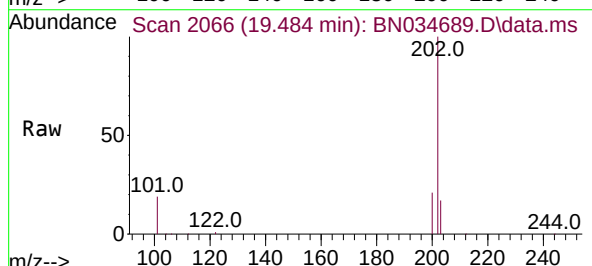
Tgt Ion:202 Resp: 219062

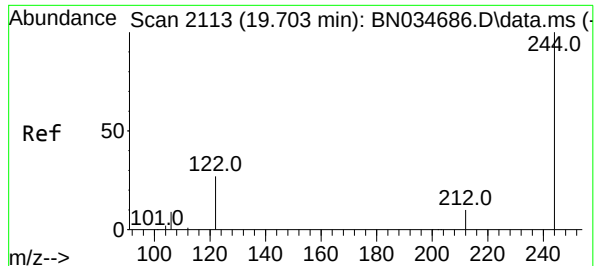
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.6 14.2 21.4

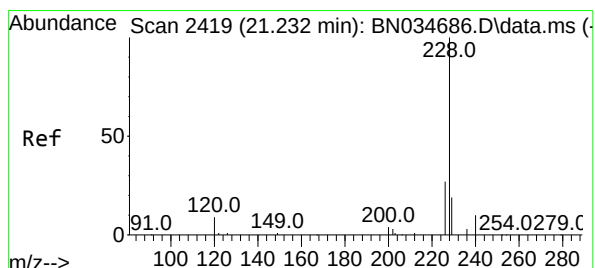
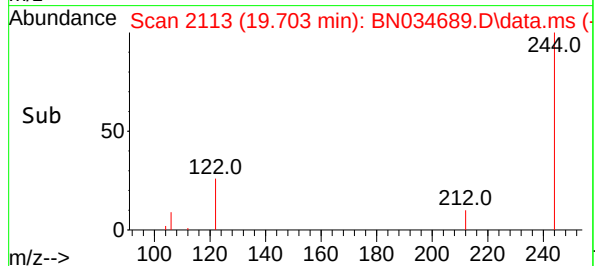
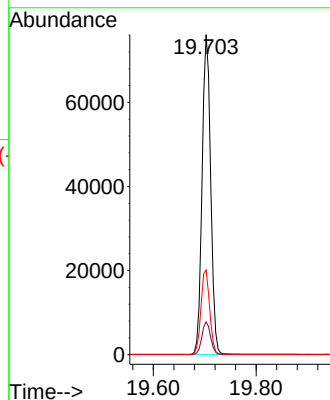
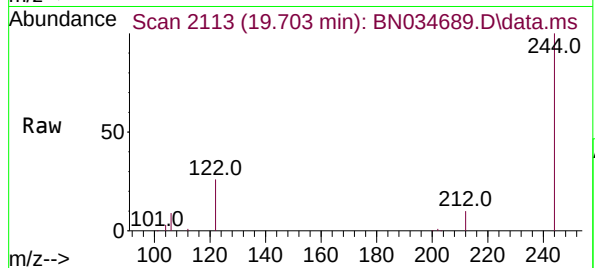




#31
Terphenyl-d14
Concen: 3.389 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034689.D
Acq: 24 Oct 2024 12:11

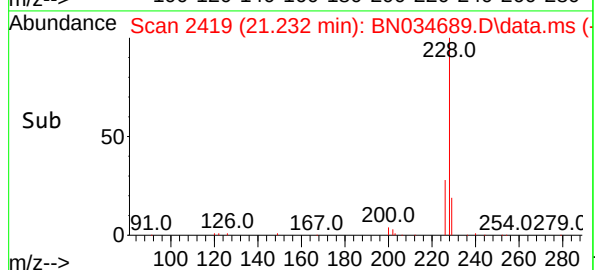
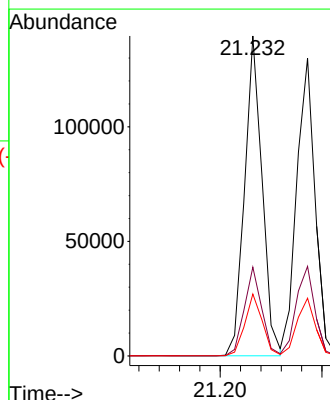
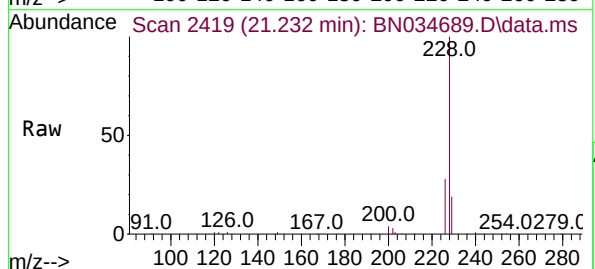
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

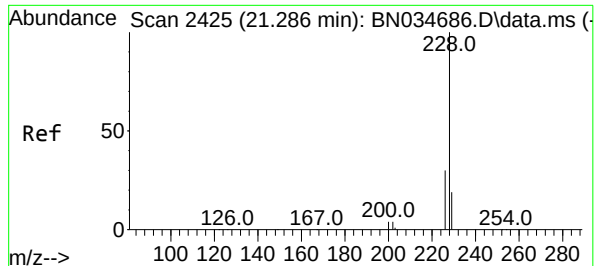
Tgt Ion:244 Resp: 88081
Ion Ratio Lower Upper
244 100
212 10.2 8.6 13.0
122 26.4 22.3 33.5



#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

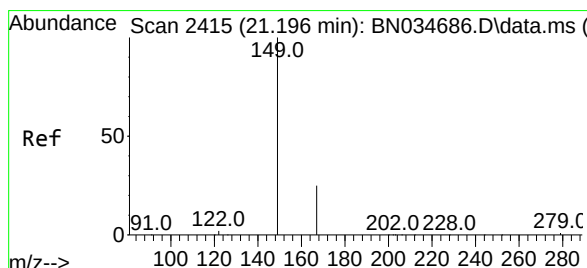
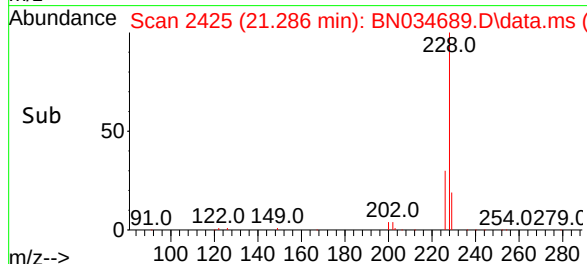
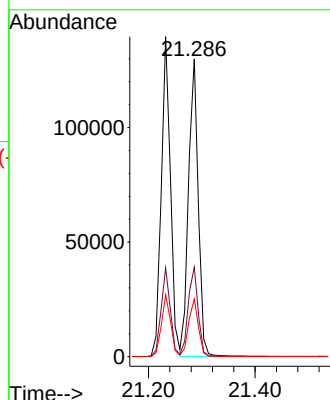
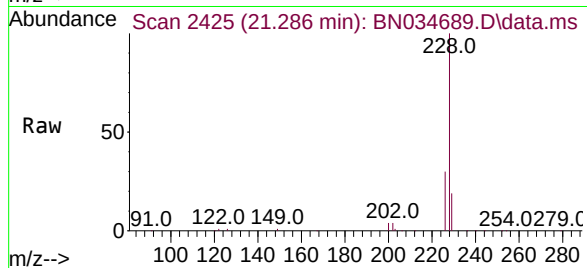
Tgt Ion:228 Resp: 164703

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

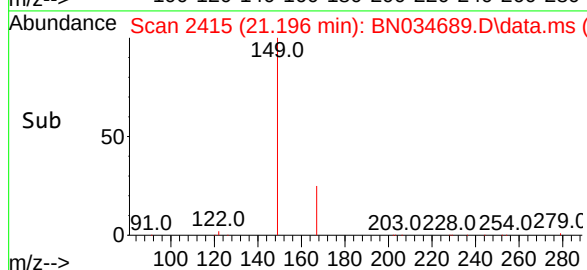
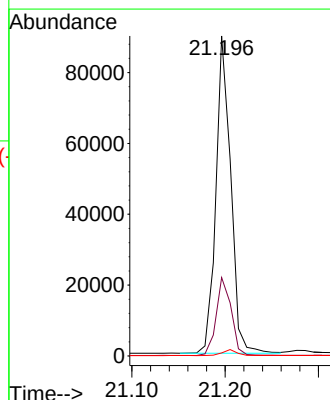
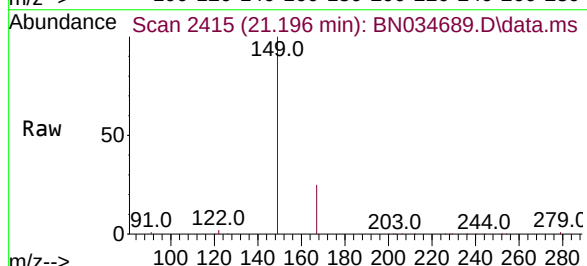
Tgt Ion:149 Resp: 98247

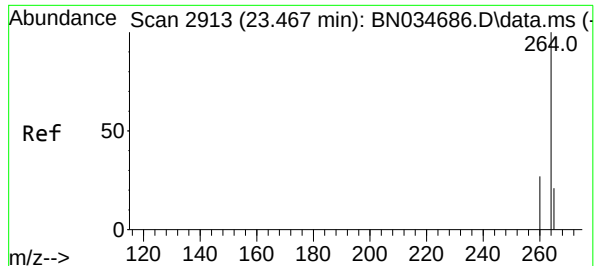
Ion Ratio Lower Upper

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

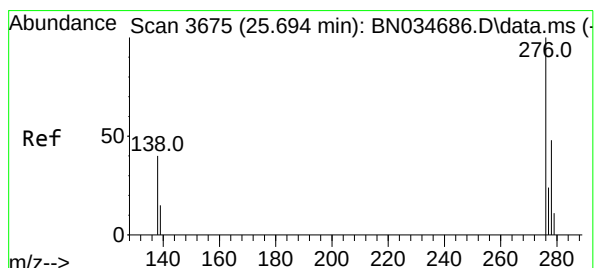
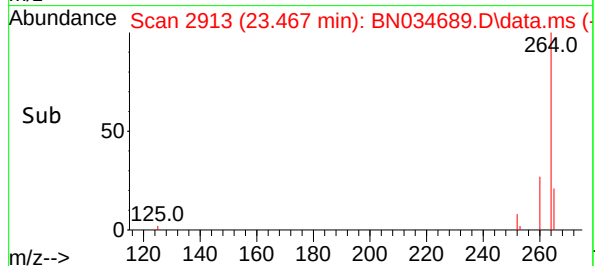
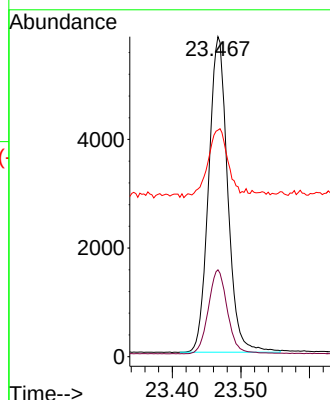
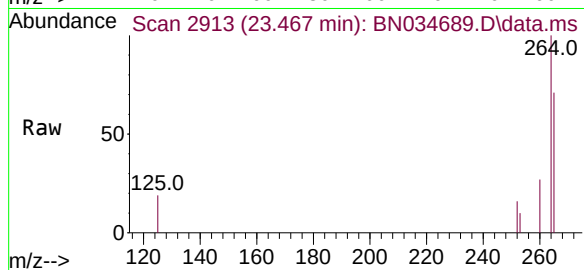
Tgt Ion:264 Resp: 11211

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

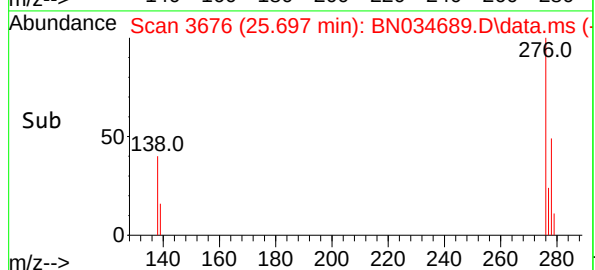
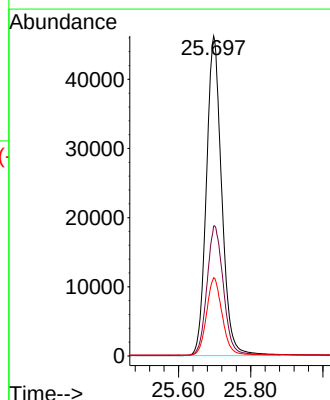
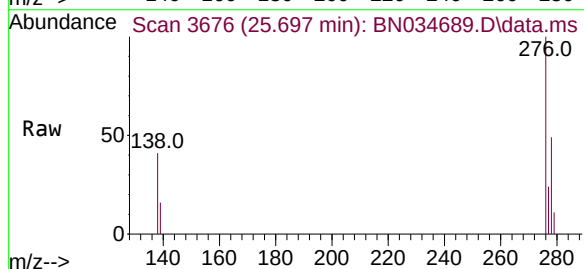
Tgt Ion:276 Resp: 136074

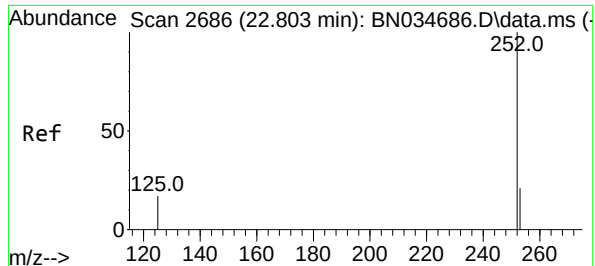
Ion Ratio Lower Upper

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

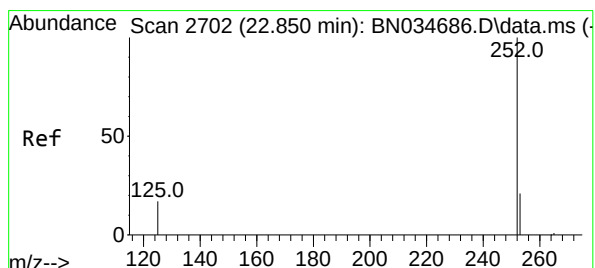
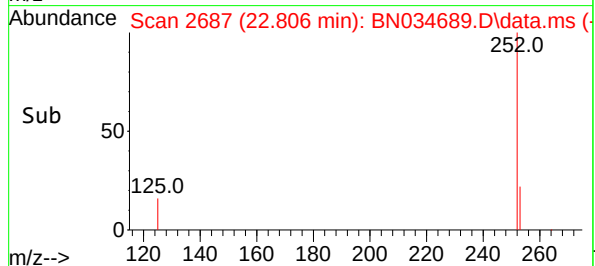
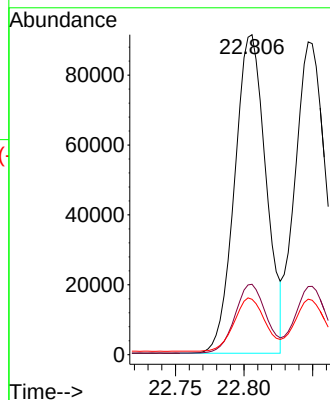
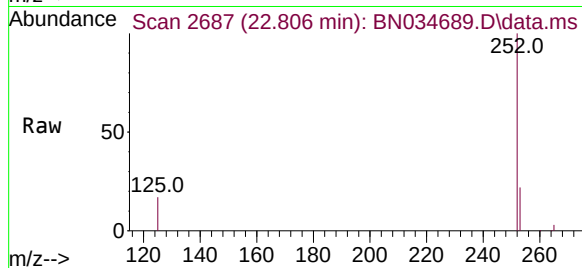
Tgt Ion:252 Resp: 144801

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

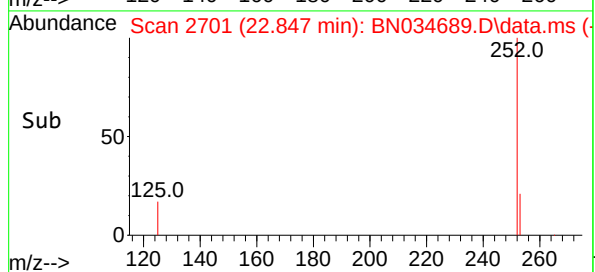
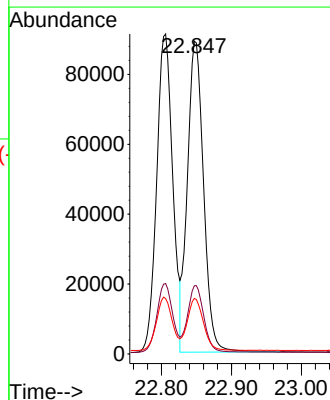
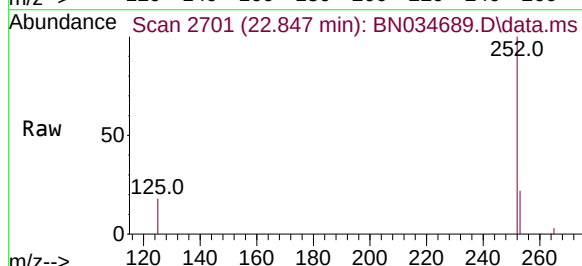
Tgt Ion:252 Resp: 143101

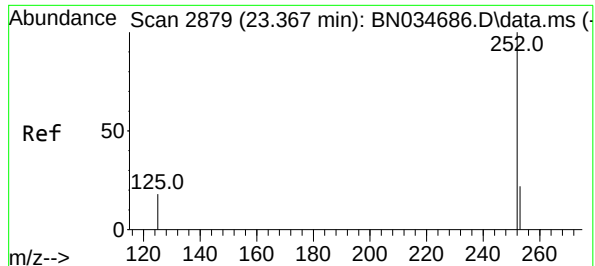
Ion Ratio Lower Upper

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

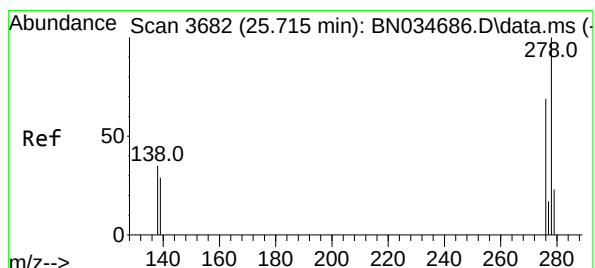
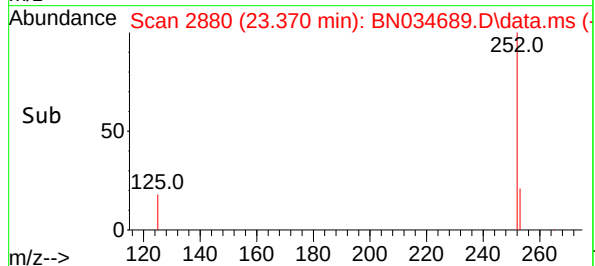
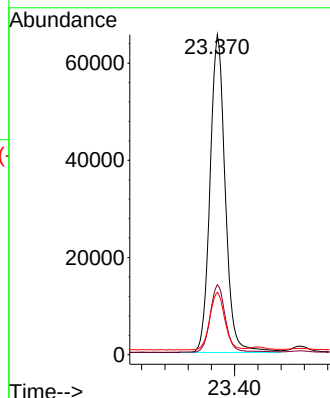
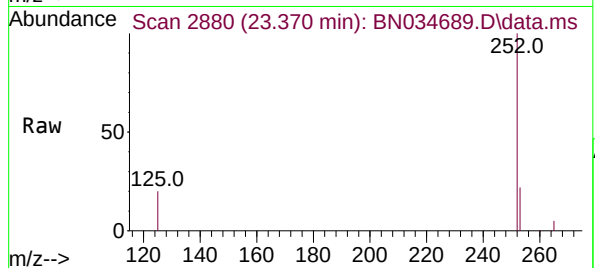
Tgt Ion:252 Resp: 118654

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

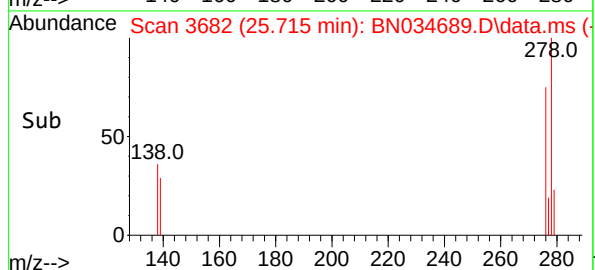
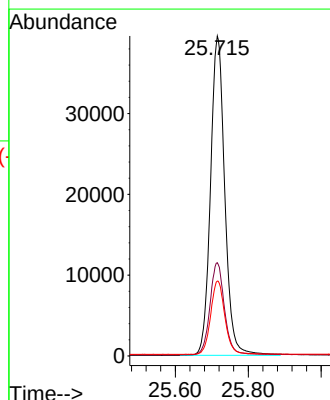
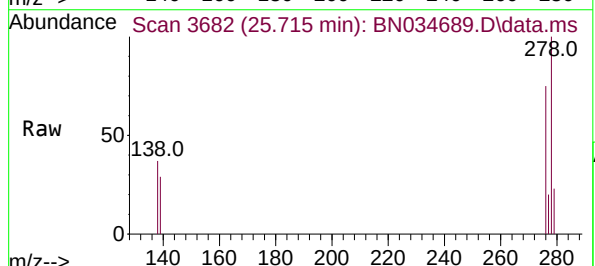
Tgt Ion:278 Resp: 107743

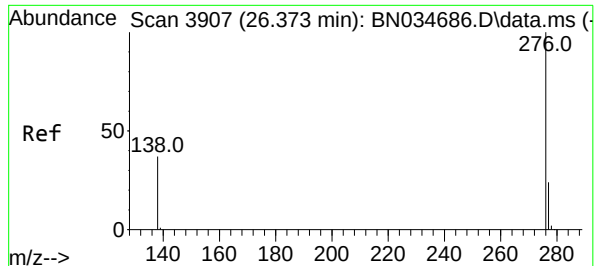
Ion Ratio Lower Upper

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

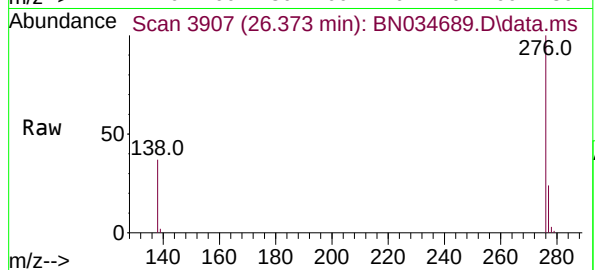
Acq: 24 Oct 2024 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



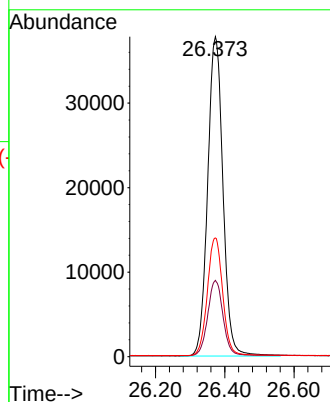
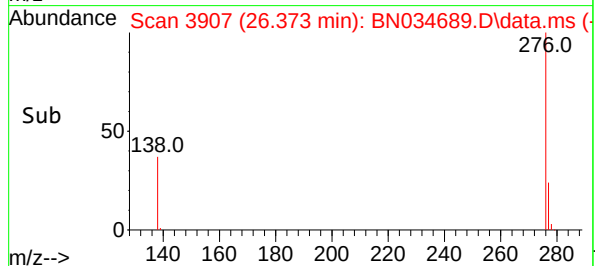
Tgt Ion:276 Resp: 115668

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)

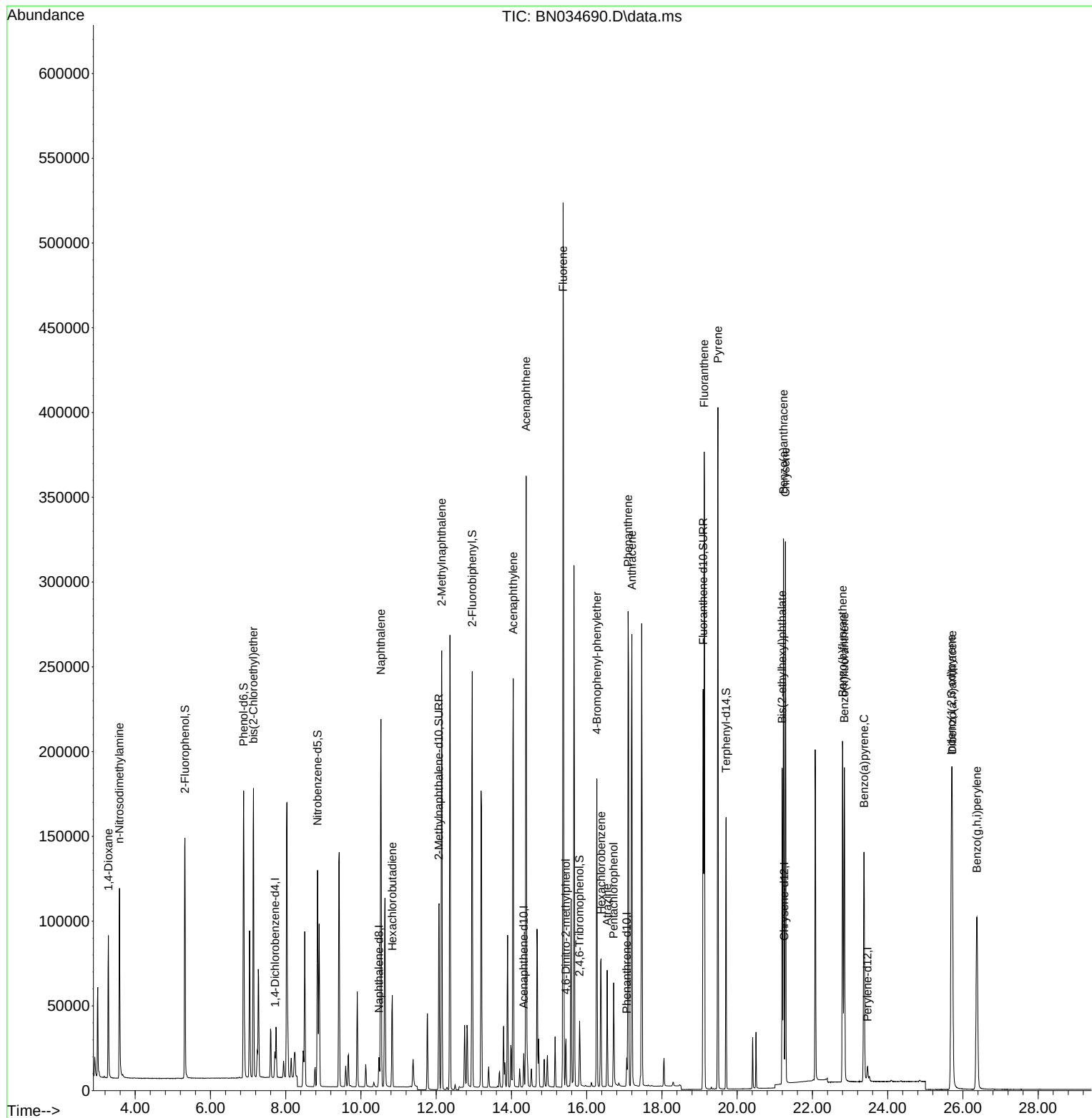
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	7073	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	20368	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	10267	0.400	ng	0.00
19) Phenanthrene-d10	17.064	188	20306	0.400	ng	# 0.00
29) Chrysene-d12	21.248	240	12752	0.400	ng	0.00
35) Perylene-d12	23.464	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						Qvalue
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

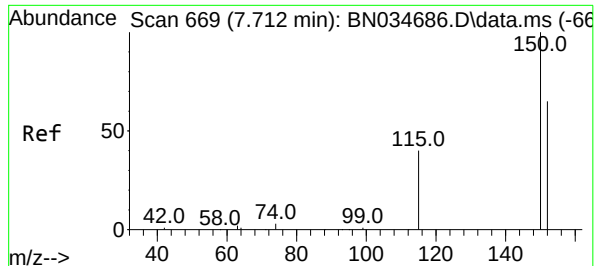
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

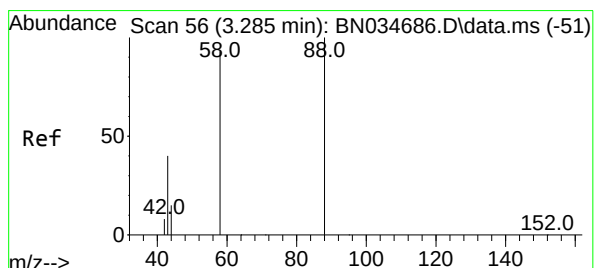
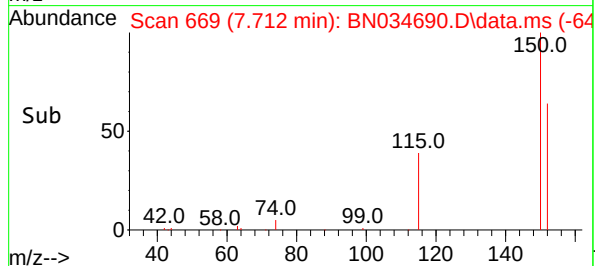
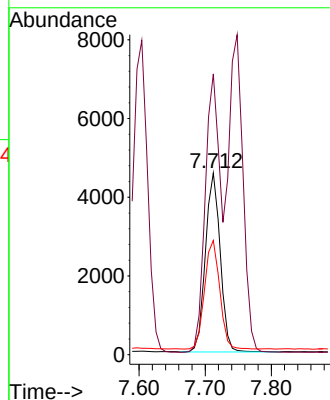
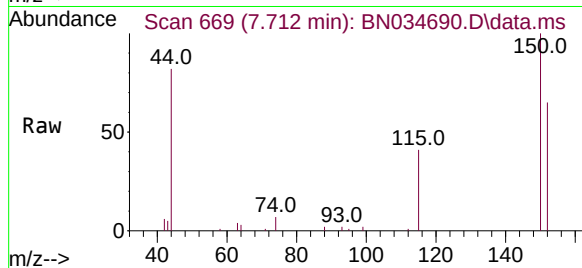




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

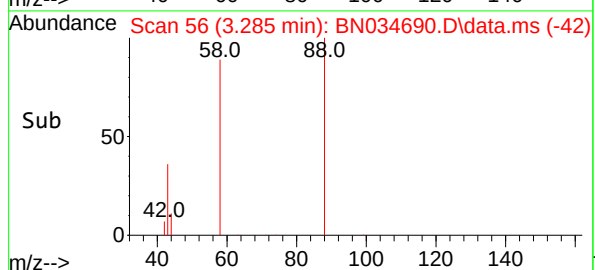
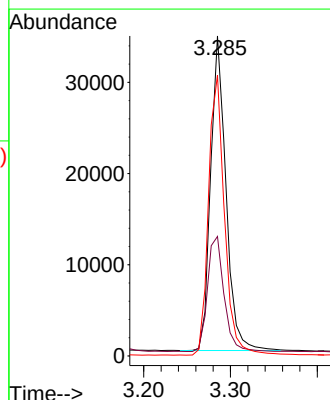
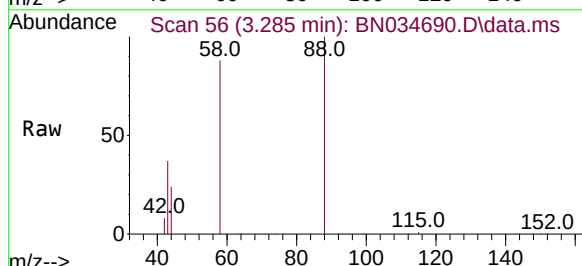
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

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

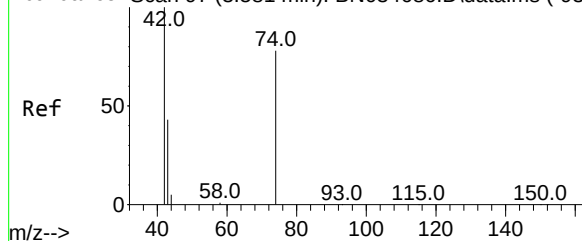


#2
1,4-Dioxane
Concen: 4.917 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

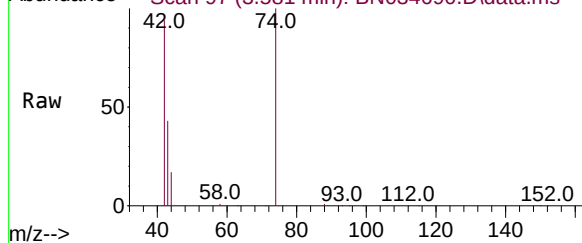
Tgt Ion: 88 Resp: 42348
Ion Ratio Lower Upper
88 100
43 39.3 32.1 48.1
58 92.9 73.7 110.5



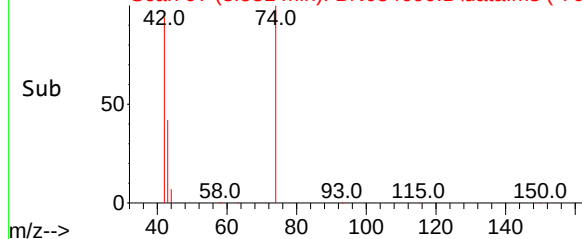
Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



Abundance Scan 97 (3.581 min): BN034690.D\data.ms



Abundance Scan 97 (3.581 min): BN034690.D\data.ms (-76)



#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

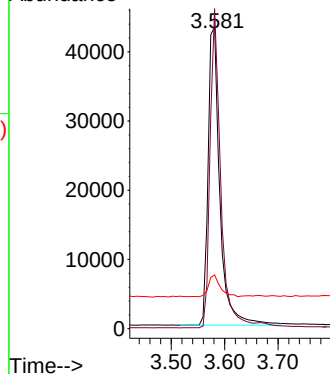
Ion Ratio Lower Upper

42 100

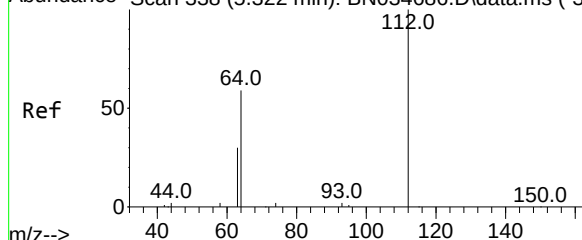
74 95.6 77.2 115.8

44 7.1 13.4 20.2#

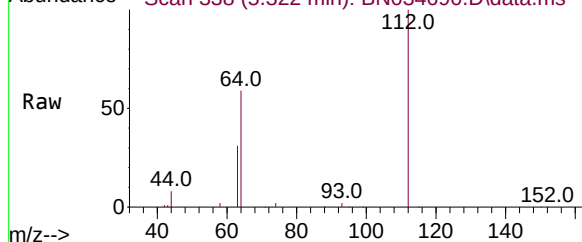
Abundance



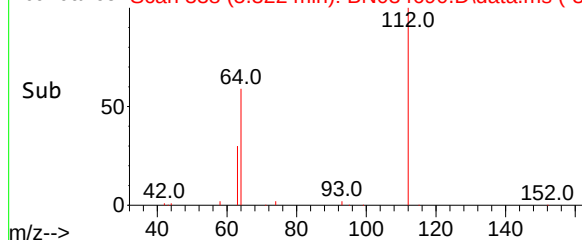
Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



Abundance Scan 338 (5.322 min): BN034690.D\data.ms



Abundance Scan 338 (5.322 min): BN034690.D\data.ms (-31)



#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

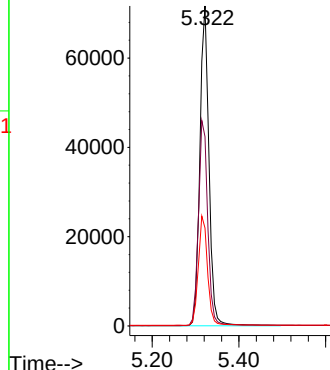
Ion Ratio Lower Upper

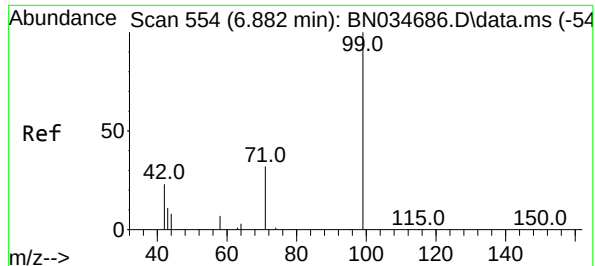
112 100

64 66.0 53.0 79.6

63 34.7 27.6 41.4

Abundance

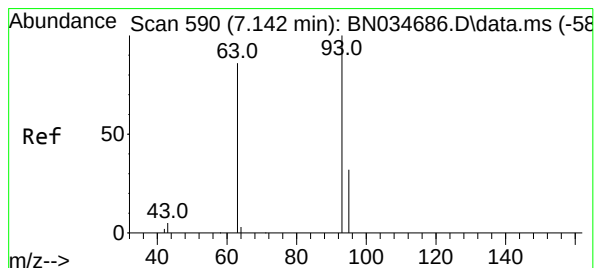
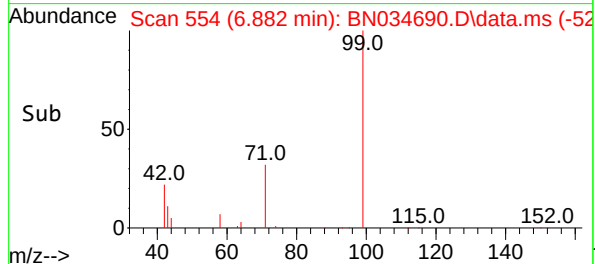
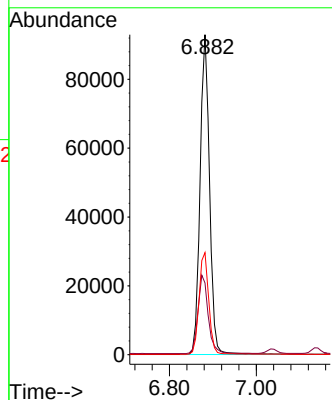
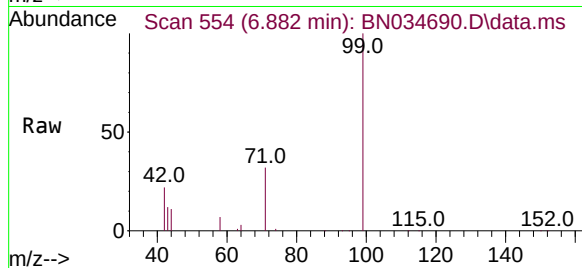




#5
Phenol-d6
Concen: 5.100 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

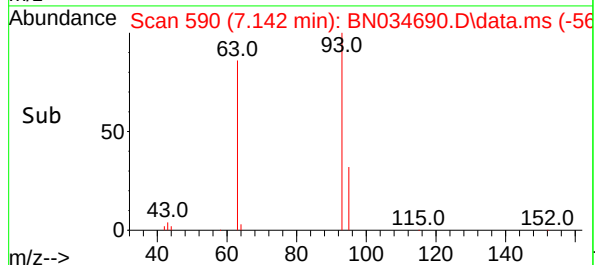
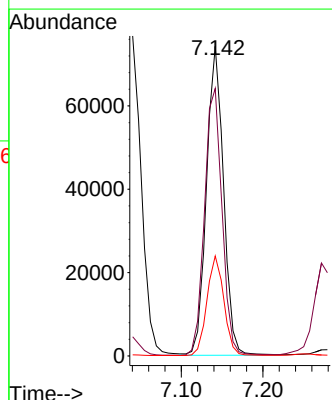
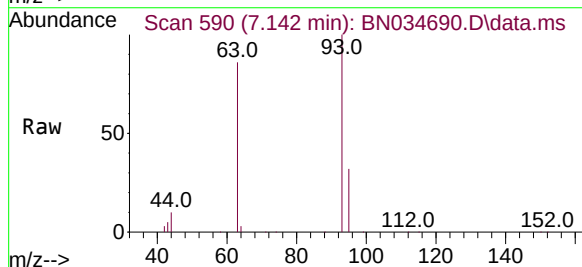
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

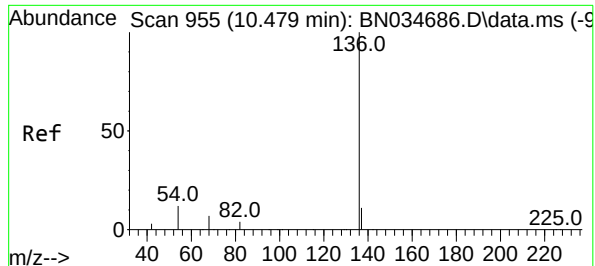
Tgt Ion: 99 Resp: 141189
Ion Ratio Lower Upper
99 100
42 26.5 21.8 32.8
71 32.9 26.6 40.0



#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

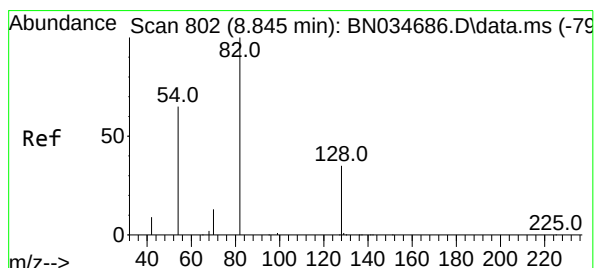
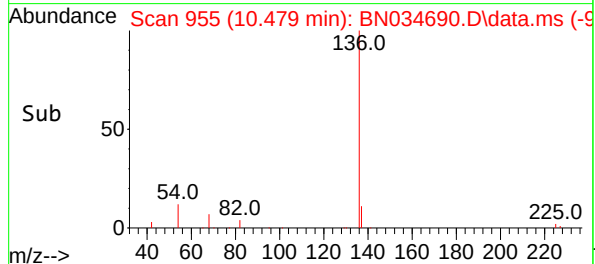
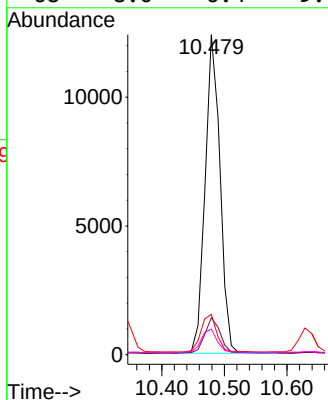
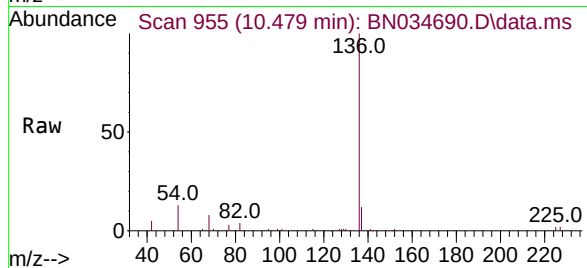




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

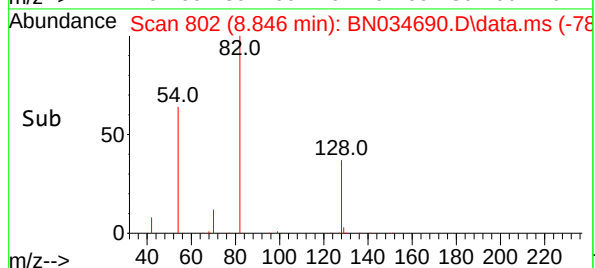
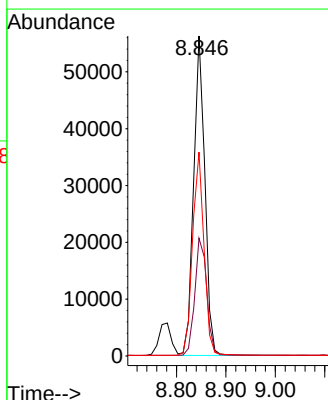
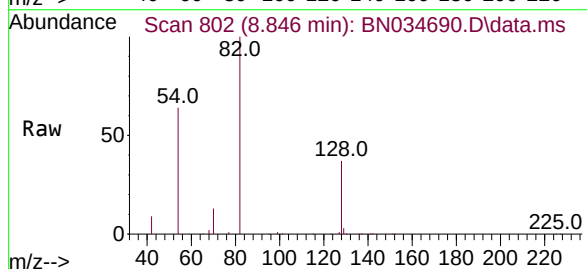
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

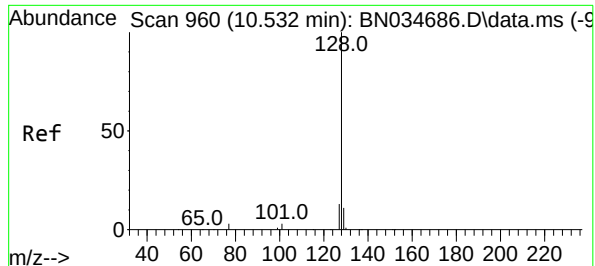
Tgt Ion:	136	Resp:	20368
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	12.6	9.8	14.8
68	8.0	6.4	9.6



#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

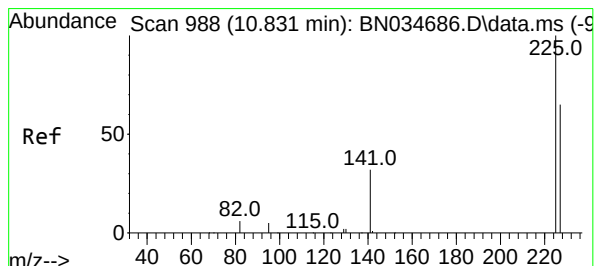
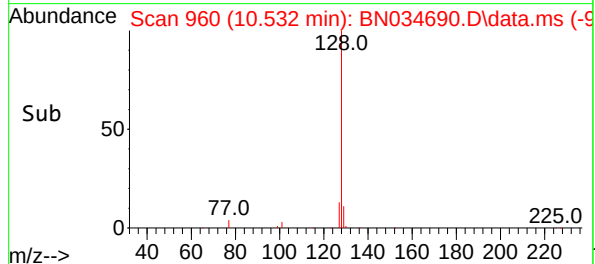
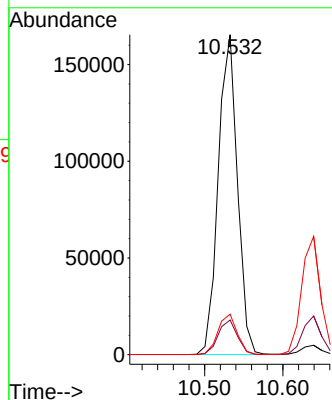
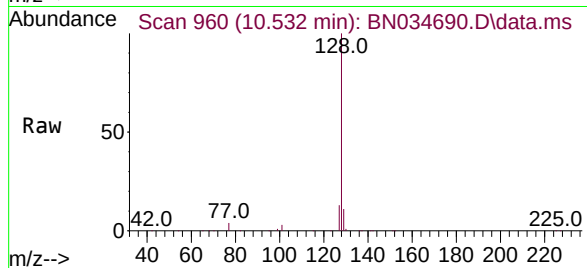




#9
Naphthalene
Concen: 4.992 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

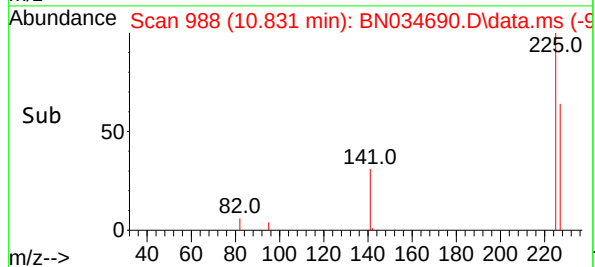
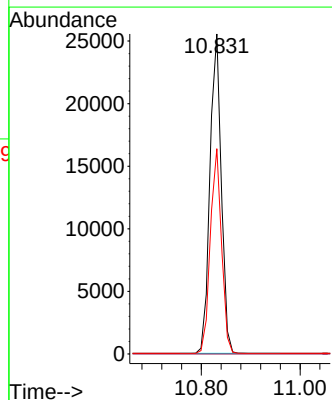
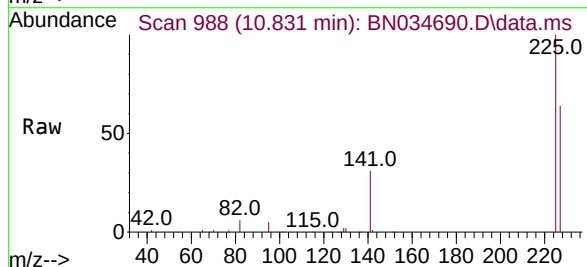
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

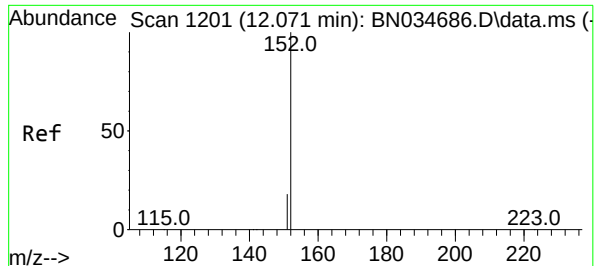
Tgt Ion:128 Resp: 280398
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.7 10.5 15.7



#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

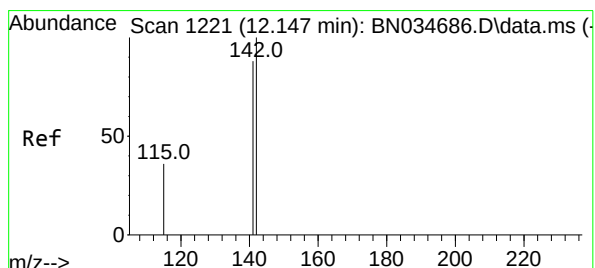
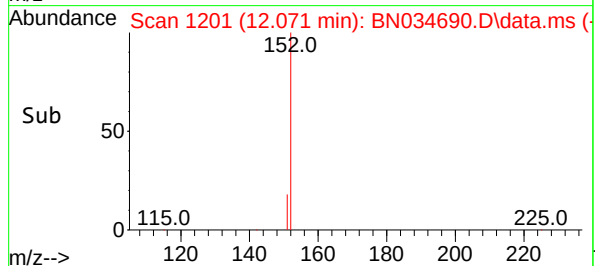
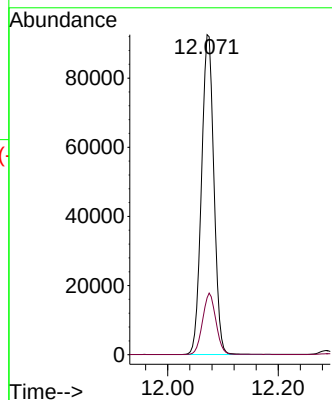
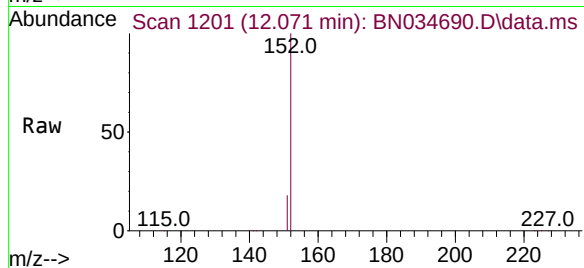




#11
2-Methylnaphthalene-d10
Concen: 5.026 ng
RT: 12.071 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

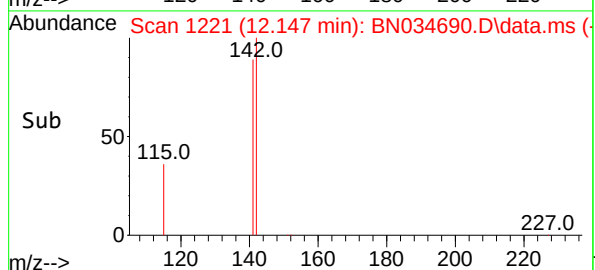
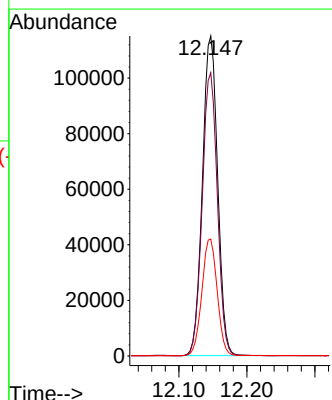
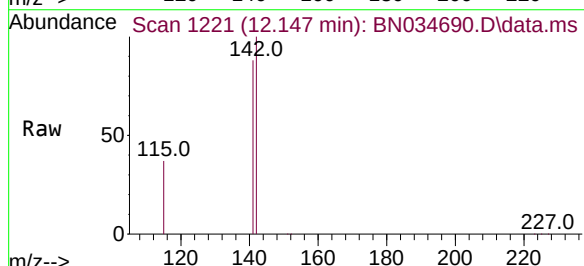
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

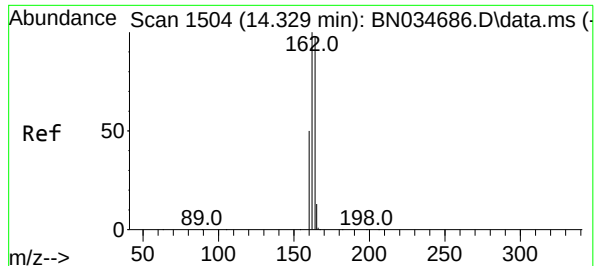
Tgt Ion:152 Resp: 144128
Ion Ratio Lower Upper
152 100
151 20.6 16.7 25.1



#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

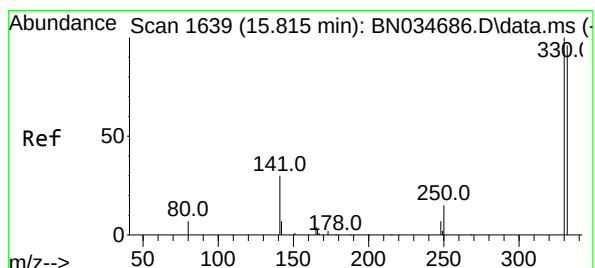
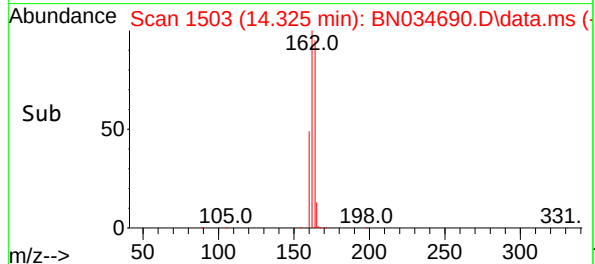
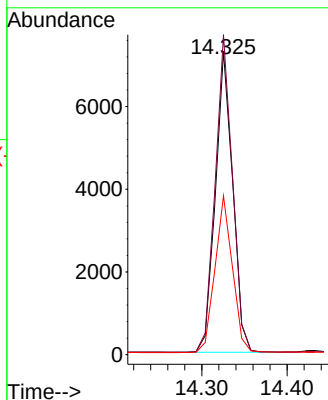
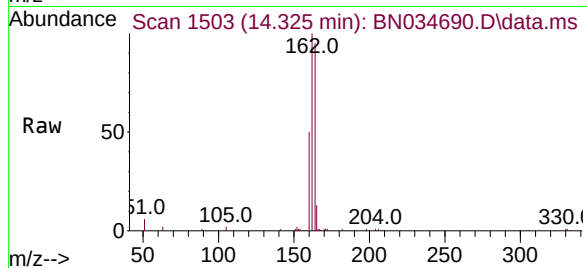




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

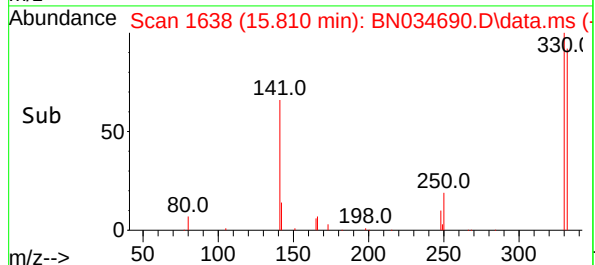
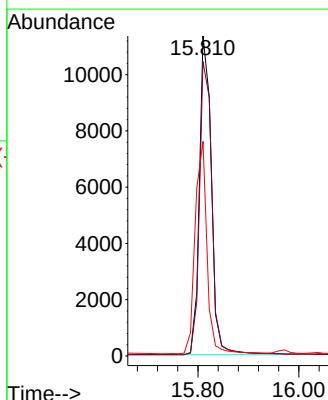
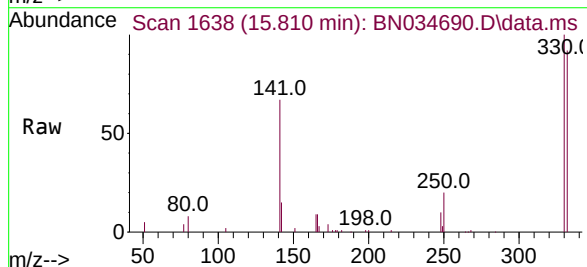
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

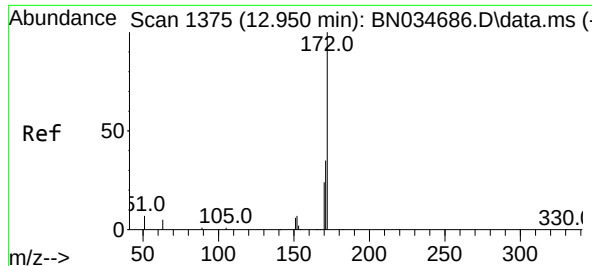
Tgt Ion:164 Resp: 10267
Ion Ratio Lower Upper
164 100
162 105.4 81.4 122.0
160 52.4 40.6 61.0



#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

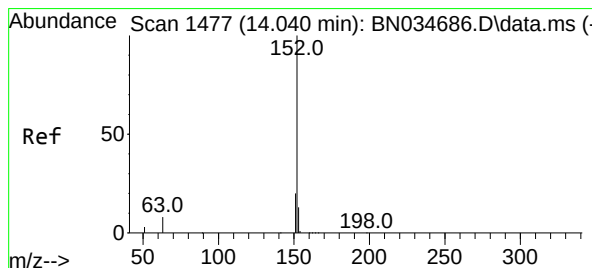
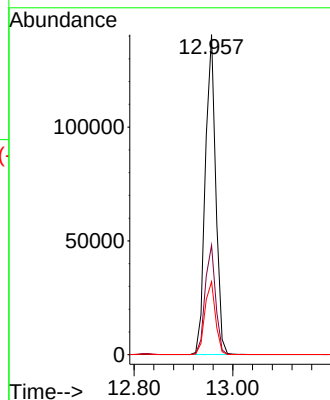
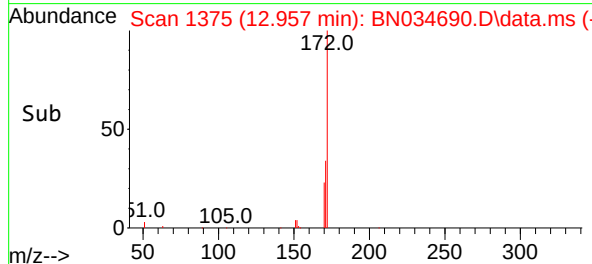
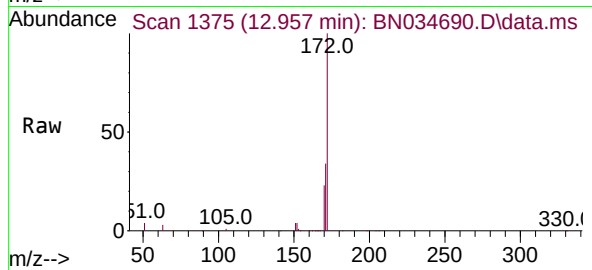




#15
2-Fluorobiphenyl
Concen: 5.077 ng
RT: 12.957 min Scan# 1375
Delta R.T. 0.007 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

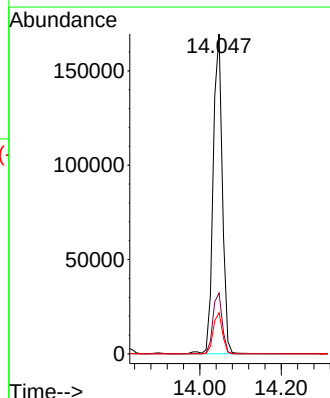
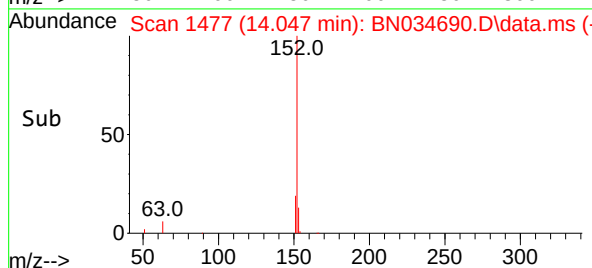
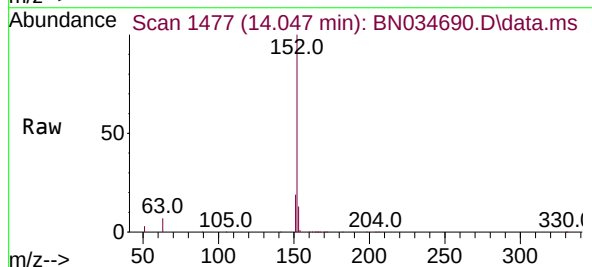
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

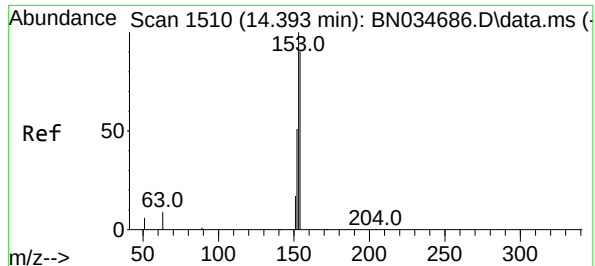
Tgt Ion:172 Resp: 205465
Ion Ratio Lower Upper
172 100
171 34.2 28.3 42.5
170 22.8 19.8 29.6



#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

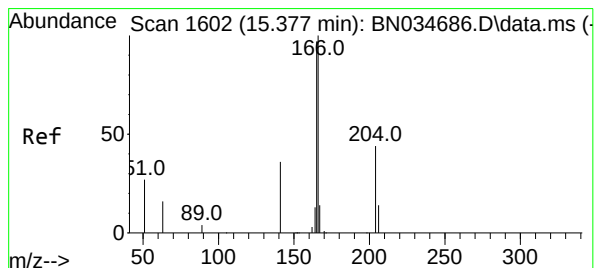
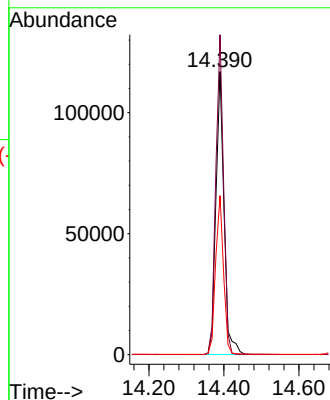
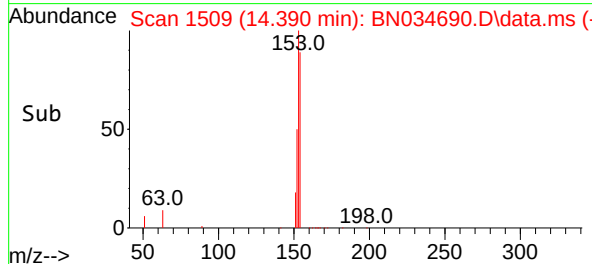
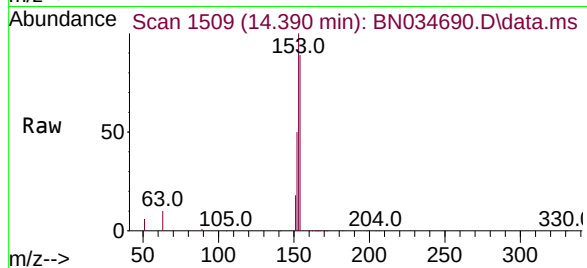




#17
Acenaphthene
Concen: 5.223 ng
RT: 14.390 min Scan# 1510
Delta R.T. -0.004 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

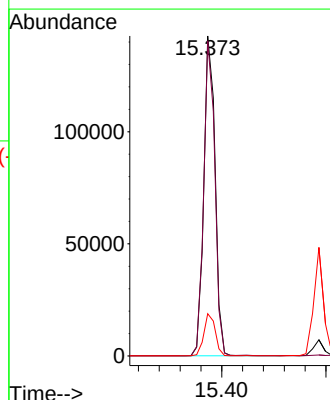
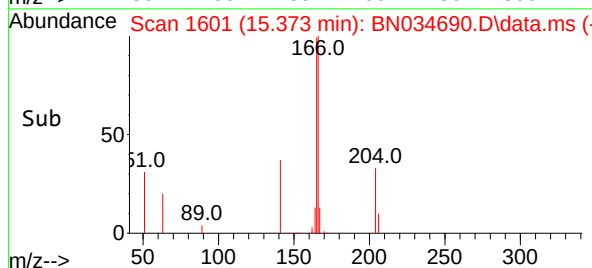
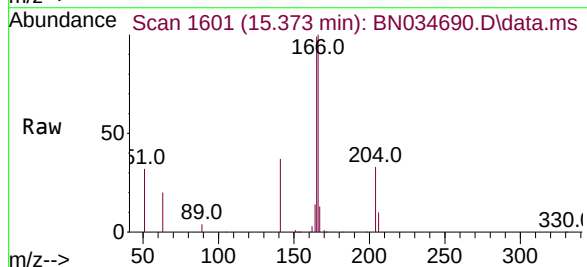
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

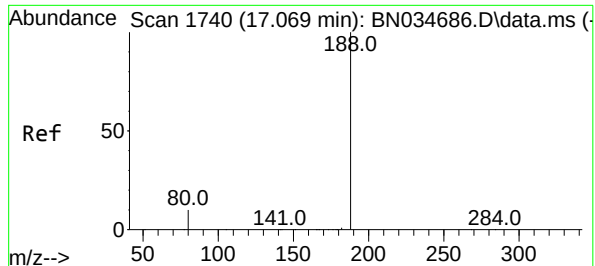
Tgt Ion:154 Resp: 175767
Ion Ratio Lower Upper
154 100
153 108.2 88.2 132.2
152 54.7 46.9 70.3



#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

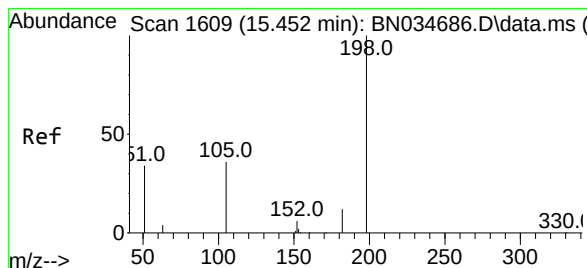
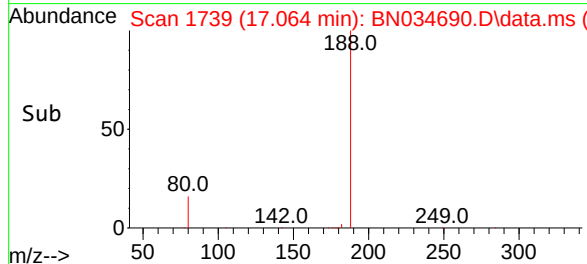
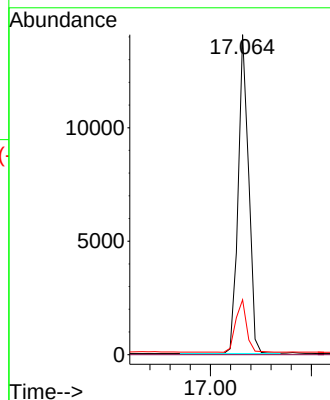
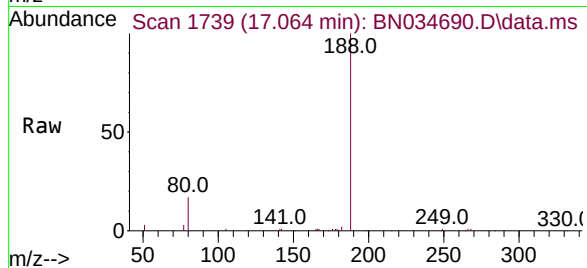
Tgt Ion:188 Resp: 20306

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

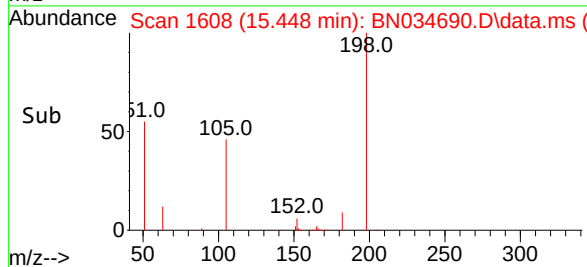
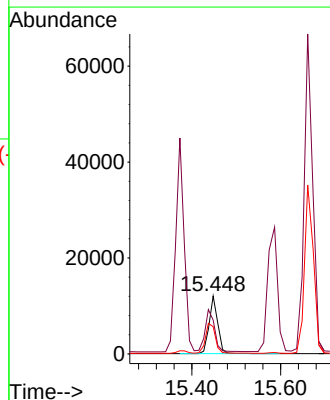
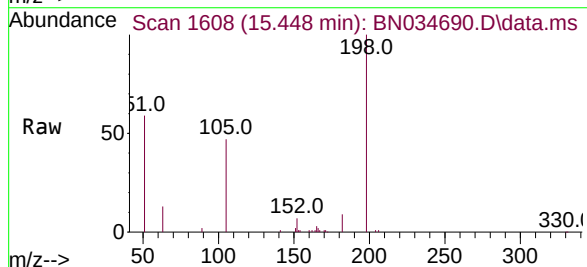
Tgt Ion:198 Resp: 17103

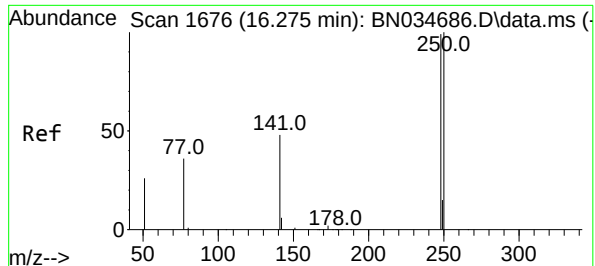
Ion Ratio Lower Upper

198 100

51 58.7 91.8 137.8#

105 47.2 44.3 66.5

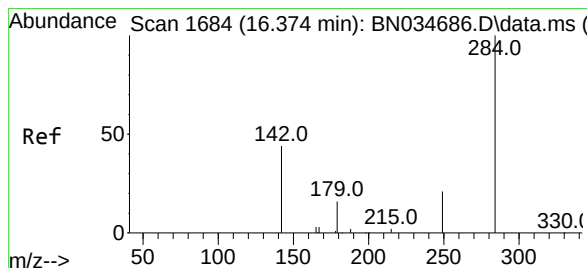
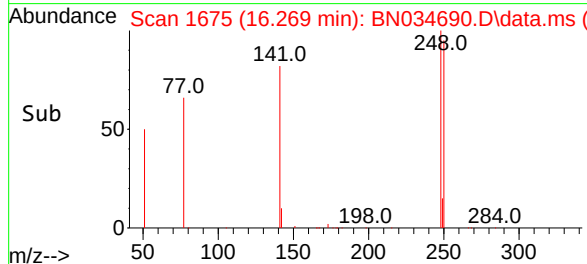
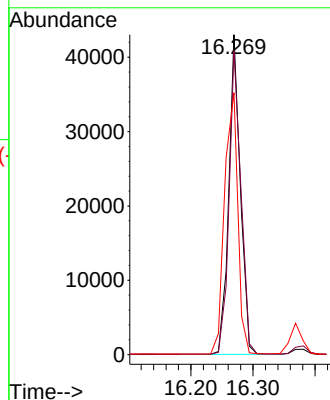
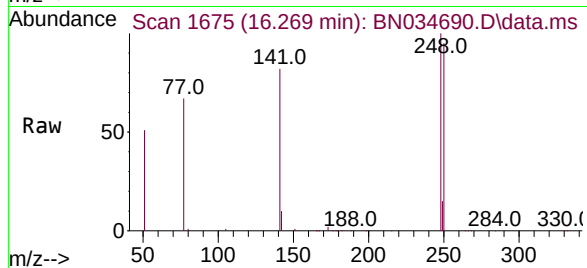




#21
4-Bromophenyl-phenylether
Concen: 4.998 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

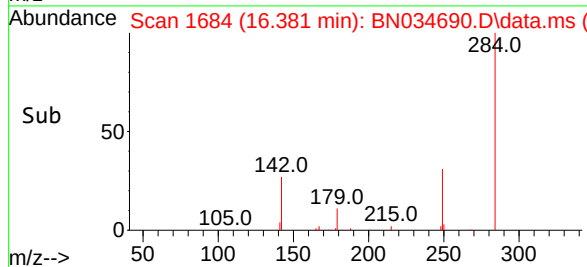
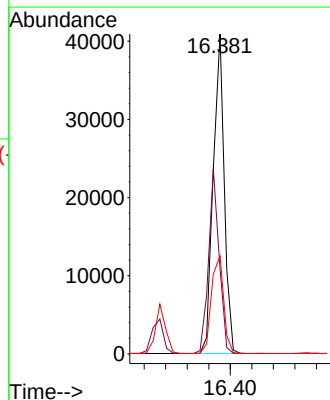
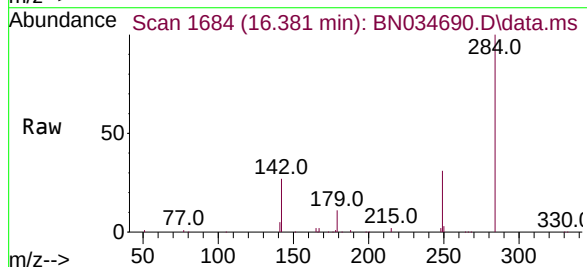
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

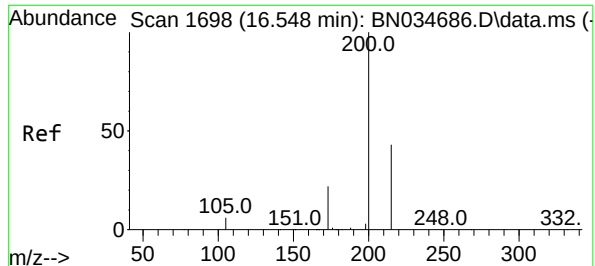
Tgt Ion:248 Resp: 55507
Ion Ratio Lower Upper
248 100
250 95.0 80.9 121.3
141 81.9 40.5 60.7#



#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

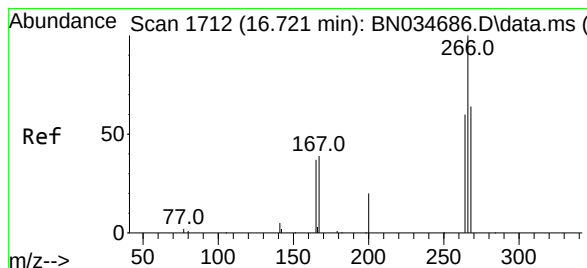
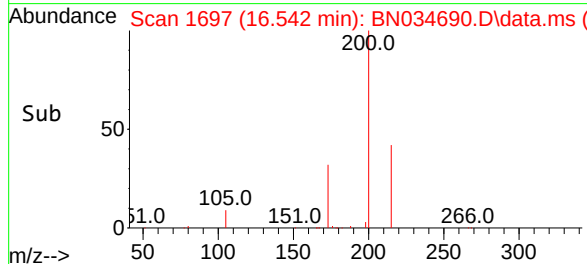
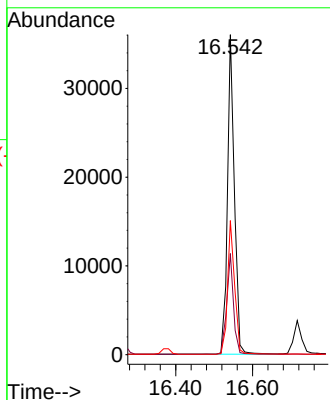
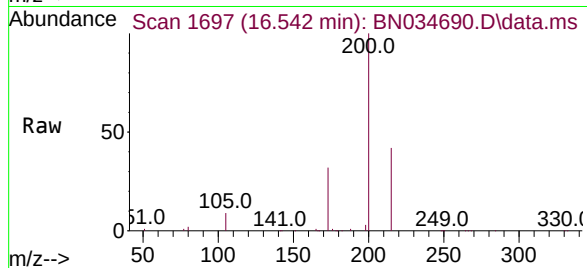




#23
Atrazine
Concen: 4.667 ng
RT: 16.542 min Scan# 1698
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

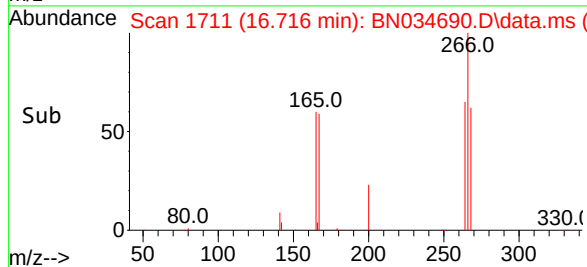
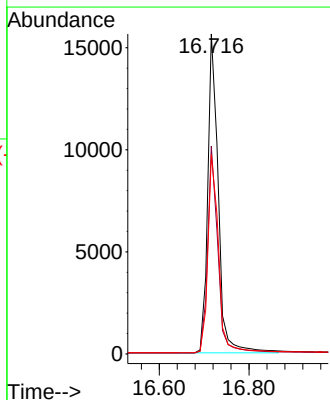
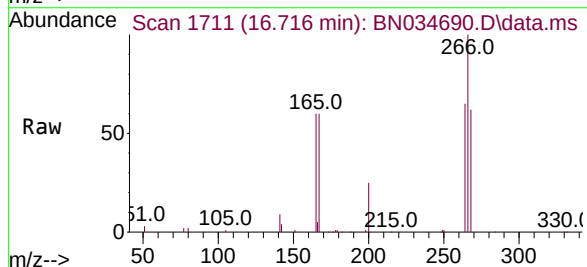
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

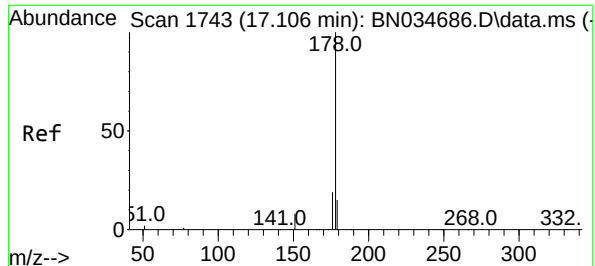
Tgt Ion:200 Resp: 45354
Ion Ratio Lower Upper
200 100
173 31.6 19.7 29.5#
215 41.9 35.7 53.5



#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

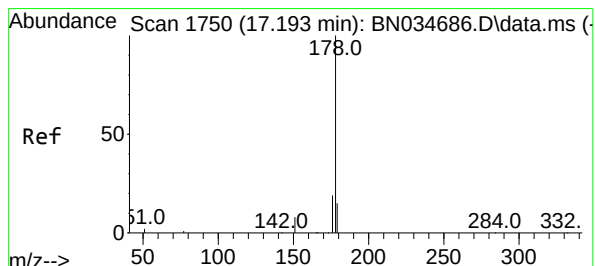
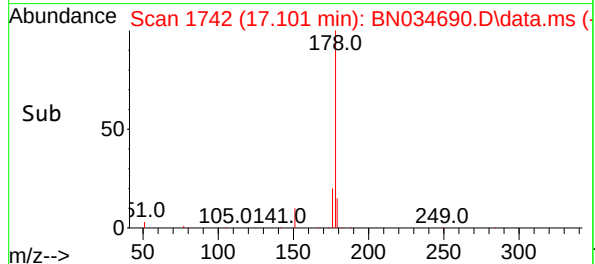
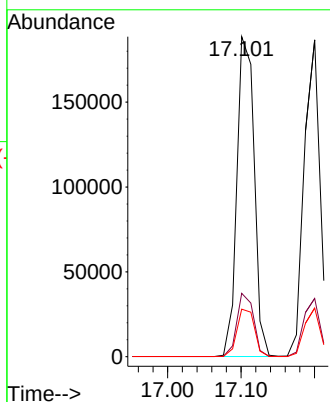
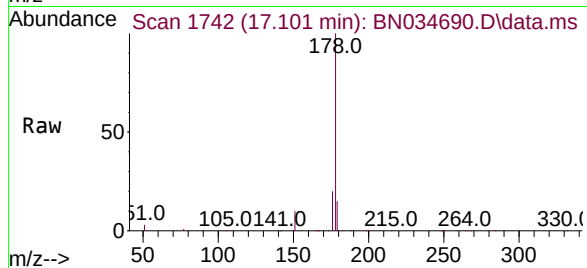




#25
Phenanthrene
Concen: 5.103 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.005 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

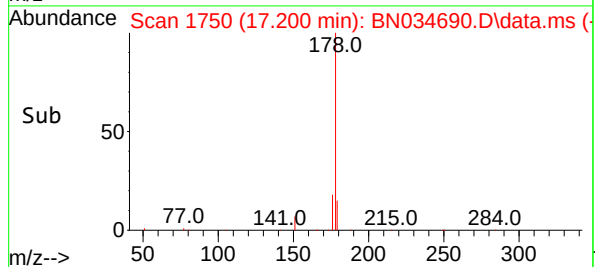
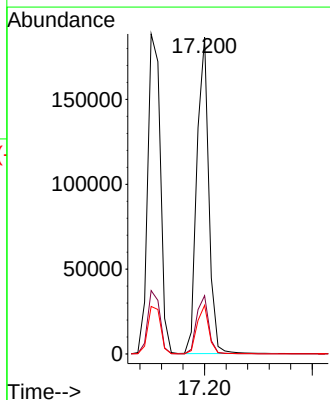
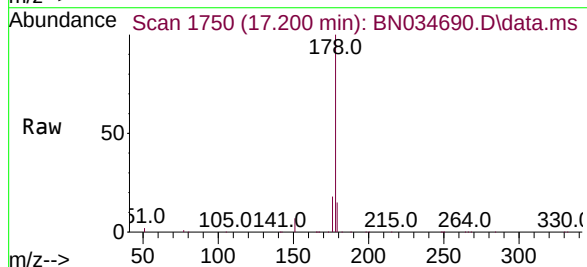
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

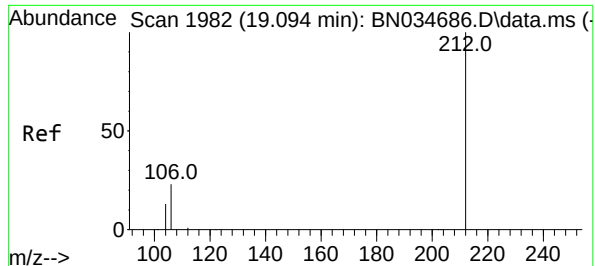
Tgt Ion:178 Resp: 308331
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.0 12.2 18.4



#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

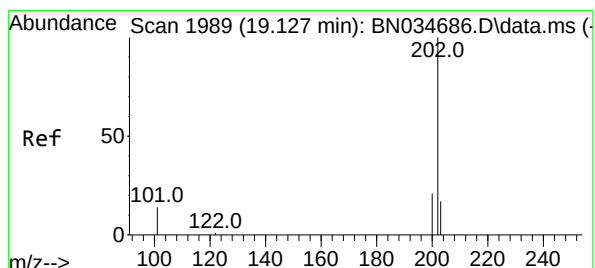
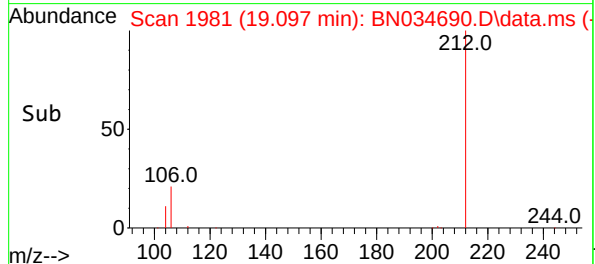
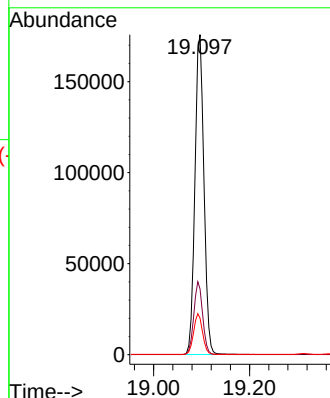
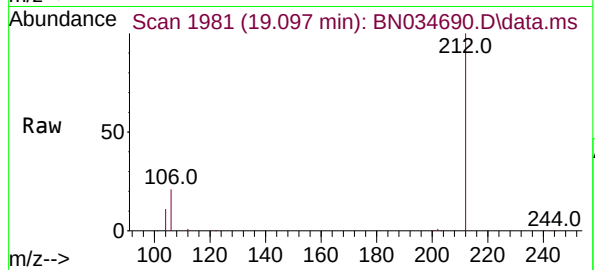




#27
Fluoranthene-d10
Concen: 4.647 ng
RT: 19.097 min Scan# 1982
Delta R.T. 0.002 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

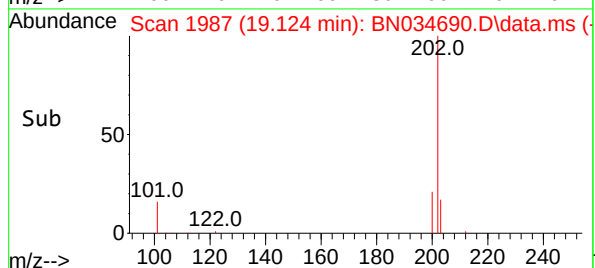
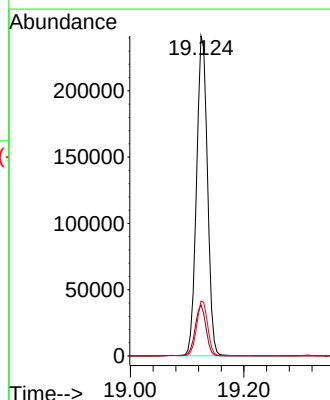
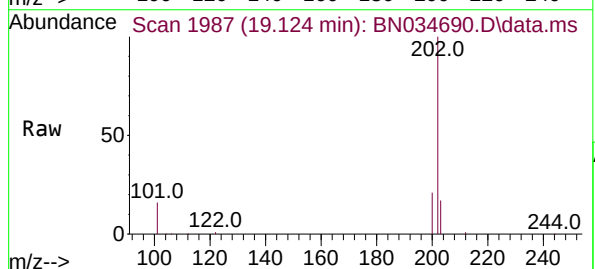
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

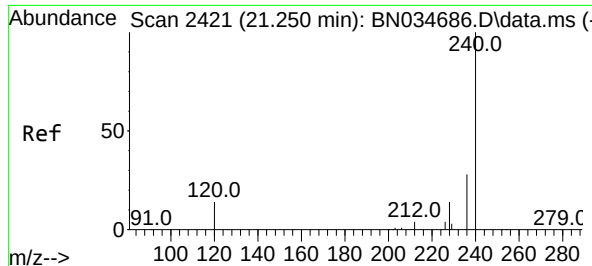
Tgt Ion:212 Resp: 231016
Ion Ratio Lower Upper
212 100
106 22.3 17.8 26.8
104 12.6 10.2 15.4



#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

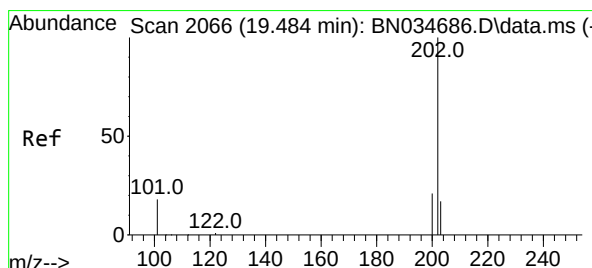
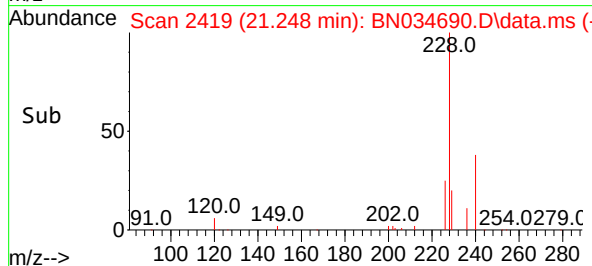
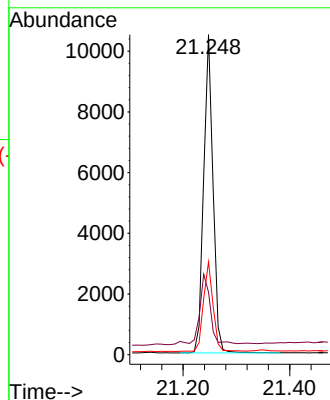
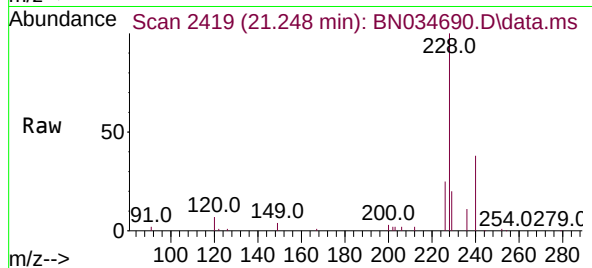
Tgt Ion:240 Resp: 12752

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

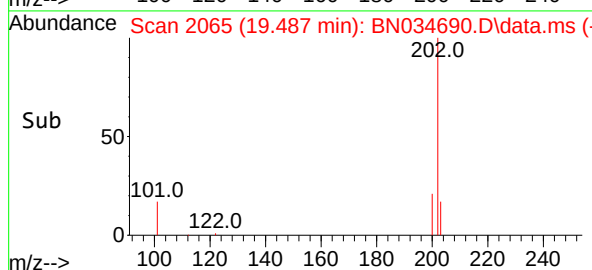
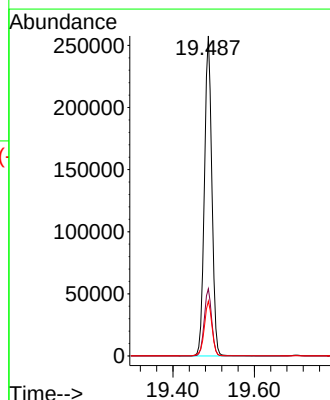
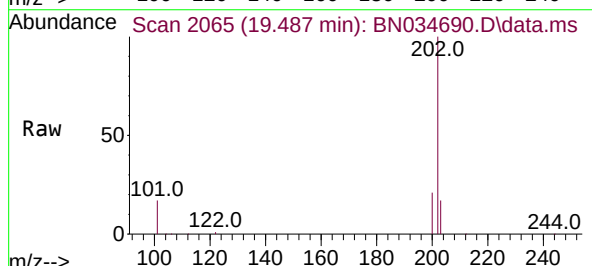
Tgt Ion:202 Resp: 326483

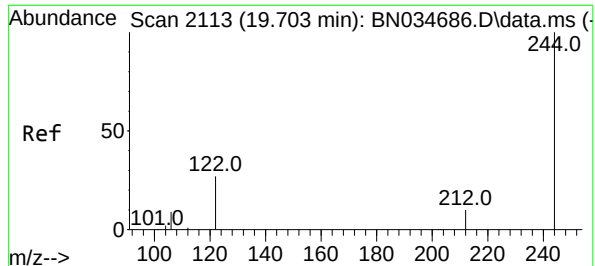
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.6 14.2 21.4

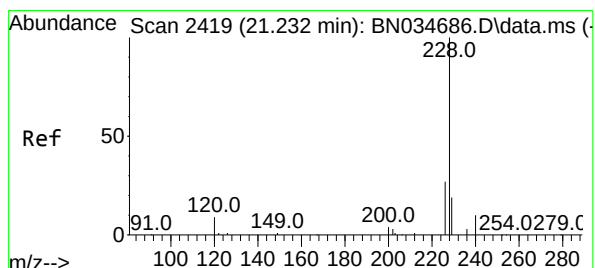
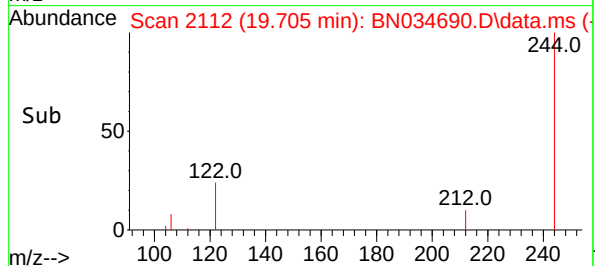
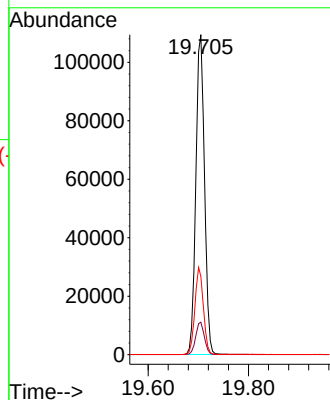
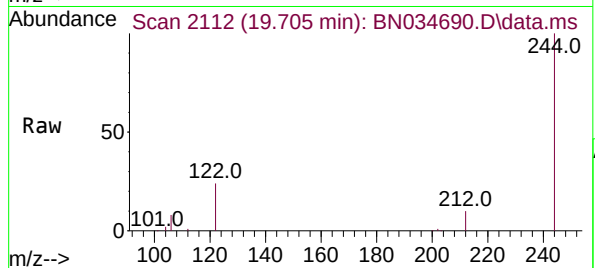




#31
Terphenyl-d14
Concen: 5.298 ng
RT: 19.705 min Scan# 2112
Delta R.T. 0.002 min
Lab File: BN034690.D
Acq: 24 Oct 2024 12:48

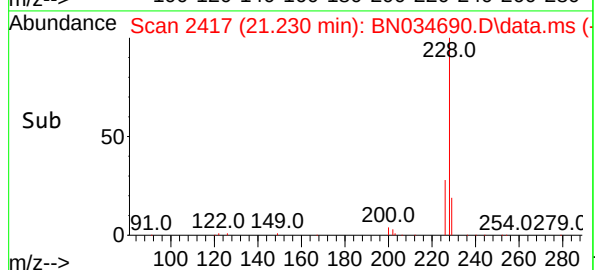
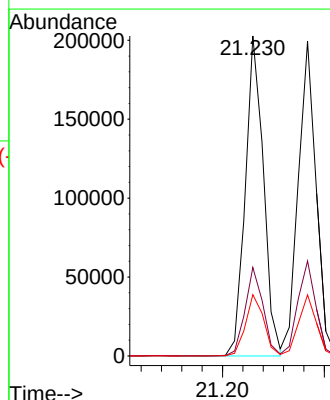
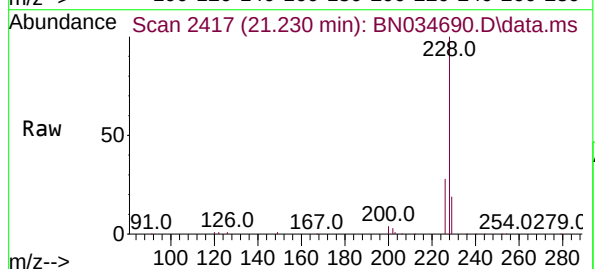
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

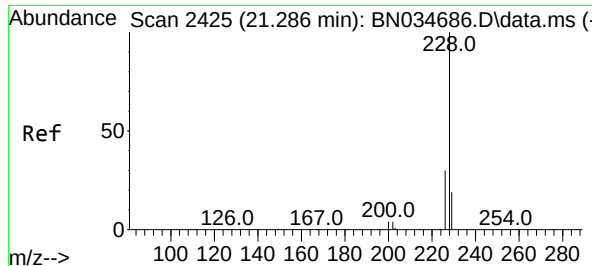
Tgt Ion:244 Resp: 130770
Ion Ratio Lower Upper
244 100
212 10.1 8.6 13.0
122 24.5 22.3 33.5



#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# 2413

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

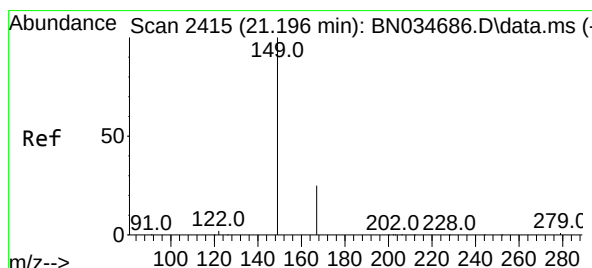
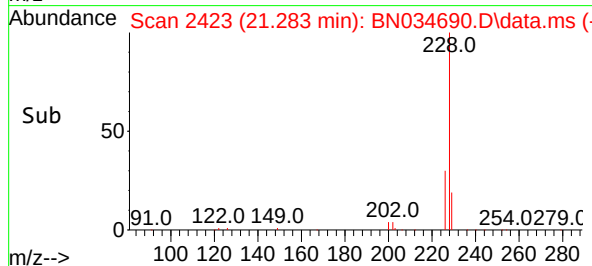
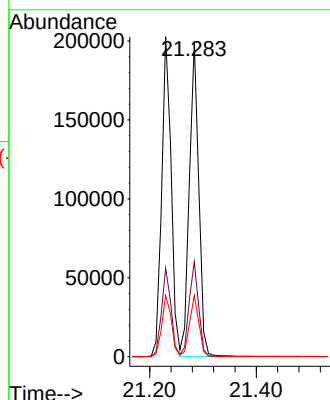
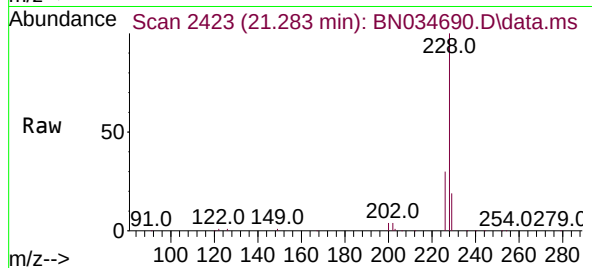
Tgt Ion:228 Resp: 244106

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

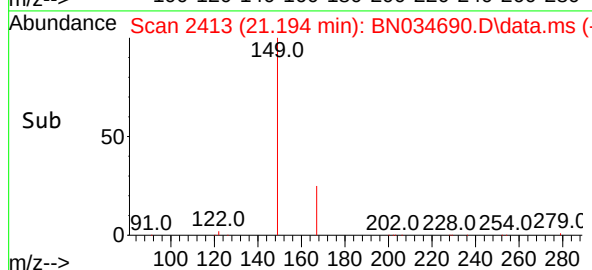
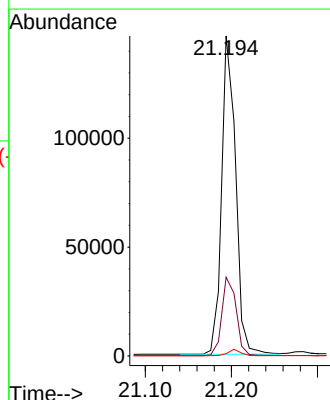
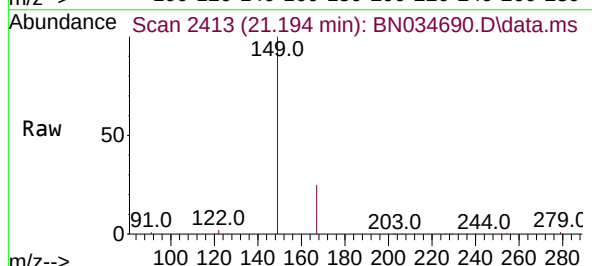
Tgt Ion:149 Resp: 164213

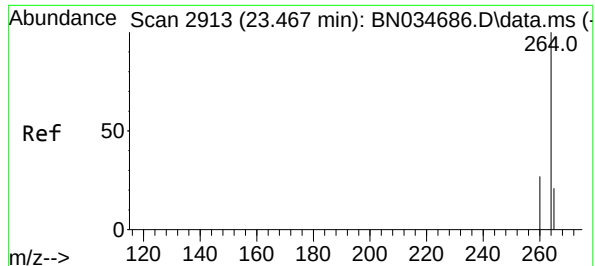
Ion Ratio Lower Upper

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

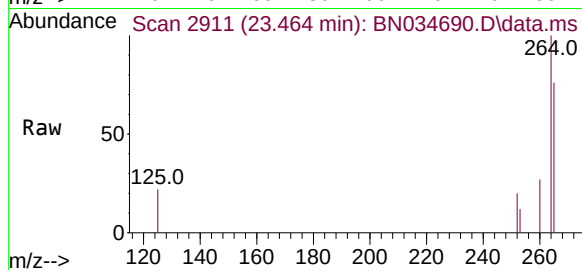
Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



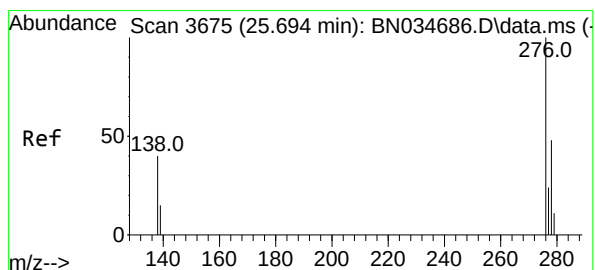
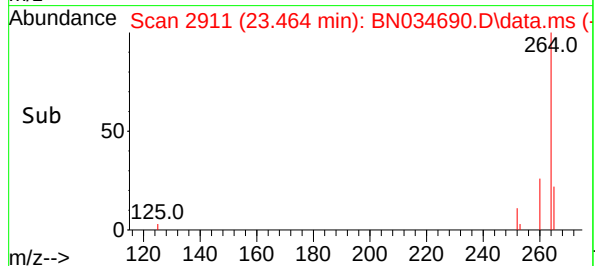
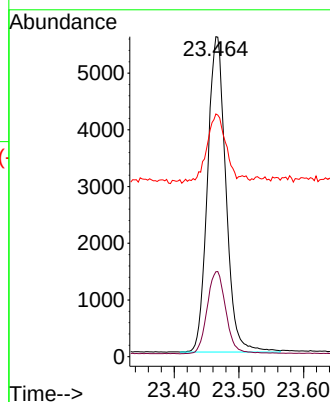
Tgt Ion:264 Resp: 10972

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

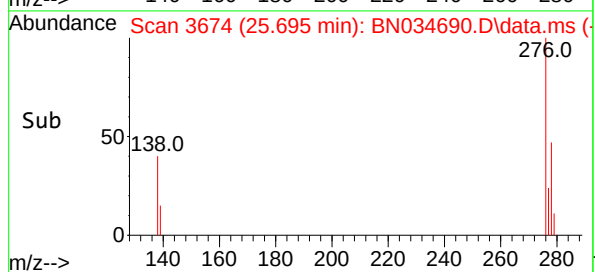
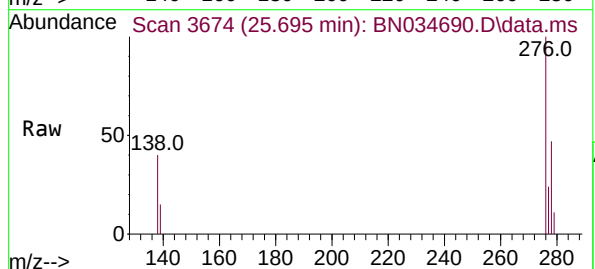
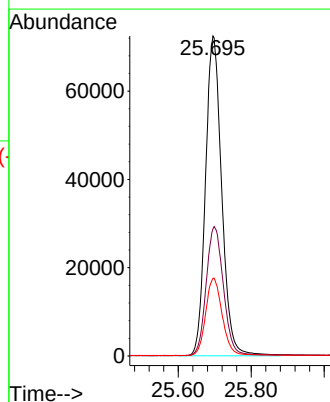
Tgt Ion:276 Resp: 222798

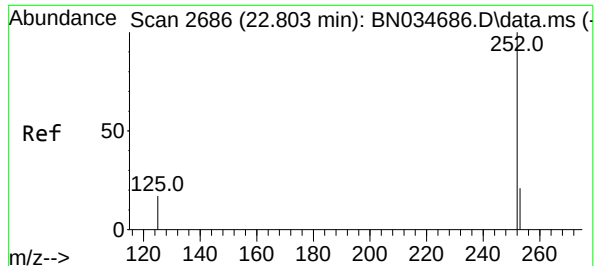
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.002 min

Lab File: BN034690.D

Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

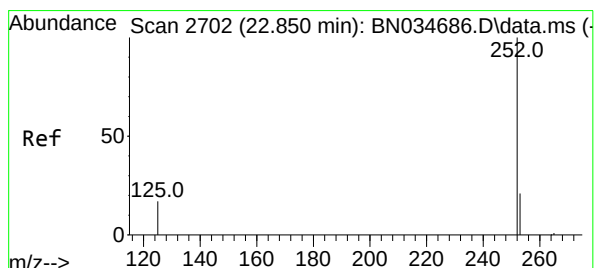
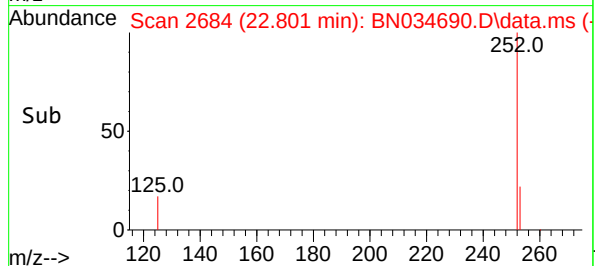
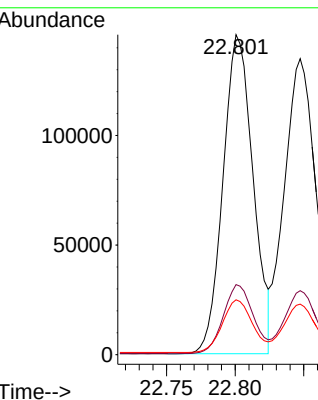
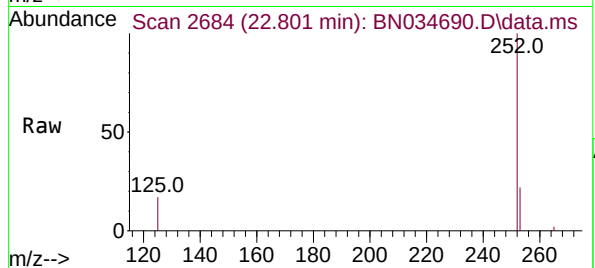
Tgt Ion:252 Resp: 221458

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

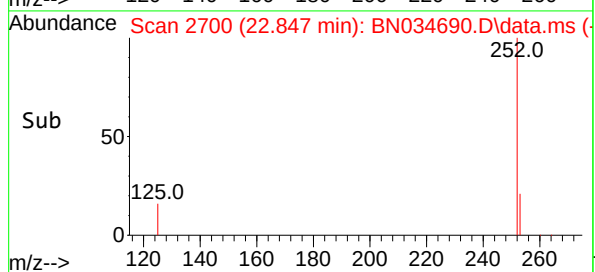
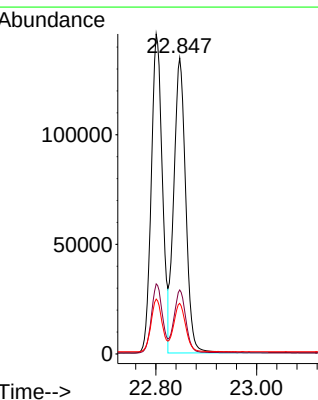
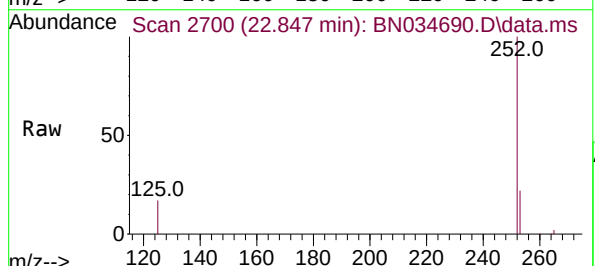
Tgt Ion:252 Resp: 221207

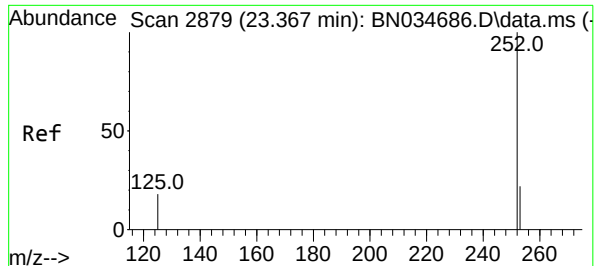
Ion Ratio Lower Upper

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

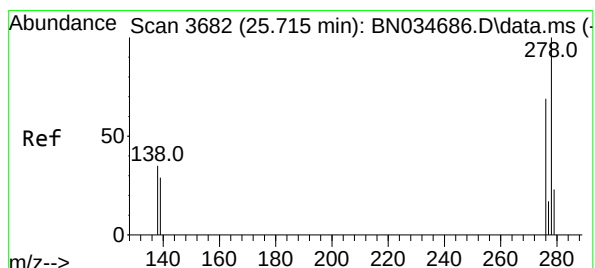
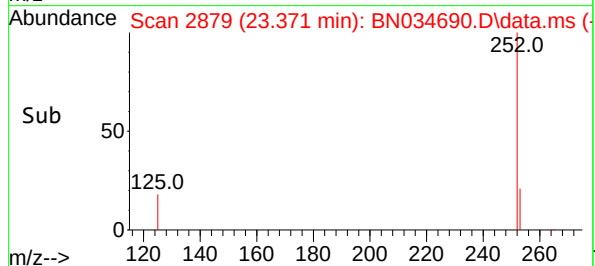
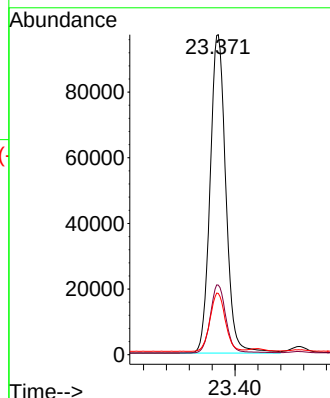
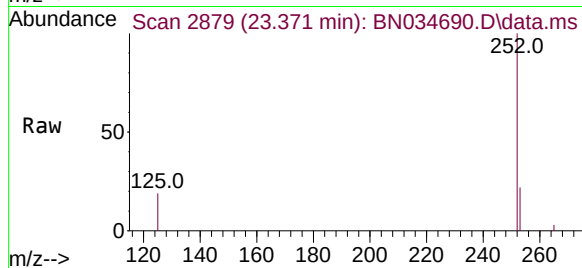
Tgt Ion:252 Resp: 185096

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

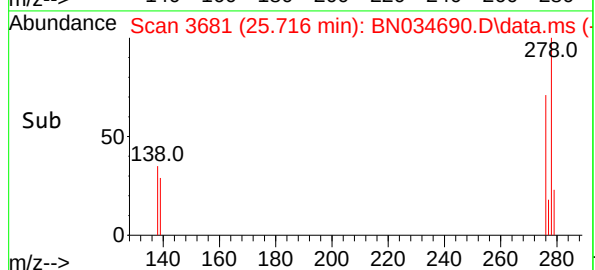
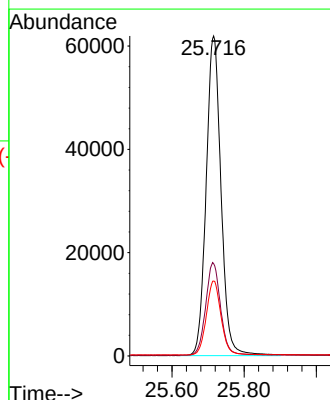
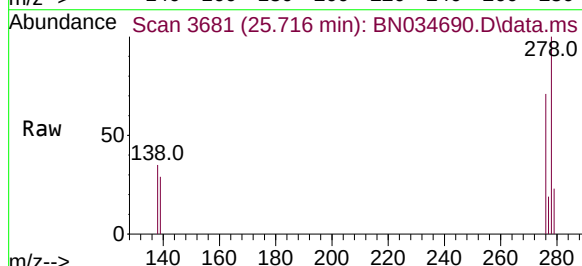
Tgt Ion:278 Resp: 176660

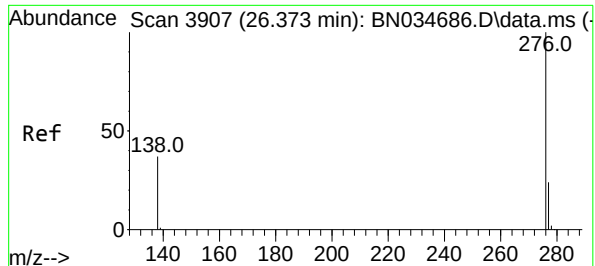
Ion Ratio Lower Upper

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

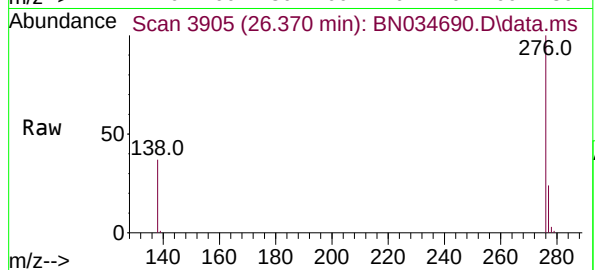
Acq: 24 Oct 2024 12:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



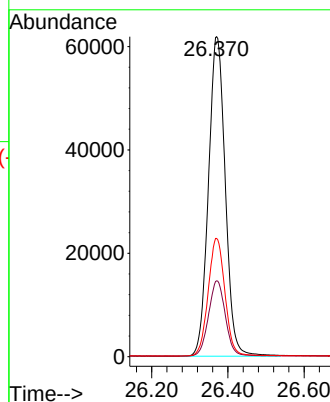
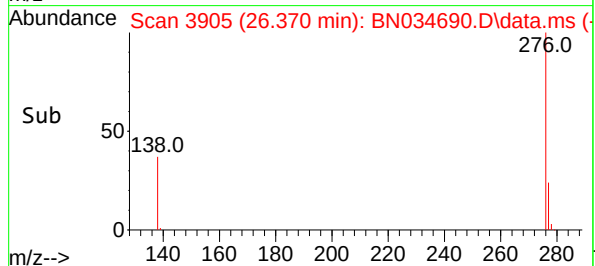
Tgt Ion:276 Resp: 189041

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						Qvalue
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

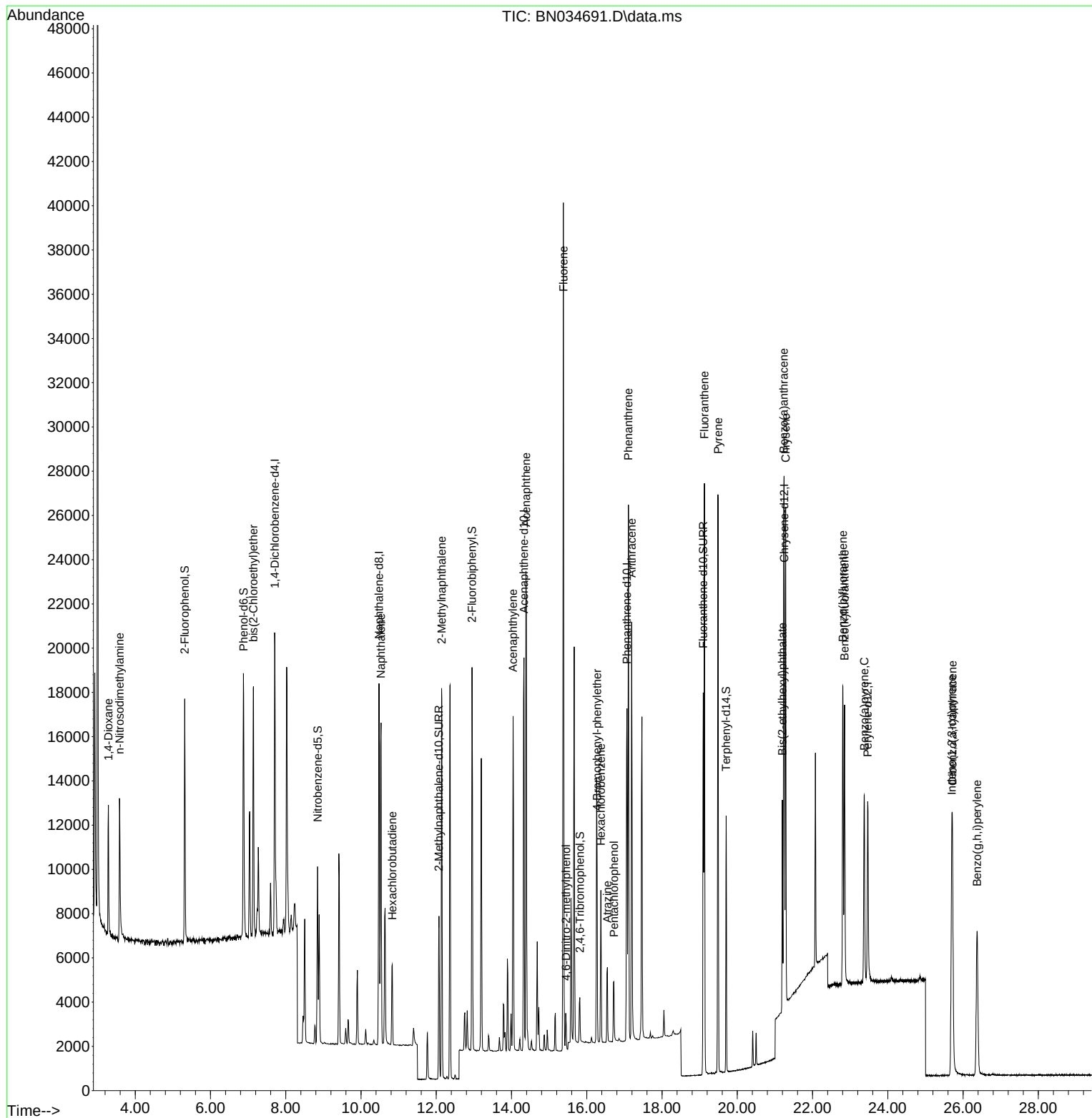
Quant Time: Oct 24 14:43:51 2024

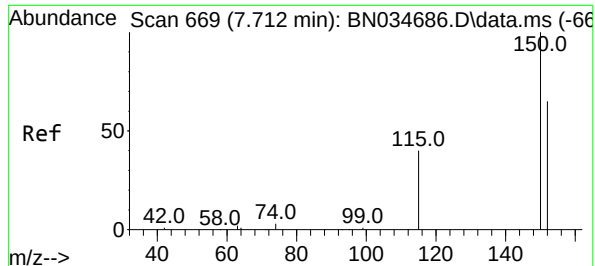
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

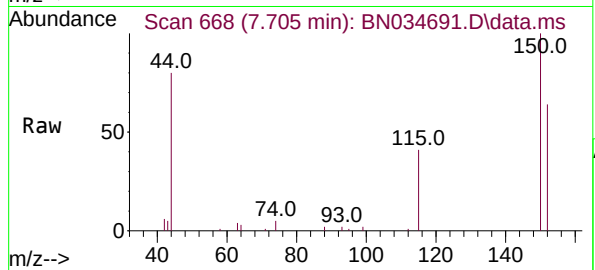
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.705 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

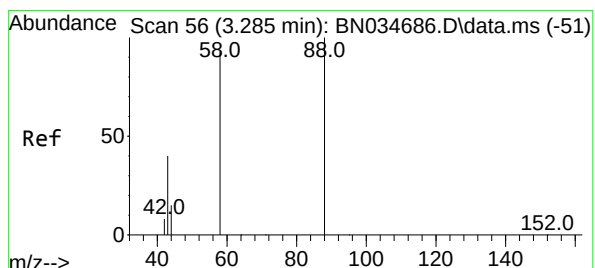
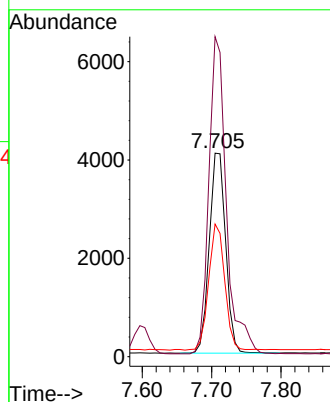
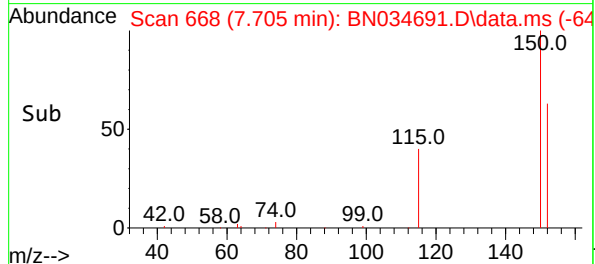
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

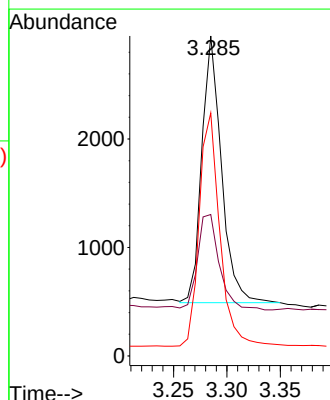
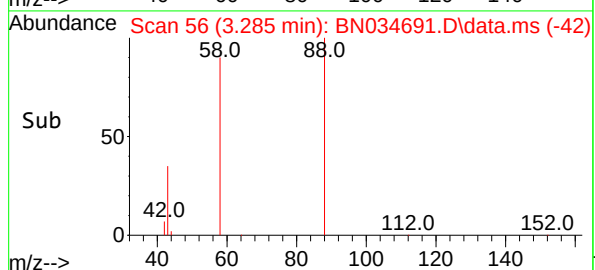
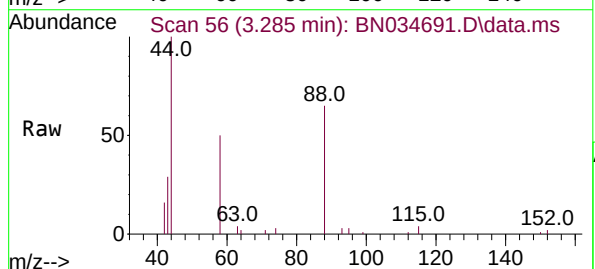
Manual Integrations
APPROVED

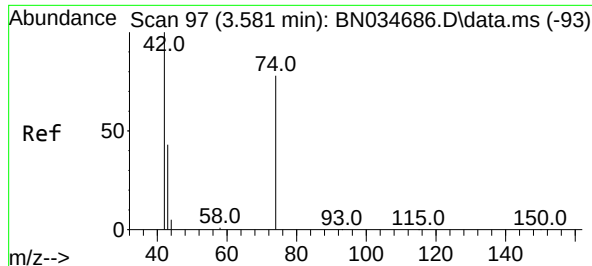
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

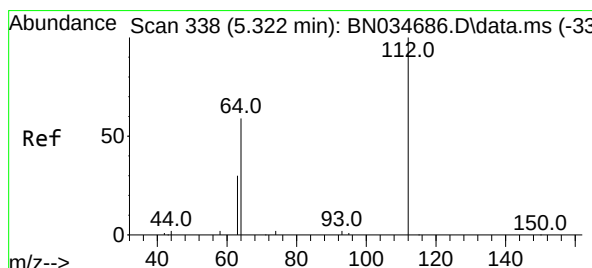
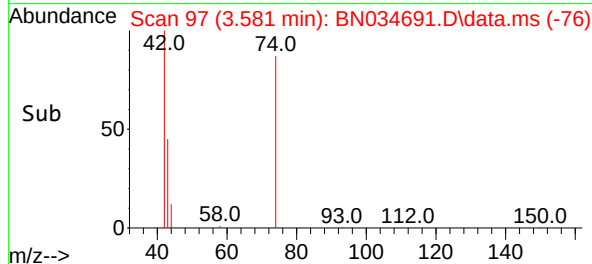
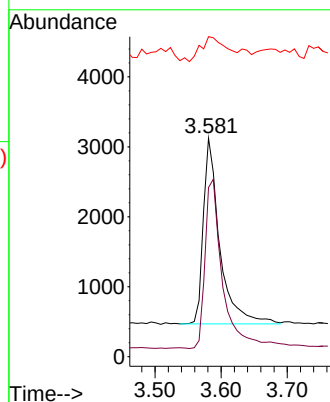
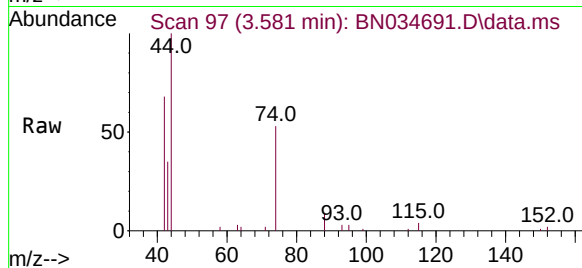
ClientSampleId :

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

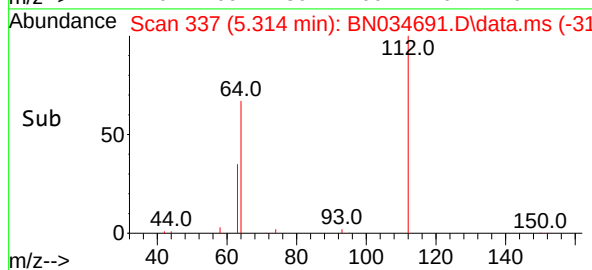
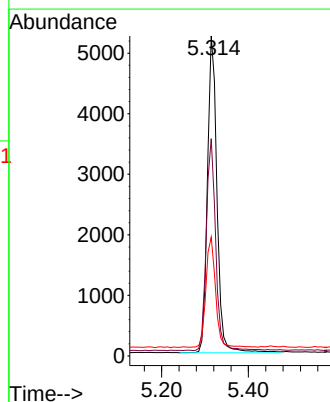
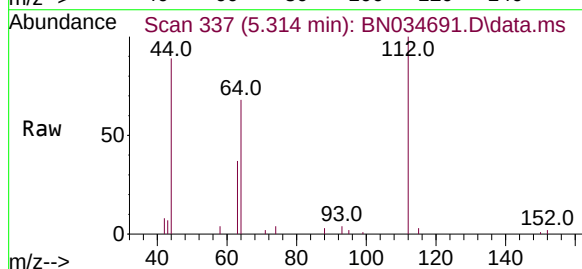
Manual Integrations
APPROVED

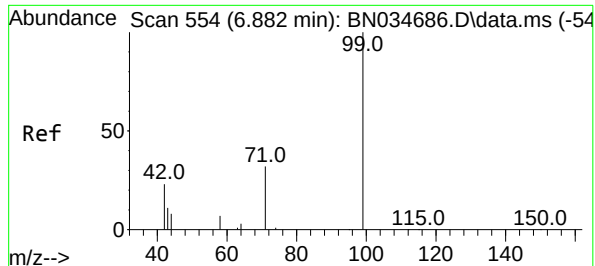
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

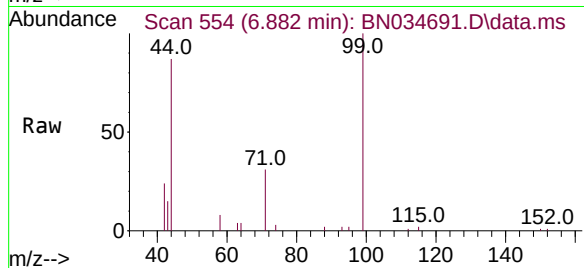
Tgt Ion:112 Resp: 7964
Ion Ratio Lower Upper
112 100
64 66.0 53.0 79.6
63 35.2 27.6 41.4





#5
Phenol-d6
Concen: 0.396 ng
RT: 6.882 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

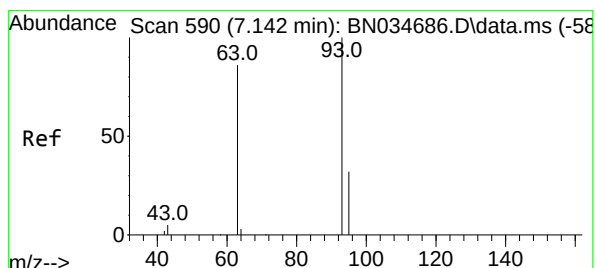
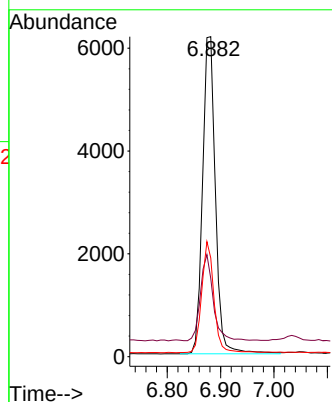
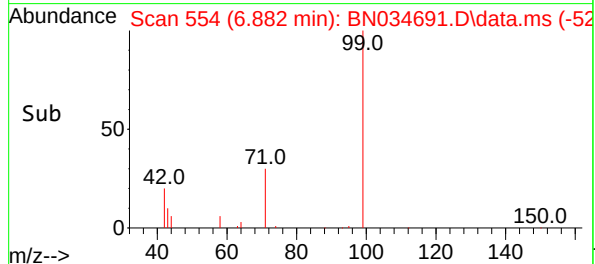
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion: 99 Resp: 10360
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.3 26.6 40.0

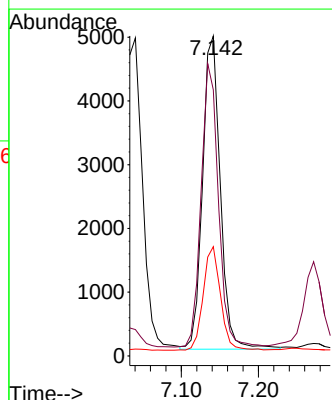
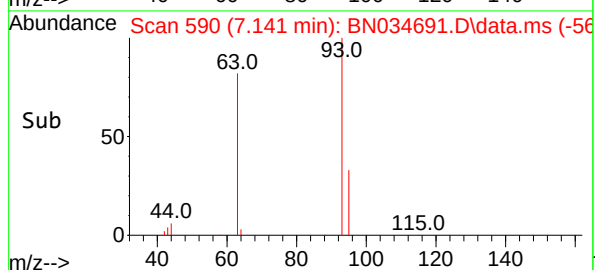
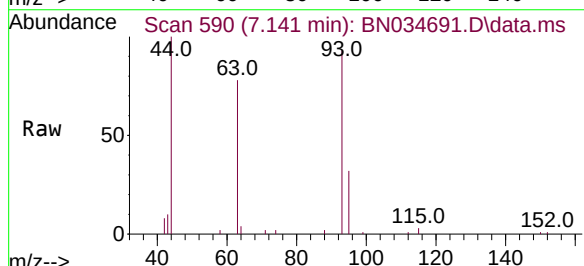
Manual Integrations
APPROVED

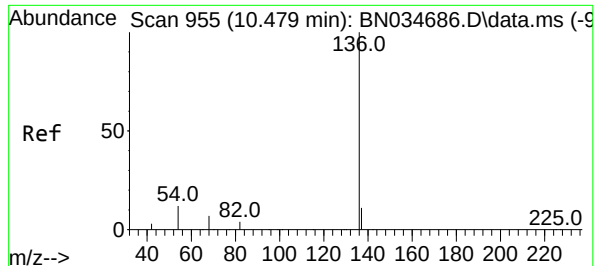
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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: 93 Resp: 7850
Ion Ratio Lower Upper
93 100
63 87.8 71.5 107.3
95 32.2 25.8 38.6





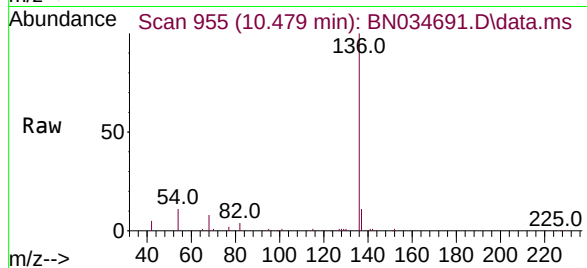
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

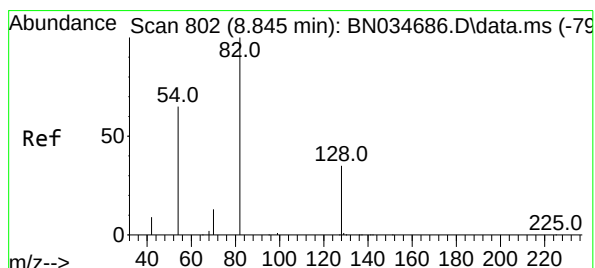
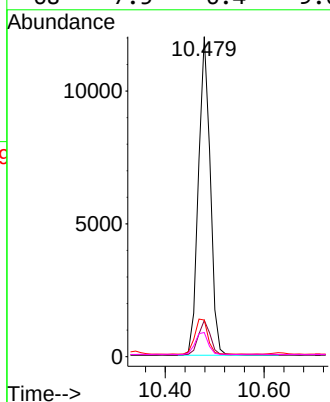
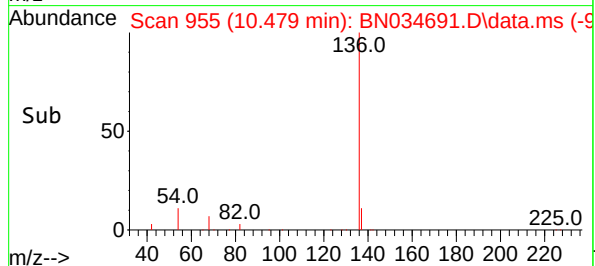


Tgt Ion: 136 Resp: 1984
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 11.4 9.8 14.8
68 7.5 6.4 9.6

Manual Integrations

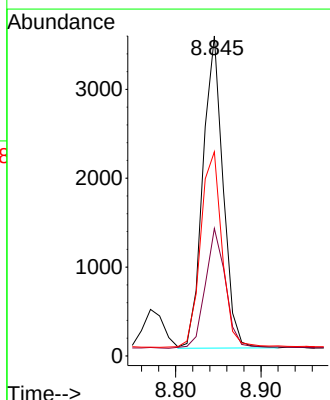
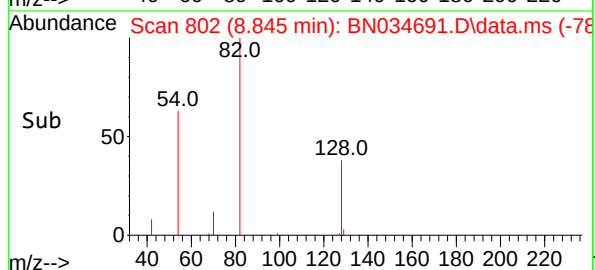
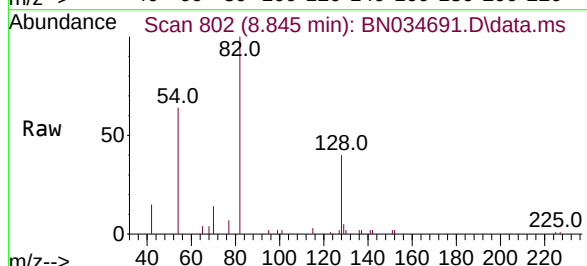
APPROVED

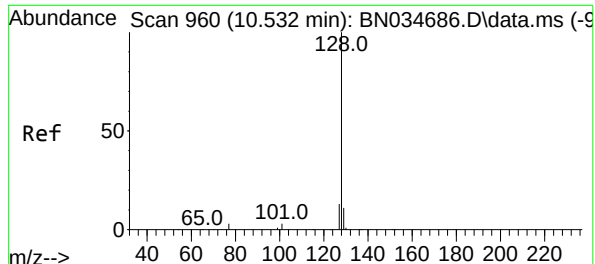
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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





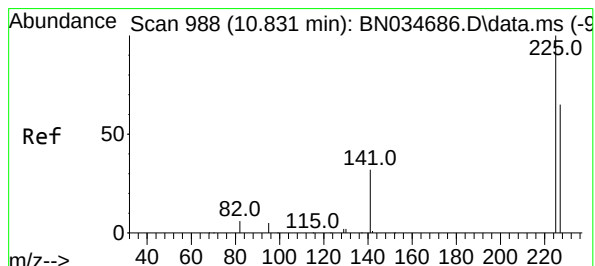
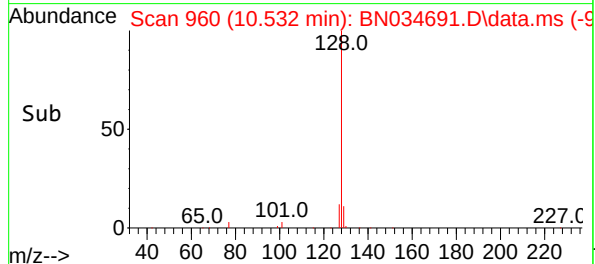
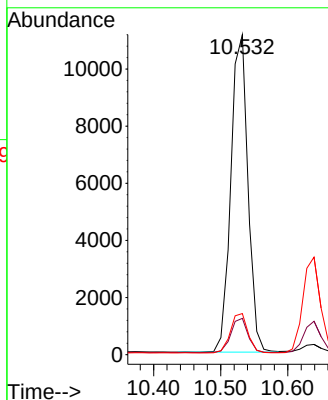
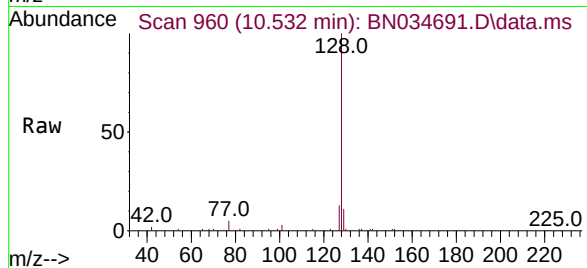
#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

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

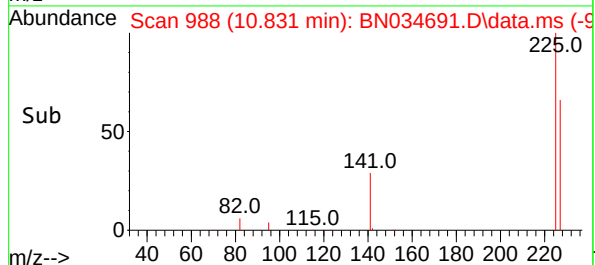
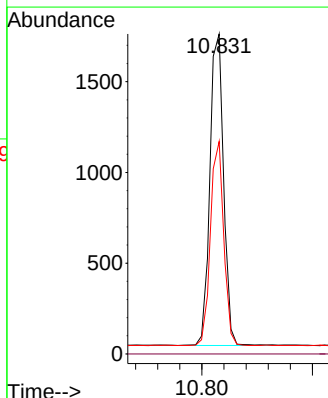
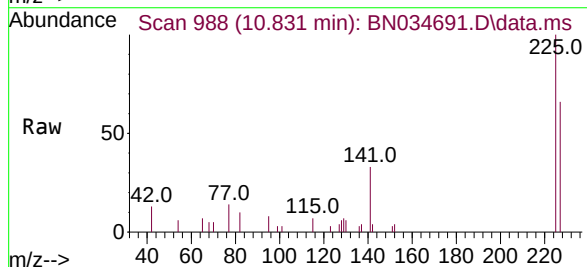
Manual Integrations
APPROVED

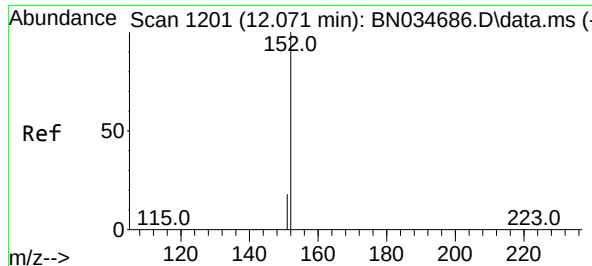
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

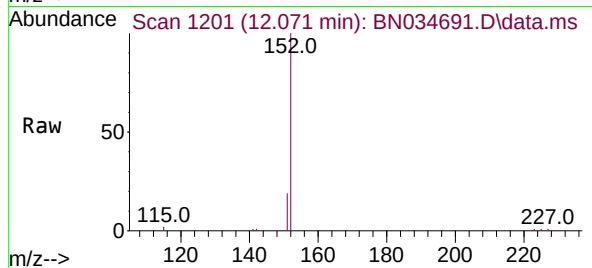
Tgt Ion:225 Resp: 2964
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.4 77.0





#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

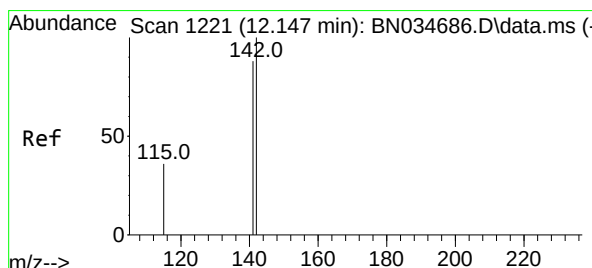
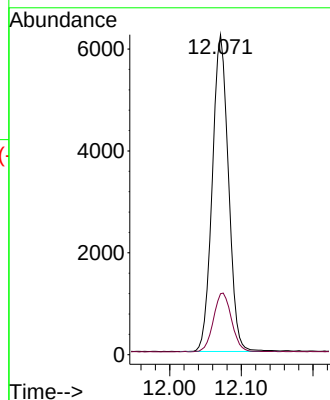
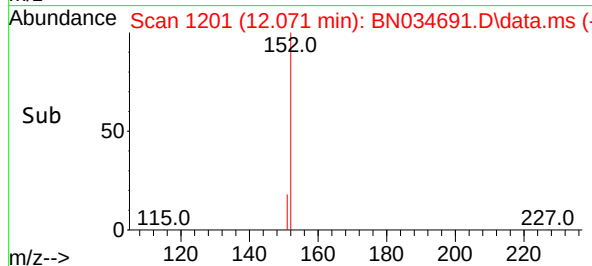
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

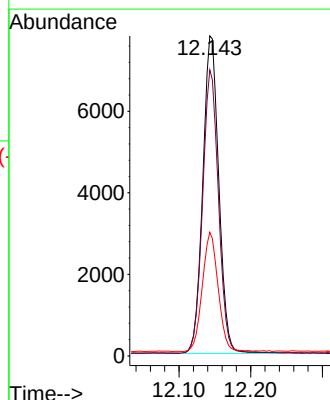
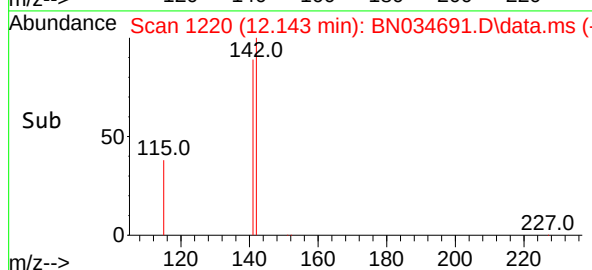
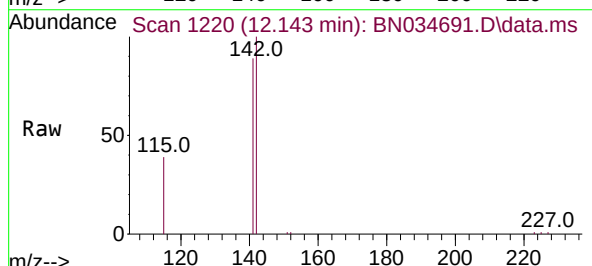
Manual Integrations
APPROVED

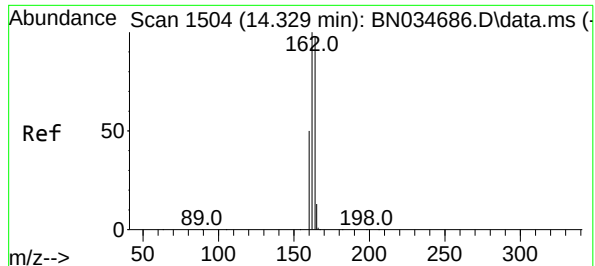
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

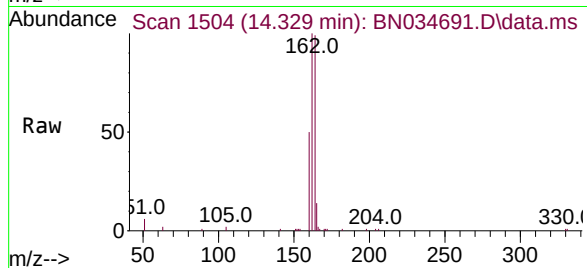
Tgt Ion:142 Resp: 12146
Ion Ratio Lower Upper
142 100
141 89.4 70.4 105.6
115 38.7 29.8 44.6





#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

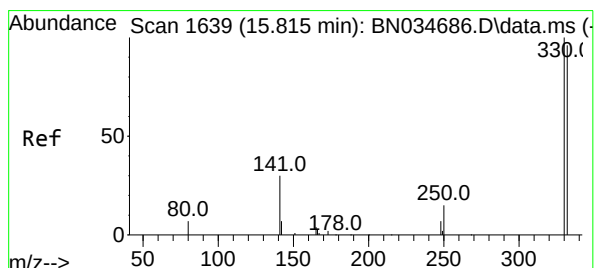
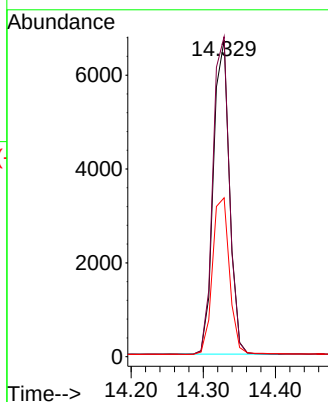
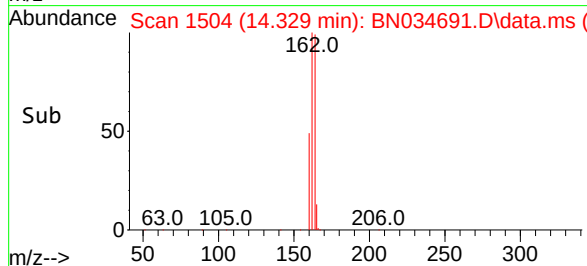
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

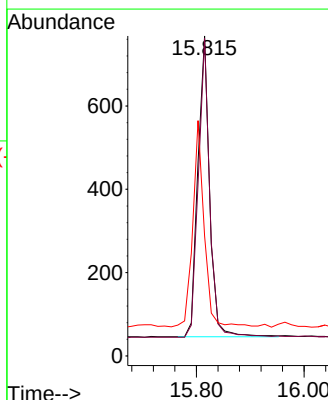
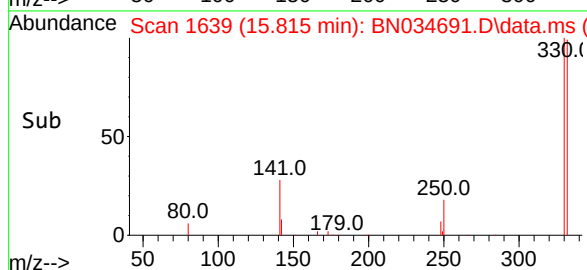
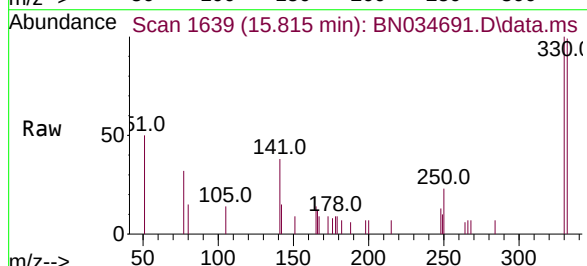
Manual Integrations
APPROVED

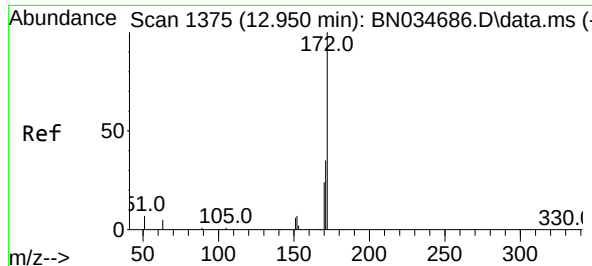
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

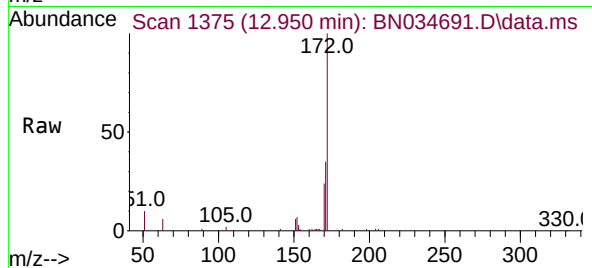
Tgt Ion:330 Resp: 1099
Ion Ratio Lower Upper
330 100
332 96.5 76.6 115.0
141 66.2 54.6 81.8





#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

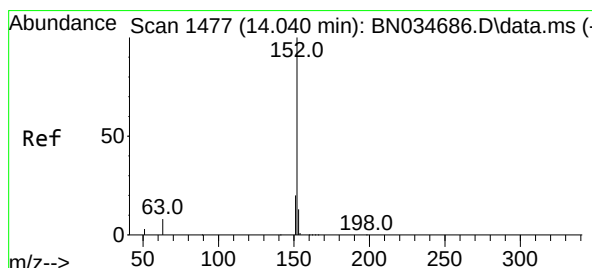
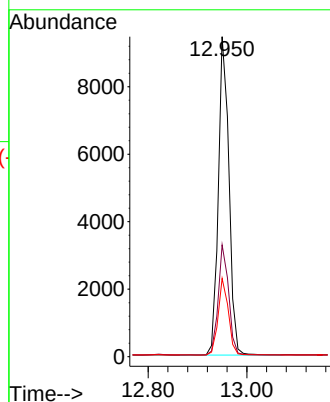
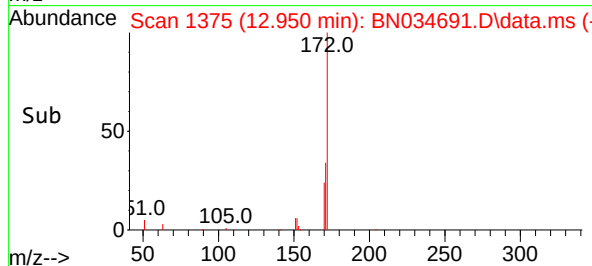
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



Tgt Ion:172 Resp: 14035
Ion Ratio Lower Upper
172 100
171 35.0 28.3 42.5
170 24.5 19.8 29.6

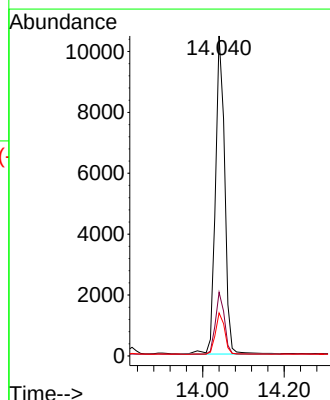
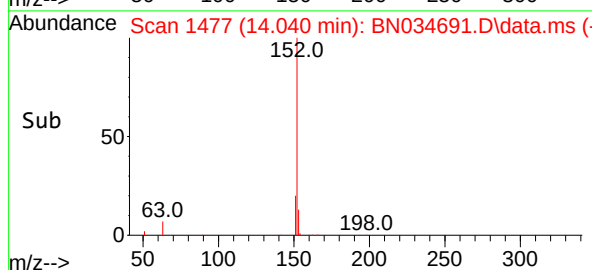
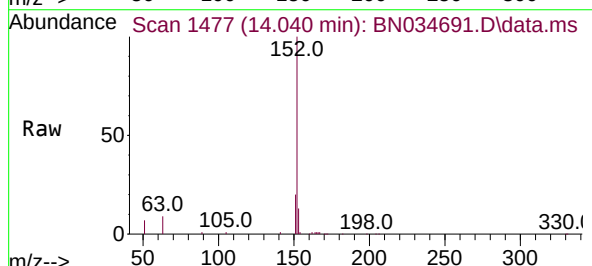
Manual Integrations
APPROVED

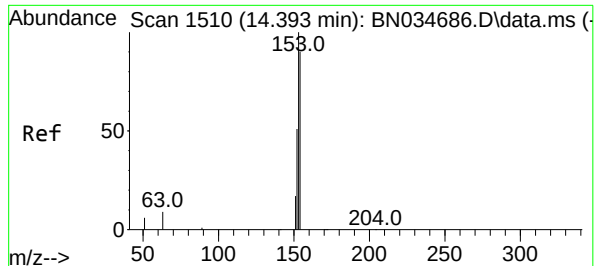
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

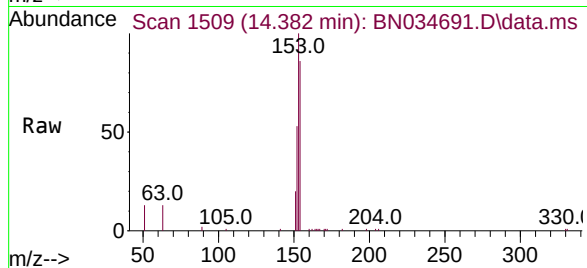
Tgt Ion:152 Resp: 16384
Ion Ratio Lower Upper
152 100
151 19.0 15.6 23.4
153 13.1 10.6 15.8





#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

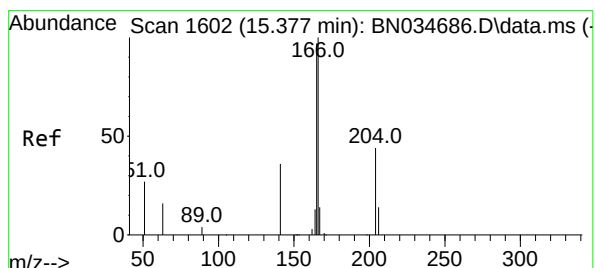
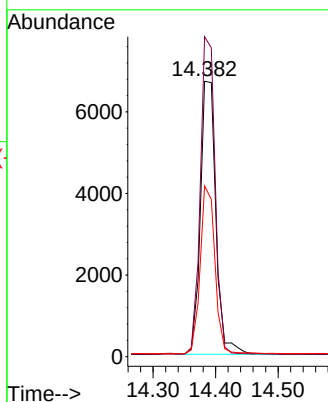
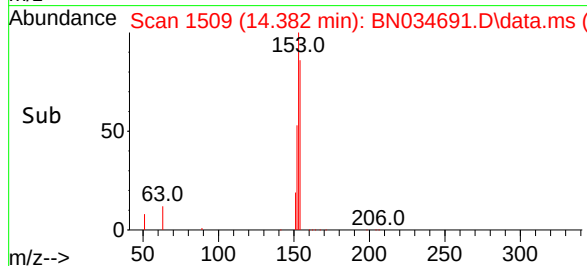
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

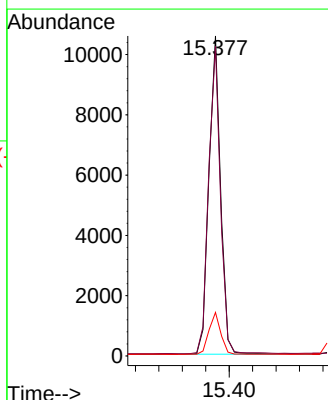
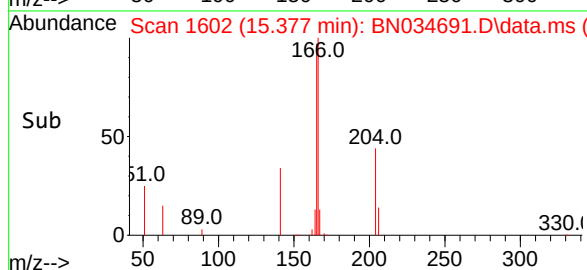
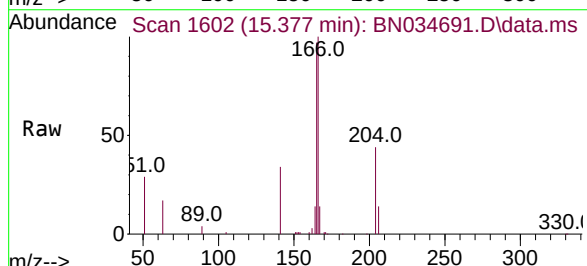
Manual Integrations
APPROVED

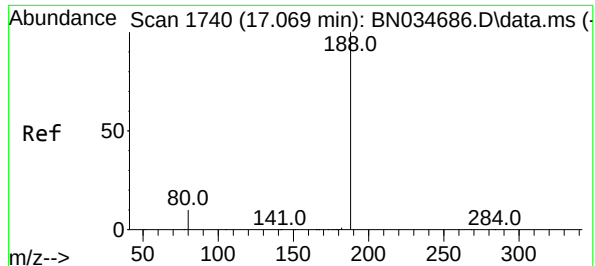
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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# 11

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

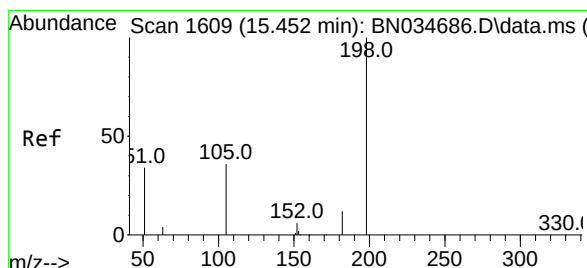
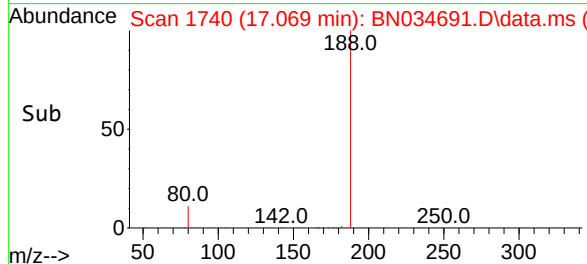
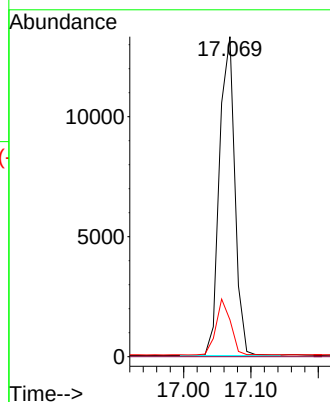
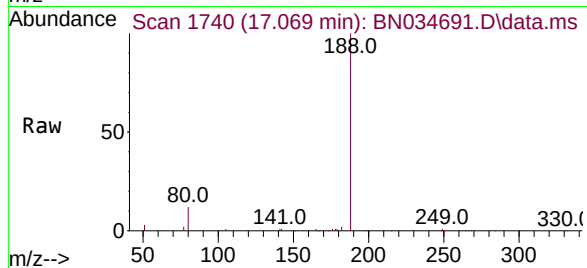
Tgt Ion:	188	Resp:	2101
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.5	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.324 ng

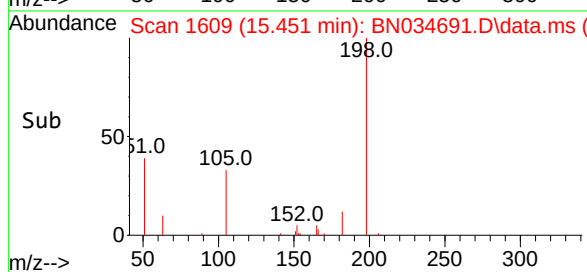
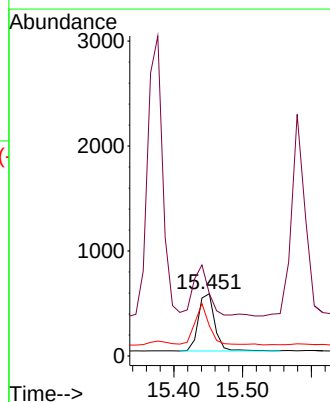
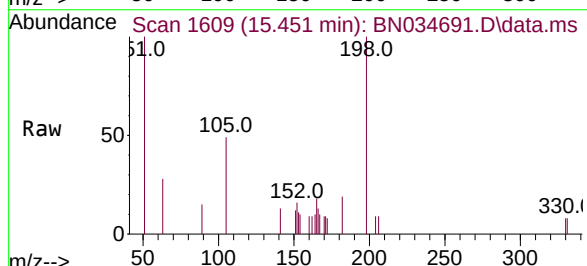
RT: 15.451 min Scan# 1609

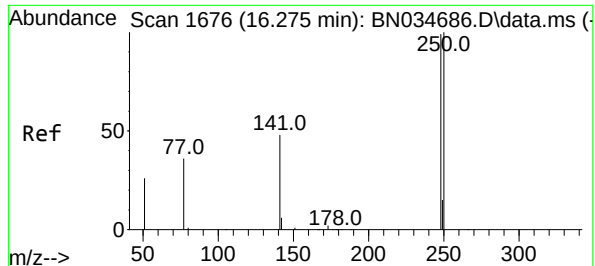
Delta R.T. -0.001 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

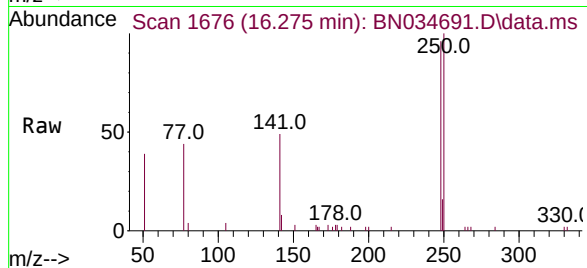
Tgt Ion:	198	Resp:	947
Ion Ratio	Lower	Upper	
198	100		
51	100.2	91.8	137.8
105	48.7	44.3	66.5





#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

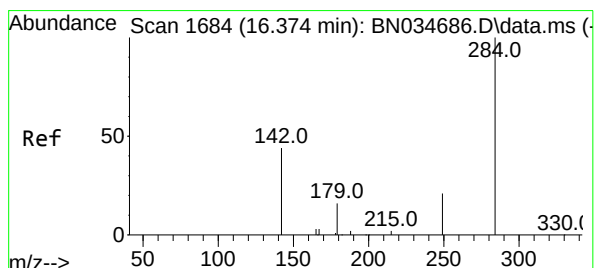
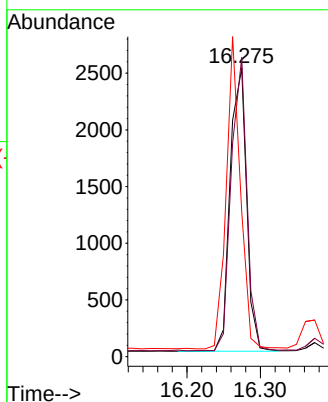
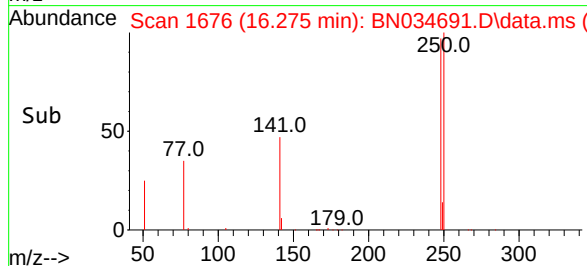
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

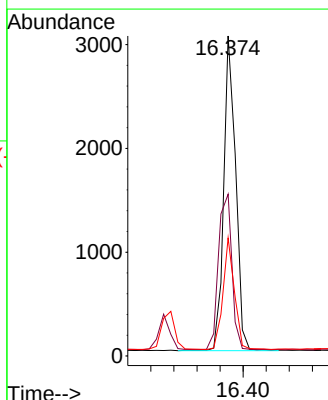
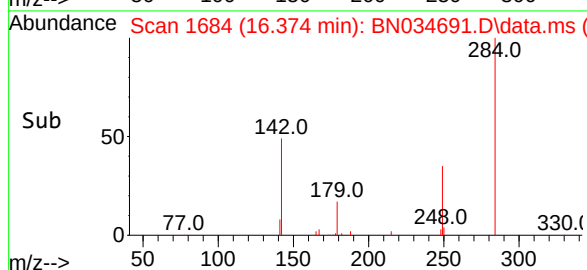
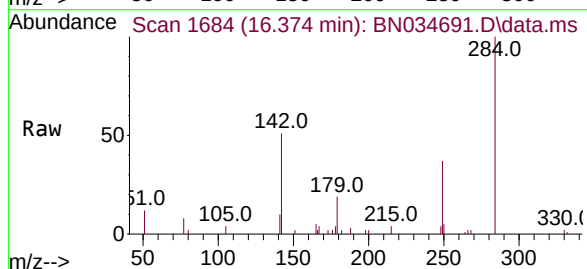
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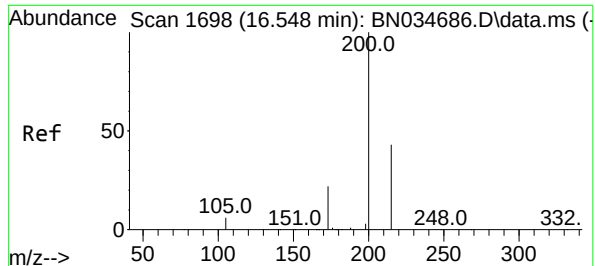
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

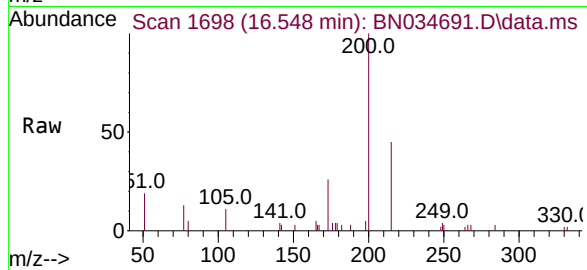
Tgt Ion:284 Resp: 4355
Ion Ratio Lower Upper
284 100
142 55.6 43.6 65.4
249 34.2 26.6 40.0





#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

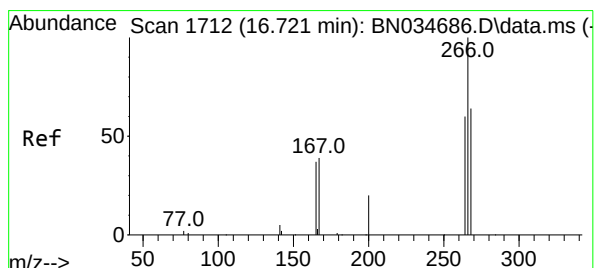
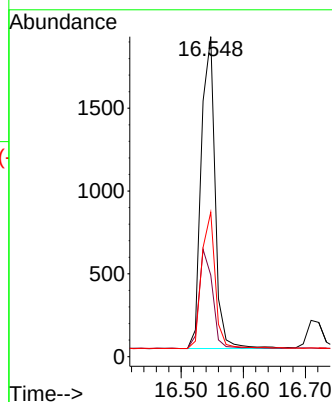
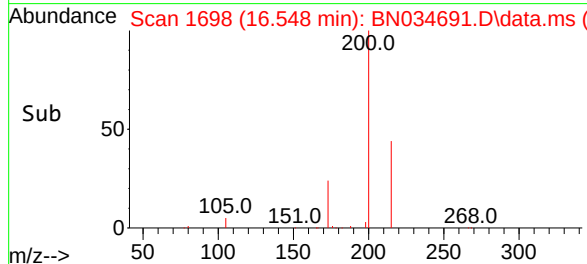
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

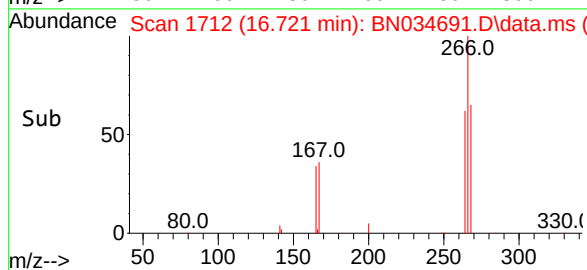
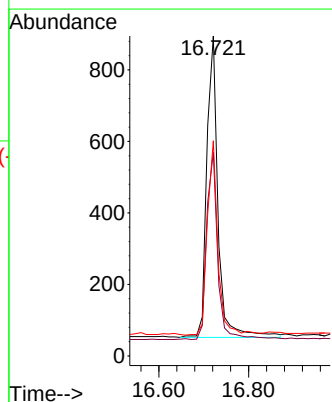
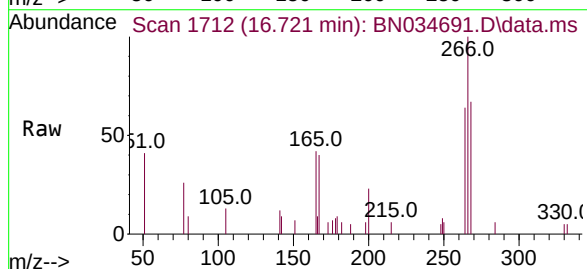
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APPROVED

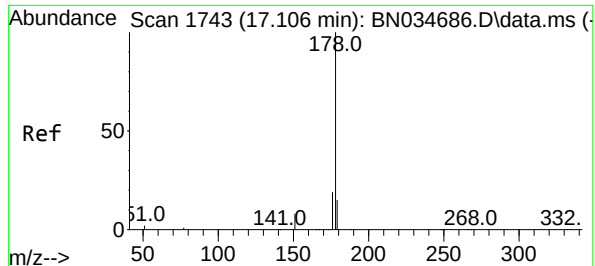
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

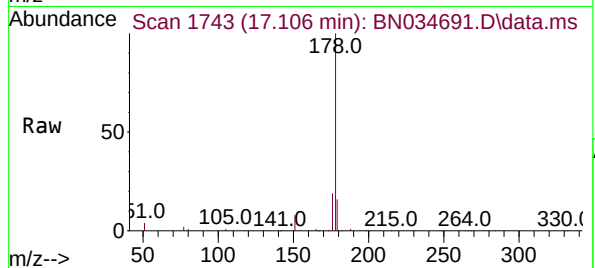
Tgt Ion:266 Resp: 1463
Ion Ratio Lower Upper
266 100
264 61.6 49.4 74.2
268 61.0 50.5 75.7





#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

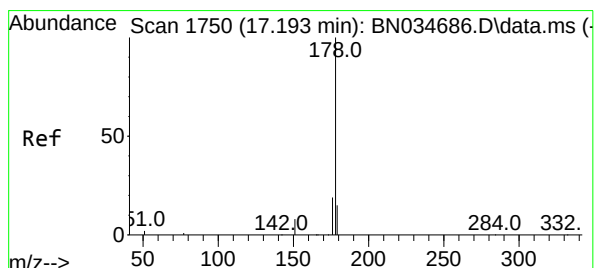
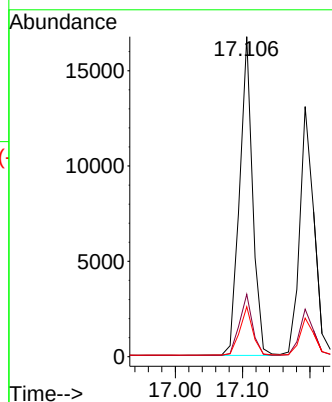
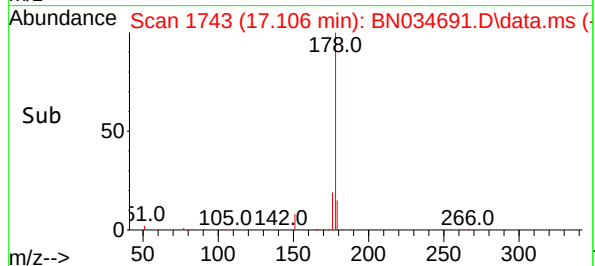
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

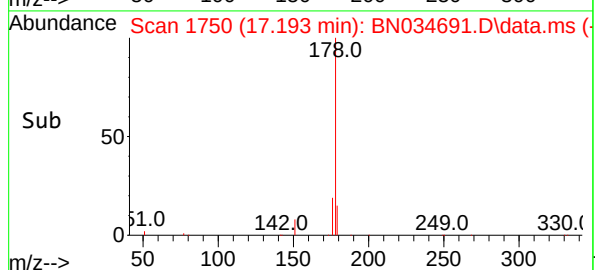
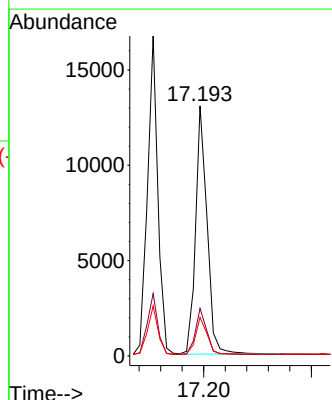
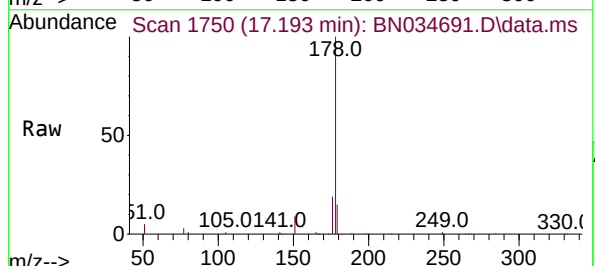
Manual Integrations
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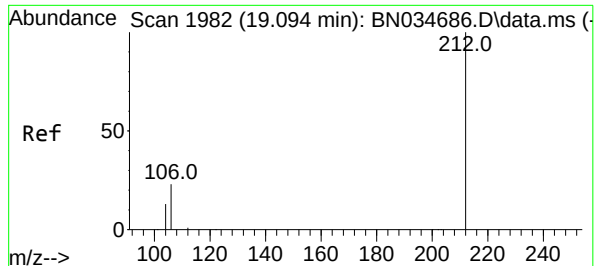
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

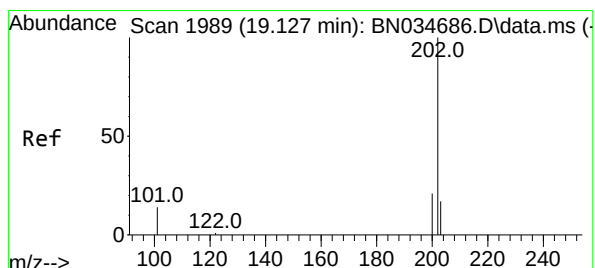
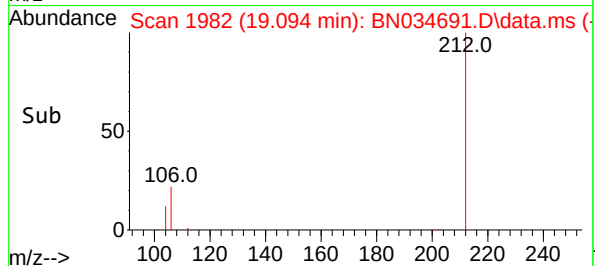
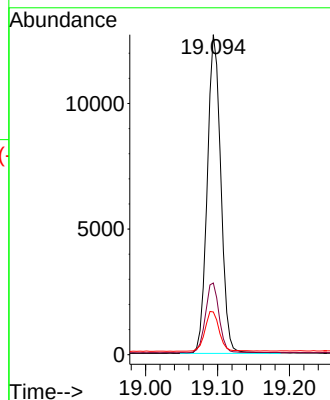
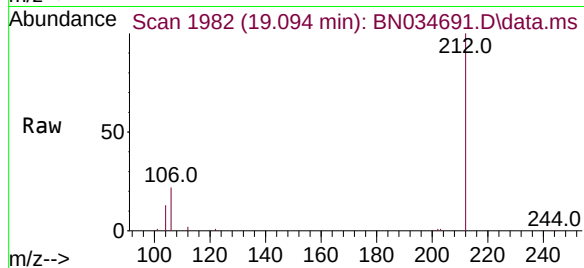
Tgt Ion:	212	Resp:	1656
Ion Ratio	Lower	Upper	
212	100		
106	22.2	17.8	26.8
104	13.1	10.2	15.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#28

Fluoranthene

Concen: 0.348 ng

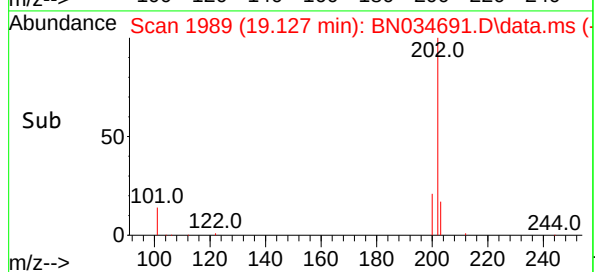
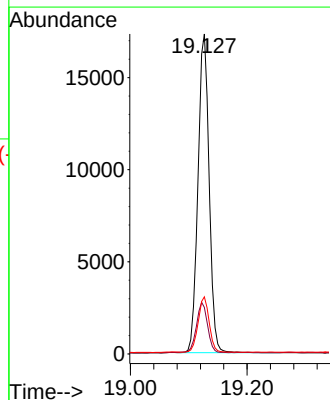
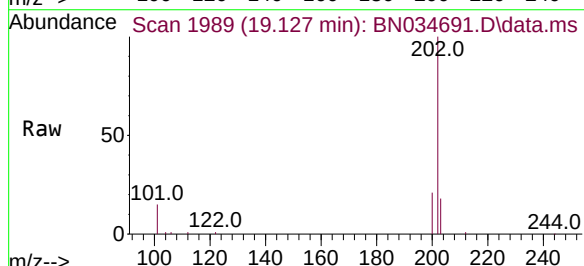
RT: 19.127 min Scan# 1989

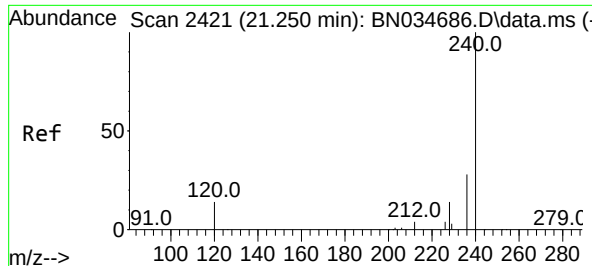
Delta R.T. -0.000 min

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

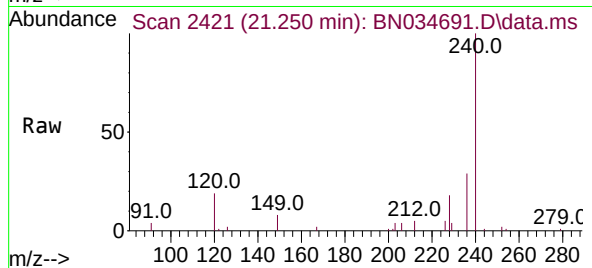
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424



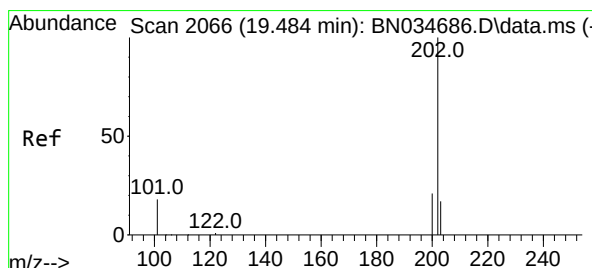
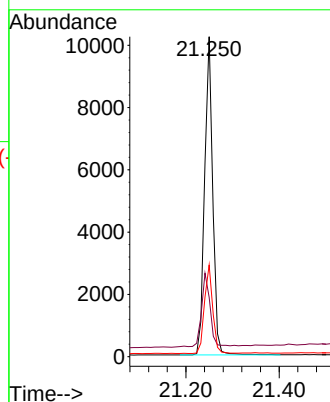
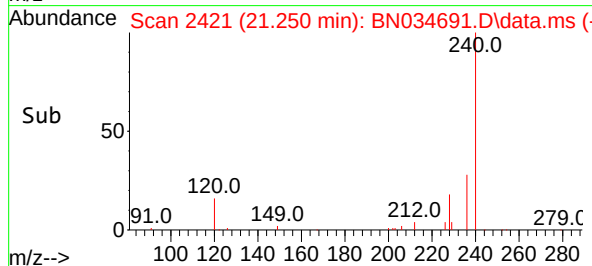
Tgt Ion:	240	Resp:	1240
Ion Ratio	Lower	Upper	
240	100		
120	18.6	14.2	21.2
236	28.6	23.1	34.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#30

Pyrene

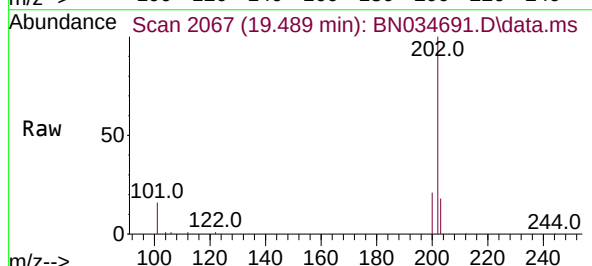
Concen: 0.366 ng

RT: 19.489 min Scan# 2067

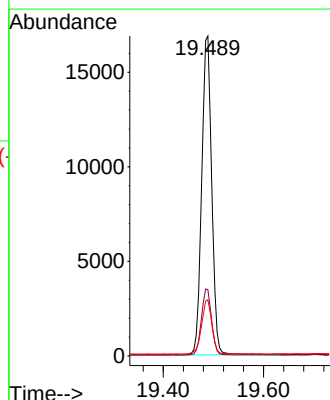
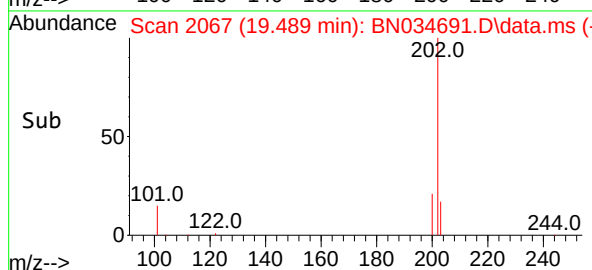
Delta R.T. 0.005 min

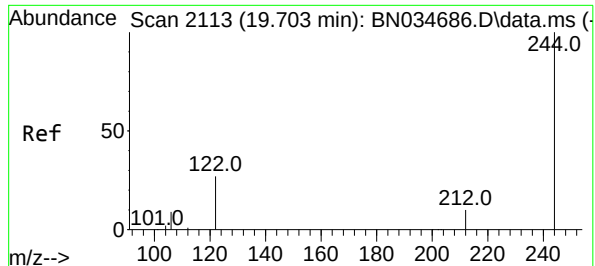
Lab File: BN034691.D

Acq: 24 Oct 2024 14:14



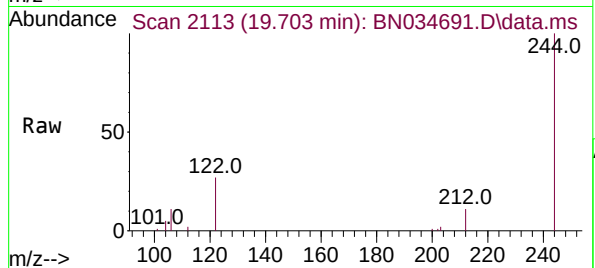
Tgt Ion:	202	Resp:	23297
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	25.0
203	17.7	14.2	21.4





#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

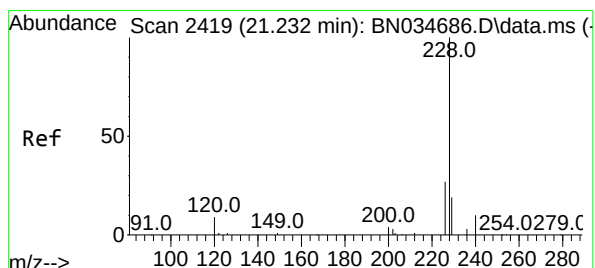
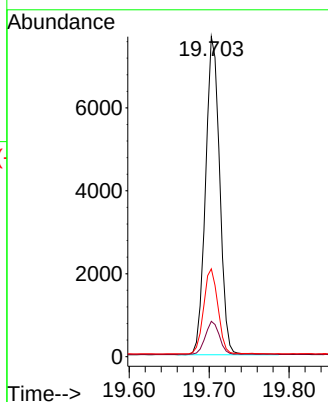
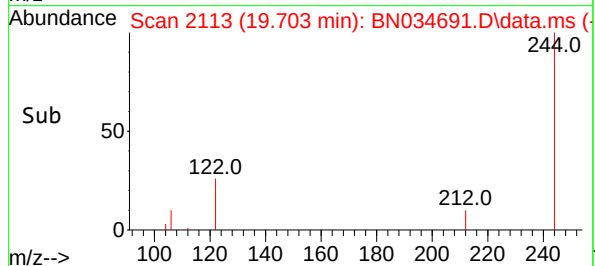
Instrument :
BNA_N
ClientSampleId :
ICVBN102424



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

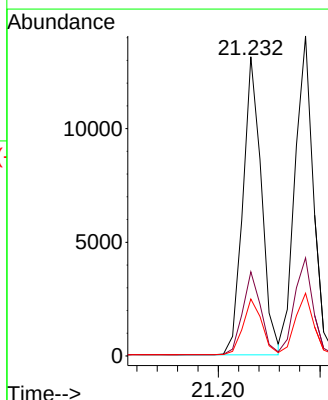
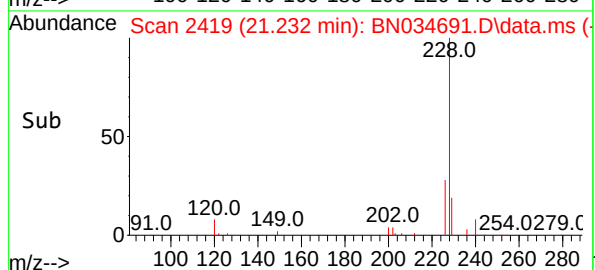
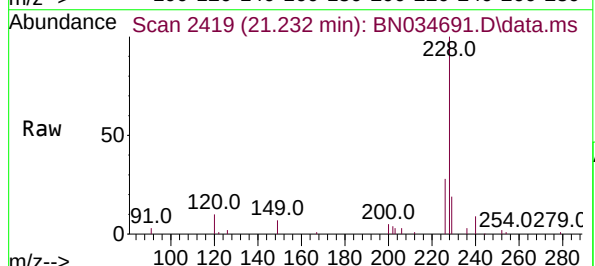
Manual Integrations
APPROVED

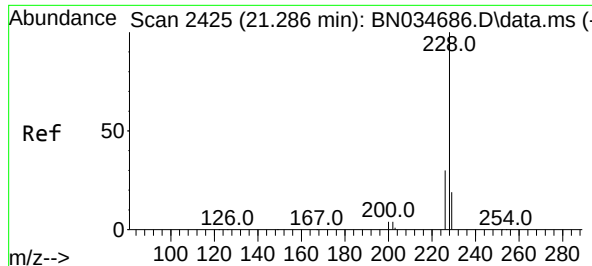
Reviewed By :Yogesh Patel 10/25/2024
Supervised By :mohammad ahmed 10/26/2024



#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

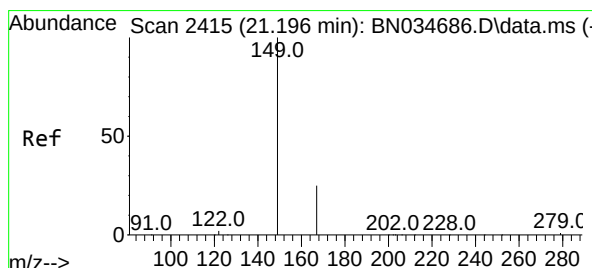
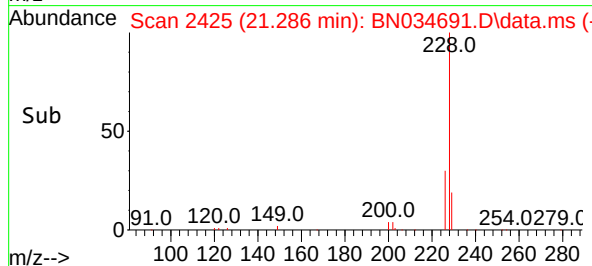
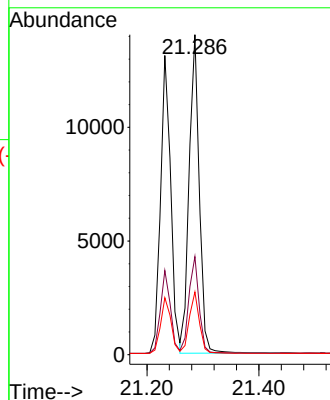
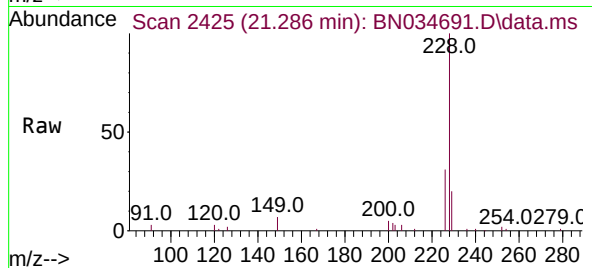
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	19.6	15.8	23.8

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

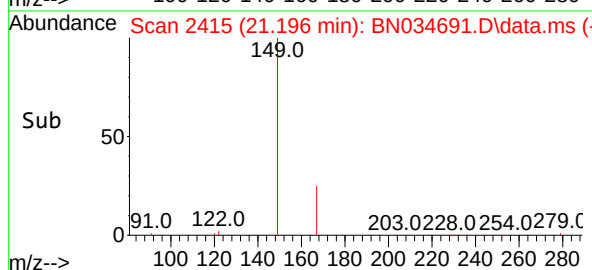
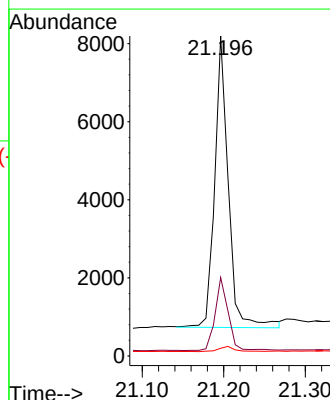
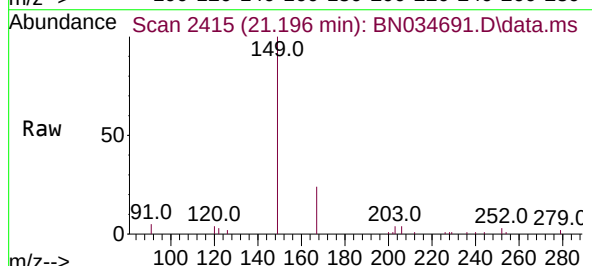
RT: 21.196 min Scan# 2415

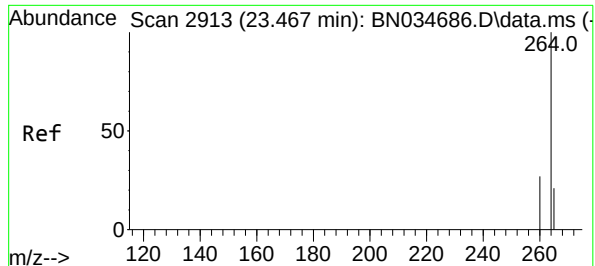
Delta R.T. 0.000 min

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

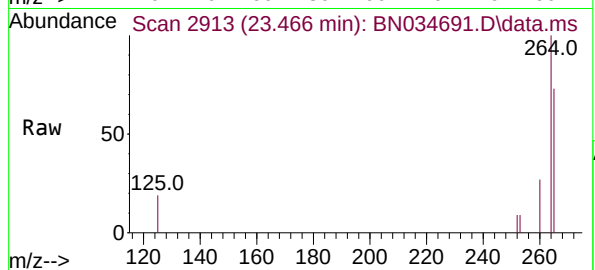
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424



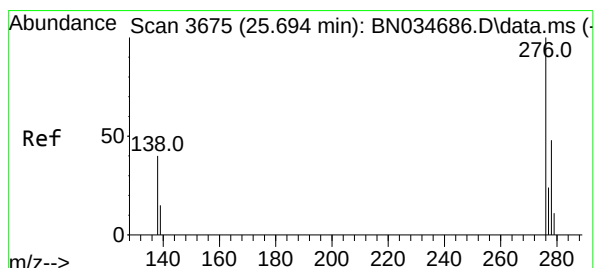
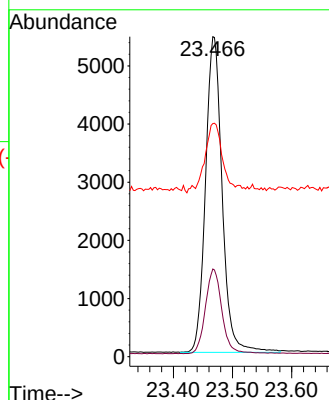
Tgt Ion:	264	Resp:	10594
Ion Ratio	Lower	Upper	
264	100		
260	27.4	21.9	32.9
265	72.9	60.6	91.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :mohammad ahmed 10/26/2024



#36

Indeno(1,2,3-cd)pyrene

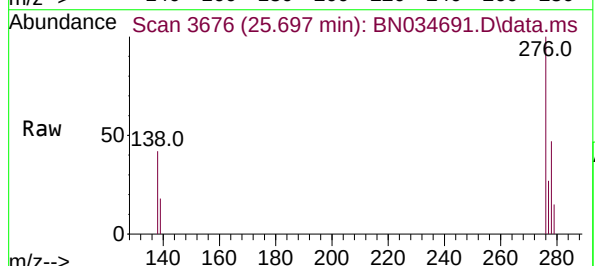
Concen: 0.347 ng

RT: 25.697 min Scan# 3676

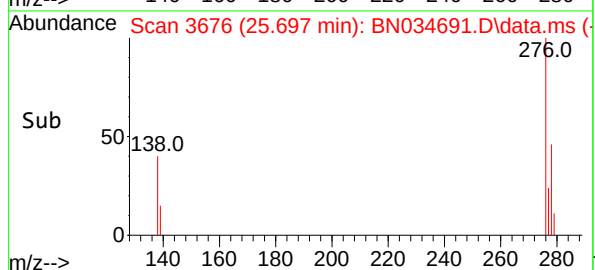
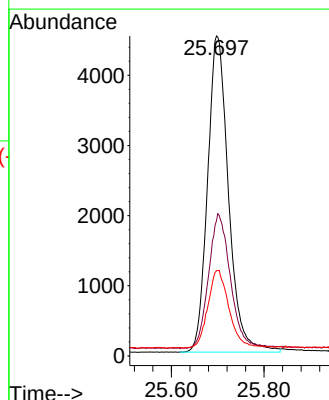
Delta R.T. 0.003 min

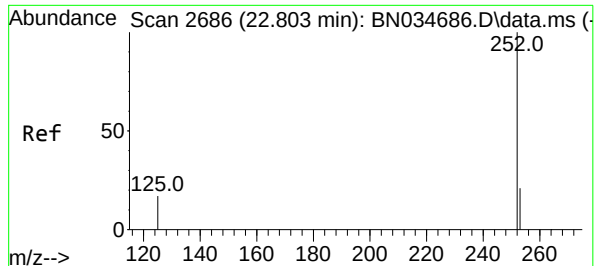
Lab File: BN034691.D

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# 2686

Delta R.T. -0.000 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

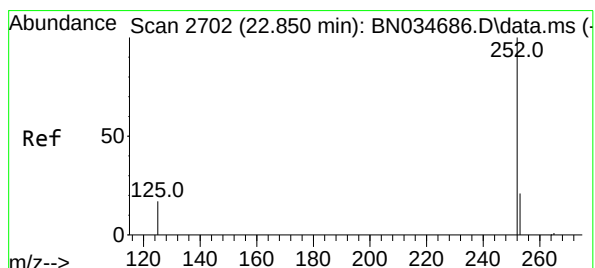
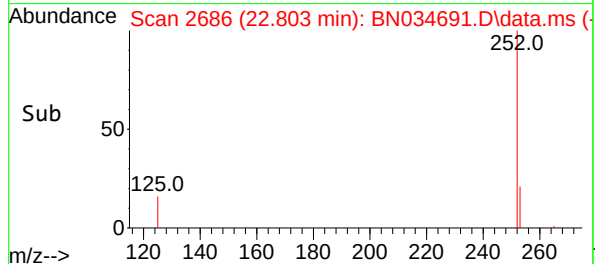
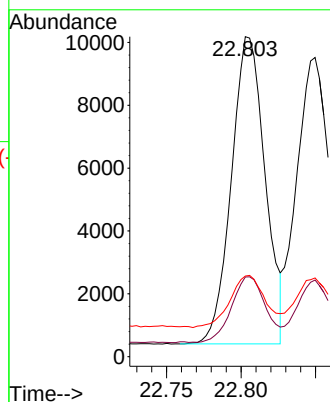
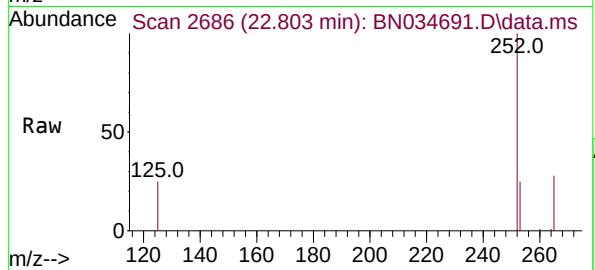
Tgt Ion:252	Resp:	15350
Ion Ratio	Lower	Upper
252	100	
253	24.9	20.0 30.0
125	25.2	20.9 31.3

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

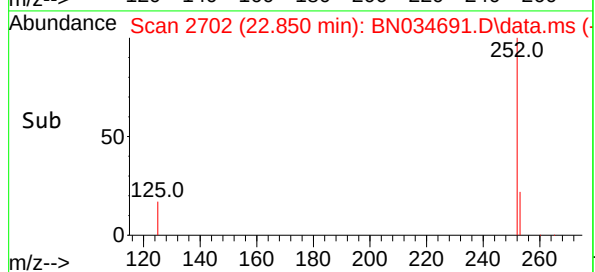
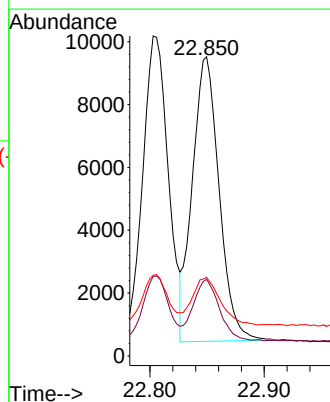
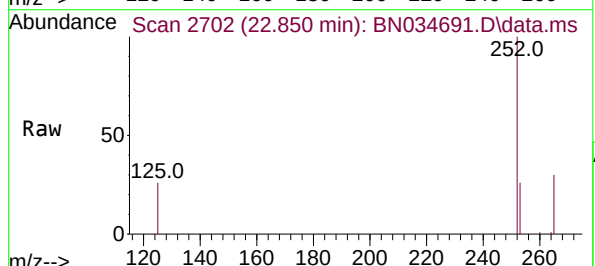
RT: 22.850 min Scan# 2702

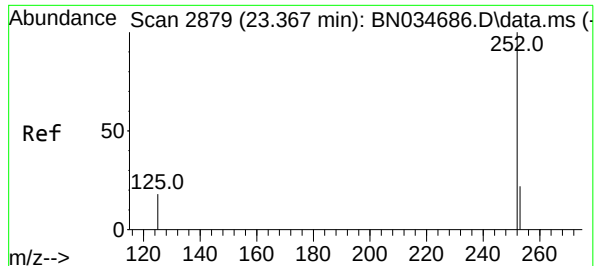
Delta R.T. -0.000 min

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# 2881

Delta R.T. 0.006 min

Lab File: BN034691.D

Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424

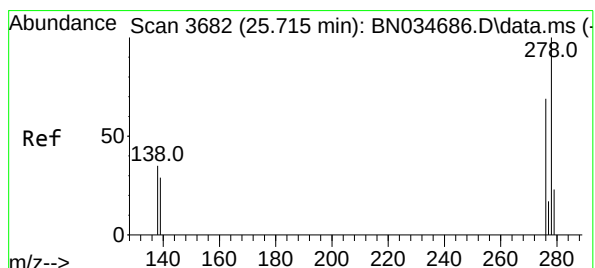
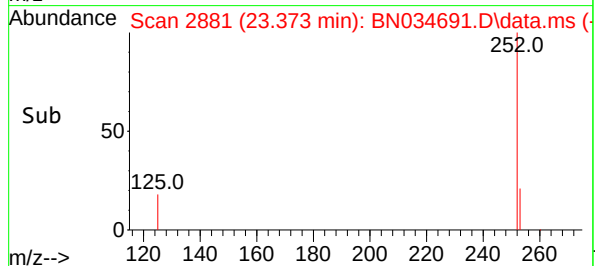
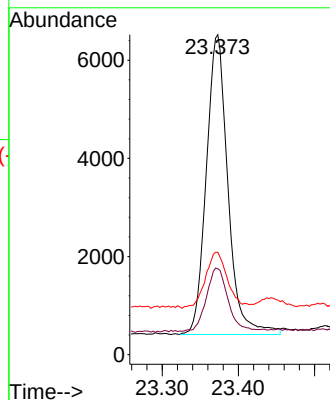
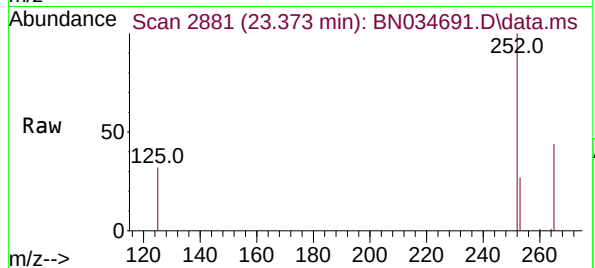
Tgt Ion:	252	Resp:	12054
Ion Ratio	Lower	Upper	
252	100		
253	26.9	22.2	33.4
125	32.0	26.0	39.0

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

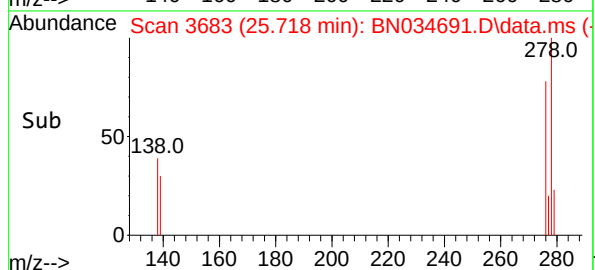
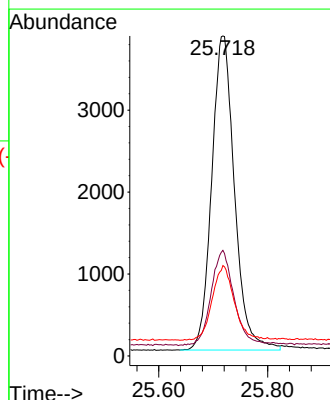
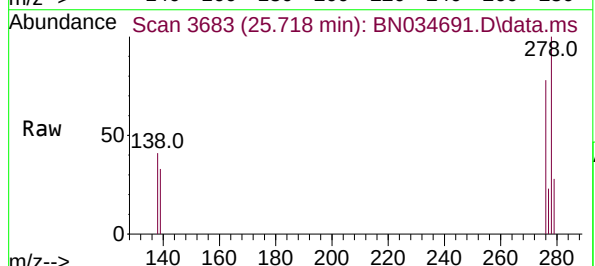
RT: 25.718 min Scan# 3683

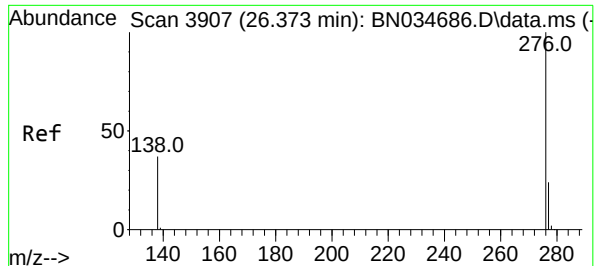
Delta R.T. 0.003 min

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

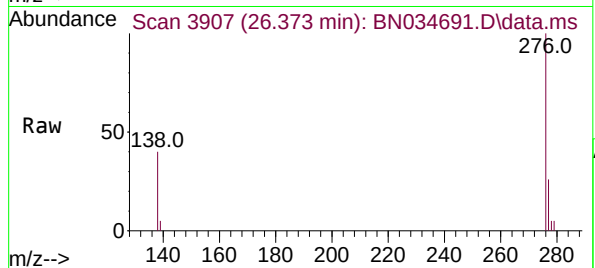
Acq: 24 Oct 2024 14:14

Instrument :

BNA_N

ClientSampleId :

ICVBN102424



Tgt Ion:276 Resp: 12570

Ion Ratio Lower Upper

276 100

277 25.5 21.3 31.9

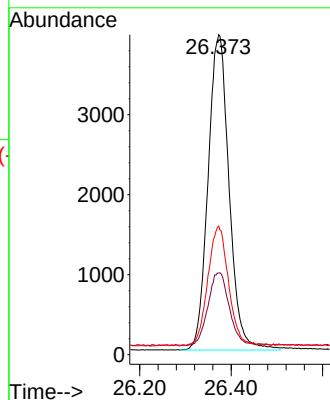
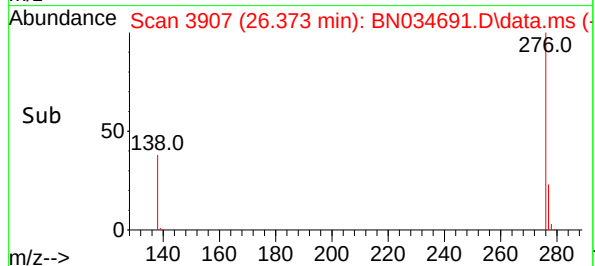
138 40.2 31.9 47.9

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 :
 ICBN102424

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.: P4428 SAS No.: P4428 SDG No.: P4428

Instrument ID: BNA_N Calibration Date/Time: 10/24/2024 19:06

Lab File ID: BN034699.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	0.482		-12.4	50.0
Fluoranthene-d10	0.901	0.776		-13.9	50.0
2-Fluorophenol	1.189	1.225		3.0	50.0
Phenol-d6	1.568	1.669		6.4	50.0
Nitrobenzene-d5	0.336	0.294		-12.5	50.0
2-Fluorobiphenyl	1.590	1.420		-10.7	50.0
2,4,6-Tribromophenol	0.124	0.099		-20.2	50.0
Terphenyl-d14	0.817	0.703		-14.0	50.0
1,4-Dioxane	0.532	0.488		-8.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034699.D
 Acq On : 24 Oct 2024 19:06
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 25 02:07:09 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)

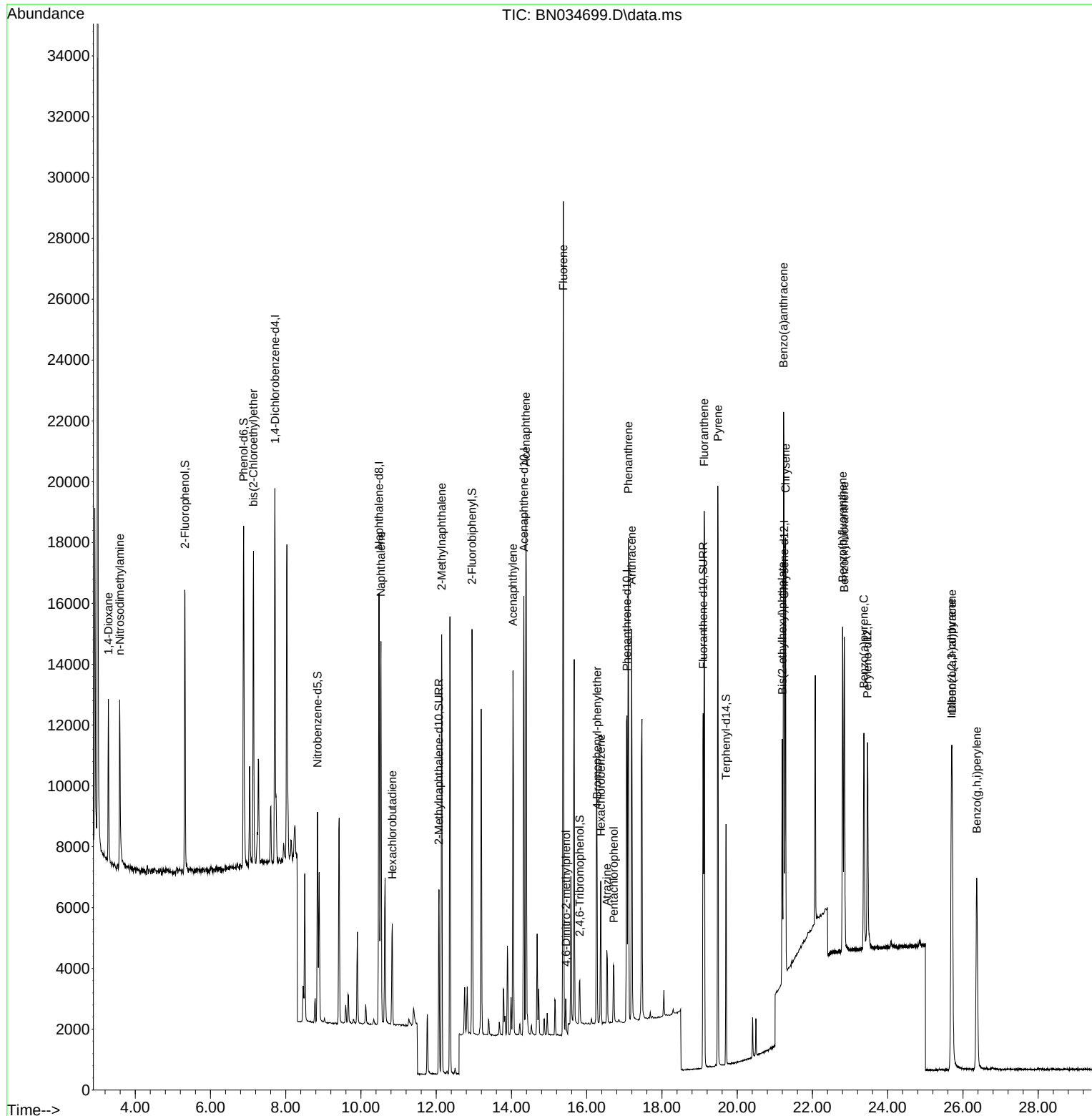
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5743	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	16900	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	8032	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	14768	0.400	ng	0.00
29) Chrysene-d12	21.250	240	9057	0.400	ng	0.00
35) Perylene-d12	23.464	264	8731	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	7034	0.412	ng	0.00
5) Phenol-d6	6.882	99	9585	0.426	ng	0.00
8) Nitrobenzene-d5	8.845	82	4975	0.351	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	8144	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	793	0.319	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	11408	0.357	ng	0.00
27) Fluoranthene-d10	19.094	212	11464	0.345	ng	0.00
31) Terphenyl-d14	19.703	244	6367	0.344	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.285	88	2803	0.367	ng	99
3) n-Nitrosodimethylamine	3.588	42	4132	0.371	ng	97
6) bis(2-Chloroethyl)ether	7.142	93	6741	0.369	ng	100
9) Naphthalene	10.532	128	16841	0.360	ng	100
10) Hexachlorobutadiene	10.831	225	2575	0.367	ng	# 98
12) 2-Methylnaphthalene	12.143	142	10174	0.351	ng	99
16) Acenaphthylene	14.040	152	12799	0.332	ng	99
17) Acenaphthene	14.382	154	8953	0.337	ng	99
18) Fluorene	15.377	166	10689	0.326	ng	100
20) 4,6-Dinitro-2-methylph...	15.452	198	675	0.328	ng	94
21) 4-Bromophenyl-phenylether	16.275	248	2760	0.350	ng	96
22) Hexachlorobenzene	16.374	284	3063	0.359	ng	99
23) Atrazine	16.535	200	2060	0.333	ng	# 88
24) Pentachlorophenol	16.721	266	966	0.320	ng	97
25) Phenanthrene	17.106	178	15509	0.350	ng	100
26) Anthracene	17.193	178	13258	0.337	ng	100
28) Fluoranthene	19.122	202	15870	0.343	ng	100
30) Pyrene	19.484	202	16067	0.345	ng	100
32) Benzo(a)anthracene	21.232	228	12347	0.357	ng	100
33) Chrysene	21.286	228	13067	0.365	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	7302	0.372	ng	99
36) Indeno(1,2,3-cd)pyrene	25.694	276	12651	0.376	ng	98
37) Benzo(b)fluoranthene	22.803	252	12459	0.357	ng	97
38) Benzo(k)fluoranthene	22.844	252	12307	0.358	ng	98
39) Benzo(a)pyrene	23.367	252	9981	0.357	ng	97
40) Dibenzo(a,h)anthracene	25.709	278	10035	0.378	ng	98
41) Benzo(g,h,i)perylene	26.367	276	11251	0.385	ng	99

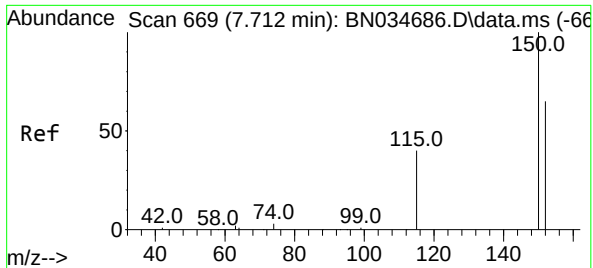
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034699.D
Acq On : 24 Oct 2024 19:06
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Oct 25 02:07:09 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

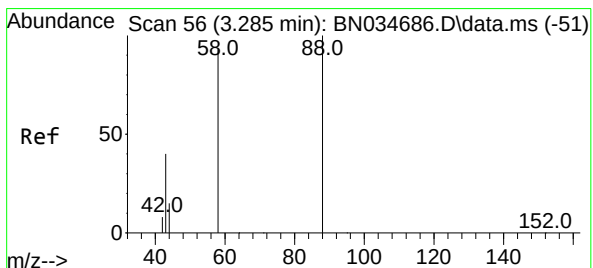
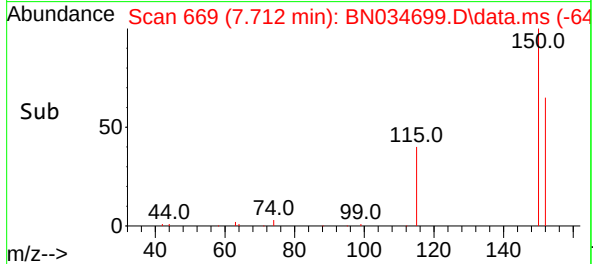
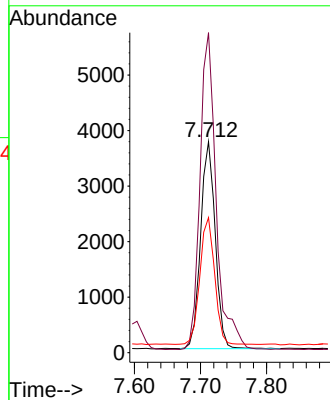
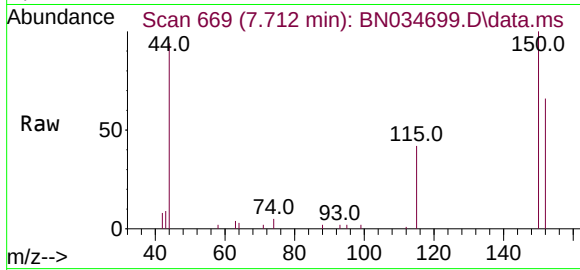




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

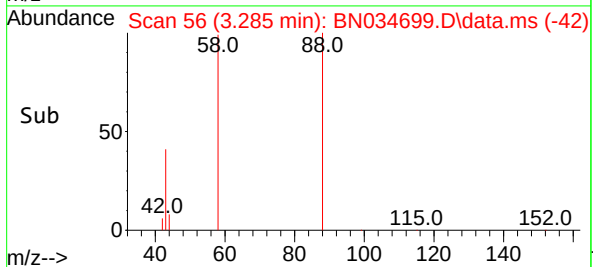
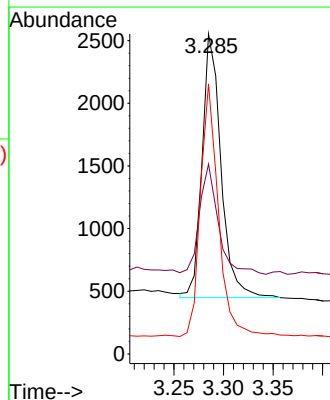
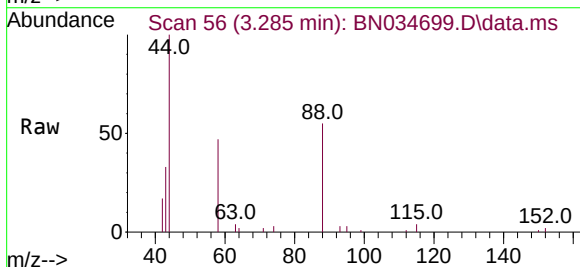
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5743
Ion Ratio Lower Upper
152 100
150 151.7 122.7 184.1
115 64.0 51.0 76.6

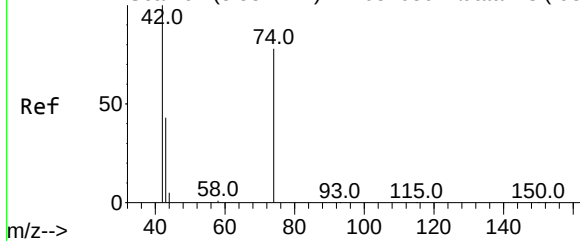


#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion: 88 Resp: 2803
Ion Ratio Lower Upper
88 100
43 41.3 32.1 48.1
58 91.1 73.7 110.5



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



#3

n-Nitrosodimethylamine

Concen: 0.371 ng

RT: 3.588 min Scan# 91

Delta R.T. 0.007 min

Lab File: BN034699.D

Acq: 24 Oct 2024 19:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4132

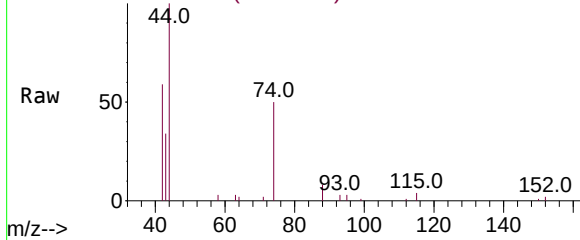
Ion Ratio Lower Upper

42 100

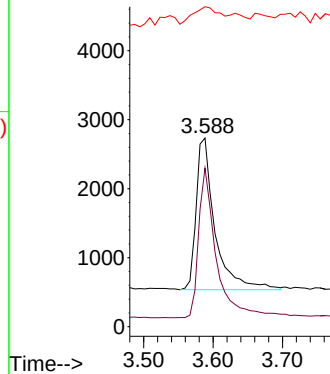
74 93.1 77.2 115.8

44 15.9 13.4 20.2

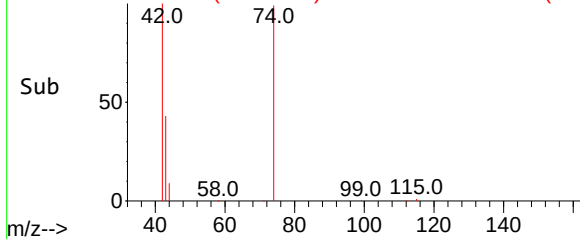
Abundance Scan 98 (3.588 min): BN034699.D\data.ms



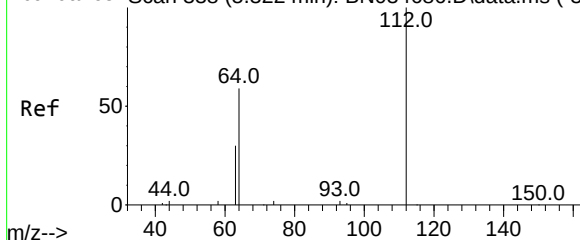
Abundance



Abundance Scan 98 (3.588 min): BN034699.D\data.ms (-76)



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



#4

2-Fluorophenol

Concen: 0.412 ng

RT: 5.322 min Scan# 338

Delta R.T. 0.000 min

Lab File: BN034699.D

Acq: 24 Oct 2024 19:06

Tgt Ion: 112 Resp: 7034

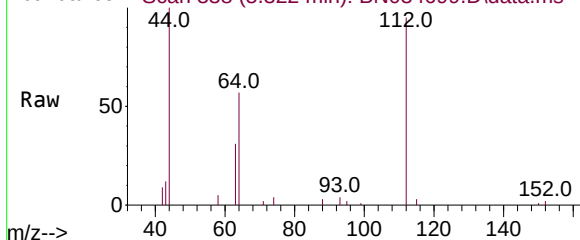
Ion Ratio Lower Upper

112 100

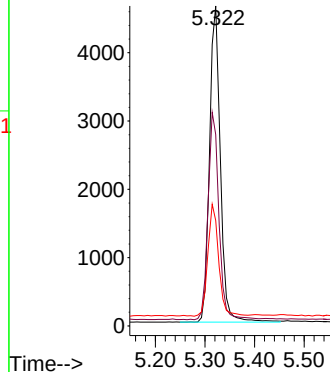
64 65.8 53.0 79.6

63 35.3 27.6 41.4

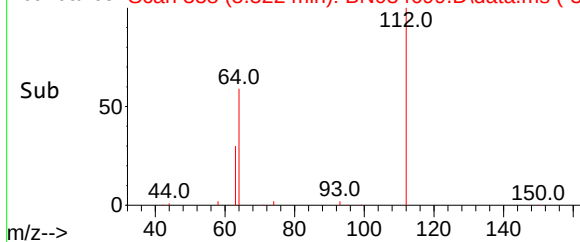
Abundance Scan 338 (5.322 min): BN034699.D\data.ms

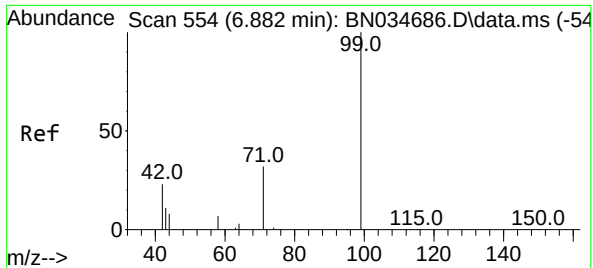


Abundance



Abundance Scan 338 (5.322 min): BN034699.D\data.ms (-31)

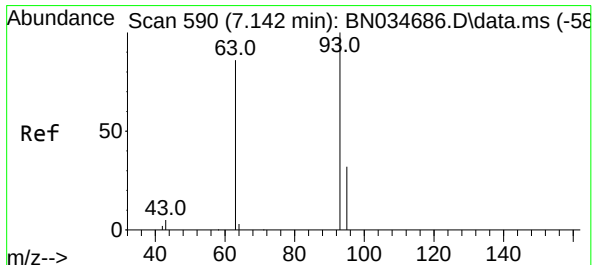
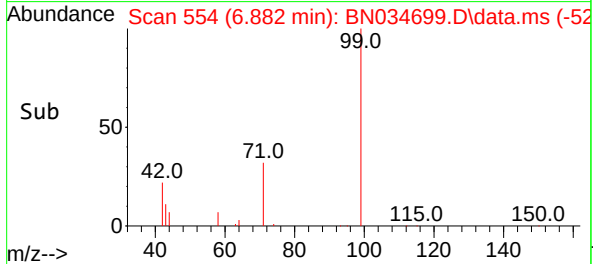
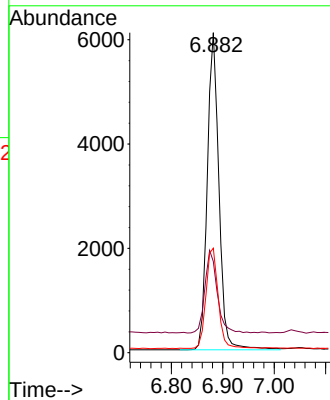
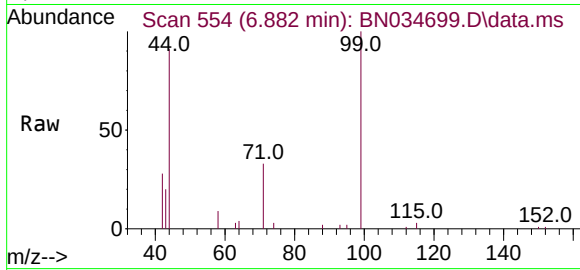




#5
Phenol-d6
Concen: 0.426 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

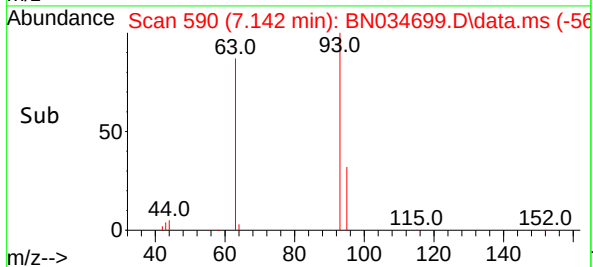
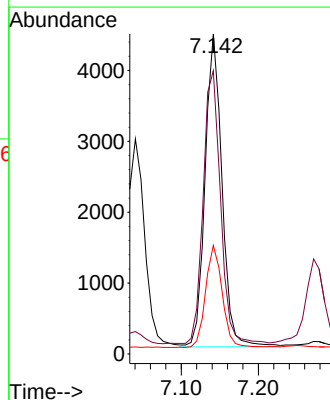
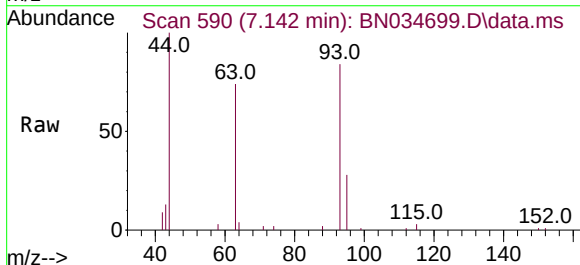
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

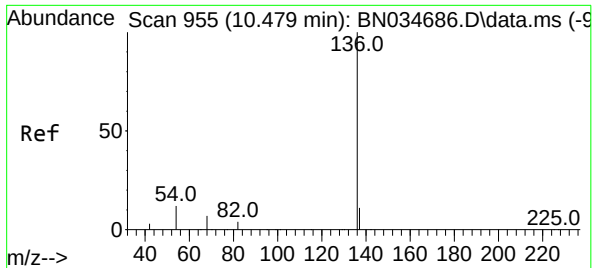
Tgt Ion: 99 Resp: 9585
Ion Ratio Lower Upper
99 100
42 27.7 21.8 32.8
71 33.2 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion: 93 Resp: 6741
Ion Ratio Lower Upper
93 100
63 89.3 71.5 107.3
95 32.1 25.8 38.6

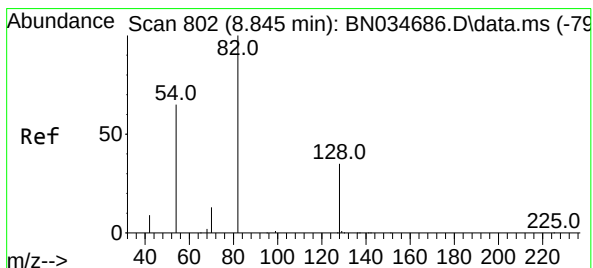
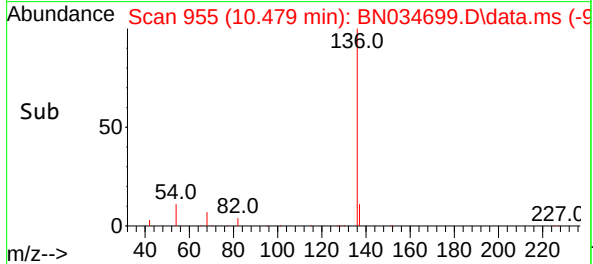
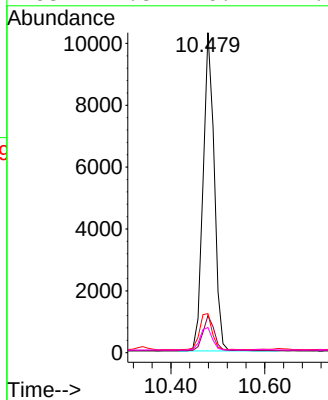
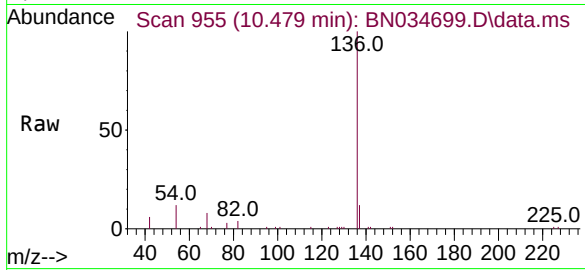




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

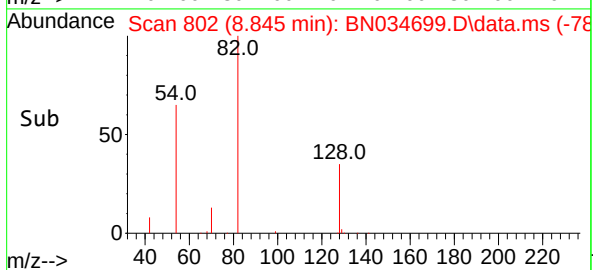
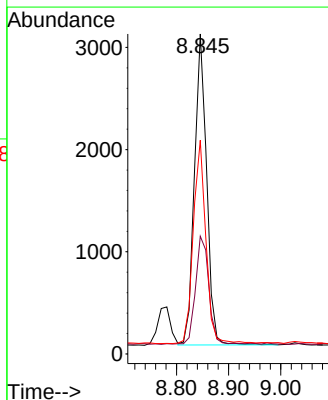
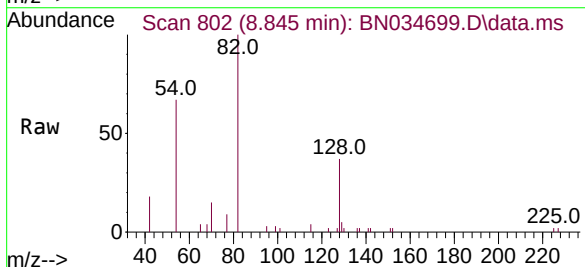
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

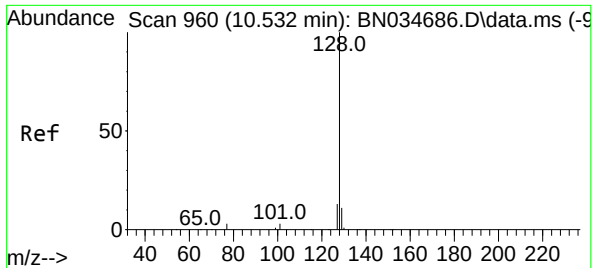
Tgt Ion	136	Resp	16900
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	12.2	9.8	14.8
68	7.8	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.351 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion	82	Resp	4975
Ion Ratio	Lower	Upper	
82	100		
128	36.8	29.7	44.5
54	66.8	53.0	79.6

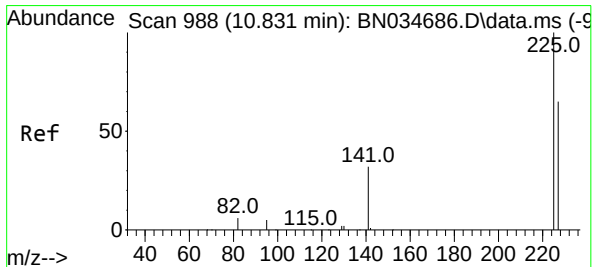
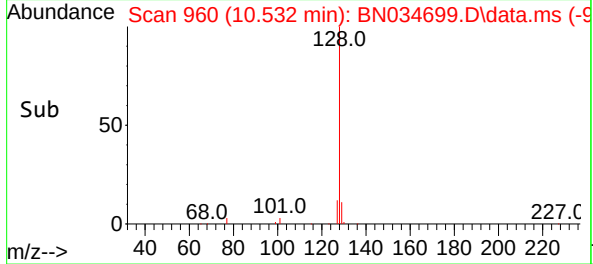
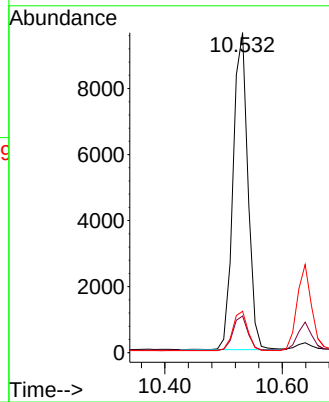
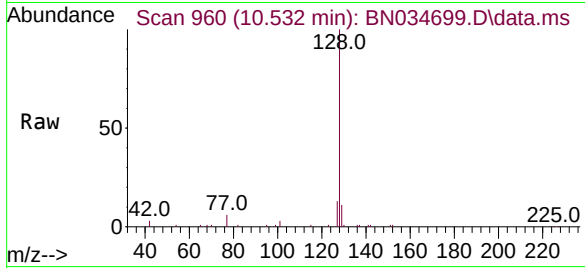




#9
Naphthalene
Concen: 0.360 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

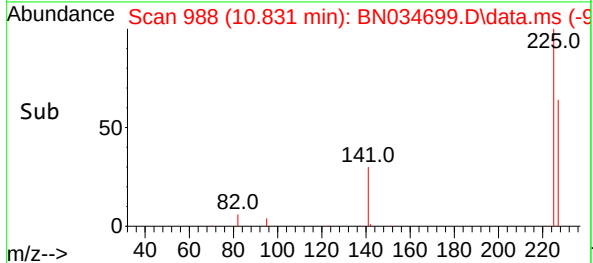
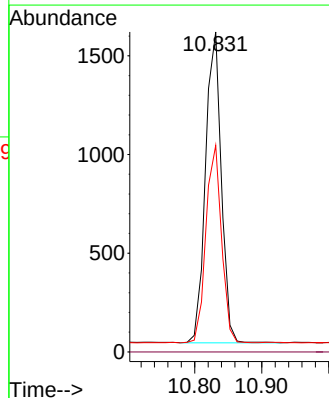
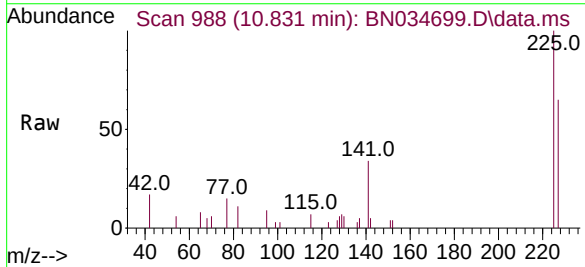
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

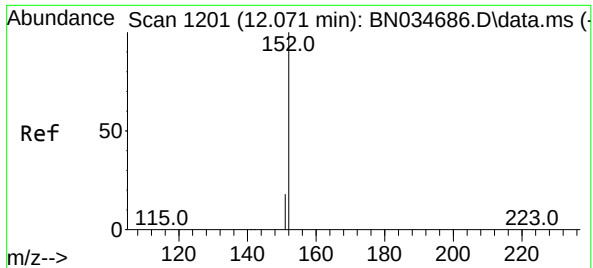
Tgt Ion:128 Resp: 16841
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 13.0 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.367 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:225 Resp: 2575
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 51.4 77.0

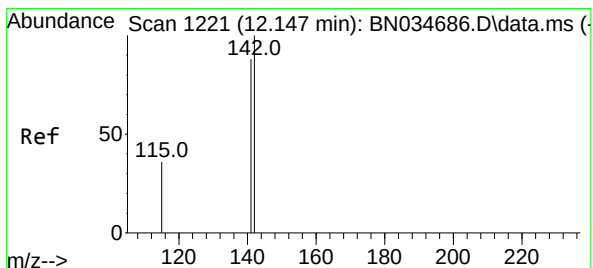
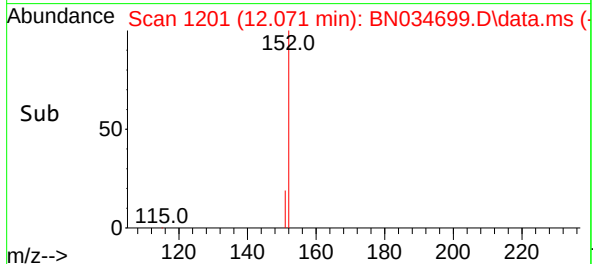
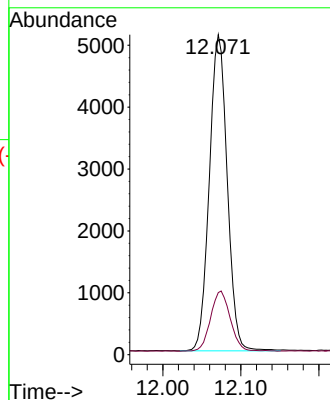
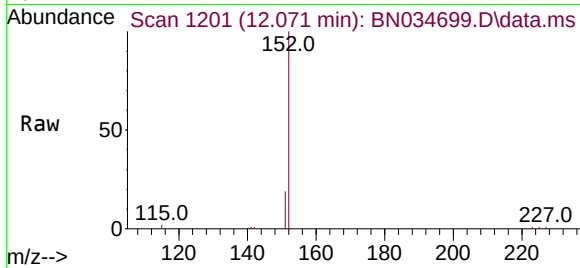




#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

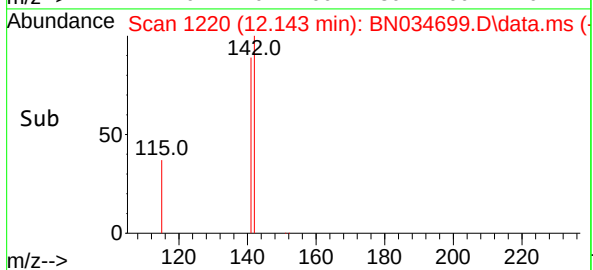
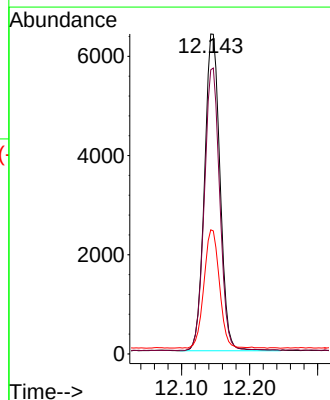
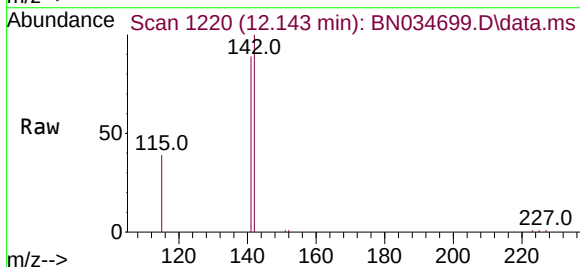
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

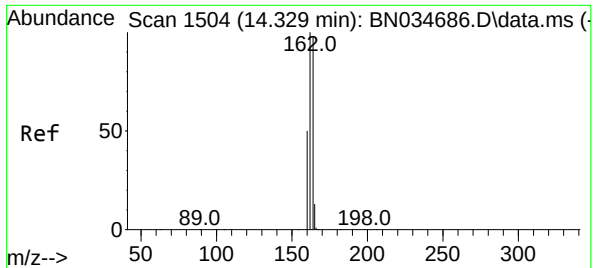
Tgt Ion:152 Resp: 8144
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.351 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:142 Resp: 10174
Ion Ratio Lower Upper
142 100
141 88.8 70.4 105.6
115 38.8 29.8 44.6

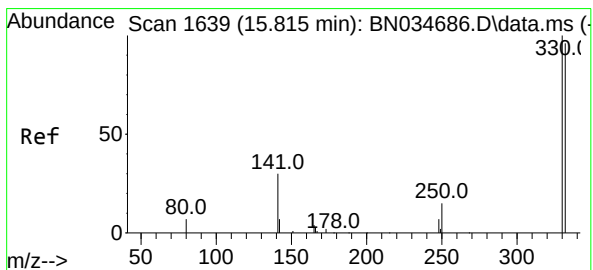
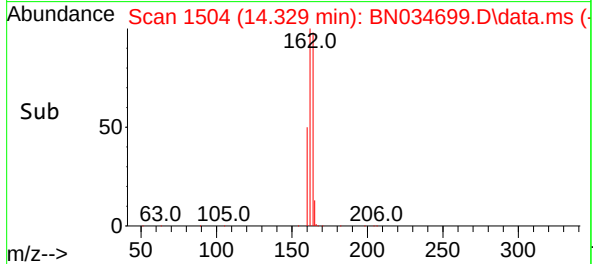
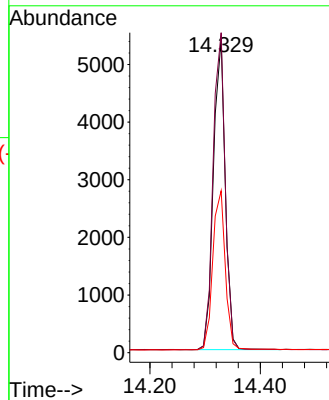
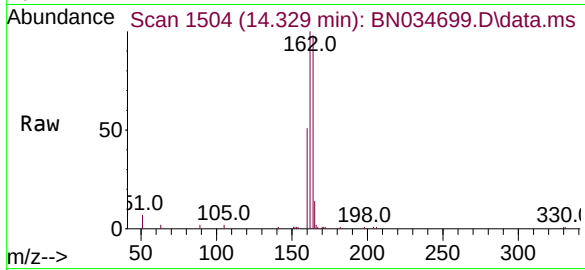




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

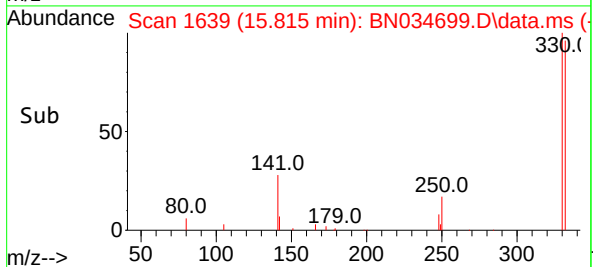
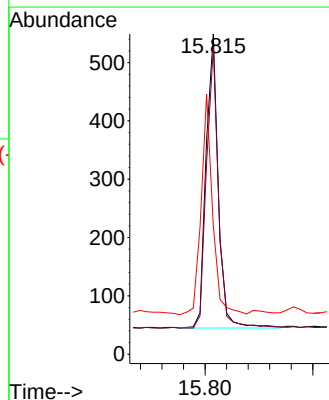
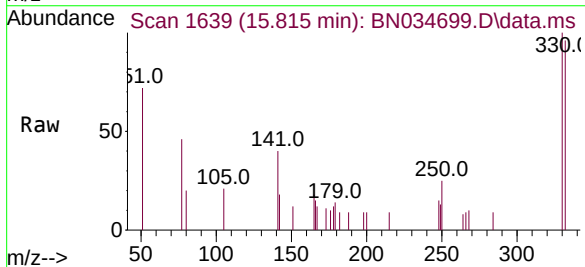
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

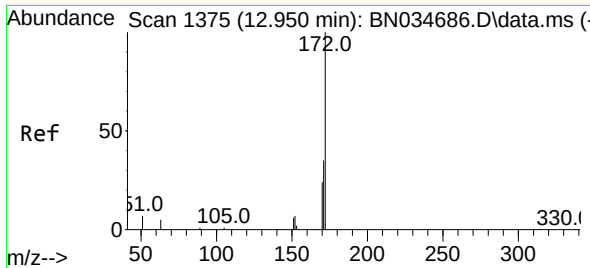
Tgt Ion:164 Resp: 8032
Ion Ratio Lower Upper
164 100
162 102.0 81.4 122.0
160 51.6 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:330 Resp: 793
Ion Ratio Lower Upper
330 100
332 93.6 76.6 115.0
141 70.1 54.6 81.8

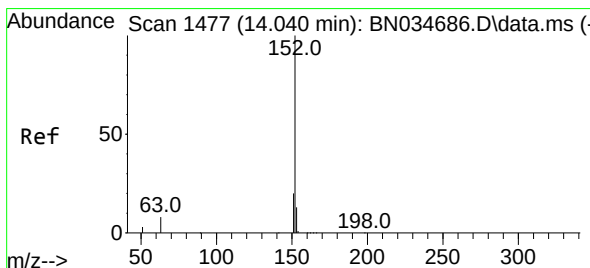
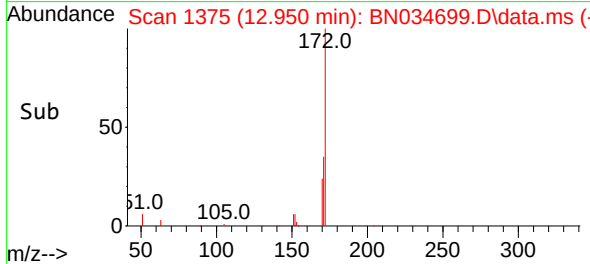
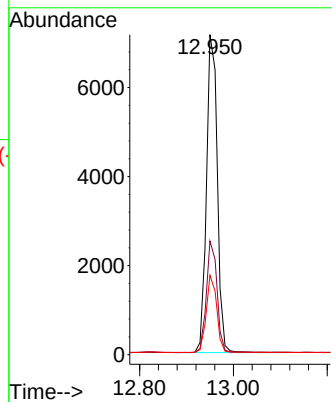
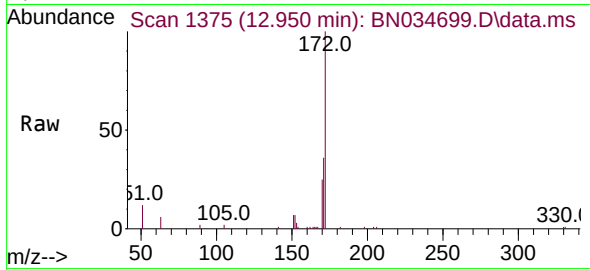




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.950 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

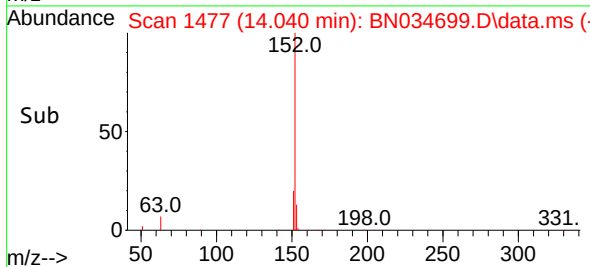
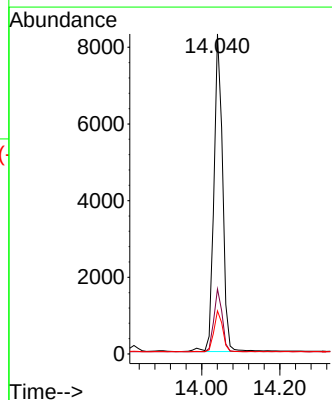
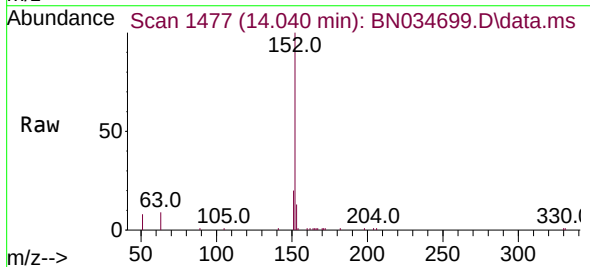
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

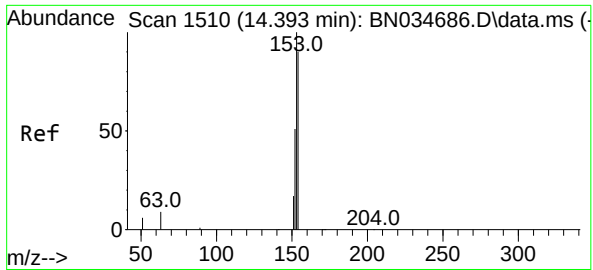
Tgt Ion:	172	Resp:	11408
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.3	42.5
170	24.8	19.8	29.6



#16
Acenaphthylene
Concen: 0.332 ng
RT: 14.040 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:	152	Resp:	12799
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.6	23.4
153	12.9	10.6	15.8

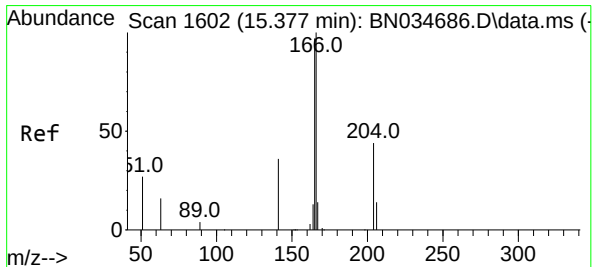
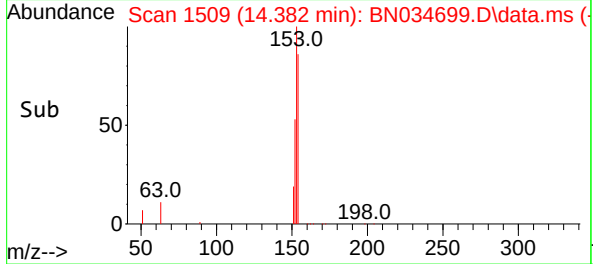
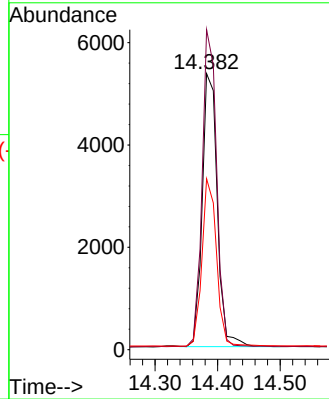
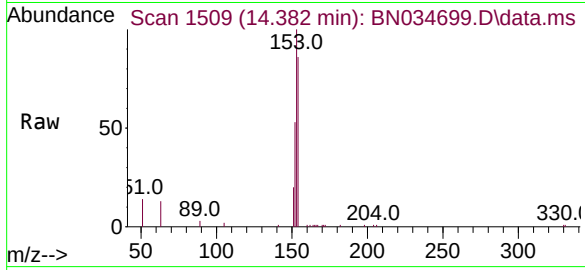




#17
Acenaphthene
Concen: 0.337 ng
RT: 14.382 min Scan# 1510
Delta R.T. -0.011 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

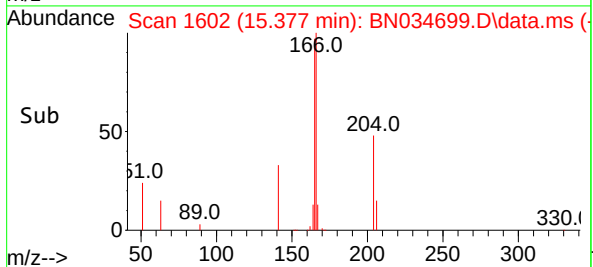
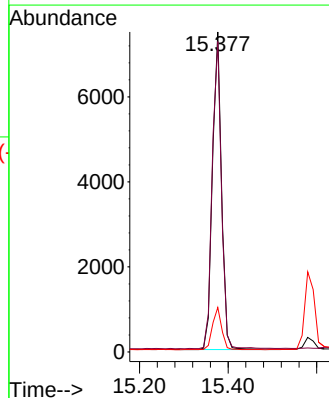
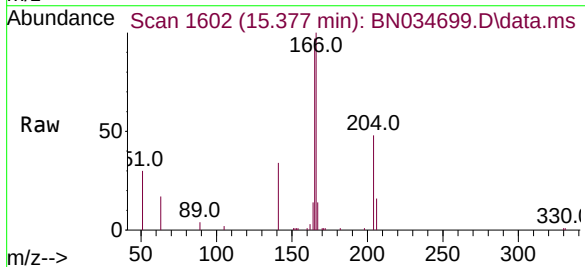
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

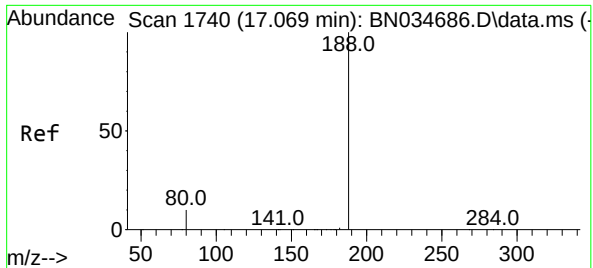
Tgt Ion:154 Resp: 8953
Ion Ratio Lower Upper
154 100
153 111.2 88.2 132.2
152 59.2 46.9 70.3



#18
Fluorene
Concen: 0.326 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:166 Resp: 10689
Ion Ratio Lower Upper
166 100
165 98.4 78.8 118.2
167 13.6 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: BN034699.D

Acq: 24 Oct 2024 19:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

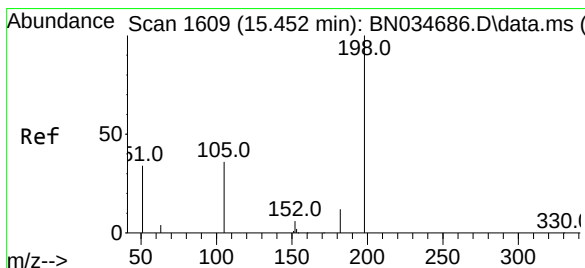
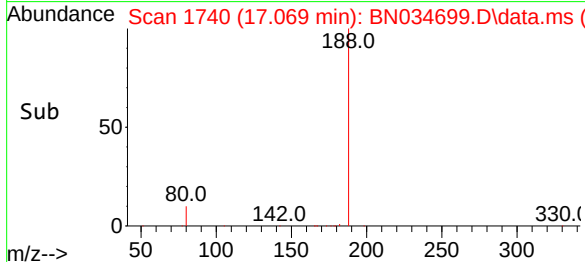
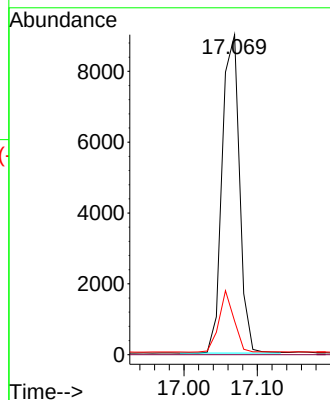
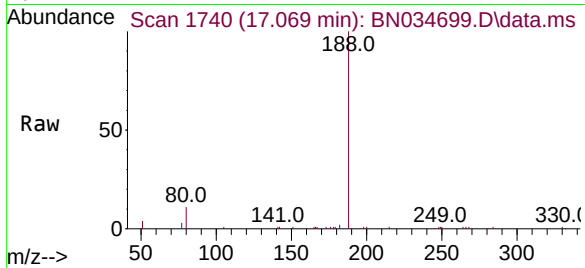
Tgt Ion:188 Resp: 14768

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: 0.328 ng

RT: 15.452 min Scan# 1609

Delta R.T. -0.000 min

Lab File: BN034699.D

Acq: 24 Oct 2024 19:06

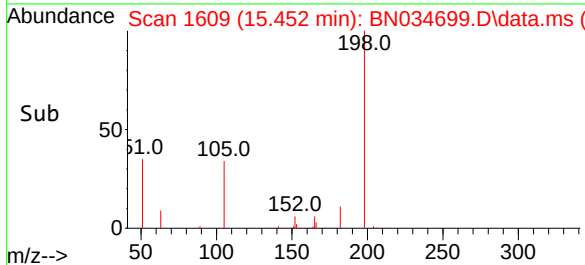
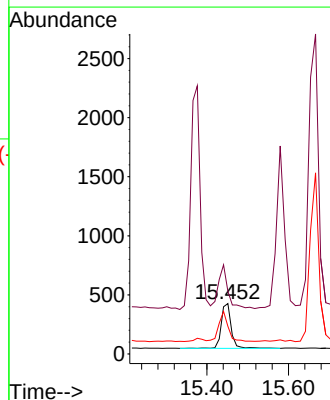
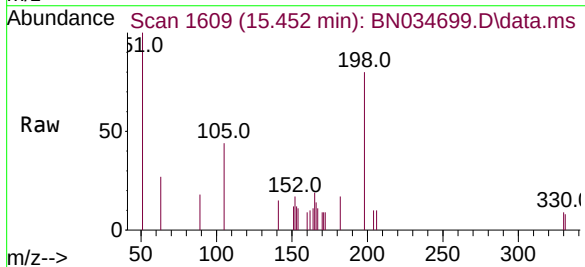
Tgt Ion:198 Resp: 675

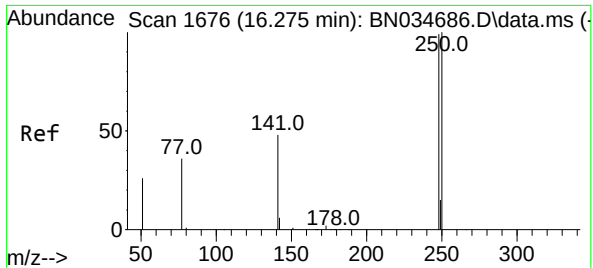
Ion Ratio Lower Upper

198 100

51 124.4 91.8 137.8

105 54.8 44.3 66.5

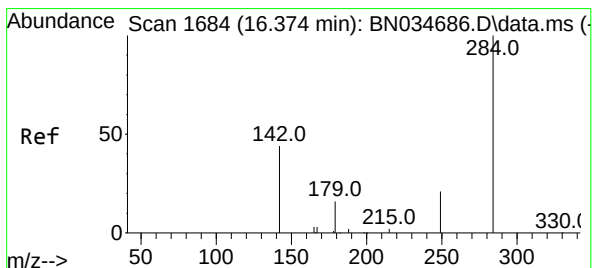
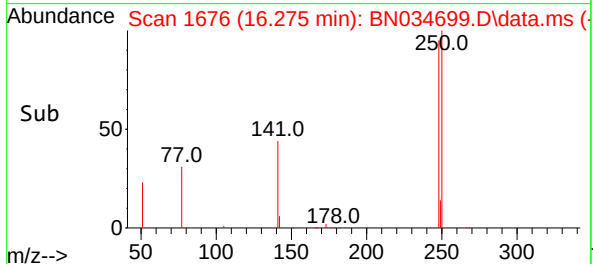
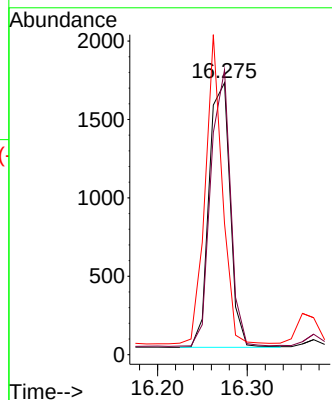
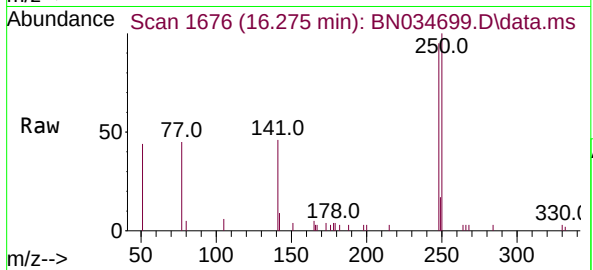




#21
4-Bromophenyl-phenylether
Concen: 0.350 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

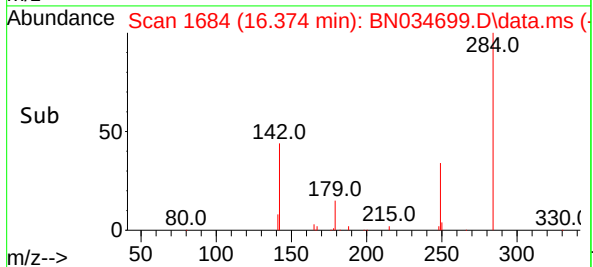
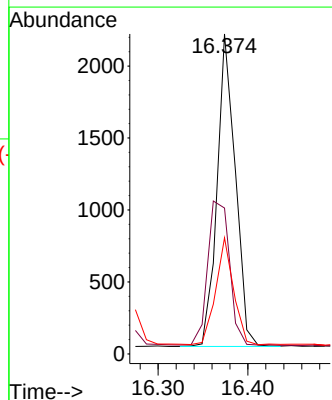
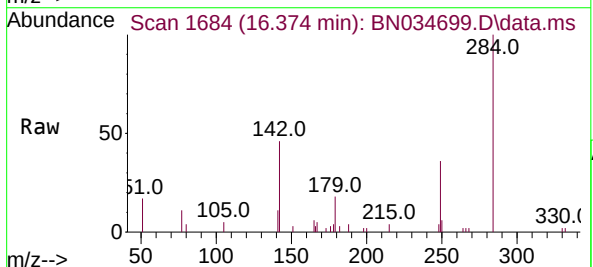
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

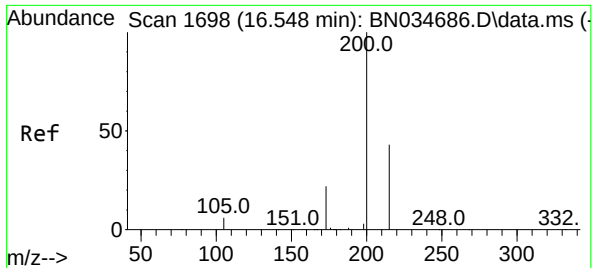
Tgt Ion:248 Resp: 2760
Ion Ratio Lower Upper
248 100
250 104.8 80.9 121.3
141 48.3 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:284 Resp: 3063
Ion Ratio Lower Upper
284 100
142 55.4 43.6 65.4
249 33.3 26.6 40.0

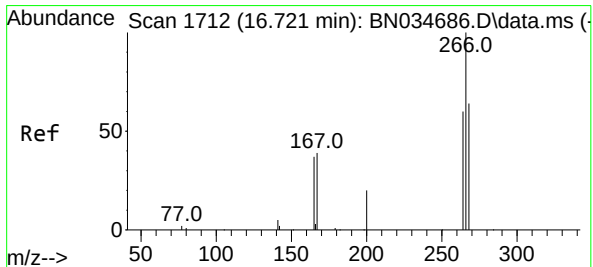
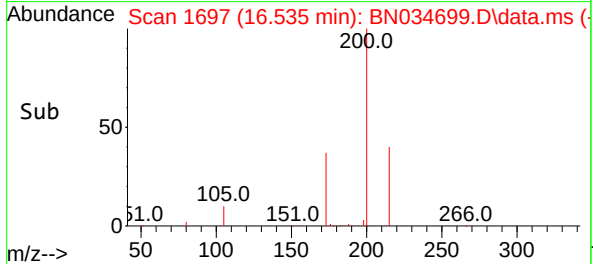
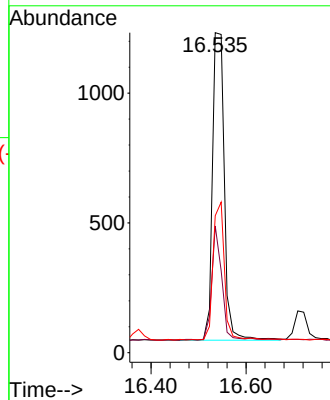
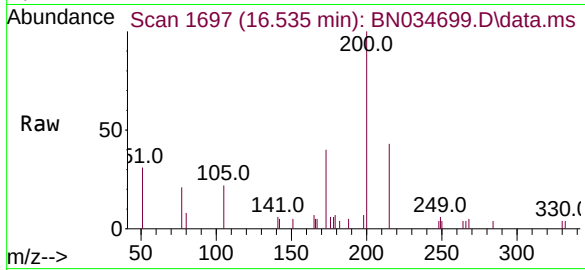




#23
Atrazine
Concen: 0.333 ng
RT: 16.535 min Scan# 1697
Delta R.T. -0.012 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

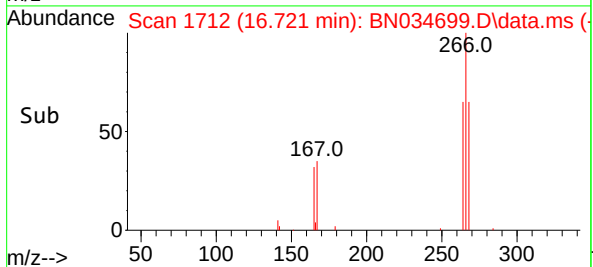
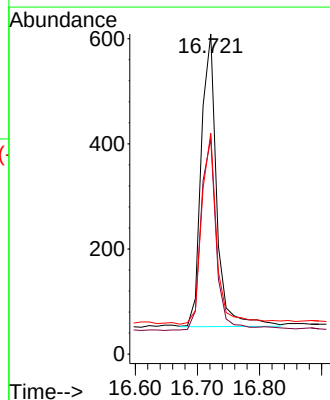
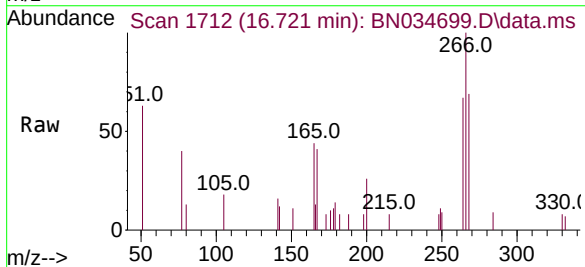
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

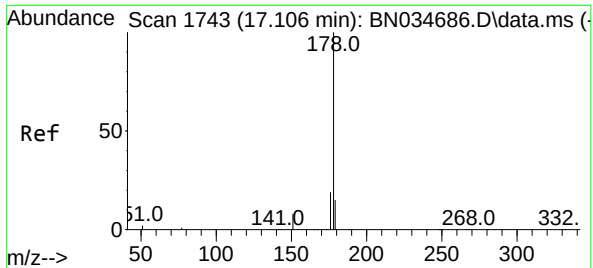
Tgt Ion:200 Resp: 2060
Ion Ratio Lower Upper
200 100
173 39.6 19.7 29.5#
215 42.8 35.7 53.5



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.721 min Scan# 1712
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:266 Resp: 966
Ion Ratio Lower Upper
266 100
264 65.0 49.4 74.2
268 65.1 50.5 75.7

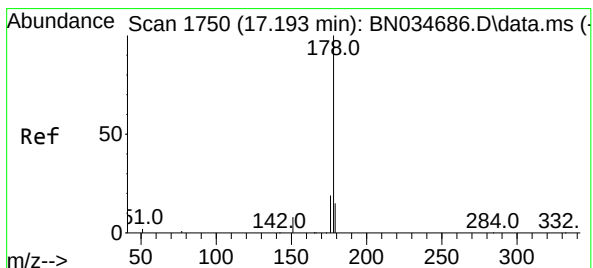
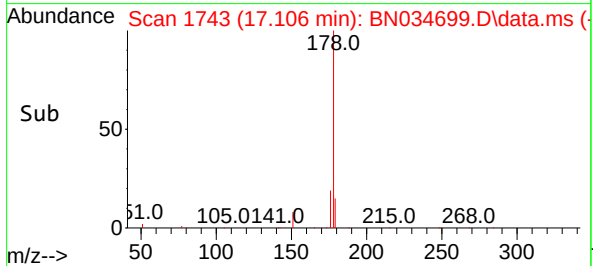
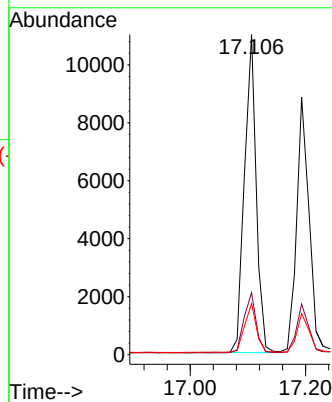
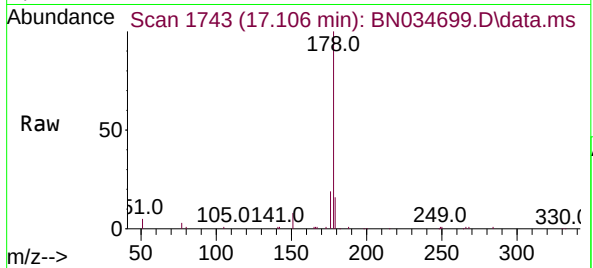




#25
Phenanthrene
Concen: 0.350 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

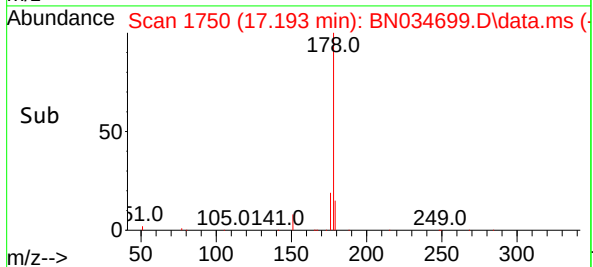
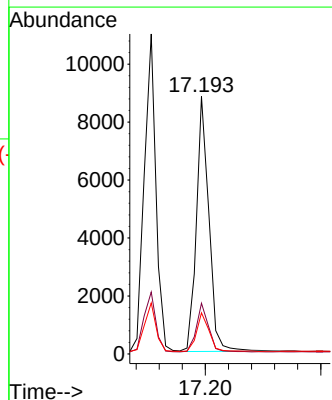
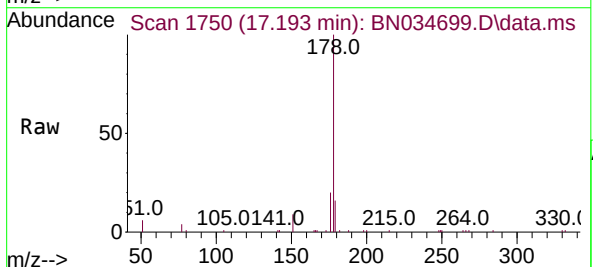
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

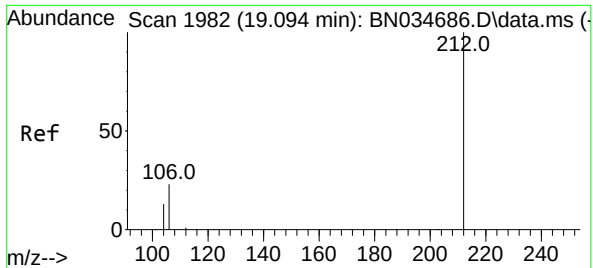
Tgt Ion:178 Resp: 15509
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.337 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:178 Resp: 13258
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.2 12.2 18.2

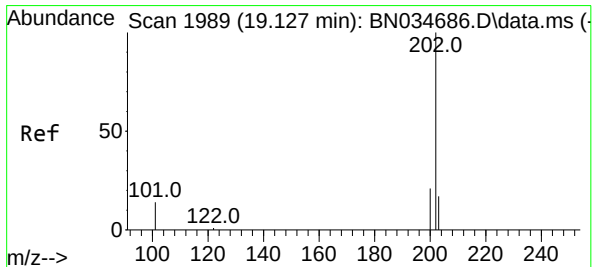
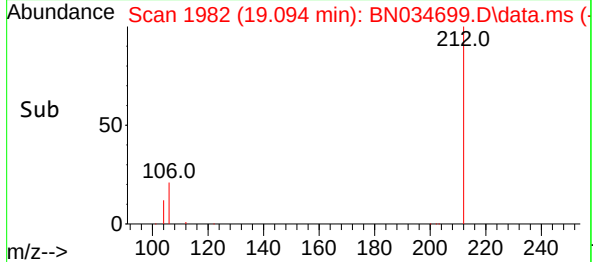
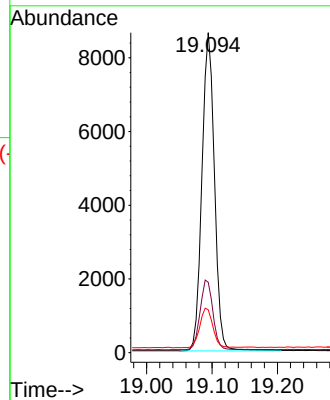
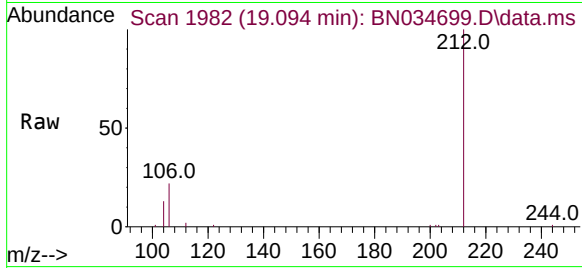




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.094 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

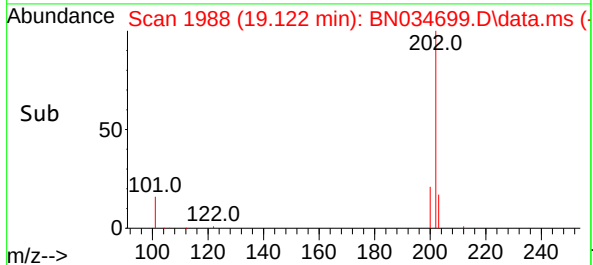
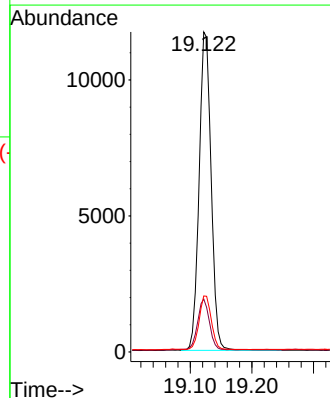
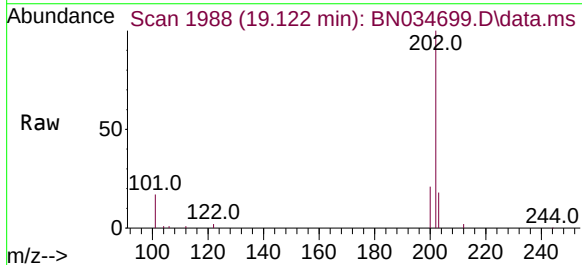
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

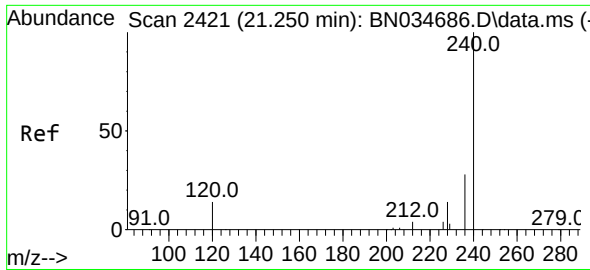
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.5	17.8	26.8
104	12.9	10.2	15.4



#28
Fluoranthene
Concen: 0.343 ng
RT: 19.122 min Scan# 1988
Delta R.T. -0.005 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.1	12.8	19.2
203	16.9	13.5	20.3

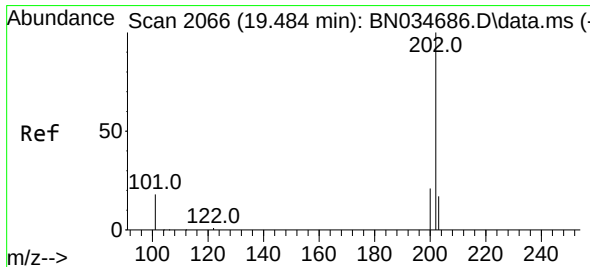
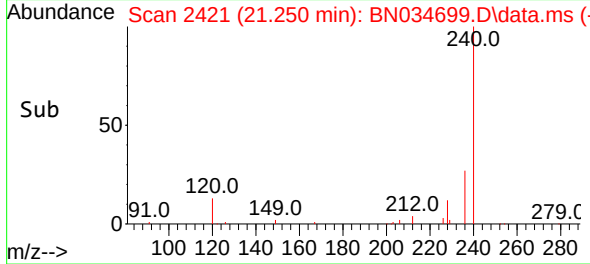
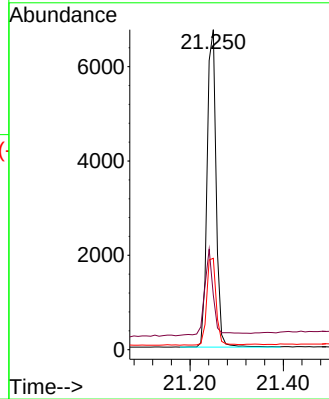
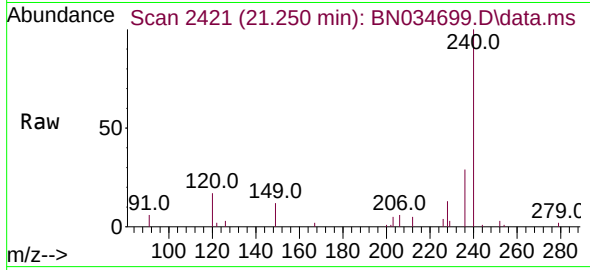




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

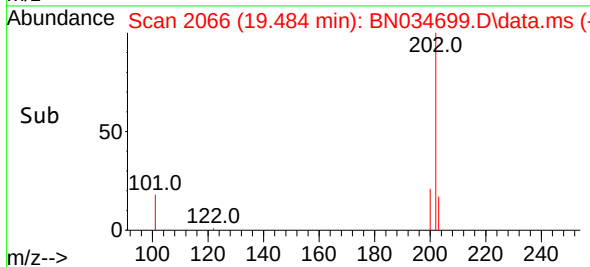
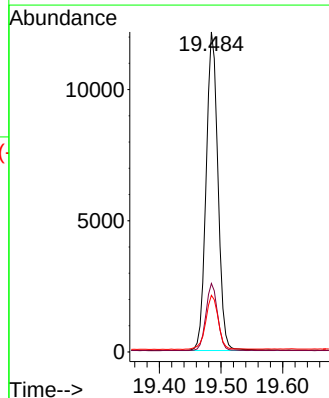
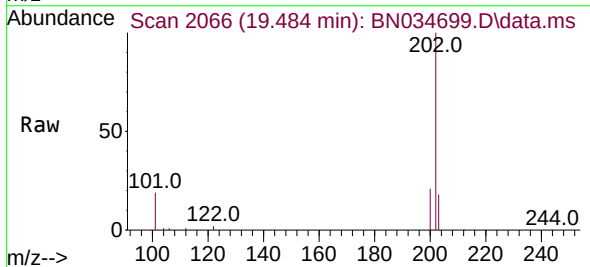
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

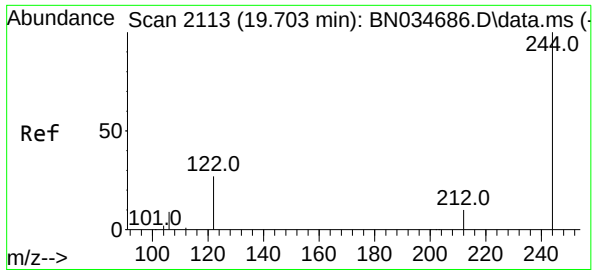
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.2	21.2
236	28.6	23.1	34.7



#30
Pyrene
Concen: 0.345 ng
RT: 19.484 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	18.1	14.2	21.4

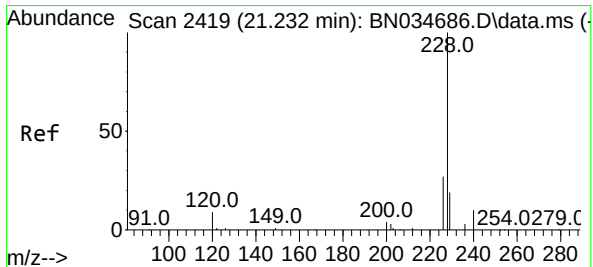
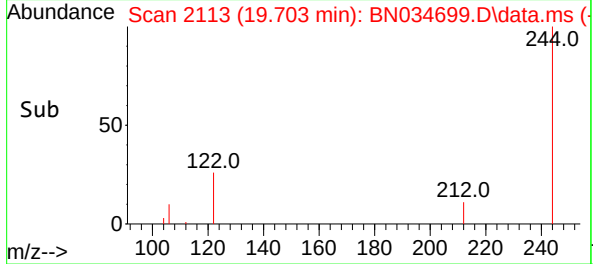
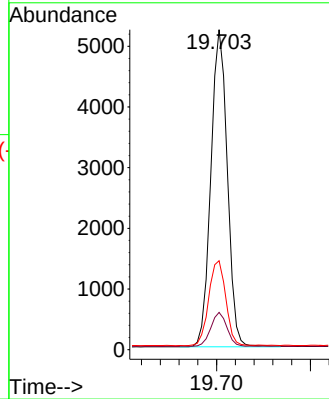
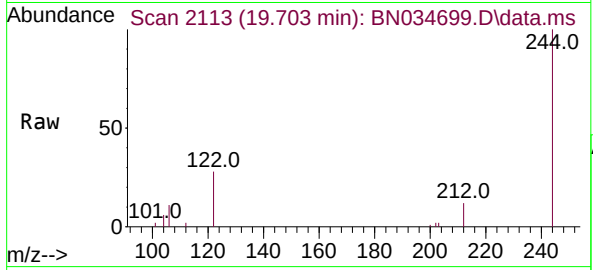




#31
Terphenyl-d14
Concen: 0.344 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

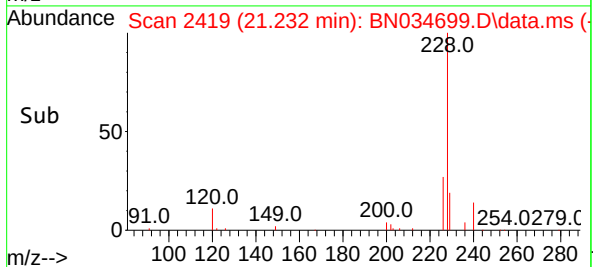
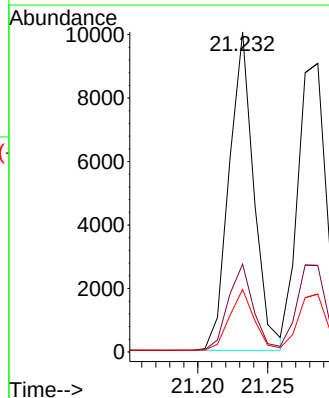
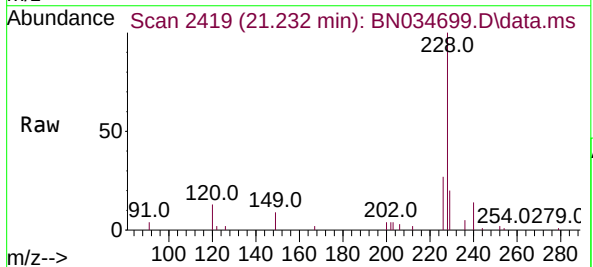
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

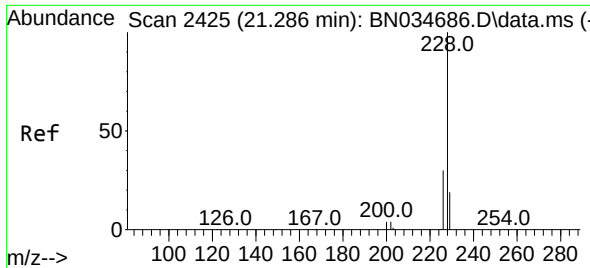
Tgt Ion:244 Resp: 6367
Ion Ratio Lower Upper
244 100
212 11.7 8.6 13.0
122 27.8 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:228 Resp: 12347
Ion Ratio Lower Upper
228 100
226 27.5 22.0 33.0
229 19.5 15.6 23.4

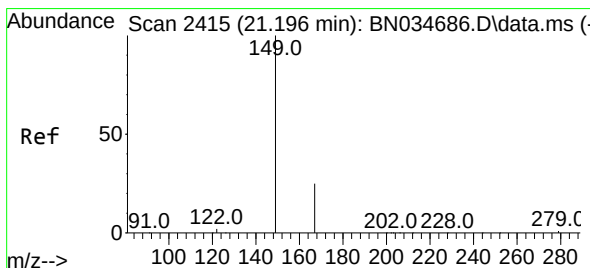
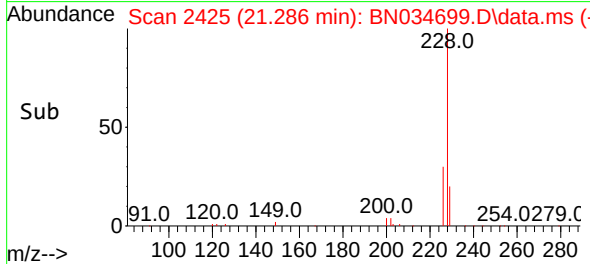
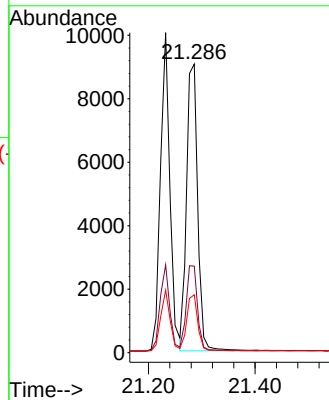
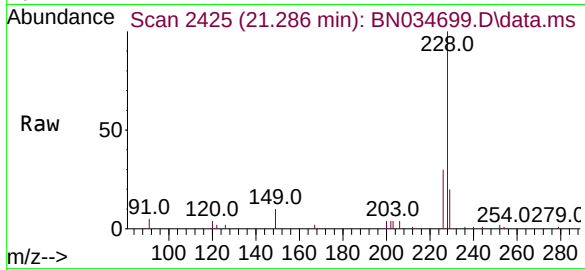




#33
Chrysene
Concen: 0.365 ng
RT: 21.286 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

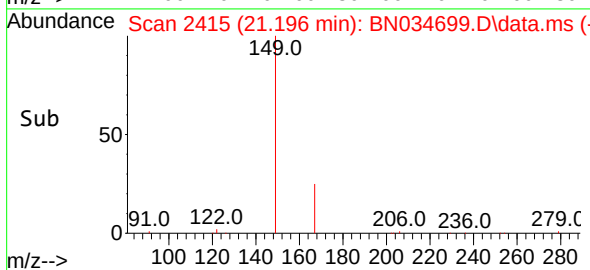
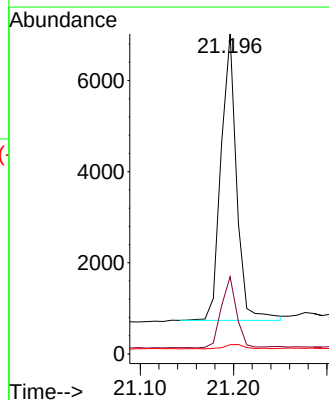
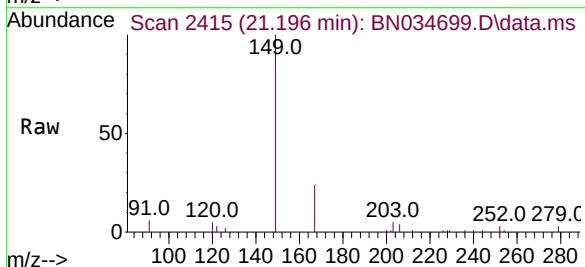
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

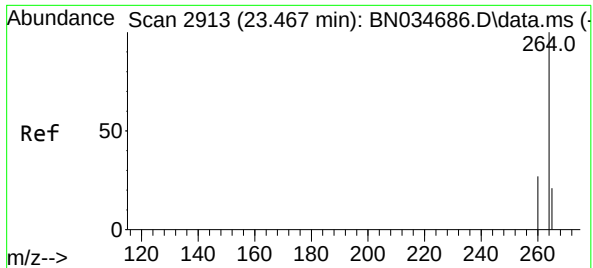
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	20.1	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.372 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.9	19.7	29.5
279	2.0	1.8	2.6

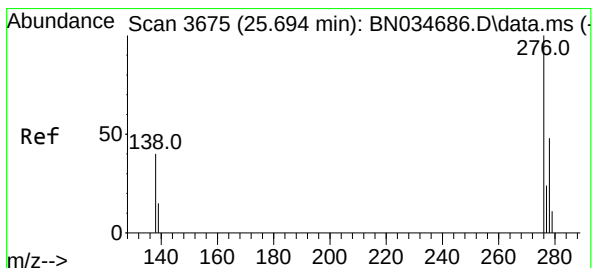
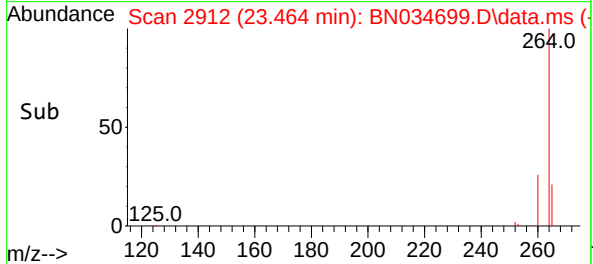
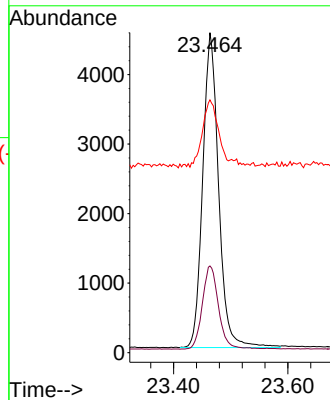
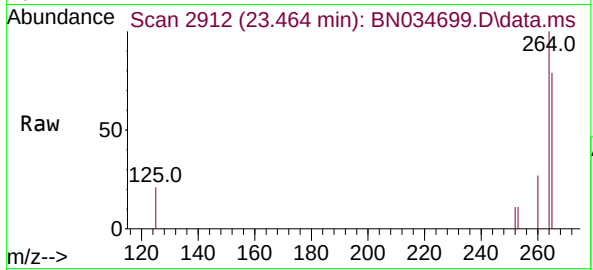




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.464 min Scan# 2913
Delta R.T. -0.003 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

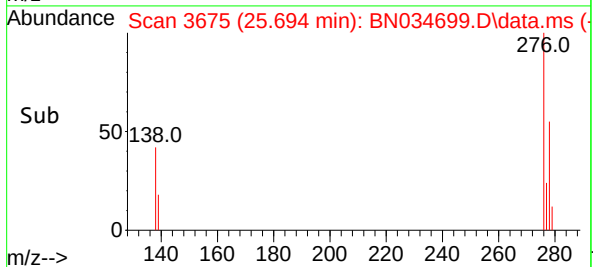
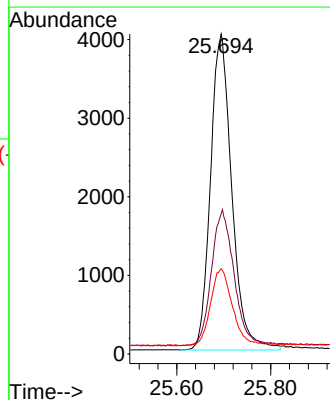
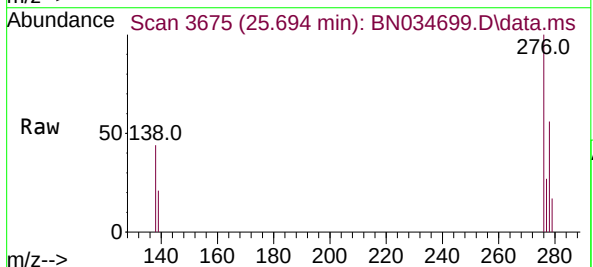
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

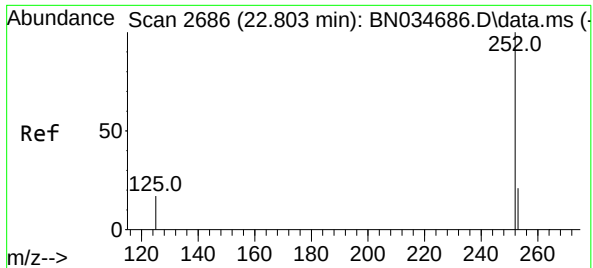
Tgt Ion:264 Resp: 8731
Ion Ratio Lower Upper
264 100
260 27.1 21.9 32.9
265 79.0 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.694 min Scan# 3675
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

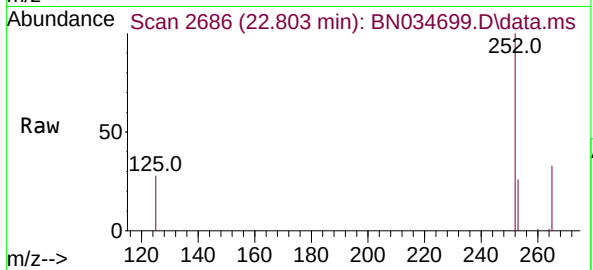
Tgt Ion:276 Resp: 12651
Ion Ratio Lower Upper
276 100
138 45.3 35.1 52.7
277 25.0 19.7 29.5



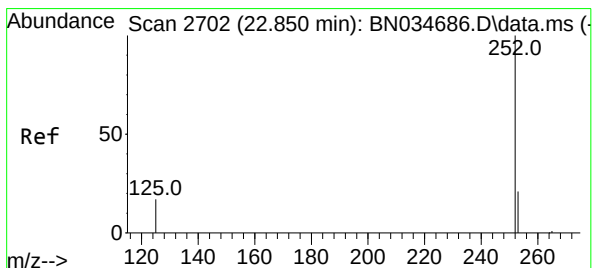
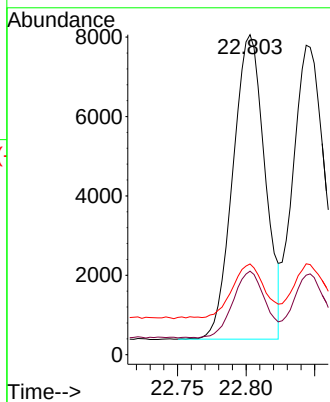
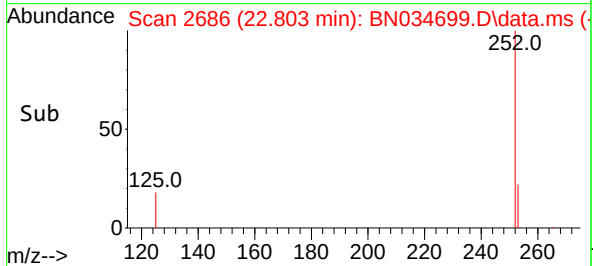


#37
Benzo(b)fluoranthene
Concen: 0.357 ng
RT: 22.803 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

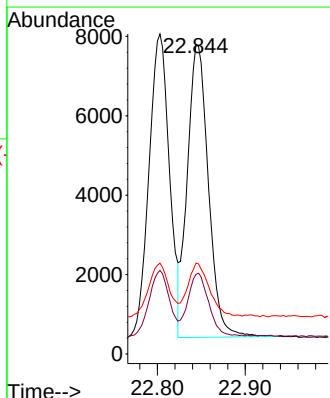
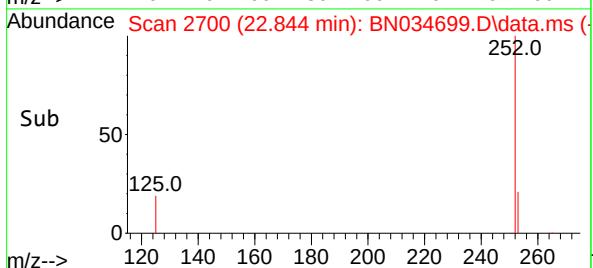
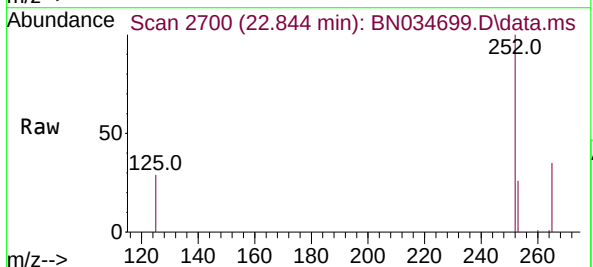


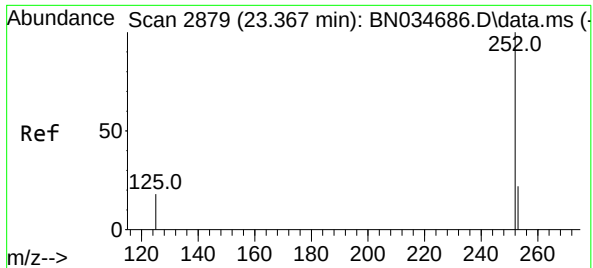
Tgt Ion:252 Resp: 12459
Ion Ratio Lower Upper
252 100
253 26.1 20.0 30.0
125 28.3 20.9 31.3



#38
Benzo(k)fluoranthene
Concen: 0.358 ng
RT: 22.844 min Scan# 2700
Delta R.T. -0.006 min
Lab File: BN034699.D
Acq: 24 Oct 2024 19:06

Tgt Ion:252 Resp: 12307
Ion Ratio Lower Upper
252 100
253 25.7 20.6 31.0
125 29.4 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.357 ng

RT: 23.367 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034699.D

Acq: 24 Oct 2024 19:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

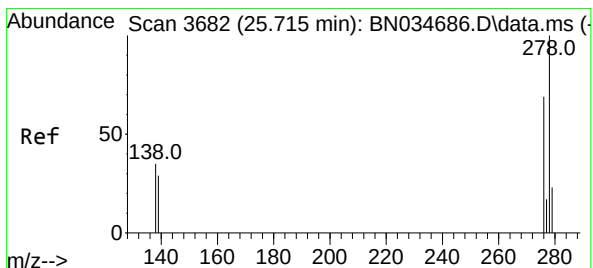
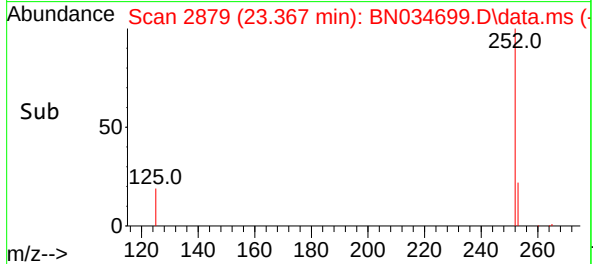
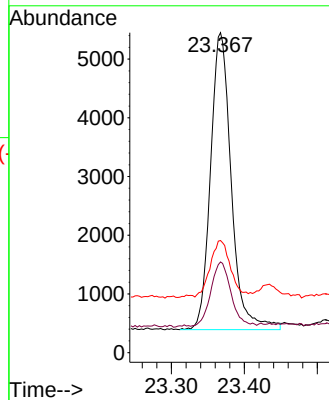
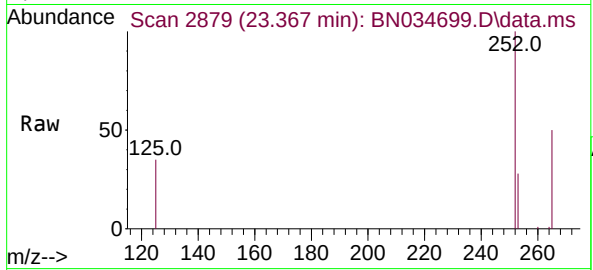
Tgt Ion:252 Resp: 9981

Ion Ratio Lower Upper

252 100

253 28.3 22.2 33.4

125 35.0 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 25.709 min Scan# 3680

Delta R.T. -0.006 min

Lab File: BN034699.D

Acq: 24 Oct 2024 19:06

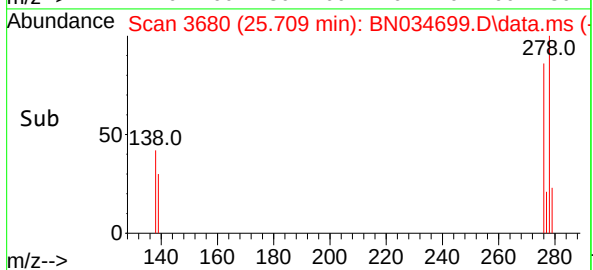
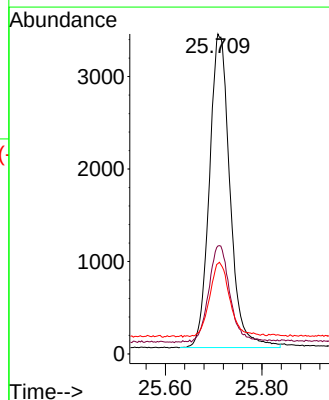
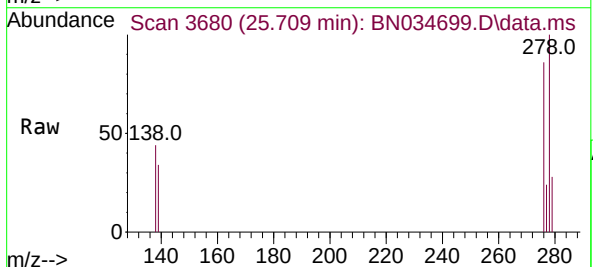
Tgt Ion:278 Resp: 10035

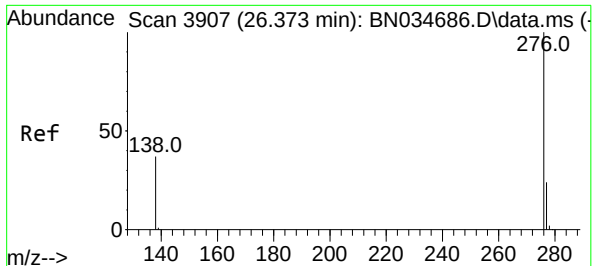
Ion Ratio Lower Upper

278 100

139 33.7 25.4 38.2

279 28.2 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.367 min Scan# 3905

Delta R.T. -0.006 min

Lab File: BN034699.D

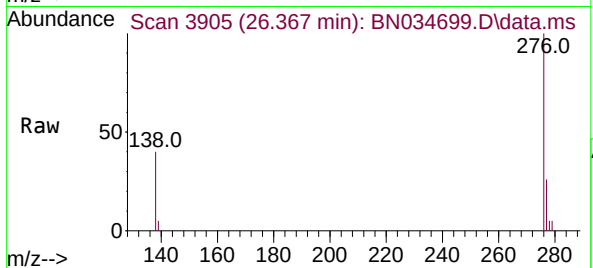
Acq: 24 Oct 2024 19:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



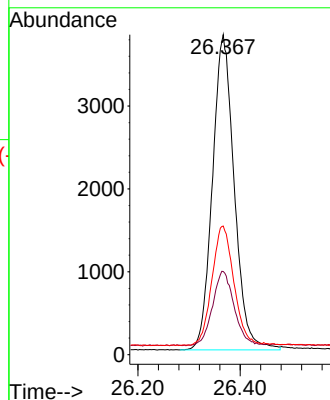
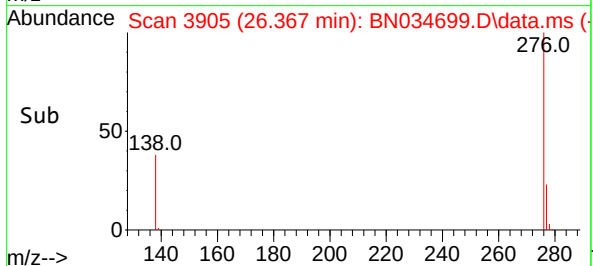
Tgt Ion:276 Resp: 11251

Ion Ratio Lower Upper

276 100

277 26.0 21.3 31.9

138 40.2 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034699.D
 Acq On : 24 Oct 2024 19:06
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:09 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	91	0.00
2	1,4-Dioxane	0.532	0.488	8.3	91	0.00
3	n-Nitrosodimethylamine	0.775	0.719	7.2	93	0.00
4 S	2-Fluorophenol	1.189	1.225	-3.0	104	0.00
5 S	Phenol-d6	1.568	1.669	-6.4	109	0.00
6	bis(2-Chloroethyl)ether	1.274	1.174	7.8	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	91	0.00
8 S	Nitrobenzene-d5	0.336	0.294	12.5	92	0.00
9	Naphthalene	1.107	0.997	9.9	92	0.00
10	Hexachlorobutadiene	0.166	0.152	8.4	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.550	0.482	12.4	91	0.00
12	2-Methylnaphthalene	0.687	0.602	12.4	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
14 S	2,4,6-Tribromophenol	0.124	0.099	20.2	88	0.00
15 S	2-Fluorobiphenyl	1.590	1.420	10.7	89	0.00
16	Acenaphthylene	1.921	1.594	17.0	87	0.00
17	Acenaphthene	1.324	1.115	15.8	86	-0.01
18	Fluorene	1.634	1.331	18.5	83	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.046	17.9	87	0.00
21	4-Bromophenyl-phenylether	0.213	0.187	12.2	80	0.00
22	Hexachlorobenzene	0.231	0.207	10.4	80	0.00
23	Atrazine	0.168	0.139	17.3	81	-0.01
24	Pentachlorophenol	0.082	0.065	20.7	83	0.00
25	Phenanthrene	1.202	1.050	12.6	80	0.00
26	Anthracene	1.067	0.898	15.8	78	0.00
27 SURR	Fluoranthene-d10	0.901	0.776	13.9	80	0.00
28	Fluoranthene	1.253	1.075	14.2	80	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	85	0.00
30	Pyrene	2.055	1.774	13.7	80	0.00
31 S	Terphenyl-d14	0.817	0.703	14.0	81	0.00
32	Benzo(a)anthracene	1.528	1.363	10.8	85	0.00
33	Chrysene	1.581	1.443	8.7	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	0.806	7.0	95	0.00
35 I	Perylene-d12	1.000	1.000	0.0	91	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.449	6.0	93	0.00
37	Benzo(b)fluoranthene	1.597	1.427	10.6	88	0.00
38	Benzo(k)fluoranthene	1.576	1.410	10.5	93	0.00
39 C	Benzo(a)pyrene	1.282	1.143	10.8	90	0.00
40	Dibenzo(a,h)anthracene	1.215	1.149	5.4	94	0.00
41	Benzo(g,h,i)perylene	1.340	1.289	3.8	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034699.D
 Acq On : 24 Oct 2024 19:06
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:09 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	91	0.00
2	1,4-Dioxane	0.400	0.367	8.3	91	0.00
3	n-Nitrosodimethylamine	0.400	0.371	7.3	93	0.00
4 S	2-Fluorophenol	0.400	0.412	-3.0	104	0.00
5 S	Phenol-d6	0.400	0.426	-6.5	109	0.00
6	bis(2-Chloroethyl)ether	0.400	0.369	7.8	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	91	0.00
8 S	Nitrobenzene-d5	0.400	0.351	12.3	92	0.00
9	Naphthalene	0.400	0.360	10.0	92	0.00
10	Hexachlorobutadiene	0.400	0.367	8.3	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.350	12.5	91	0.00
12	2-Methylnaphthalene	0.400	0.351	12.3	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	86	0.00
14 S	2,4,6-Tribromophenol	0.400	0.319	20.3	88	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	89	0.00
16	Acenaphthylene	0.400	0.332	17.0	87	0.00
17	Acenaphthene	0.400	0.337	15.8	86	-0.01
18	Fluorene	0.400	0.326	18.5	83	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	81	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.328	18.0	87	0.00
21	4-Bromophenyl-phenylether	0.400	0.350	12.5	80	0.00
22	Hexachlorobenzene	0.400	0.359	10.3	80	0.00
23	Atrazine	0.400	0.333	16.8	81	-0.01
24	Pentachlorophenol	0.400	0.320	20.0	83	0.00
25	Phenanthrene	0.400	0.350	12.5	80	0.00
26	Anthracene	0.400	0.337	15.8	78	0.00
27 SURR	Fluoranthene-d10	0.400	0.345	13.8	80	0.00
28	Fluoranthene	0.400	0.343	14.2	80	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	85	0.00
30	Pyrene	0.400	0.345	13.8	80	0.00
31 S	Terphenyl-d14	0.400	0.344	14.0	81	0.00
32	Benzo(a)anthracene	0.400	0.357	10.8	85	0.00
33	Chrysene	0.400	0.365	8.8	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.372	7.0	95	0.00
35 I	Perylene-d12	0.400	0.400	0.0	91	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	93	0.00
37	Benzo(b)fluoranthene	0.400	0.357	10.8	88	0.00
38	Benzo(k)fluoranthene	0.400	0.358	10.5	93	0.00
39 C	Benzo(a)pyrene	0.400	0.357	10.8	90	0.00
40	Dibenzo(a,h)anthracene	0.400	0.378	5.5	94	0.00
41	Benzo(g,h,i)perylene	0.400	0.385	3.8	93	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.: P4428 SAS No.: P4428 SDG No.: P4428

Instrument ID: BNA_N Calibration Date/Time: 10/24/2024 21:01

Lab File ID: BN034701.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	0.473		-14.0	20.0
Fluoranthene-d10	0.901	0.768		-14.8	20.0
2-Fluorophenol	1.189	1.172		-1.4	20.0
Phenol-d6	1.568	1.616		3.1	20.0
Nitrobenzene-d5	0.336	0.290		-13.7	20.0
2-Fluorobiphenyl	1.590	1.425		-10.4	20.0
2,4,6-Tribromophenol	0.124	0.096		-22.6	20.0
Terphenyl-d14	0.817	0.690		-15.5	20.0
1,4-Dioxane	0.532	0.489		-8.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034701.D
 Acq On : 24 Oct 2024 21:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:31 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 13:17:02 2024
 Response via : Initial Calibration

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

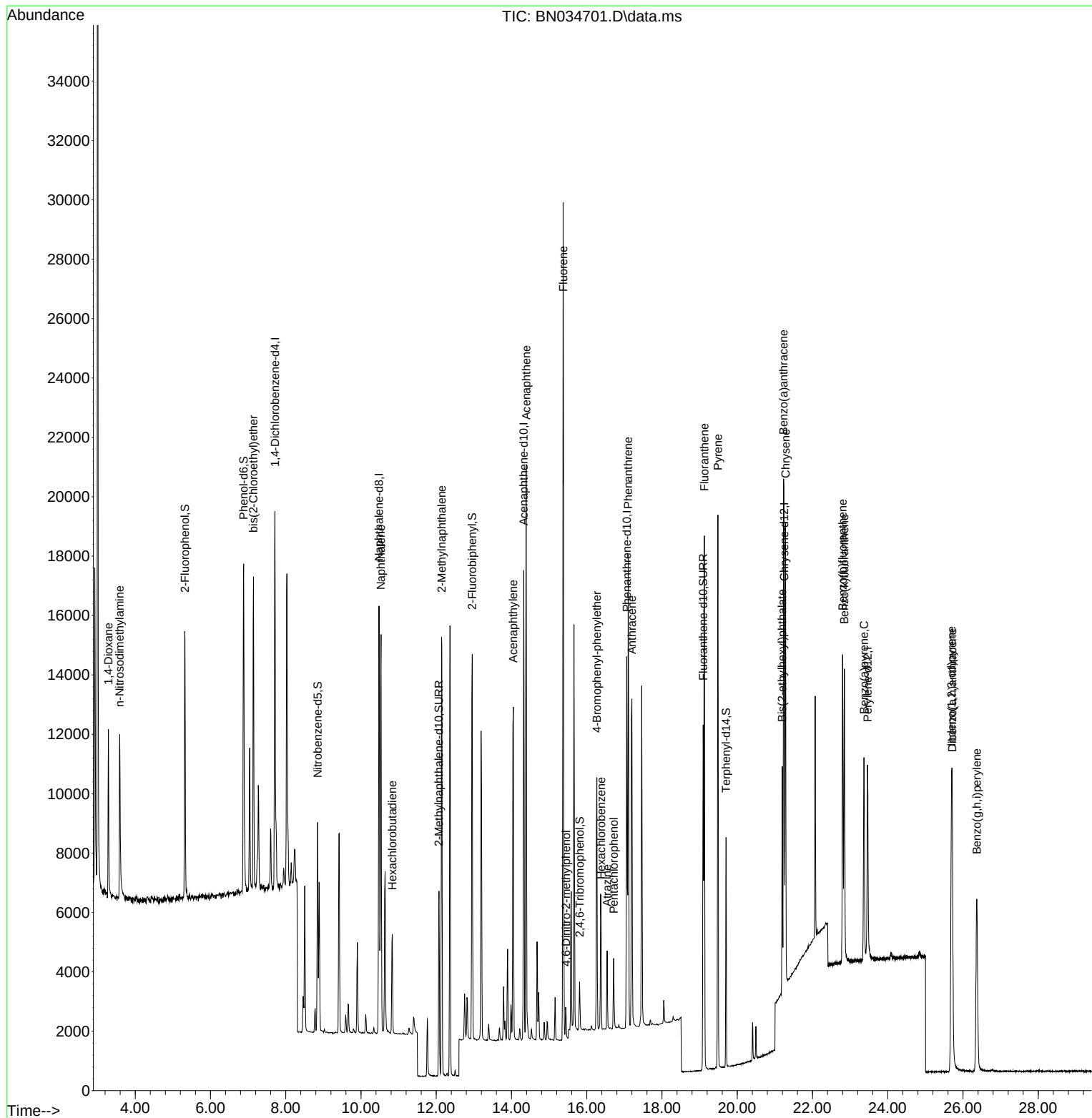
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	5885	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	17350	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	8078	0.400	ng	0.00
19) Phenanthrene-d10	17.064	188	14577	0.400	ng	# 0.00
29) Chrysene-d12	21.248	240	8841	0.400	ng	0.00
35) Perylene-d12	23.464	264	8336	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	6898	0.394	ng	0.00
5) Phenol-d6	6.882	99	9511	0.412	ng	0.00
8) Nitrobenzene-d5	8.845	82	5024	0.345	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	8204	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.810	330	779	0.312	ng	0.00
15) 2-Fluorobiphenyl	12.957	172	11511	0.359	ng	0.00
27) Fluoranthene-d10	19.092	212	11190	0.341	ng	0.00
31) Terphenyl-d14	19.700	244	6100	0.338	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.285	88	2877	0.367	ng	98
3) n-Nitrosodimethylamine	3.581	42	4327	0.380	ng	# 93
6) bis(2-Chloroethyl)ether	7.142	93	6834	0.365	ng	98
9) Naphthalene	10.532	128	17319	0.361	ng	100
10) Hexachlorobutadiene	10.831	225	2605	0.362	ng	# 100
12) 2-Methylnaphthalene	12.143	142	10362	0.348	ng	98
16) Acenaphthylene	14.047	152	13092	0.337	ng	99
17) Acenaphthene	14.389	154	9042	0.338	ng	98
18) Fluorene	15.373	166	10979	0.333	ng	99
20) 4,6-Dinitro-2-methylph...	15.448	198	621	0.306	ng	92
21) 4-Bromophenyl-phenylether	16.269	248	2820	0.363	ng	# 89
22) Hexachlorobenzene	16.381	284	3143	0.373	ng	98
23) Atrazine	16.542	200	1901	0.311	ng	# 93
24) Pentachlorophenol	16.716	266	1008	0.338	ng	97
25) Phenanthrene	17.101	178	15738	0.359	ng	100
26) Anthracene	17.200	178	13426	0.345	ng	99
28) Fluoranthene	19.124	202	15690	0.343	ng	99
30) Pyrene	19.487	202	15827	0.348	ng	99
32) Benzo(a)anthracene	21.230	228	11854	0.351	ng	99
33) Chrysene	21.283	228	12923	0.370	ng	100
34) Bis(2-ethylhexyl)phtha...	21.194	149	6855	0.358	ng	98
36) Indeno(1,2,3-cd)pyrene	25.692	276	12128	0.378	ng	97
37) Benzo(b)fluoranthene	22.801	252	12003	0.361	ng	98
38) Benzo(k)fluoranthene	22.845	252	11895	0.362	ng	98
39) Benzo(a)pyrene	23.368	252	9650	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.713	278	9542	0.377	ng	97
41) Benzo(g,h,i)perylene	26.365	276	10879	0.390	ng	97

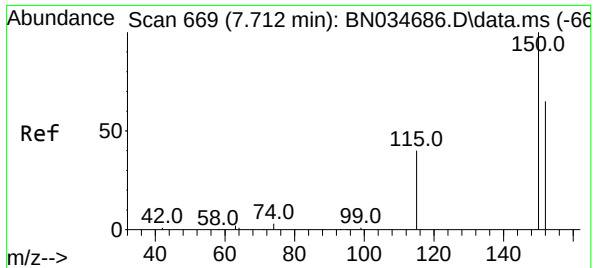
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034701.D
 Acq On : 24 Oct 2024 21:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:31 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 13:17:02 2024
 Response via : Initial Calibration

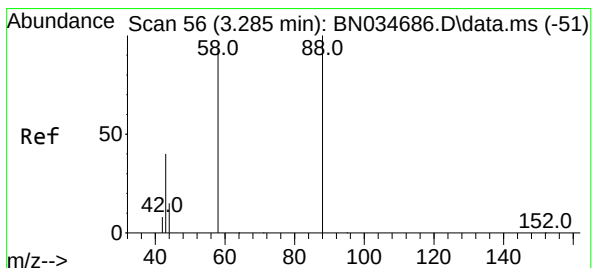
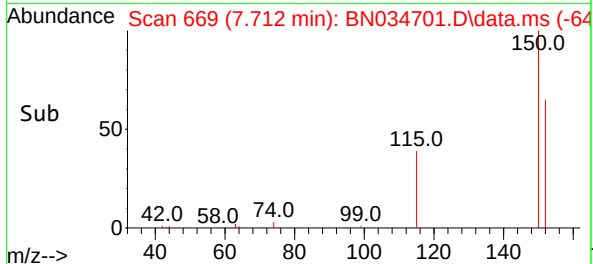
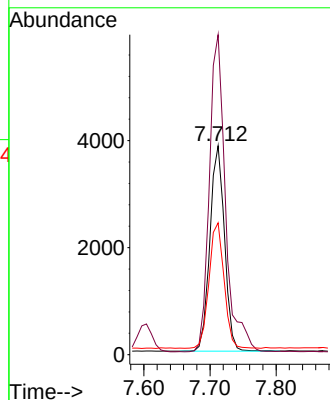
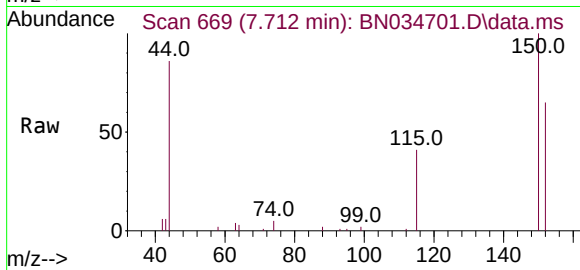




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

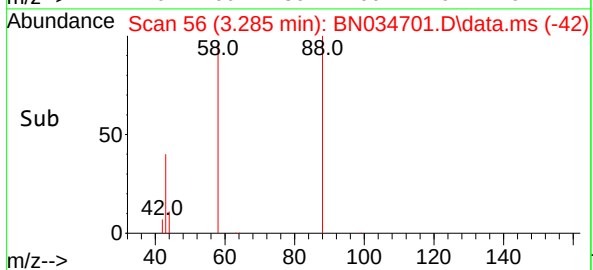
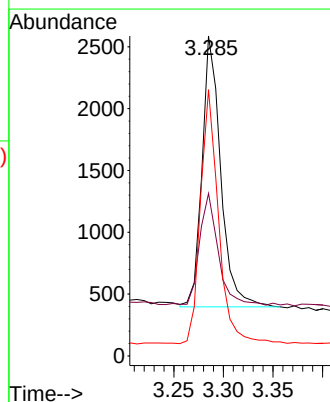
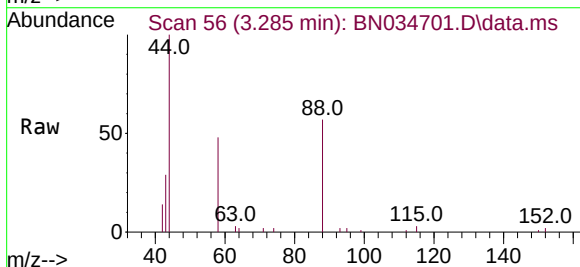
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 152 Resp: 5885
Ion Ratio Lower Upper
152 100
150 153.2 122.7 184.1
115 63.1 51.0 76.6

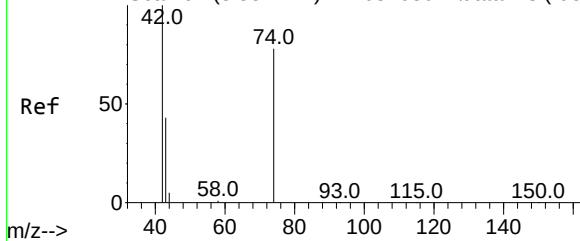


#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion: 88 Resp: 2877
Ion Ratio Lower Upper
88 100
43 40.9 32.1 48.1
58 89.8 73.7 110.5



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



#3

n-Nitrosodimethylamine

Concen: 0.380 ng

RT: 3.581 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 4327

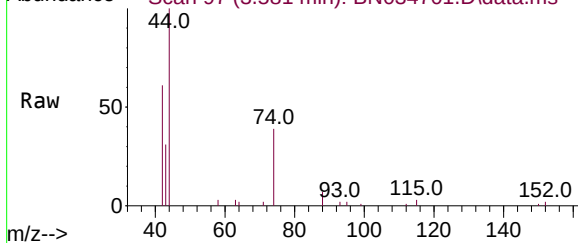
Ion Ratio Lower Upper

42 100

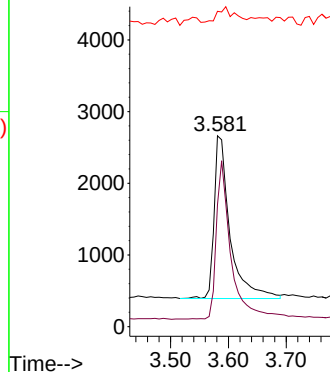
74 91.2 77.2 115.8

44 9.1 13.4 20.2#

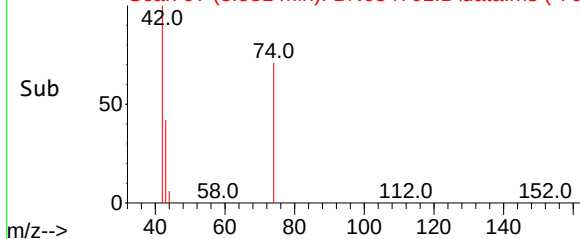
Abundance Scan 97 (3.581 min): BN034701.D\data.ms



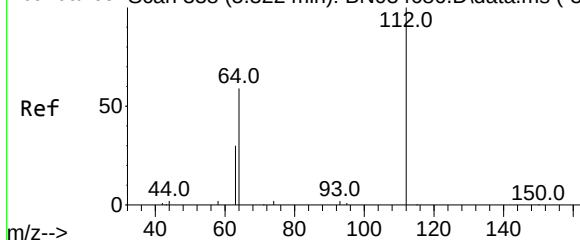
Abundance



Abundance Scan 97 (3.581 min): BN034701.D\data.ms (-76)



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



#4

2-Fluorophenol

Concen: 0.394 ng

RT: 5.322 min Scan# 338

Delta R.T. 0.000 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

Tgt Ion: 112 Resp: 6898

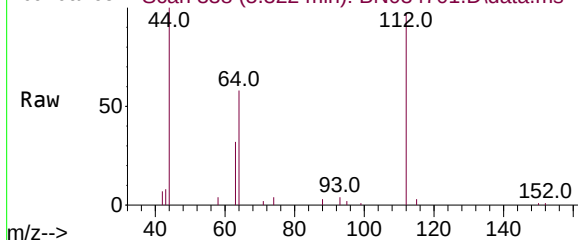
Ion Ratio Lower Upper

112 100

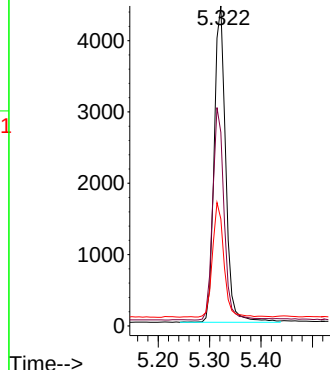
64 67.5 53.0 79.6

63 35.6 27.6 41.4

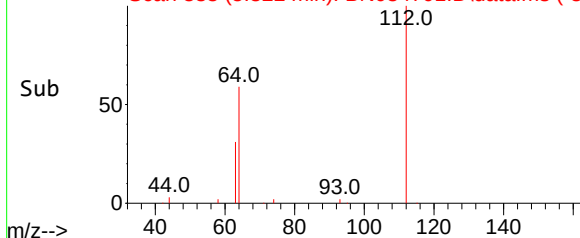
Abundance Scan 338 (5.322 min): BN034701.D\data.ms

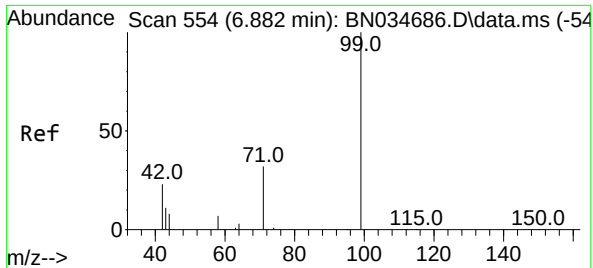


Abundance



Abundance Scan 338 (5.322 min): BN034701.D\data.ms (-31)

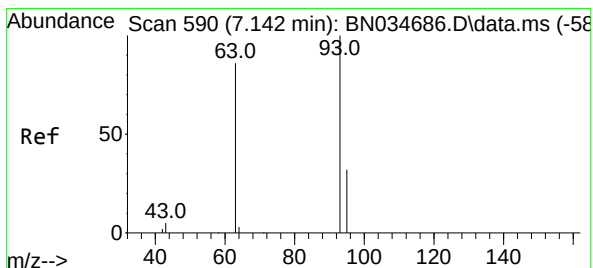
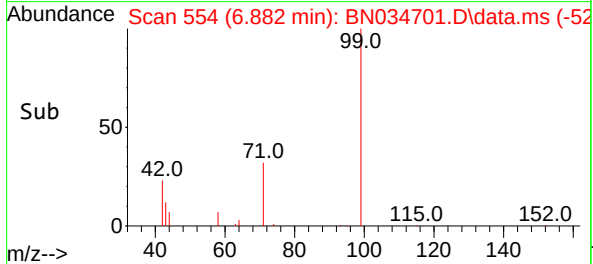
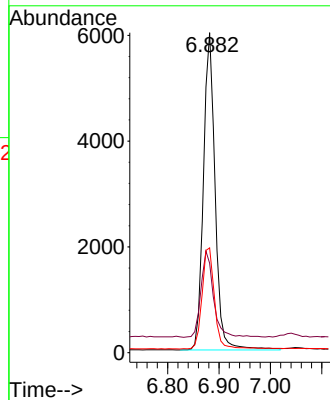
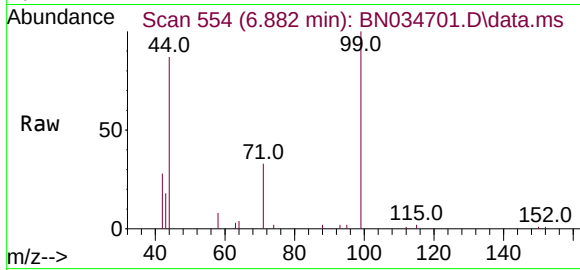




#5
Phenol-d6
Concen: 0.412 ng
RT: 6.882 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

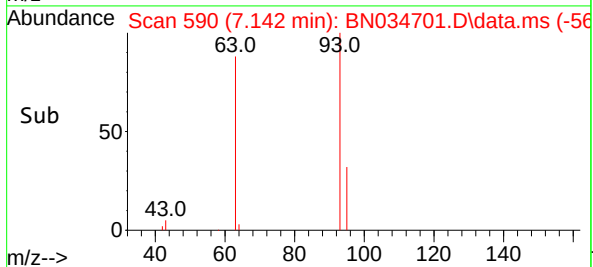
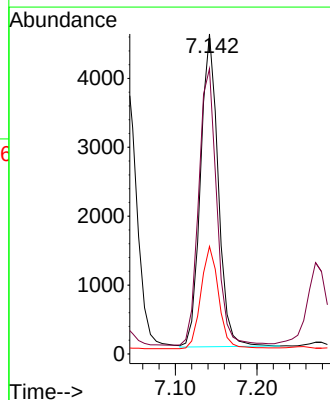
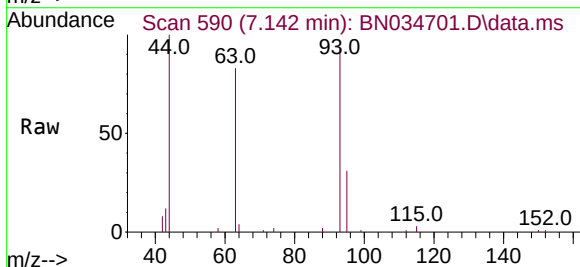
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

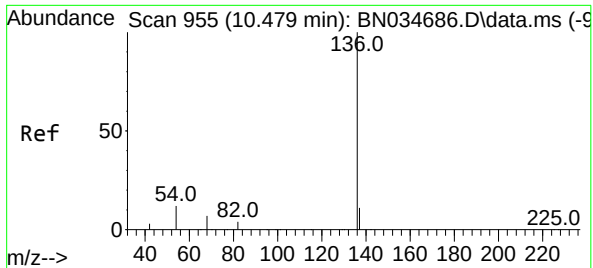
Tgt Ion	Ratio	Lower	Upper
99	100		
42	29.2	21.8	32.8
71	34.1	26.6	40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion	Ratio	Lower	Upper
93	100		
63	90.8	71.5	107.3
95	33.1	25.8	38.6

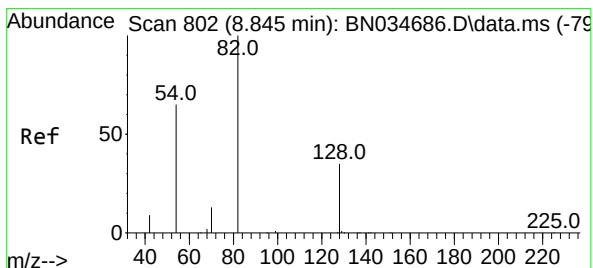
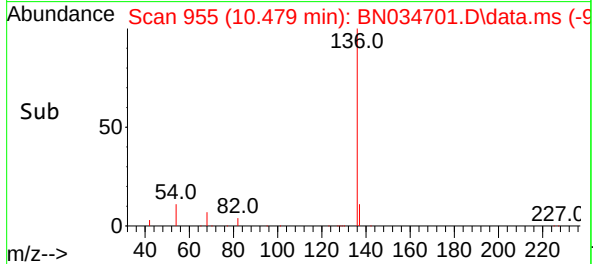
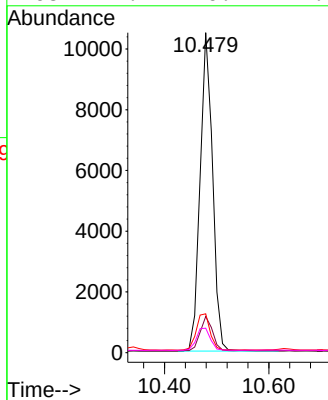
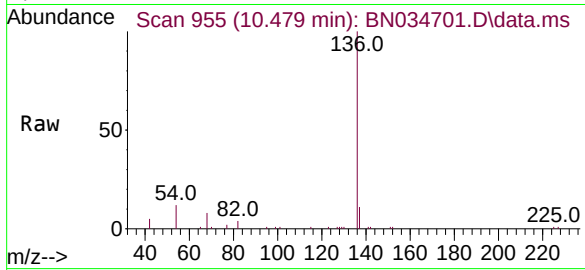




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

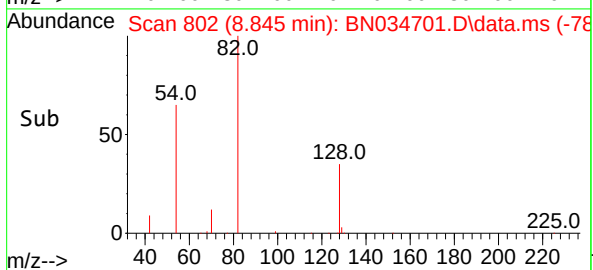
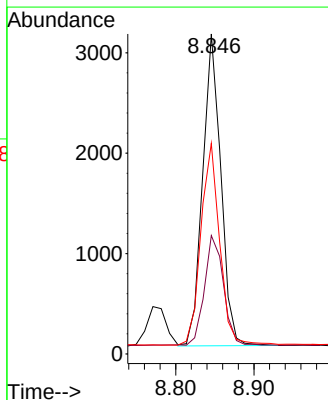
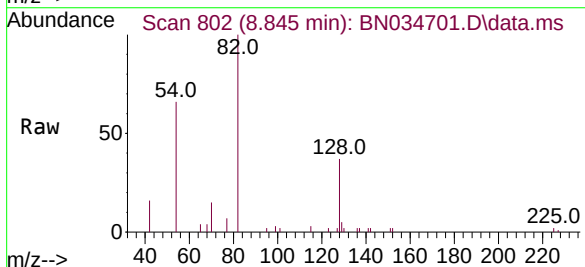
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

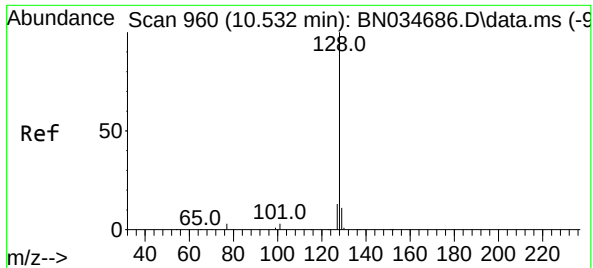
Tgt Ion:	136	Resp:	17350
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	12.1	9.8	14.8
68	7.7	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:	82	Resp:	5024
Ion	Ratio	Lower	Upper
82	100		
128	37.0	29.7	44.5
54	65.8	53.0	79.6

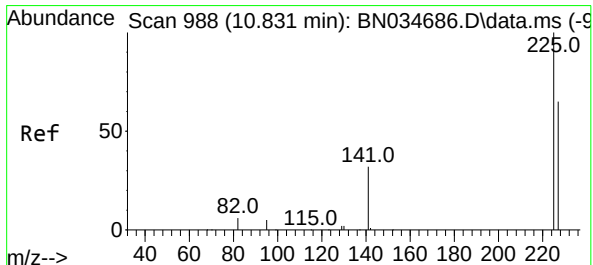
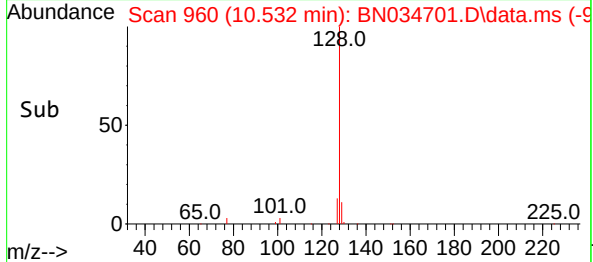
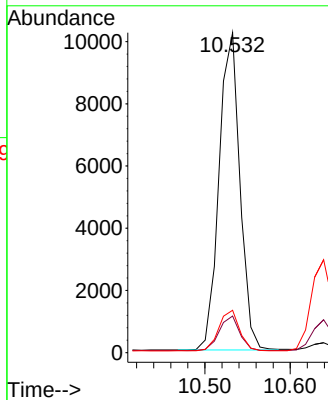
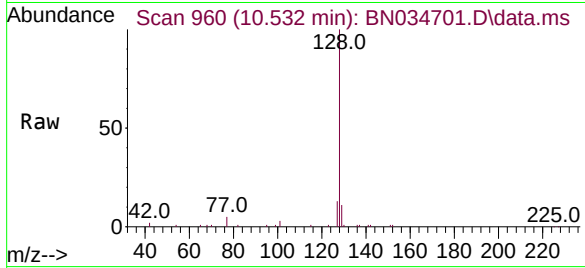




#9
Naphthalene
Concen: 0.361 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

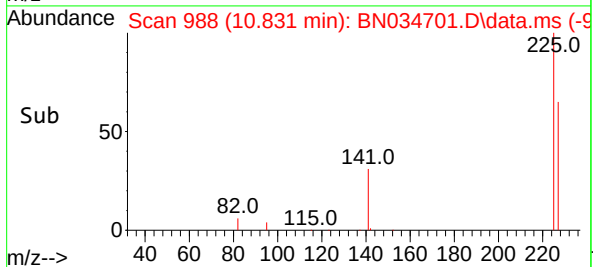
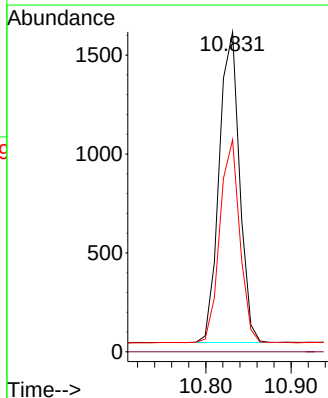
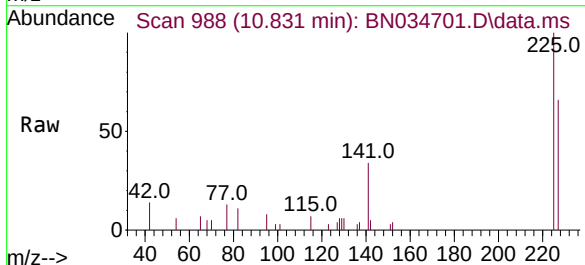
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

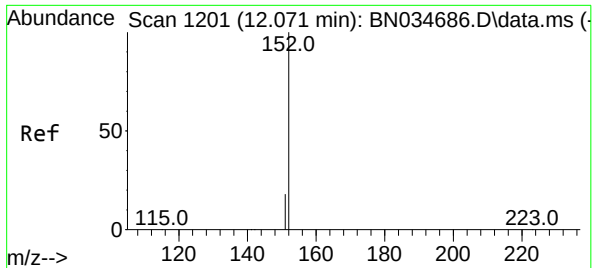
Tgt Ion:128 Resp: 17319
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 13.2 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:225 Resp: 2605
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.4 77.0

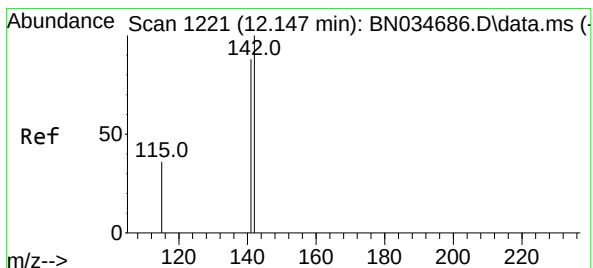
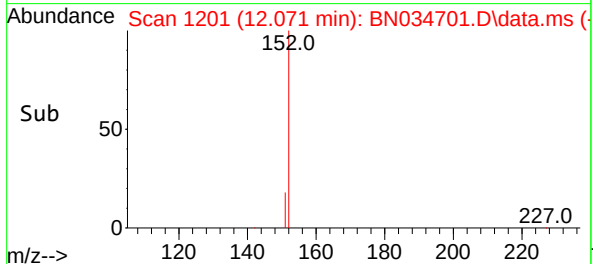
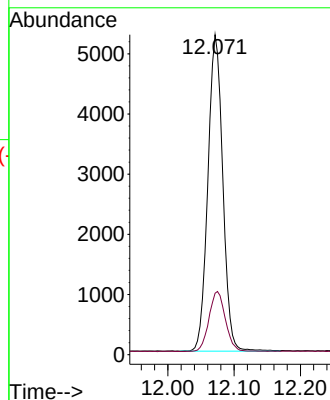
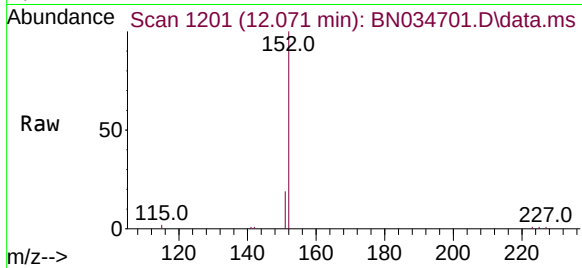




#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

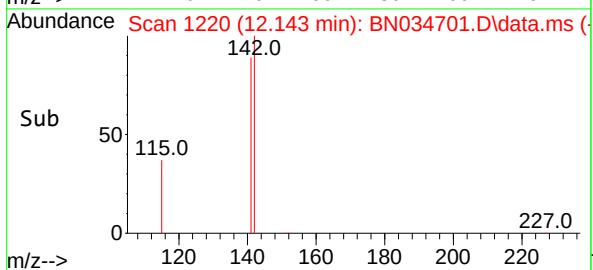
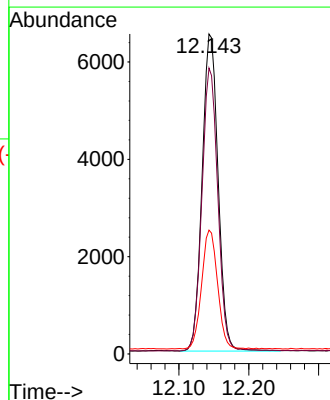
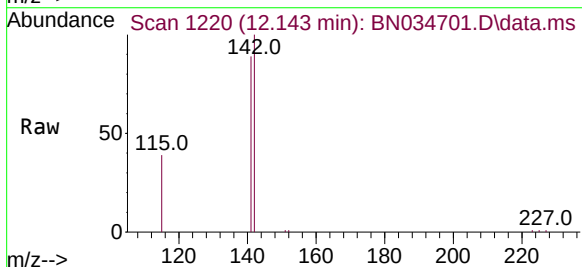
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

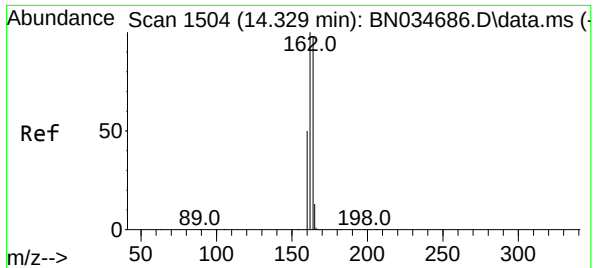
Tgt Ion:152 Resp: 8204
Ion Ratio Lower Upper
152 100
151 21.0 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.348 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:142 Resp: 10362
Ion Ratio Lower Upper
142 100
141 89.3 70.4 105.6
115 38.7 29.8 44.6

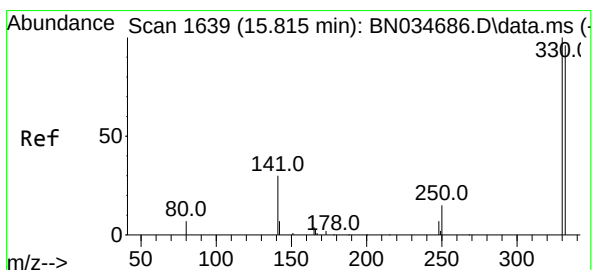
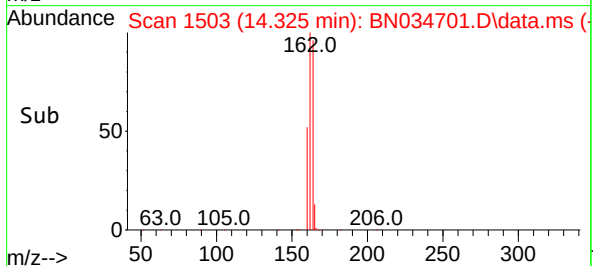
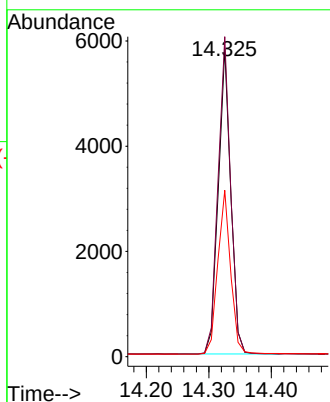
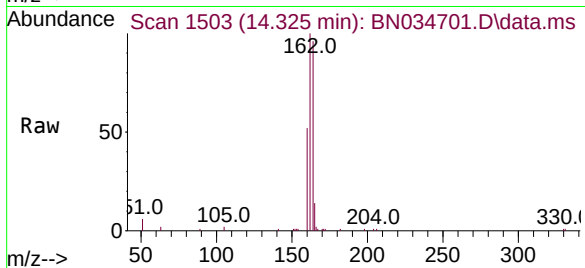




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

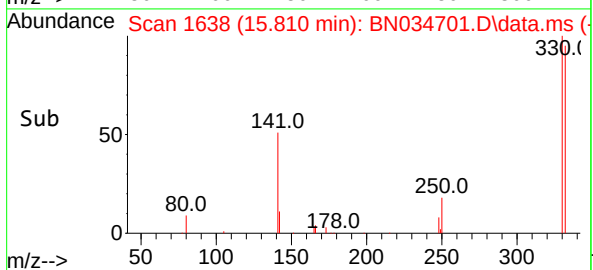
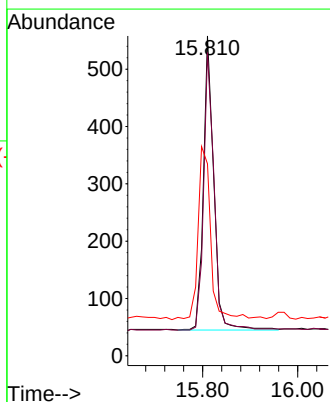
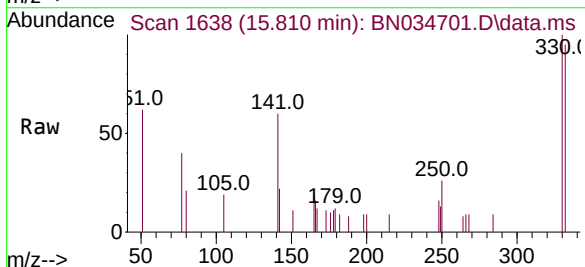
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

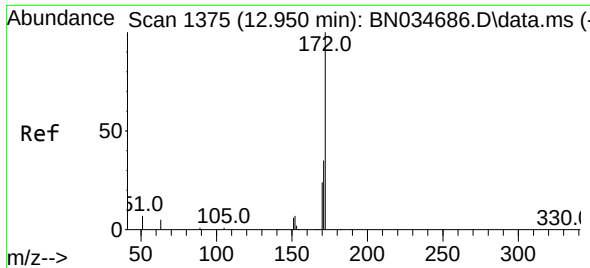
Tgt Ion:164 Resp: 8078
Ion Ratio Lower Upper
164 100
162 103.8 81.4 122.0
160 54.0 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.312 ng
RT: 15.810 min Scan# 1638
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:330 Resp: 779
Ion Ratio Lower Upper
330 100
332 94.7 76.6 115.0
141 71.4 54.6 81.8

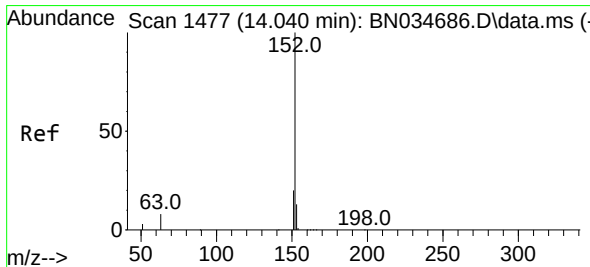
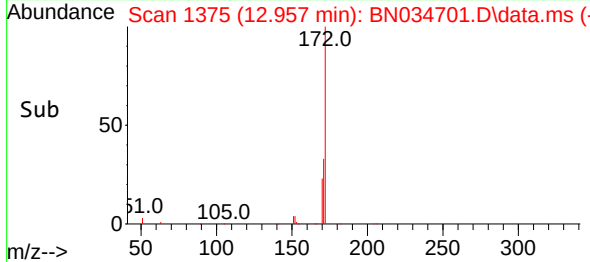
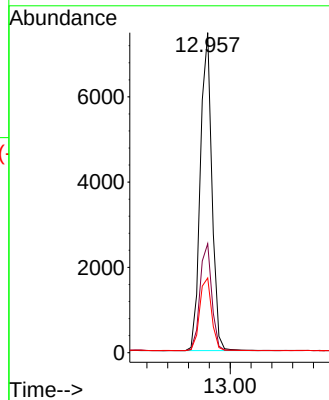
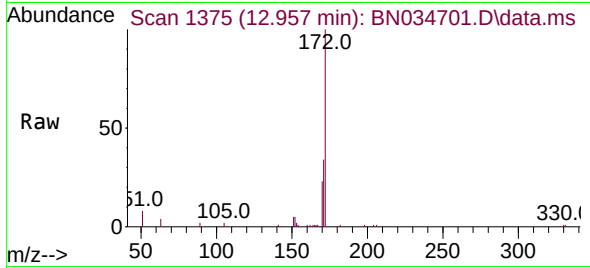




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.957 min Scan# 11
Delta R.T. 0.007 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

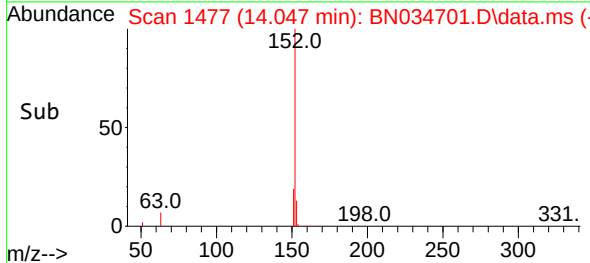
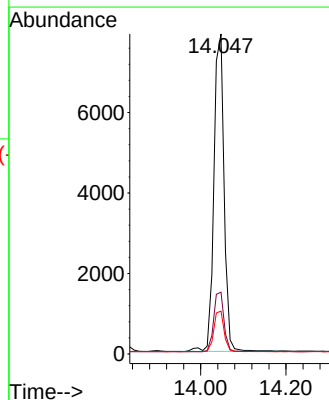
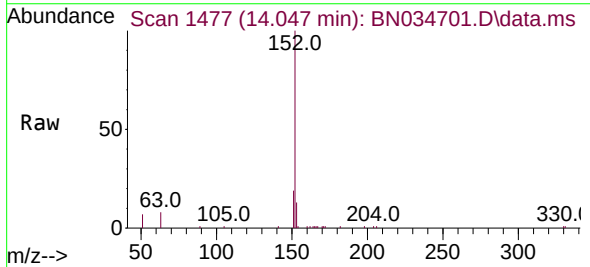
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

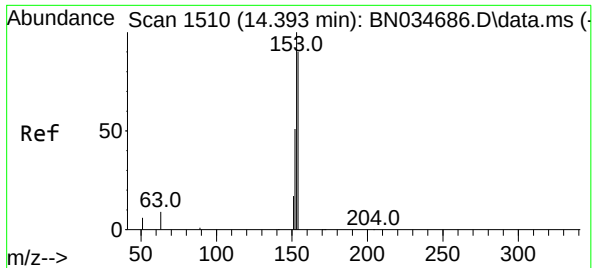
Tgt Ion:	172	Resp:	11511
Ion Ratio	Lower	Upper	
172	100		
171	34.0	28.3	42.5
170	23.3	19.8	29.6



#16
Acenaphthylene
Concen: 0.337 ng
RT: 14.047 min Scan# 1477
Delta R.T. 0.007 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:	152	Resp:	13092
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.6	23.4
153	12.8	10.6	15.8

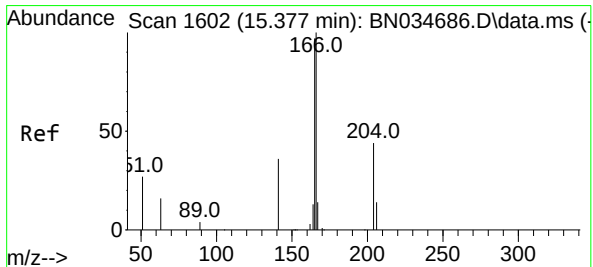
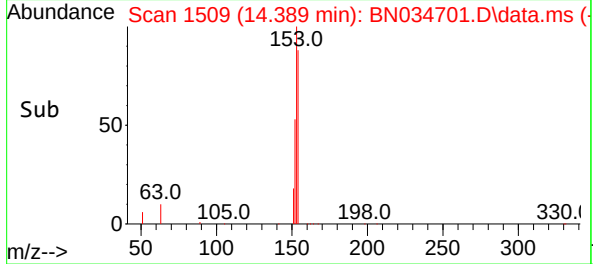
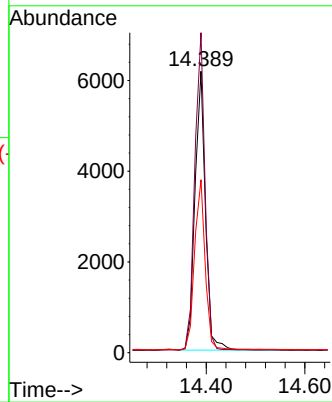
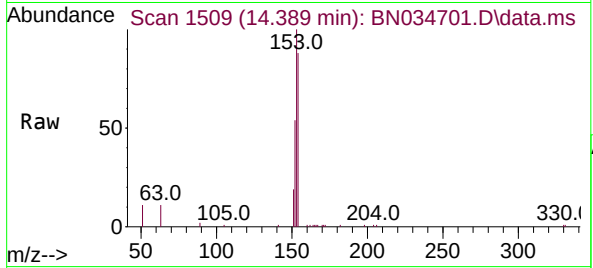




#17
Acenaphthene
Concen: 0.338 ng
RT: 14.389 min Scan# 1509
Delta R.T. -0.004 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

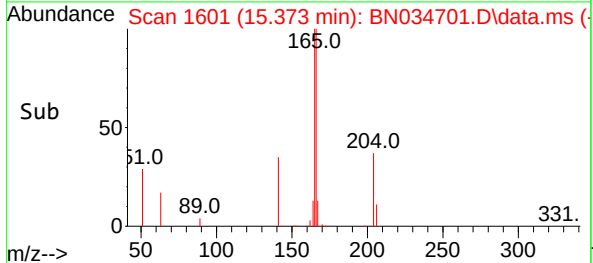
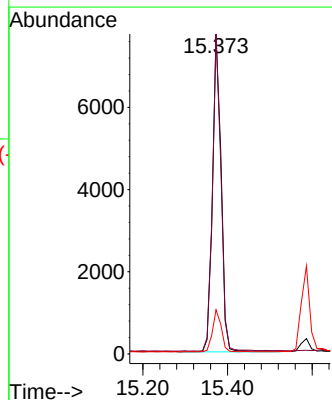
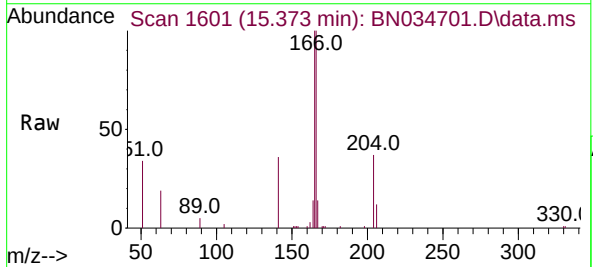
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

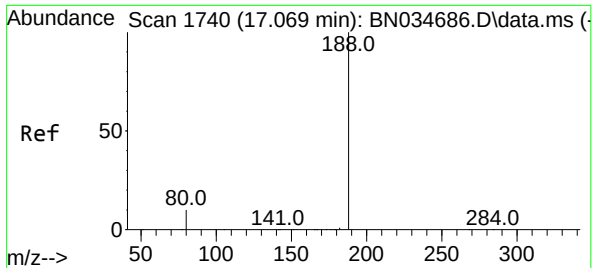
Tgt Ion:154 Resp: 9042
Ion Ratio Lower Upper
154 100
153 111.5 88.2 132.2
152 61.5 46.9 70.3



#18
Fluorene
Concen: 0.333 ng
RT: 15.373 min Scan# 1601
Delta R.T. -0.004 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:166 Resp: 10979
Ion Ratio Lower Upper
166 100
165 97.2 78.8 118.2
167 13.2 10.6 16.0

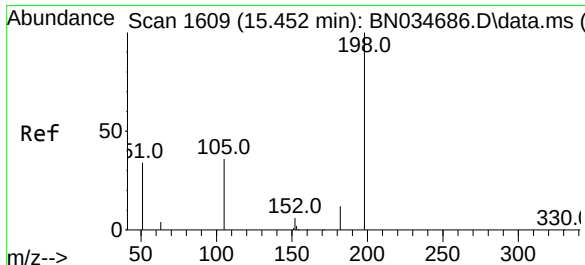
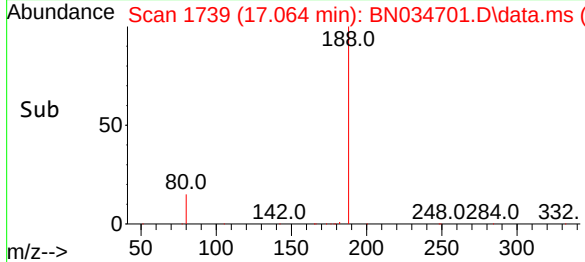
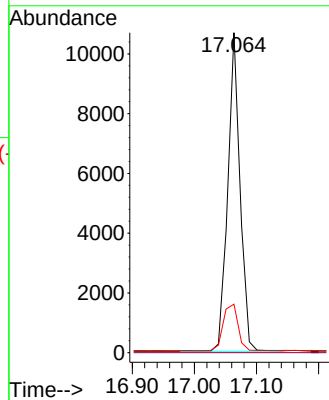
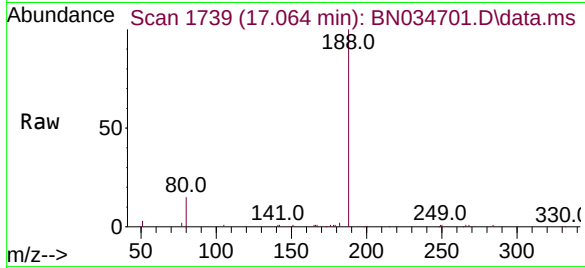




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.064 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

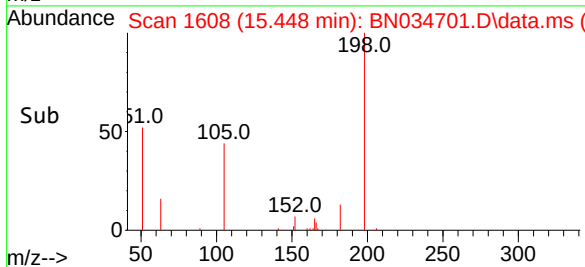
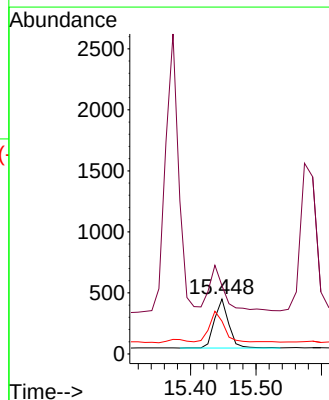
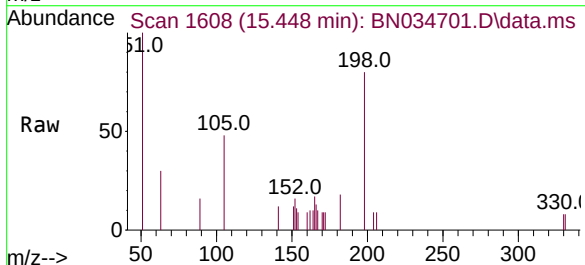
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

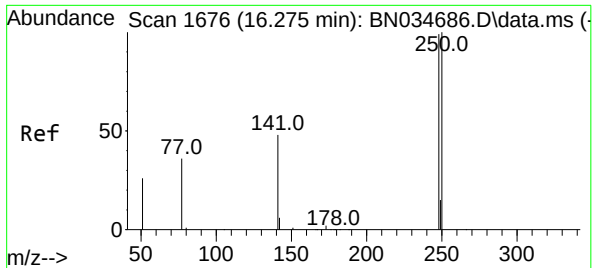
Tgt Ion:188 Resp: 14577
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.2 8.9 13.3#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.306 ng
RT: 15.448 min Scan# 1608
Delta R.T. -0.004 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:198 Resp: 621
Ion Ratio Lower Upper
198 100
51 124.4 91.8 137.8
105 59.8 44.3 66.5

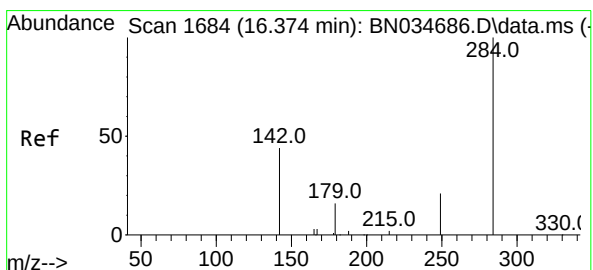
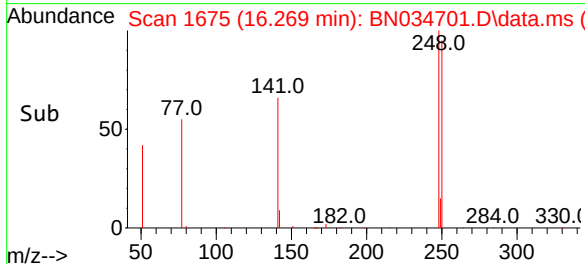
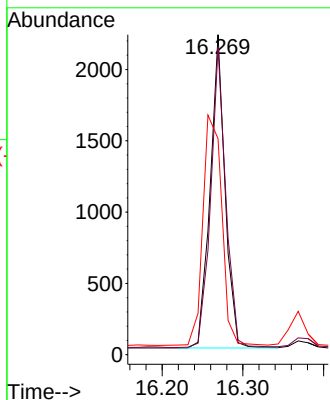
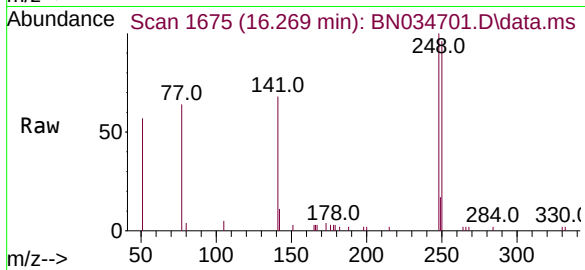




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

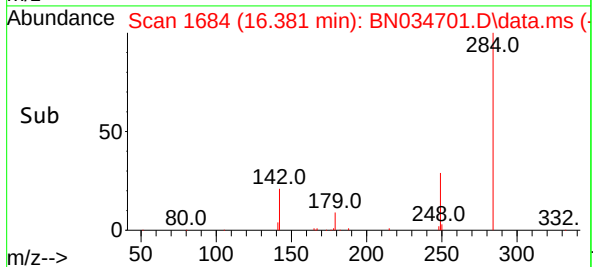
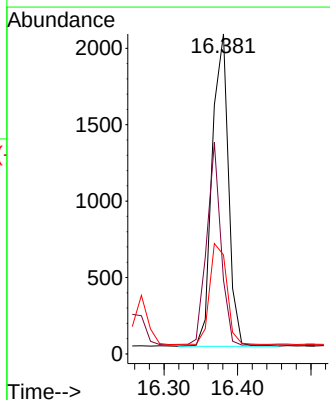
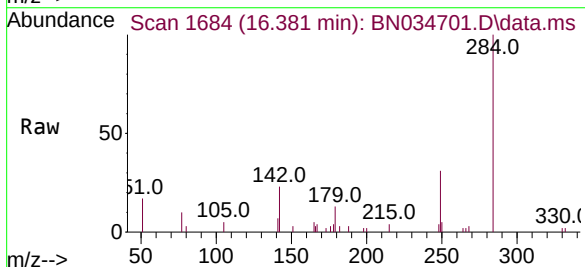
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

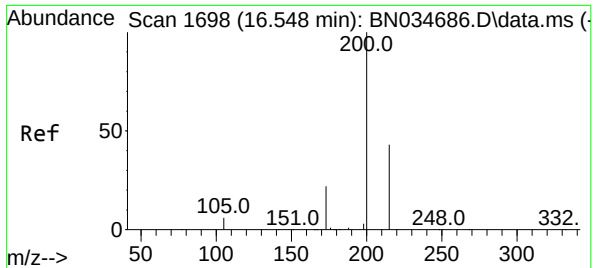
Tgt Ion:248 Resp: 2820
Ion Ratio Lower Upper
248 100
250 96.0 80.9 121.3
141 67.5 40.5 60.7#



#22
Hexachlorobenzene
Concen: 0.373 ng
RT: 16.381 min Scan# 1684
Delta R.T. 0.007 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:284 Resp: 3143
Ion Ratio Lower Upper
284 100
142 56.7 43.6 65.4
249 34.2 26.6 40.0

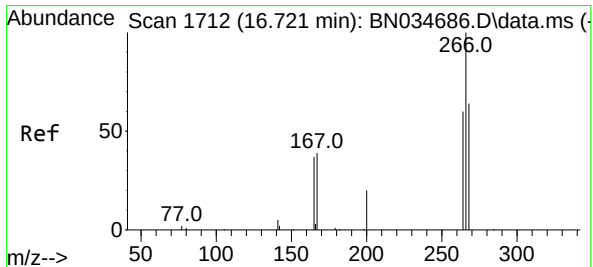
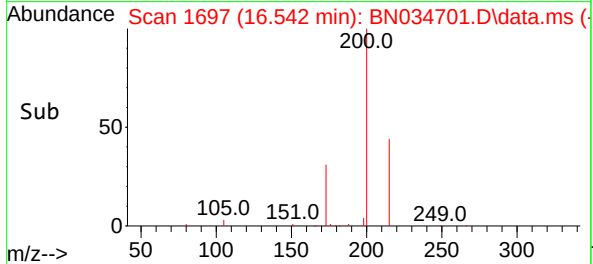
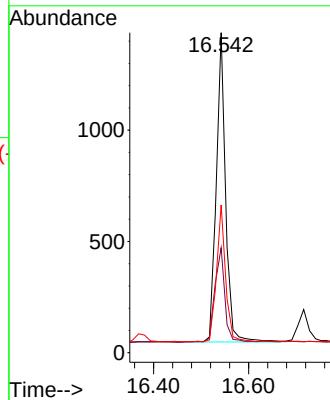
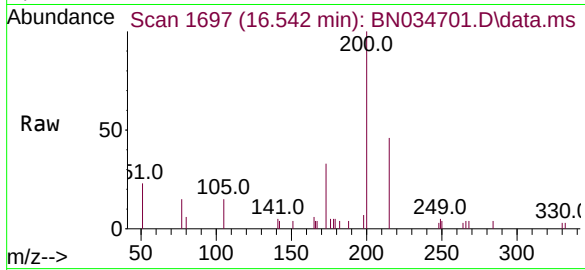




#23
Atrazine
Concen: 0.311 ng
RT: 16.542 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

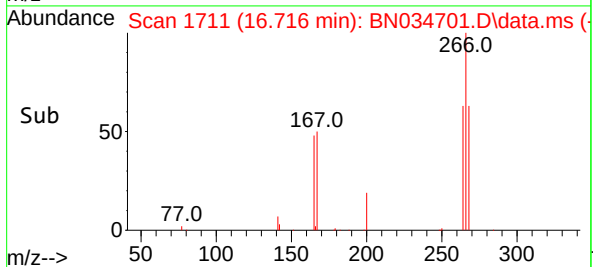
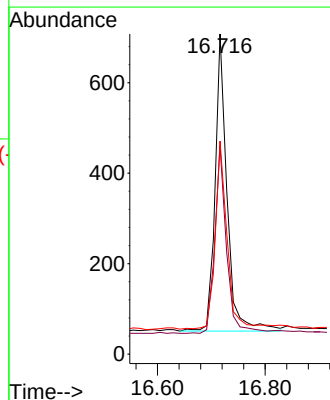
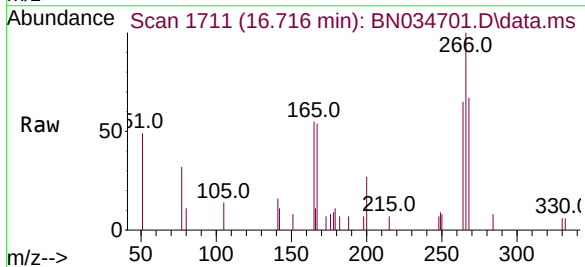
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

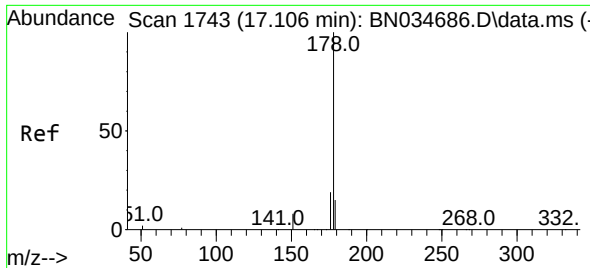
Tgt Ion:200 Resp: 1901
Ion Ratio Lower Upper
200 100
173 32.8 19.7 29.5#
215 46.2 35.7 53.5



#24
Pentachlorophenol
Concen: 0.338 ng
RT: 16.716 min Scan# 1711
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:266 Resp: 1008
Ion Ratio Lower Upper
266 100
264 63.5 49.4 74.2
268 65.7 50.5 75.7

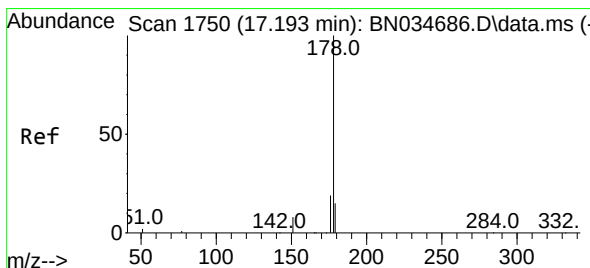
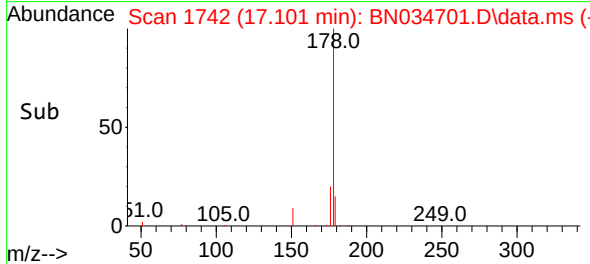
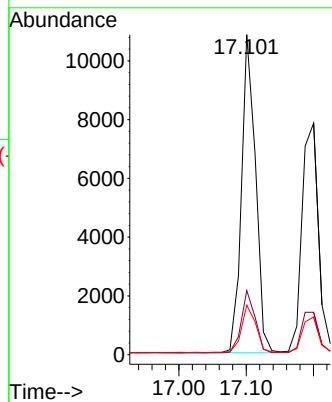
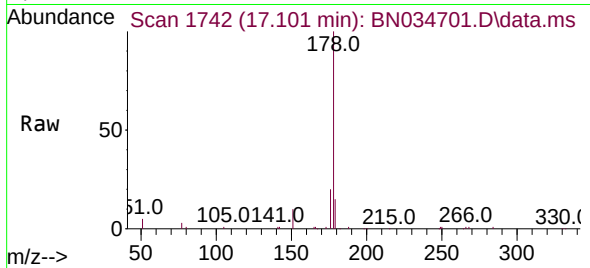




#25
Phenanthrene
Concen: 0.359 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.005 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

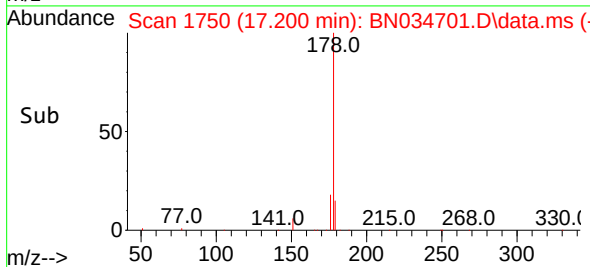
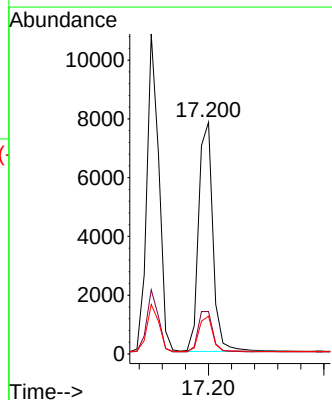
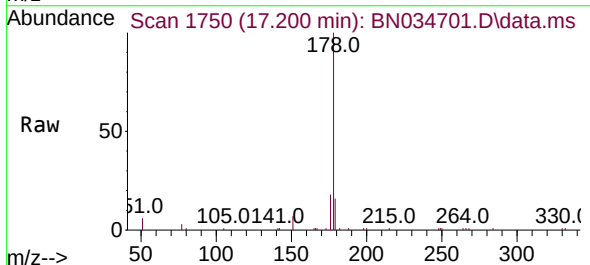
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

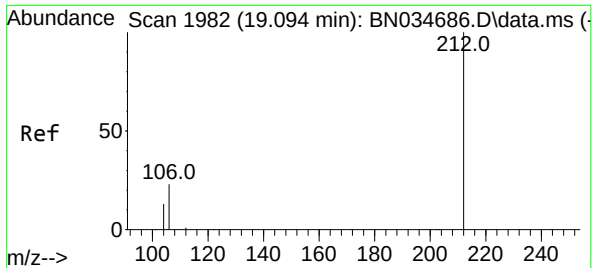
Tgt Ion:178 Resp: 15738
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.345 ng
RT: 17.200 min Scan# 1750
Delta R.T. 0.007 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:178 Resp: 13426
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.0 12.2 18.2

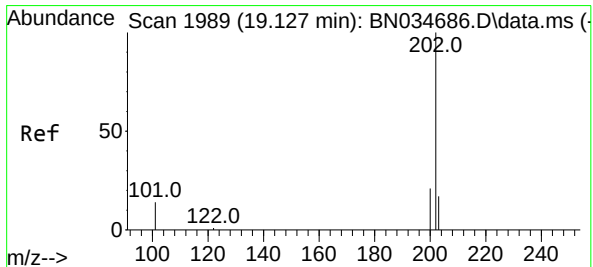
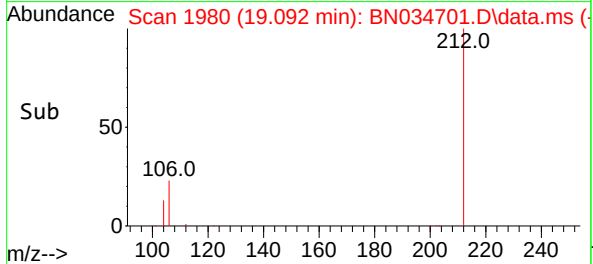
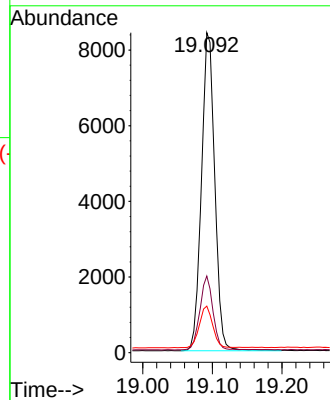
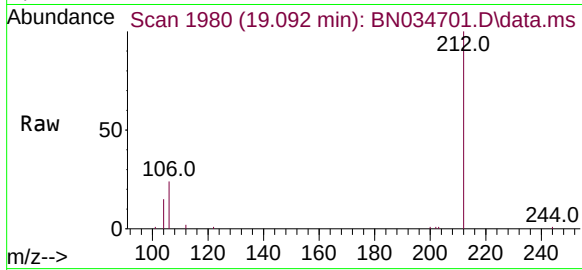




#27
Fluoranthene-d10
Concen: 0.341 ng
RT: 19.092 min Scan# 1982
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

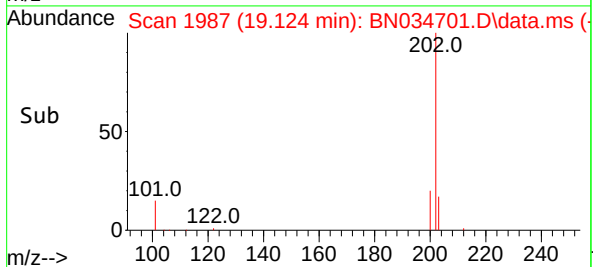
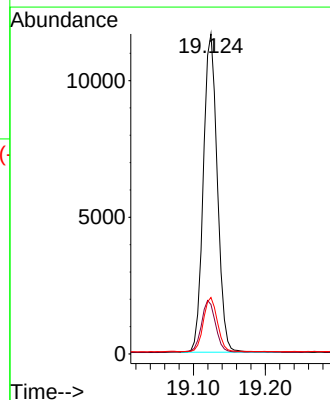
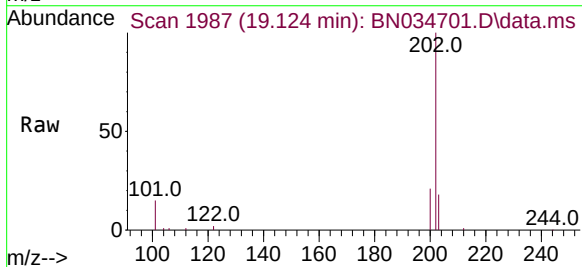
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

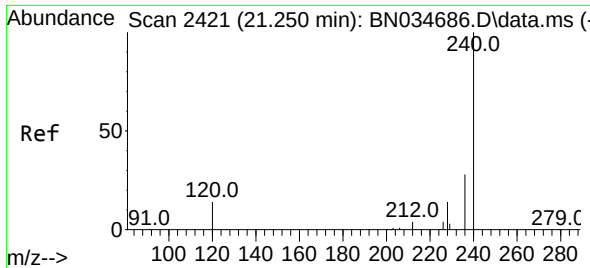
Tgt Ion:212 Resp: 11190
Ion Ratio Lower Upper
212 100
106 22.7 17.8 26.8
104 13.4 10.2 15.4



#28
Fluoranthene
Concen: 0.343 ng
RT: 19.124 min Scan# 1987
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:202 Resp: 15690
Ion Ratio Lower Upper
202 100
101 16.8 12.8 19.2
203 17.0 13.5 20.3

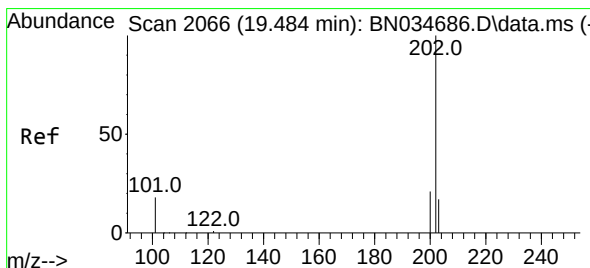
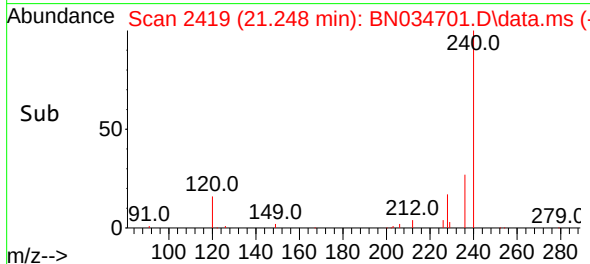
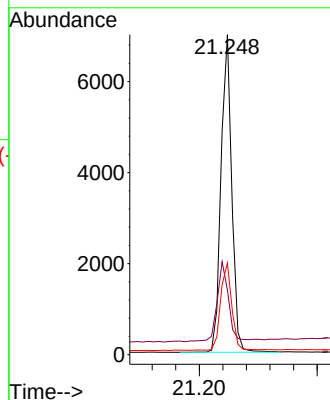
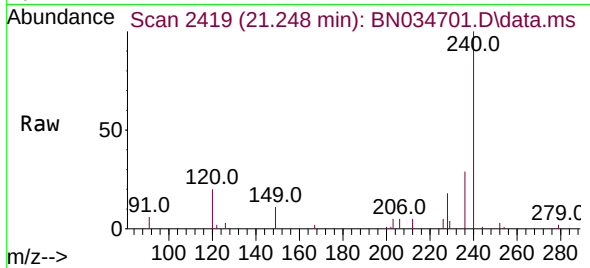




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.248 min Scan# 2419
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

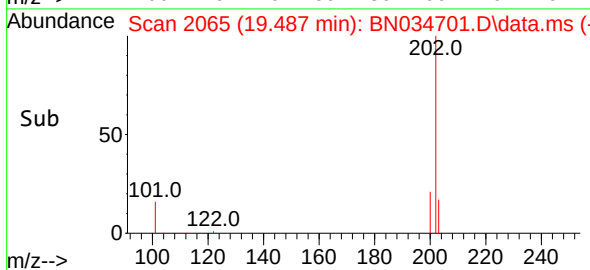
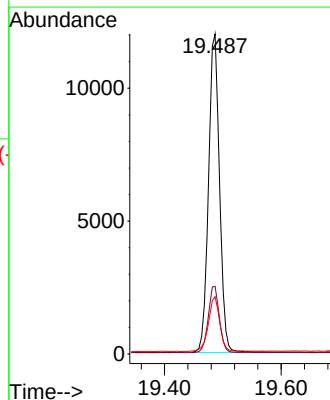
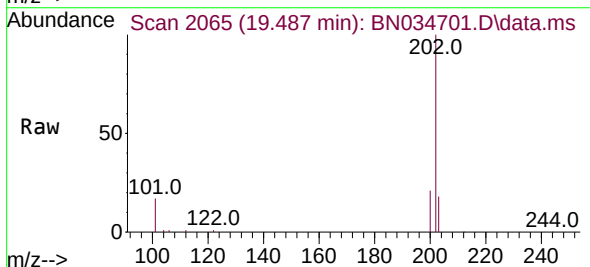
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

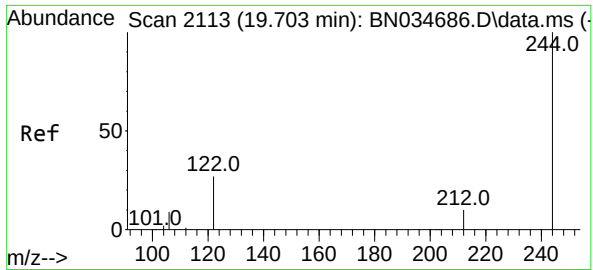
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.3	14.2	21.2
236	28.6	23.1	34.7



#30
Pyrene
Concen: 0.348 ng
RT: 19.487 min Scan# 2065
Delta R.T. 0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.6	14.2	21.4

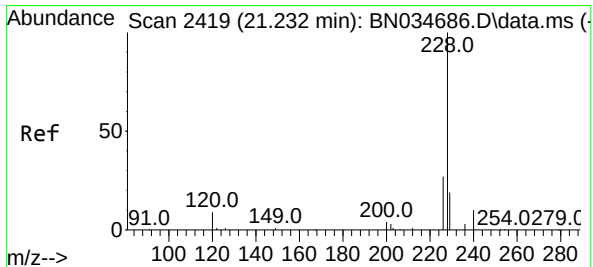
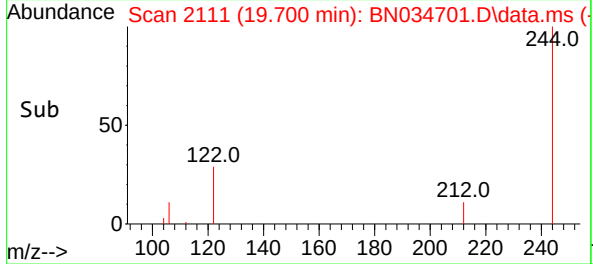
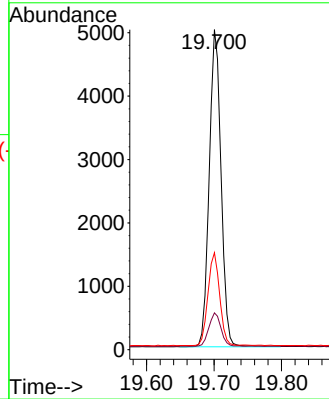
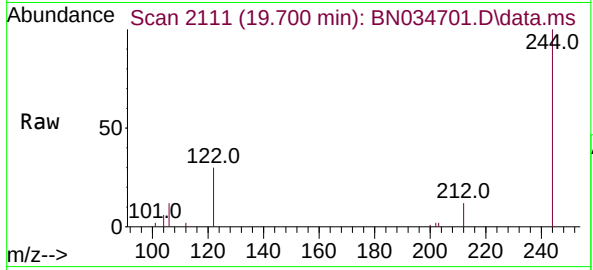




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.700 min Scan# 2113
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

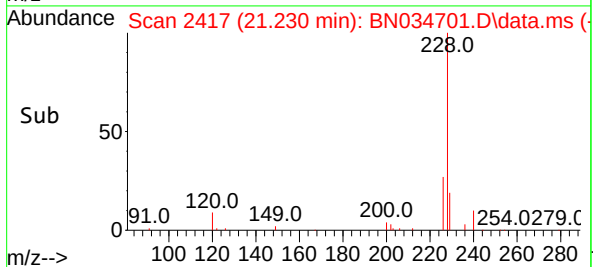
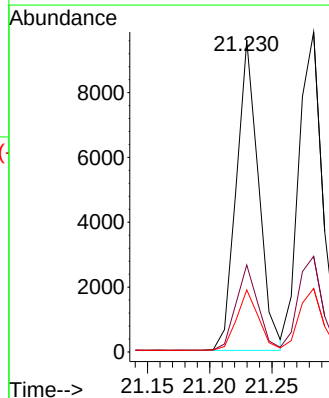
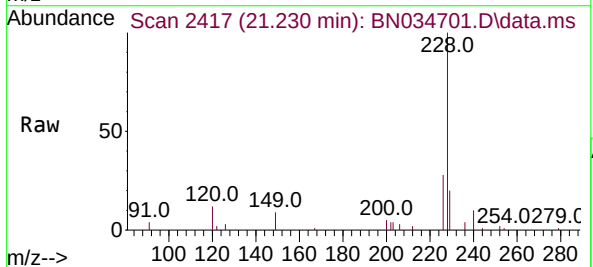
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

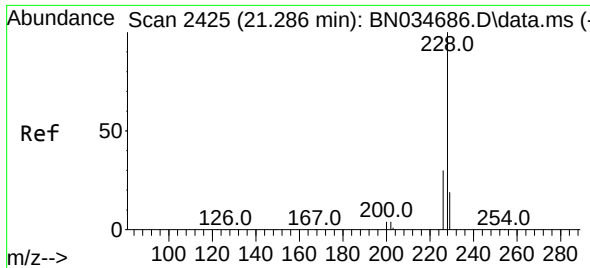
Tgt Ion:244 Resp: 6100
Ion Ratio Lower Upper
244 100
212 11.5 8.6 13.0
122 30.3 22.3 33.5



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.230 min Scan# 2417
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:228 Resp: 11854
Ion Ratio Lower Upper
228 100
226 27.9 22.0 33.0
229 19.9 15.6 23.4

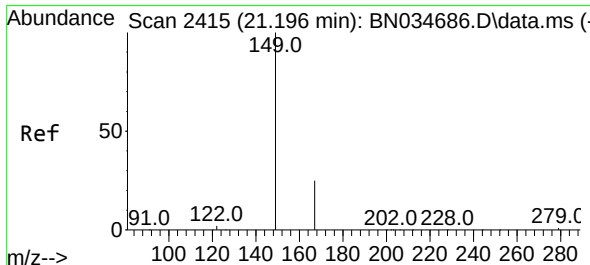
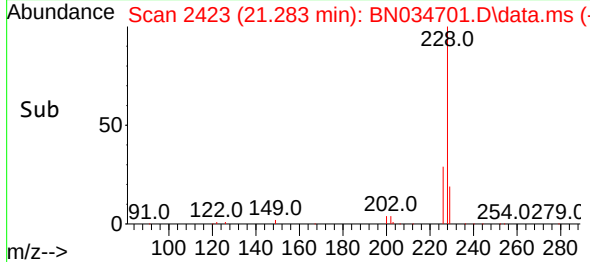
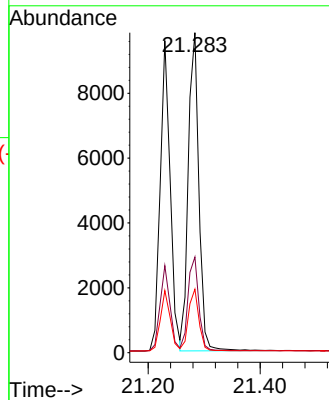
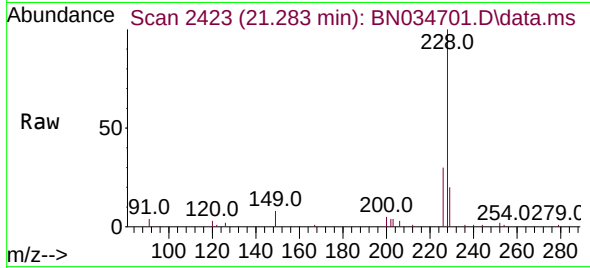




#33
Chrysene
Concen: 0.370 ng
RT: 21.283 min Scan# 2425
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

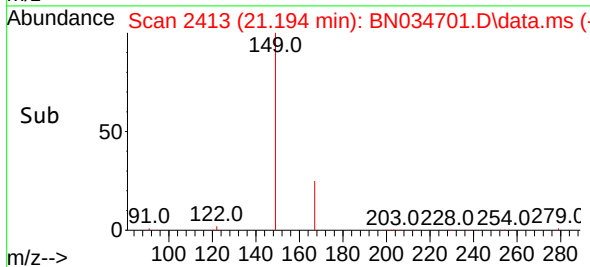
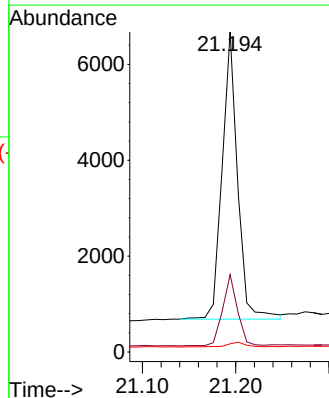
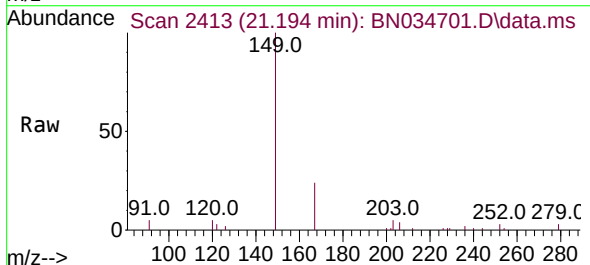
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

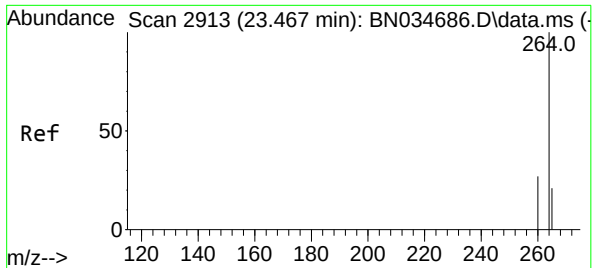
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.9	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.194 min Scan# 2413
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.7	19.7	29.5
279	1.9	1.8	2.6

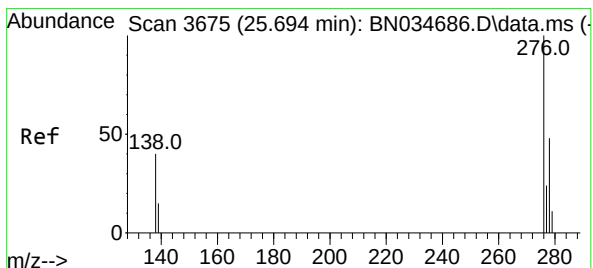
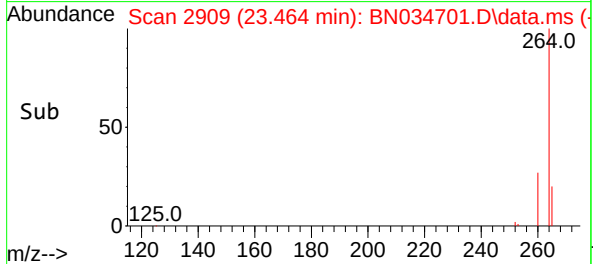
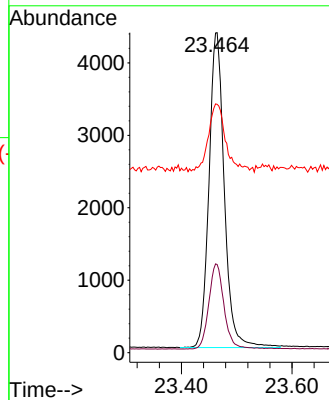
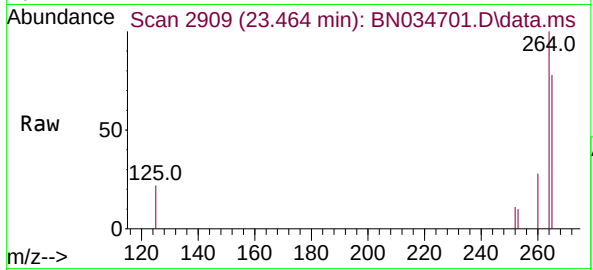




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.464 min Scan# 2909
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

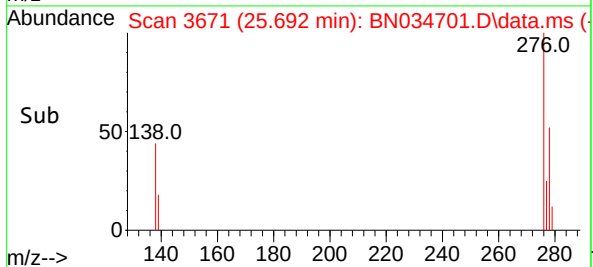
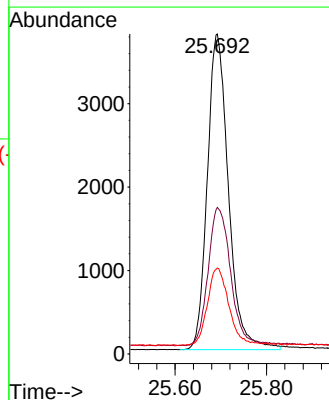
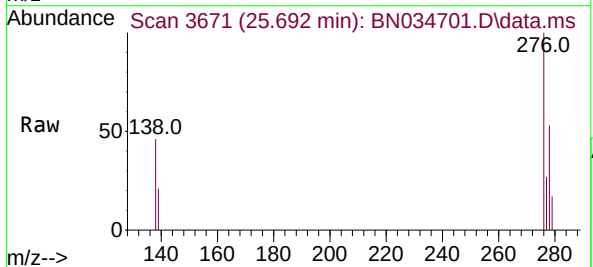
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

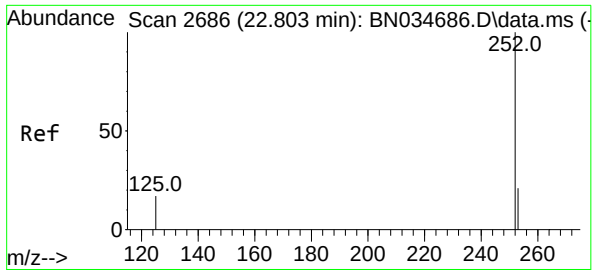
Tgt Ion:264 Resp: 8336
Ion Ratio Lower Upper
264 100
260 27.6 21.9 32.9
265 77.6 60.6 91.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.378 ng
RT: 25.692 min Scan# 3671
Delta R.T. -0.002 min
Lab File: BN034701.D
Acq: 24 Oct 2024 21:01

Tgt Ion:276 Resp: 12128
Ion Ratio Lower Upper
276 100
138 46.6 35.1 52.7
277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.361 ng

RT: 22.801 min Scan# 2682

Delta R.T. -0.002 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

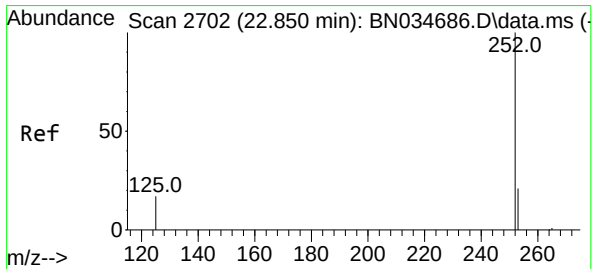
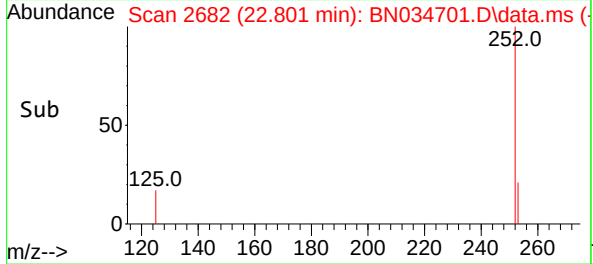
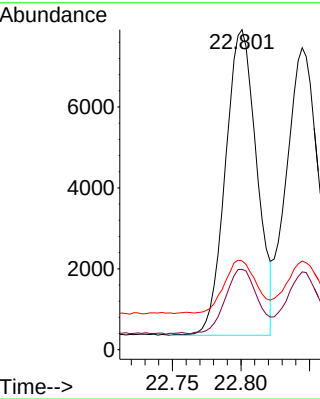
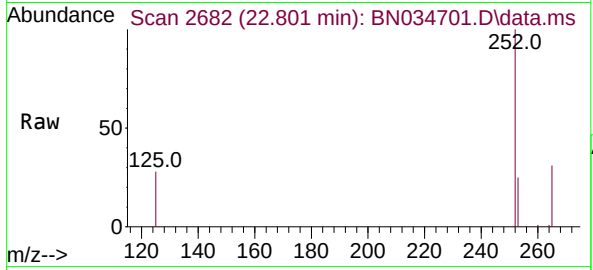
Tgt Ion:252 Resp: 12003

Ion Ratio Lower Upper

252 100

253 25.1 20.0 30.0

125 27.7 20.9 31.3



#38

Benzo(k)fluoranthene

Concen: 0.362 ng

RT: 22.845 min Scan# 2697

Delta R.T. -0.005 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

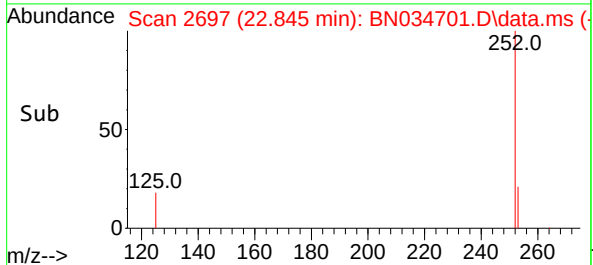
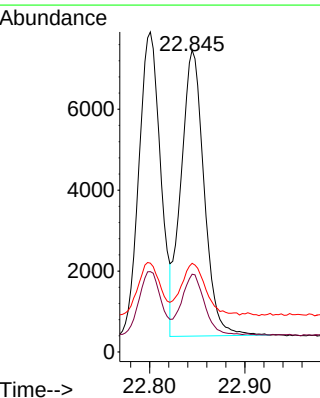
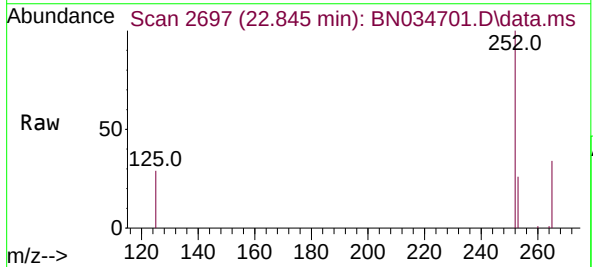
Tgt Ion:252 Resp: 11895

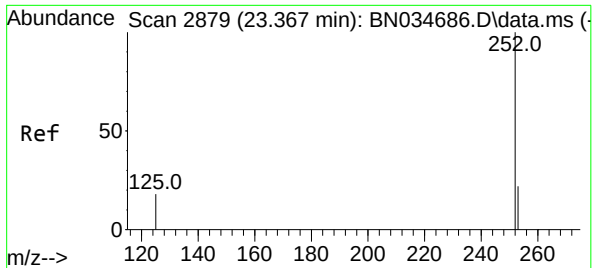
Ion Ratio Lower Upper

252 100

253 25.8 20.6 31.0

125 29.4 21.6 32.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.368 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

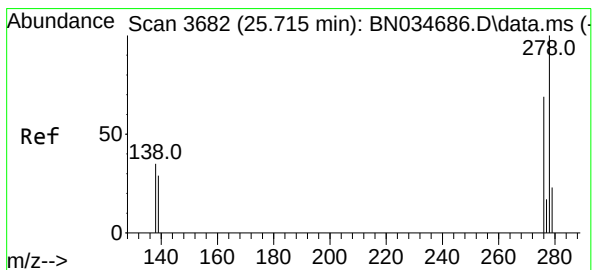
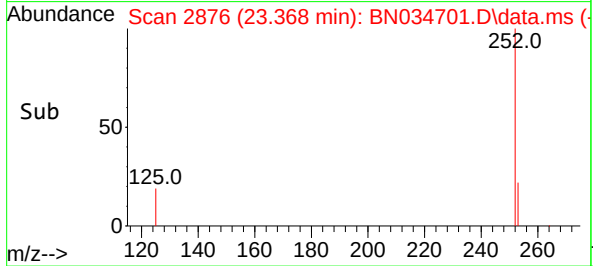
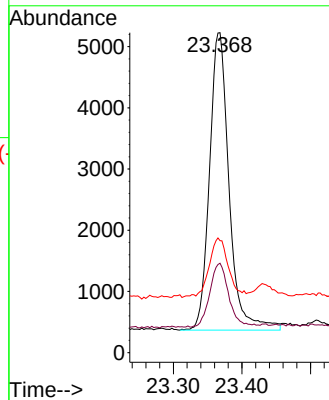
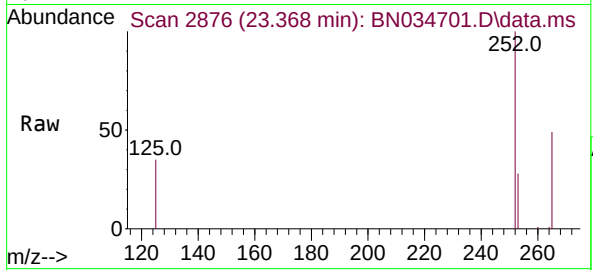
Tgt Ion:252 Resp: 9650

Ion Ratio Lower Upper

252 100

253 28.0 22.2 33.4

125 35.0 26.0 39.0



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

RT: 25.713 min Scan# 3678

Delta R.T. -0.002 min

Lab File: BN034701.D

Acq: 24 Oct 2024 21:01

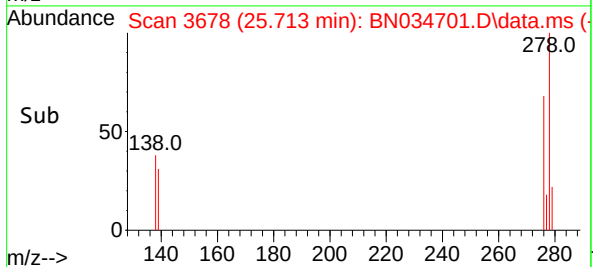
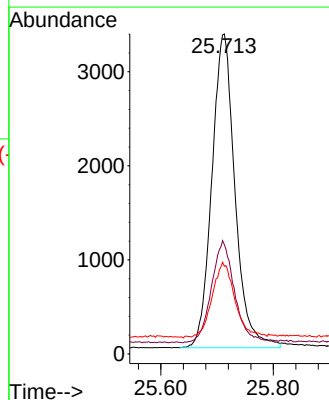
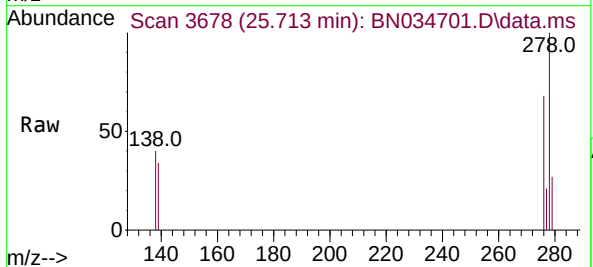
Tgt Ion:278 Resp: 9542

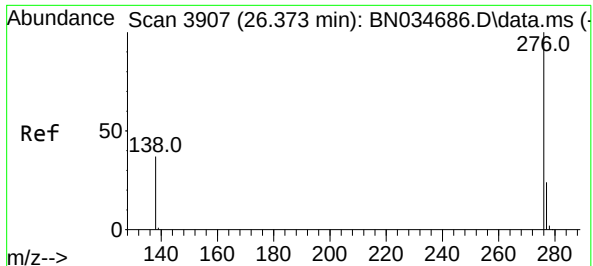
Ion Ratio Lower Upper

278 100

139 34.2 25.4 38.2

279 27.4 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.390 ng

RT: 26.365 min Scan# 3901

Delta R.T. -0.008 min

Lab File: BN034701.D

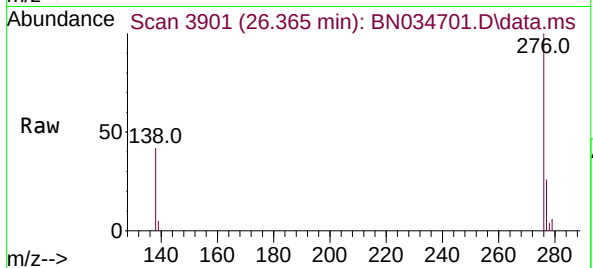
Acq: 24 Oct 2024 21:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



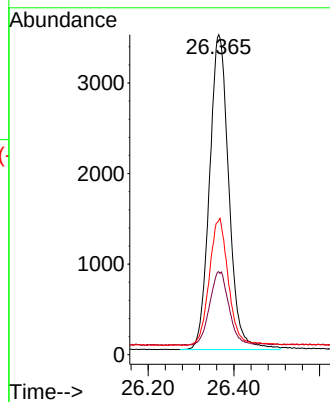
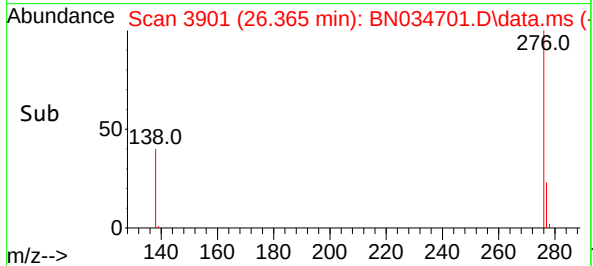
Tgt Ion:276 Resp: 10879

Ion Ratio Lower Upper

276 100

277 25.9 21.3 31.9

138 42.0 31.9 47.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034701.D
 Acq On : 24 Oct 2024 21:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:31 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 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	93	0.00
2	1,4-Dioxane	0.532	0.489	8.1	94	0.00
3	n-Nitrosodimethylamine	0.775	0.735	5.2	97	0.00
4 S	2-Fluorophenol	1.189	1.172	1.4	102	0.00
5 S	Phenol-d6	1.568	1.616	-3.1	109	0.00
6	bis(2-Chloroethyl)ether	1.274	1.161	8.9	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
8 S	Nitrobenzene-d5	0.336	0.290	13.7	92	0.00
9	Naphthalene	1.107	0.998	9.8	95	0.00
10	Hexachlorobutadiene	0.166	0.150	9.6	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.550	0.473	14.0	92	0.00
12	2-Methylnaphthalene	0.687	0.597	13.1	93	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
14 S	2,4,6-Tribromophenol	0.124	0.096	22.6	87	0.00
15 S	2-Fluorobiphenyl	1.590	1.425	10.4	90	0.00
16	Acenaphthylene	1.921	1.621	15.6	89	0.00
17	Acenaphthene	1.324	1.119	15.5	87	0.00
18	Fluorene	1.634	1.359	16.8	85	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.043	23.2	80	0.00
21	4-Bromophenyl-phenylether	0.213	0.193	9.4	81	0.00
22	Hexachlorobenzene	0.231	0.216	6.5	82	0.00
23	Atrazine	0.168	0.130	22.6	75	0.00
24	Pentachlorophenol	0.082	0.069	15.9	87	0.00
25	Phenanthrene	1.202	1.080	10.1	81	0.00
26	Anthracene	1.067	0.921	13.7	79	0.00
27 SURR	Fluoranthene-d10	0.901	0.768	14.8	79	0.00
28	Fluoranthene	1.253	1.076	14.1	79	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	83	0.00
30	Pyrene	2.055	1.790	12.9	79	0.00
31 S	Terphenyl-d14	0.817	0.690	15.5	78	0.00
32	Benzo(a)anthracene	1.528	1.341	12.2	81	0.00
33	Chrysene	1.581	1.462	7.5	84	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	0.775	10.6	89	0.00
35 I	Perylene-d12	1.000	1.000	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.455	5.6	89	0.00
37	Benzo(b)fluoranthene	1.597	1.440	9.8	84	0.00
38	Benzo(k)fluoranthene	1.576	1.427	9.5	89	0.00
39 C	Benzo(a)pyrene	1.282	1.158	9.7	87	0.00
40	Dibenzo(a,h)anthracene	1.215	1.145	5.8	89	0.00
41	Benzo(g,h,i)perylene	1.340	1.305	2.6	90	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034701.D
 Acq On : 24 Oct 2024 21:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 02:07:31 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 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	93	0.00
2	1,4-Dioxane	0.400	0.367	8.3	94	0.00
3	n-Nitrosodimethylamine	0.400	0.380	5.0	97	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	102	0.00
5 S	Phenol-d6	0.400	0.412	-3.0	109	0.00
6	bis(2-Chloroethyl)ether	0.400	0.365	8.8	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	94	0.00
8 S	Nitrobenzene-d5	0.400	0.345	13.8	92	0.00
9	Naphthalene	0.400	0.361	9.8	95	0.00
10	Hexachlorobutadiene	0.400	0.362	9.5	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.344	14.0	92	0.00
12	2-Methylnaphthalene	0.400	0.348	13.0	93	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	87	0.00
14 S	2,4,6-Tribromophenol	0.400	0.312	22.0	87	0.00
15 S	2-Fluorobiphenyl	0.400	0.359	10.3	90	0.00
16	Acenaphthylene	0.400	0.337	15.8	89	0.00
17	Acenaphthene	0.400	0.338	15.5	87	0.00
18	Fluorene	0.400	0.333	16.8	85	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	80	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.306	23.5	80	0.00
21	4-Bromophenyl-phenylether	0.400	0.363	9.3	81	0.00
22	Hexachlorobenzene	0.400	0.373	6.8	82	0.00
23	Atrazine	0.400	0.311	22.3	75	0.00
24	Pentachlorophenol	0.400	0.338	15.5	87	0.00
25	Phenanthrene	0.400	0.359	10.3	81	0.00
26	Anthracene	0.400	0.345	13.8	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.341	14.8	79	0.00
28	Fluoranthene	0.400	0.343	14.2	79	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	83	0.00
30	Pyrene	0.400	0.348	13.0	79	0.00
31 S	Terphenyl-d14	0.400	0.338	15.5	78	0.00
32	Benzo(a)anthracene	0.400	0.351	12.3	81	0.00
33	Chrysene	0.400	0.370	7.5	84	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.358	10.5	89	0.00
35 I	Perylene-d12	0.400	0.400	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.378	5.5	89	0.00
37	Benzo(b)fluoranthene	0.400	0.361	9.8	84	0.00
38	Benzo(k)fluoranthene	0.400	0.362	9.5	89	0.00
39 C	Benzo(a)pyrene	0.400	0.361	9.8	87	0.00
40	Dibenzo(a,h)anthracene	0.400	0.377	5.8	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.390	2.5	90	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.: P4428 SAS No.: P4428 SDG No.: P4428

Instrument ID: BNA_N Calibration Date/Time: 10/25/2024 07:51

Lab File ID: BN034719.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	0.486		-11.6	50.0
Fluoranthene-d10	0.901	0.942		4.6	50.0
2-Fluorophenol	1.189	1.294		8.8	50.0
Phenol-d6	1.568	1.736		10.7	50.0
Nitrobenzene-d5	0.336	0.300		-10.7	50.0
2-Fluorobiphenyl	1.590	1.367		-14.0	50.0
2,4,6-Tribromophenol	0.124	0.113		-8.9	50.0
Terphenyl-d14	0.817	0.696		-14.8	50.0
1,4-Dioxane	0.532	0.475		-10.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034719.D
 Acq On : 25 Oct 2024 07:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 25 08:18:02 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 13:17:02 2024
 Response via : Initial Calibration

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

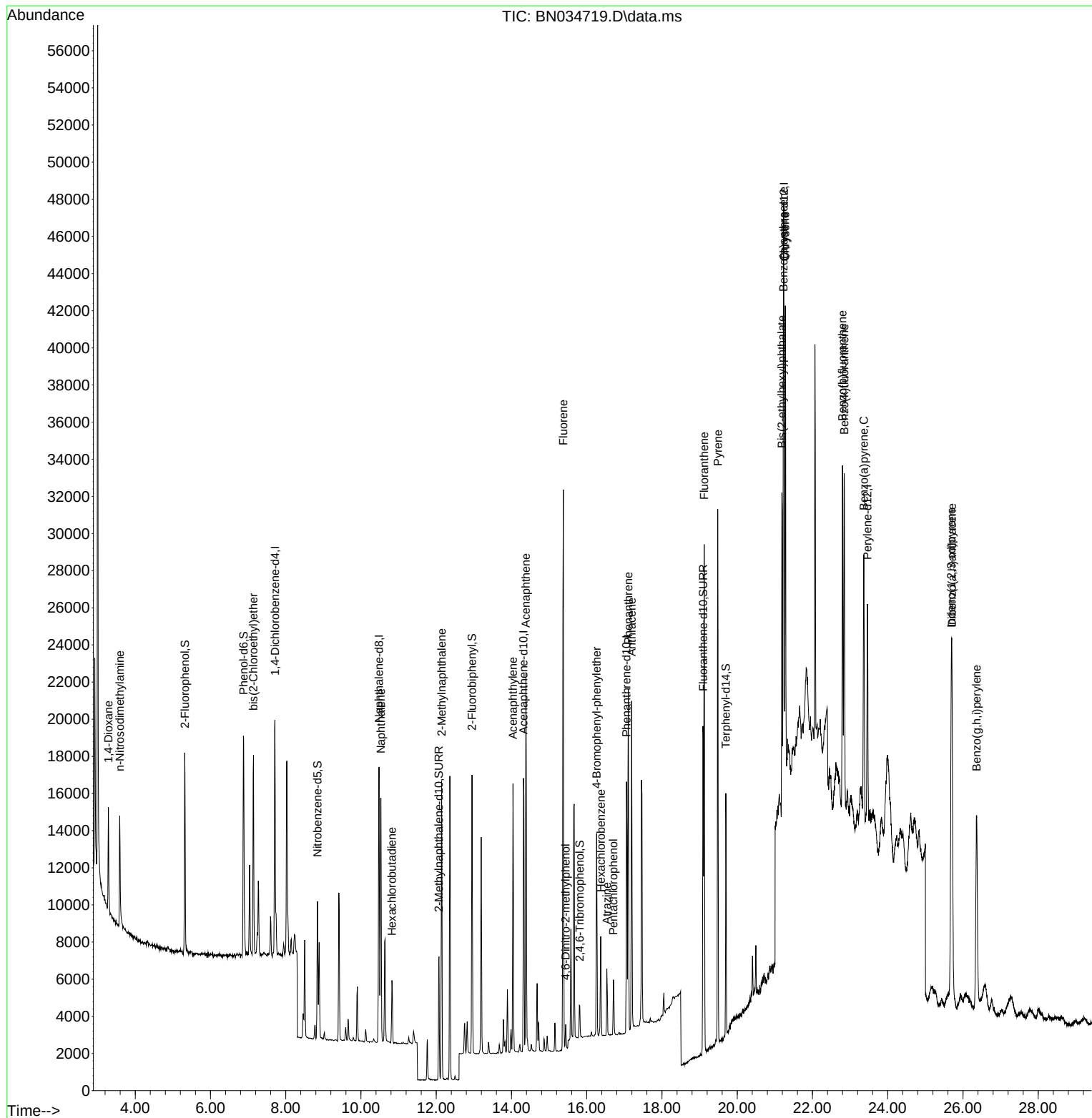
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6027	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	17907	0.400	ng	0.00
13) Acenaphthene-d10	14.318	164	8880	0.400	ng	-0.01
19) Phenanthrene-d10	17.057	188	17802	0.400	ng	#-0.01
29) Chrysene-d12	21.241	240	14770	0.400	ng	# 0.00
35) Perylene-d12	23.461	264	15941	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	7797	0.435	ng	0.00
5) Phenol-d6	6.882	99	10465	0.443	ng	0.00
8) Nitrobenzene-d5	8.845	82	5374	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	8705	0.354	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	1006	0.366	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	12140	0.344	ng	0.00
27) Fluoranthene-d10	19.094	212	16769	0.418	ng	0.00
31) Terphenyl-d14	19.698	244	10278	0.341	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.285	88	2863	0.357	ng	97
3) n-Nitrosodimethylamine	3.588	42	4215	0.361	ng	96
6) bis(2-Chloroethyl)ether	7.141	93	7199	0.375	ng	99
9) Naphthalene	10.532	128	18267	0.369	ng	100
10) Hexachlorobutadiene	10.821	225	2610	0.351	ng	# 98
12) 2-Methylnaphthalene	12.143	142	10986	0.357	ng	97
16) Acenaphthylene	14.040	152	14421	0.338	ng	100
17) Acenaphthene	14.382	154	10024	0.341	ng	98
18) Fluorene	15.377	166	12279	0.339	ng	100
20) 4,6-Dinitro-2-methylph...	15.441	198	746	0.301	ng	# 54
21) 4-Bromophenyl-phenylether	16.262	248	3313	0.349	ng	# 63
22) Hexachlorobenzene	16.374	284	3421	0.332	ng	95
23) Atrazine	16.535	200	2697	0.362	ng	# 90
24) Pentachlorophenol	16.709	266	1325	0.364	ng	98
25) Phenanthrene	17.106	178	18834	0.352	ng	99
26) Anthracene	17.193	178	17465	0.368	ng	99
28) Fluoranthene	19.122	202	23020	0.413	ng	99
30) Pyrene	19.484	202	24493	0.323	ng	99
32) Benzo(a)anthracene	21.232	228	22023	0.390	ng	99
33) Chrysene	21.277	228	20725	0.355	ng	98
34) Bis(2-ethylhexyl)phtha...	21.187	149	18018	0.563	ng	98
36) Indeno(1,2,3-cd)pyrene	25.688	276	23125	0.377	ng	95
37) Benzo(b)fluoranthene	22.797	252	21412	0.336	ng	# 34
38) Benzo(k)fluoranthene	22.841	252	20953	0.334	ng	# 32
39) Benzo(a)pyrene	23.364	252	19025	0.372	ng	# 20
40) Dibenzo(a,h)anthracene	25.709	278	17877	0.369	ng	# 58
41) Benzo(g,h,i)perylene	26.364	276	19691	0.369	ng	# 83

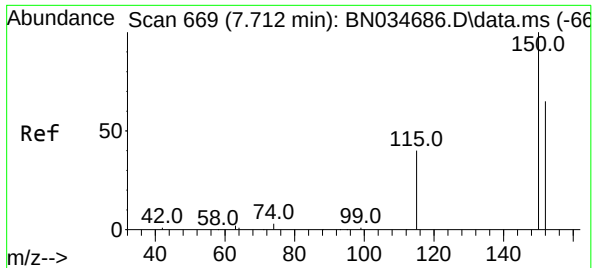
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\  
Data File : BN034719.D  
Acq On    : 25 Oct 2024   07:51  
Operator  : RC/JU  
Sample    : SSTDCCC0.4  
Misc      :  
ALS Vial  : 36   Sample Multiplier: 1
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Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

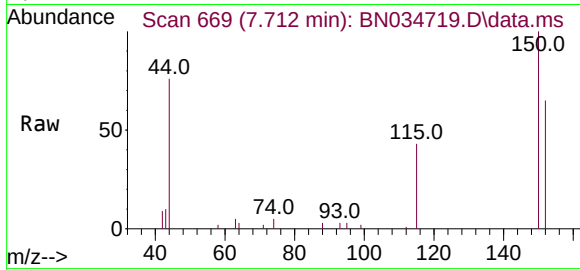
Quant Time: Oct 25 08:18:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



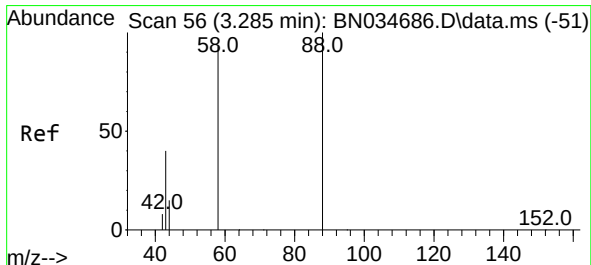
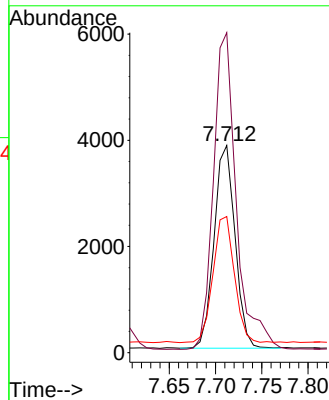
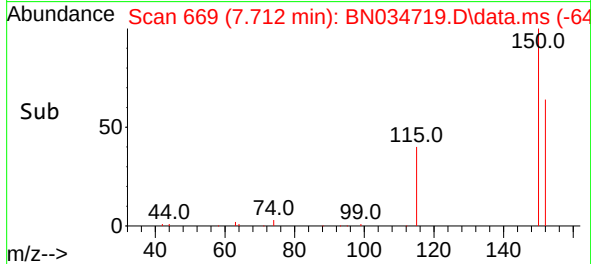


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

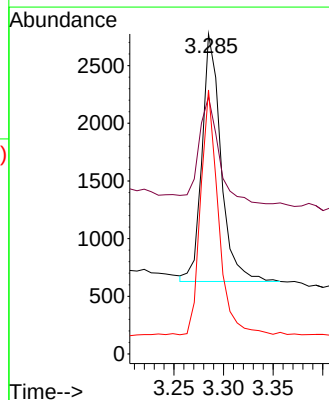
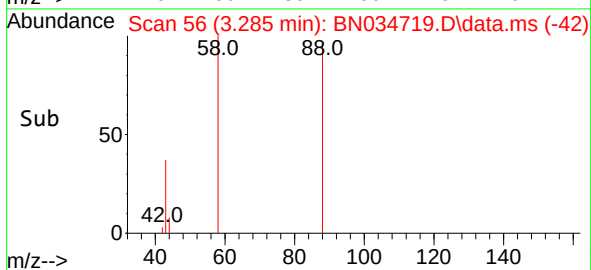
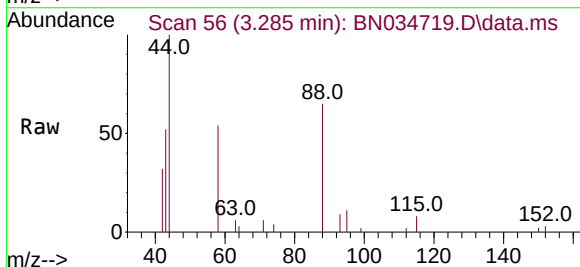


Tgt Ion: 152 Resp: 6027
Ion Ratio Lower Upper
152 100
150 154.5 122.7 184.1
115 65.7 51.0 76.6

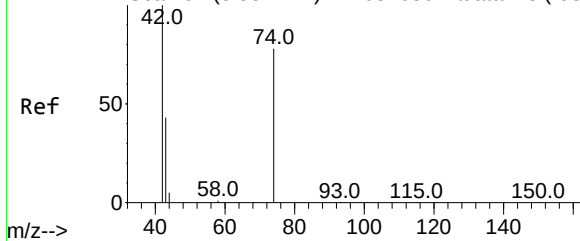


#2
1,4-Dioxane
Concen: 0.357 ng
RT: 3.285 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion: 88 Resp: 2863
Ion Ratio Lower Upper
88 100
43 45.3 32.1 48.1
58 92.2 73.7 110.5



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



#3

n-Nitrosodimethylamine

Concen: 0.361 ng

RT: 3.588 min Scan# 91

Delta R.T. 0.007 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4215

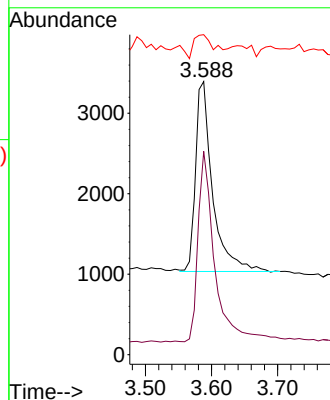
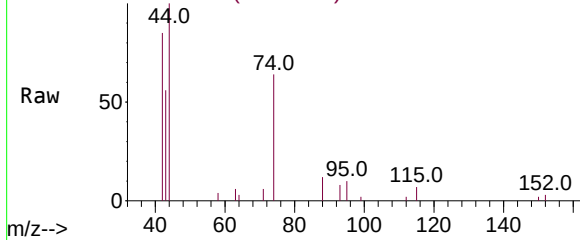
Ion Ratio Lower Upper

42 100

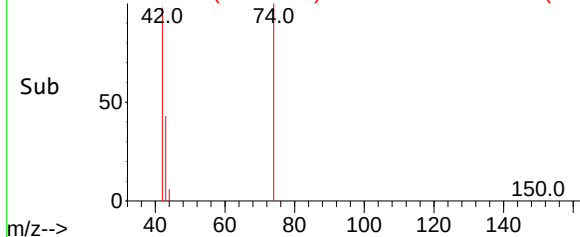
74 100.4 77.2 115.8

44 14.9 13.4 20.2

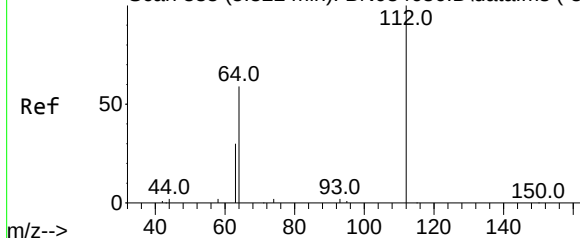
Abundance Scan 98 (3.588 min): BN034719.D\data.ms



Abundance Scan 98 (3.588 min): BN034719.D\data.ms (-76)



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



#4

2-Fluorophenol

Concen: 0.435 ng

RT: 5.322 min Scan# 338

Delta R.T. -0.000 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

Tgt Ion: 112 Resp: 7797

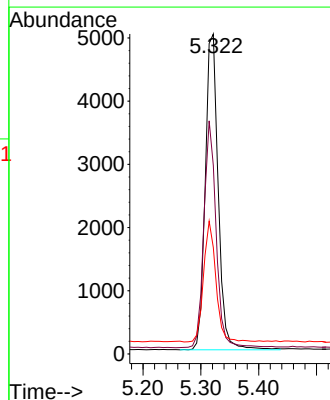
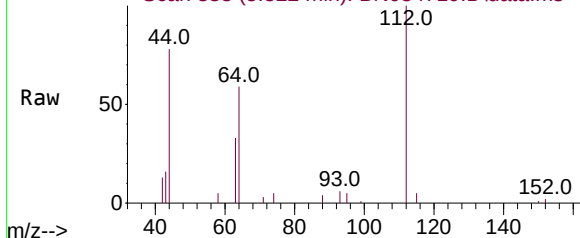
Ion Ratio Lower Upper

112 100

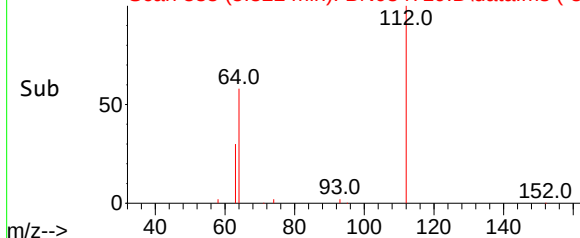
64 68.9 53.0 79.6

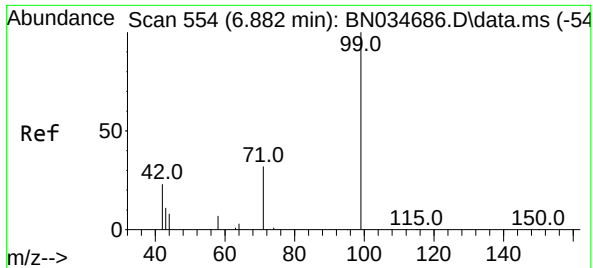
63 36.4 27.6 41.4

Abundance Scan 338 (5.322 min): BN034719.D\data.ms



Abundance Scan 338 (5.322 min): BN034719.D\data.ms (-31)

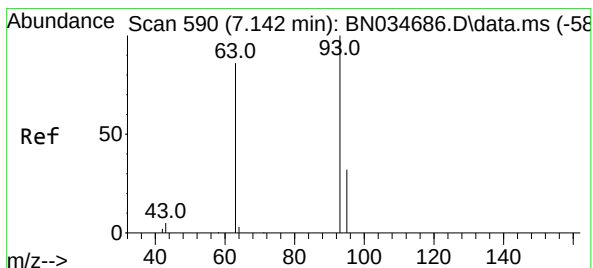
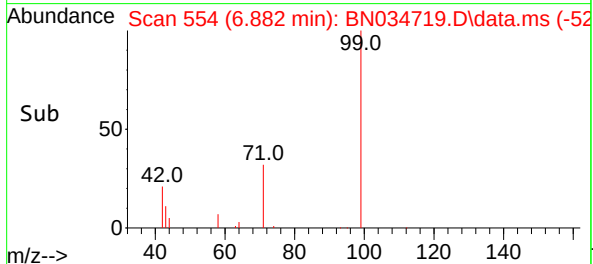
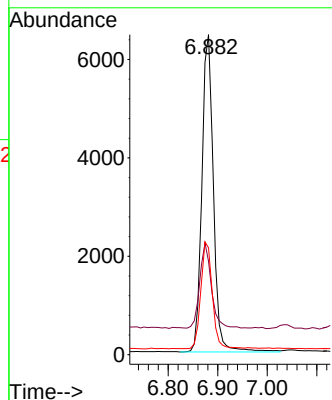
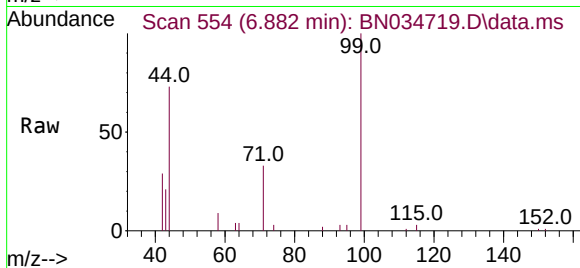




#5
Phenol-d6
Concen: 0.443 ng
RT: 6.882 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

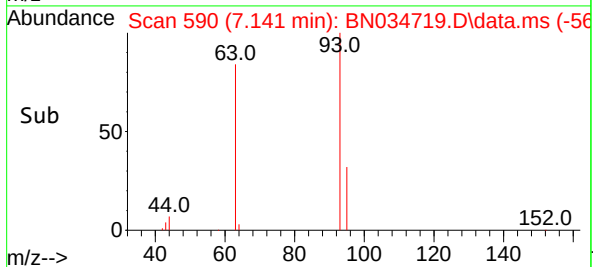
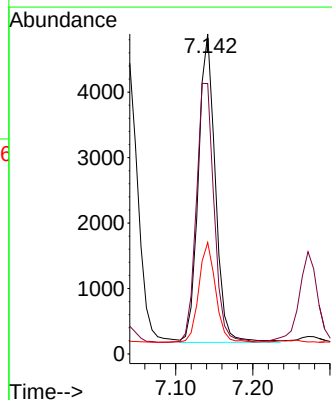
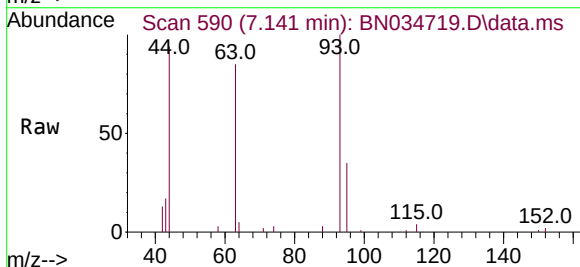
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

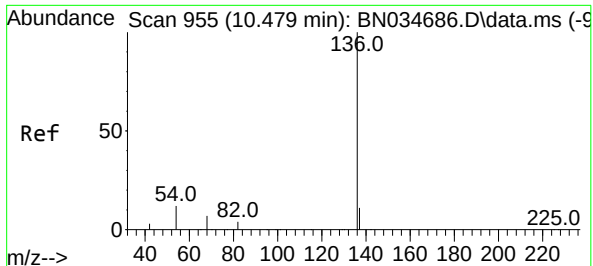
Tgt Ion: 99 Resp: 10465
Ion Ratio Lower Upper
99 100
42 26.7 21.8 32.8
71 33.4 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.141 min Scan# 590
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion: 93 Resp: 7199
Ion Ratio Lower Upper
93 100
63 88.1 71.5 107.3
95 32.2 25.8 38.6

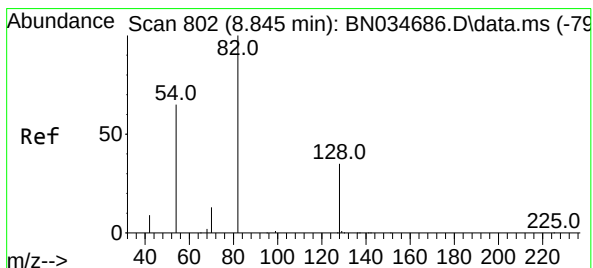
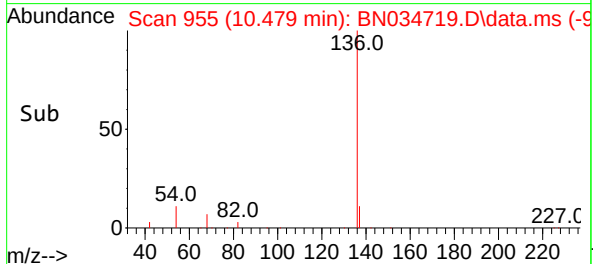
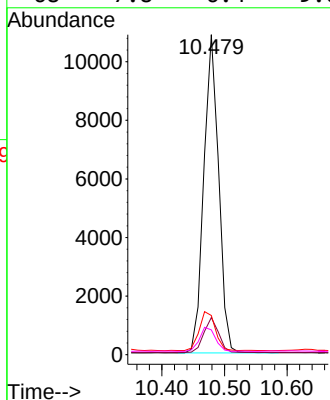
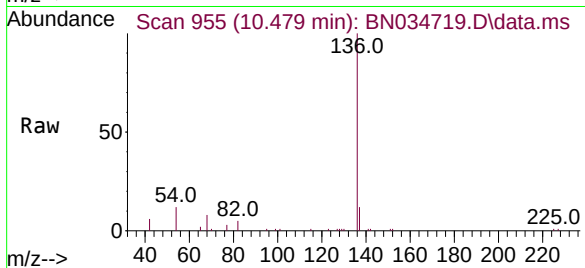




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

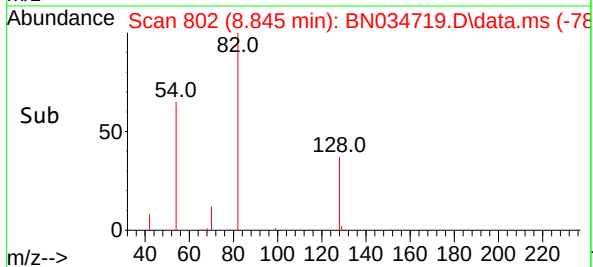
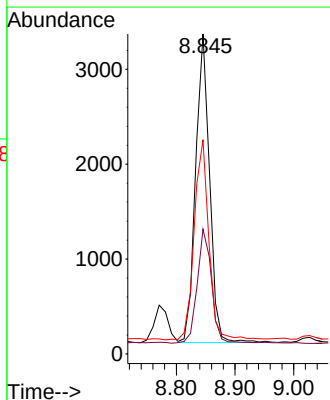
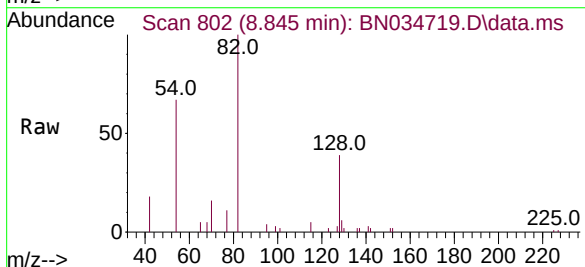
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

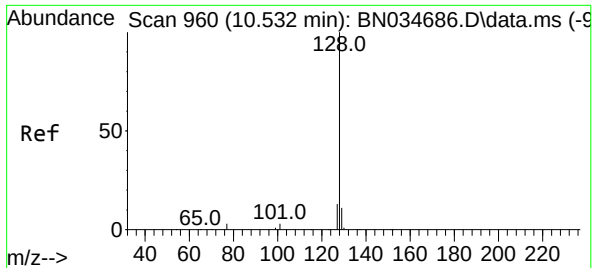
Tgt Ion:	136	Resp:	17907
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	12.3	9.8	14.8
68	7.8	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:	82	Resp:	5374
Ion	Ratio	Lower	Upper
82	100		
128	39.0	29.7	44.5
54	66.9	53.0	79.6

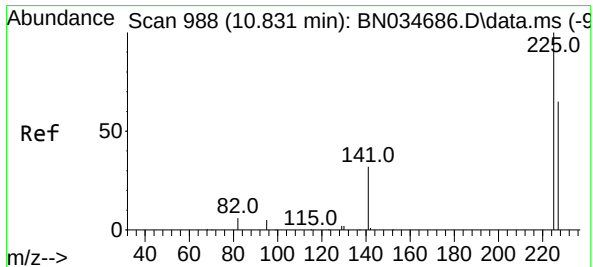
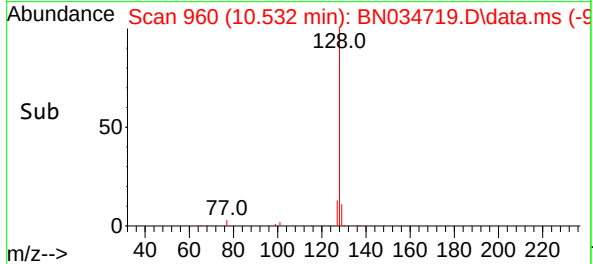
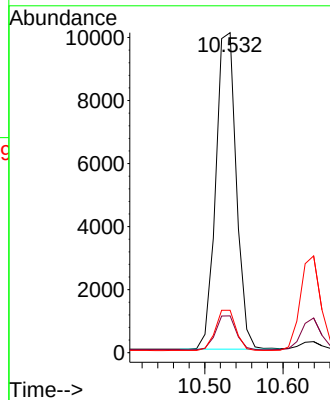
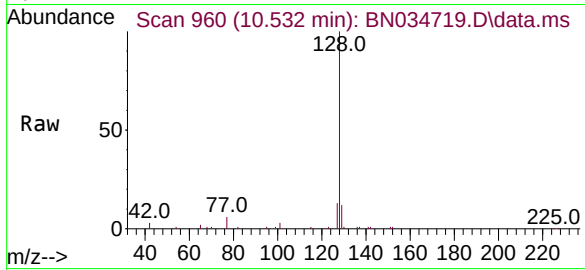




#9
Naphthalene
Concen: 0.369 ng
RT: 10.532 min Scan# 90
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

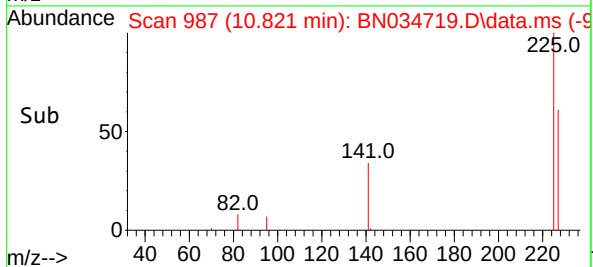
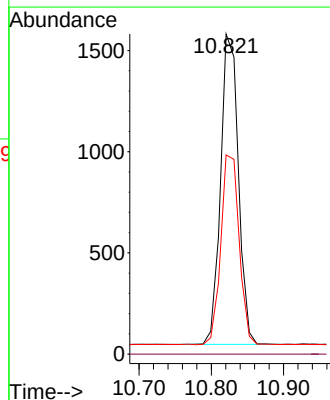
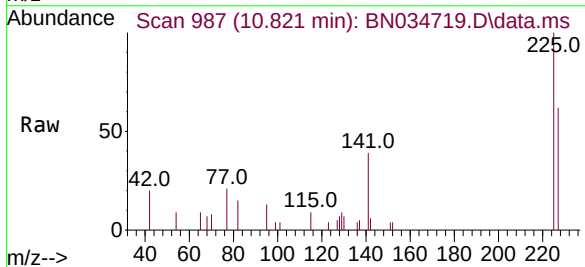
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

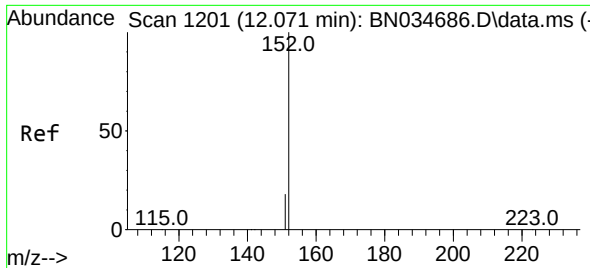
Tgt Ion:128 Resp: 18267
Ion Ratio Lower Upper
128 100
129 11.5 9.0 13.6
127 13.2 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.821 min Scan# 987
Delta R.T. -0.011 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:225 Resp: 2610
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 51.4 77.0

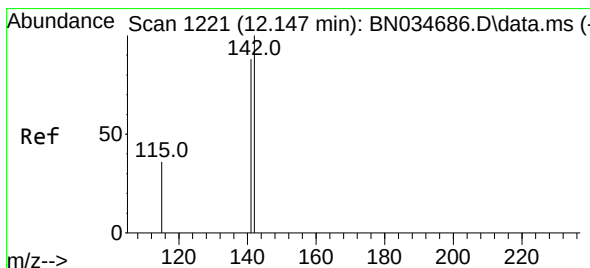
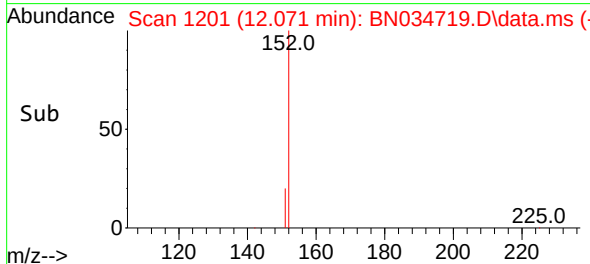
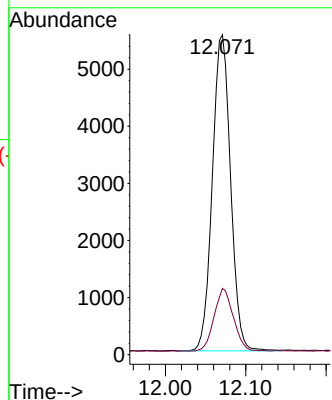
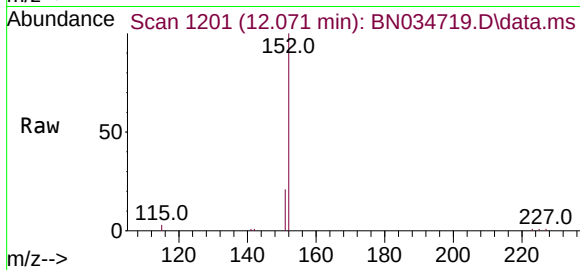




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

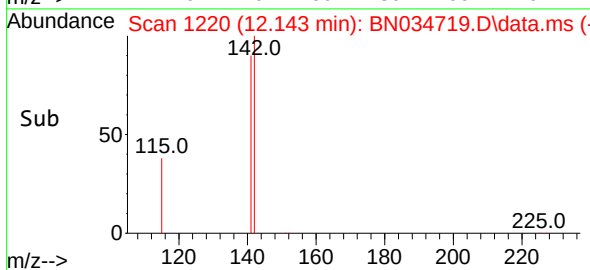
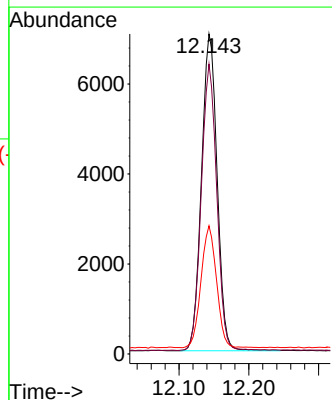
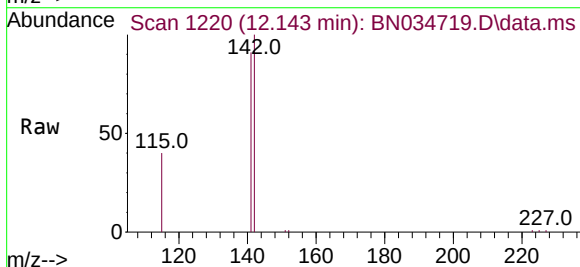
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

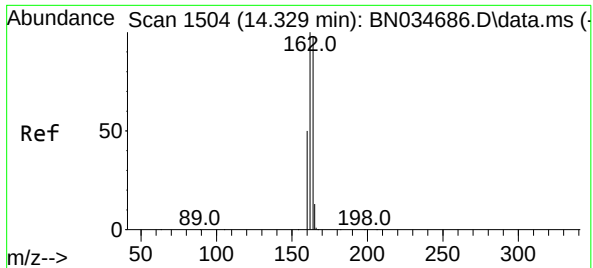
Tgt Ion:152 Resp: 8705
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:142 Resp: 10986
Ion Ratio Lower Upper
142 100
141 90.6 70.4 105.6
115 40.0 29.8 44.6

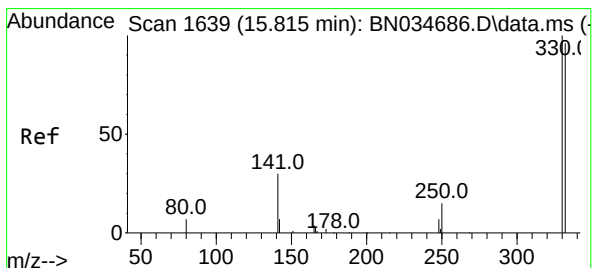
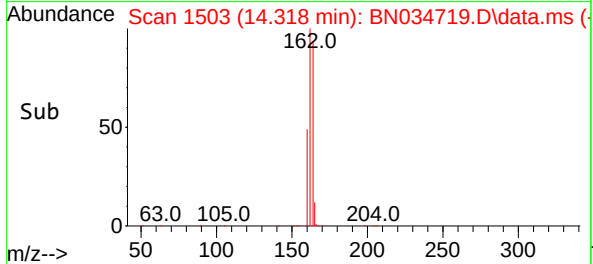
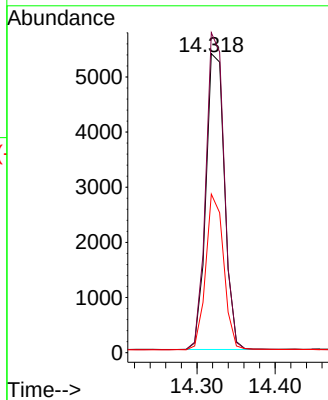
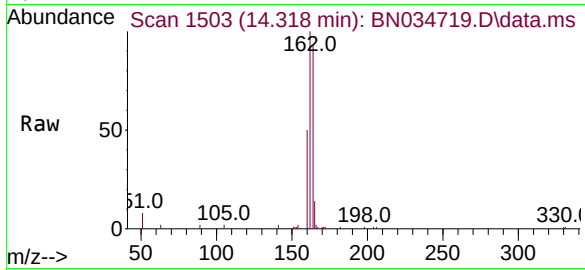




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.318 min Scan# 1503
Delta R.T. -0.011 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

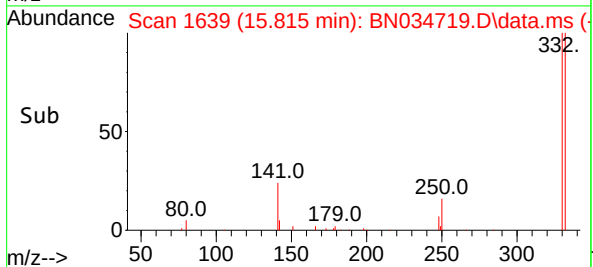
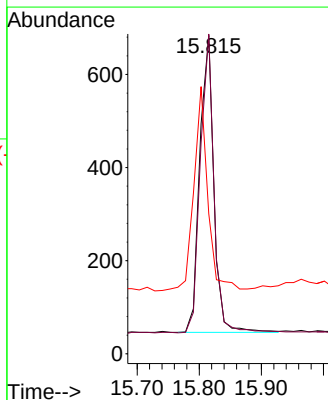
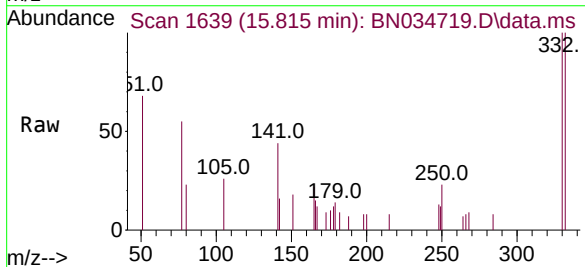
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

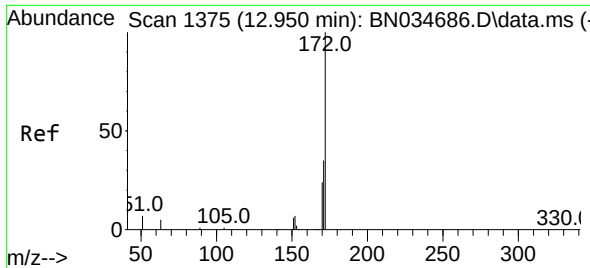
Tgt Ion:164 Resp: 8880
Ion Ratio Lower Upper
164 100
162 107.0 81.4 122.0
160 53.0 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.366 ng
RT: 15.815 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:330 Resp: 1006
Ion Ratio Lower Upper
330 100
332 97.7 76.6 115.0
141 68.0 54.6 81.8

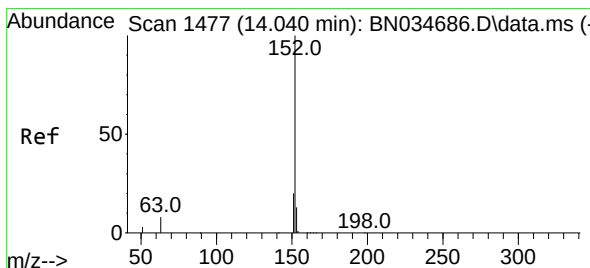
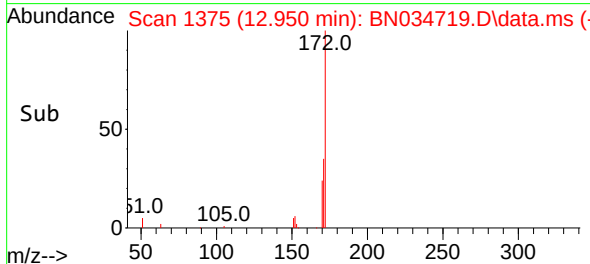
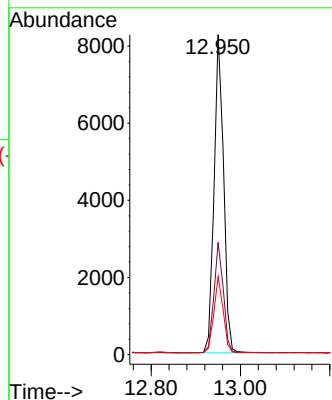
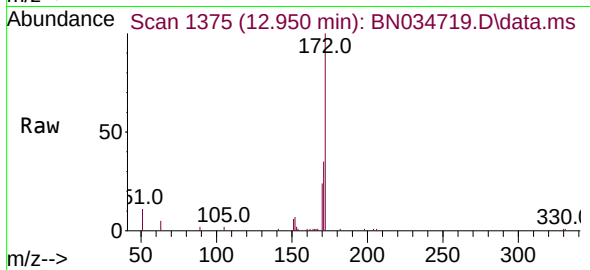




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.950 min Scan# 1375
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

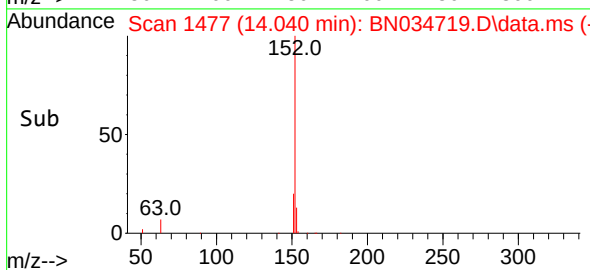
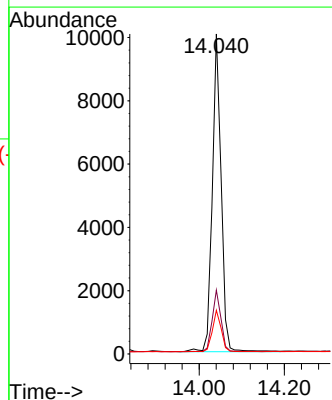
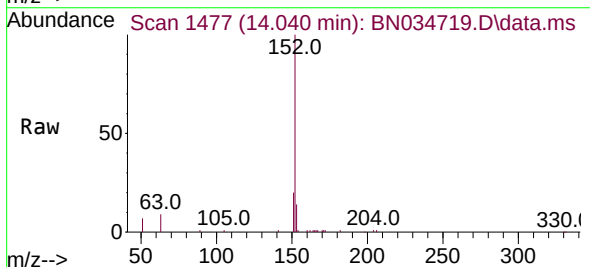
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

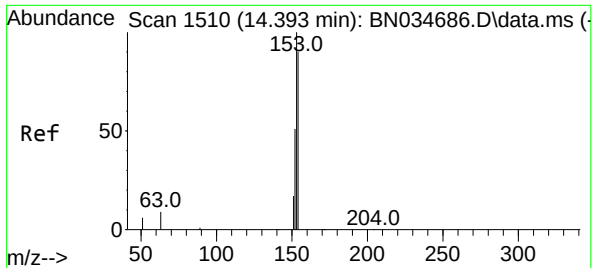
Tgt Ion:	172	Resp:	12140
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.3	42.5
170	24.4	19.8	29.6



#16
Acenaphthylene
Concen: 0.338 ng
RT: 14.040 min Scan# 1477
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:	152	Resp:	14421
Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.2	10.6	15.8

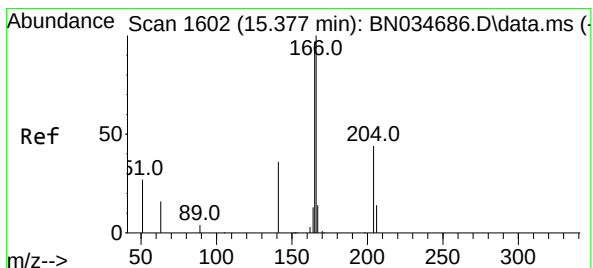
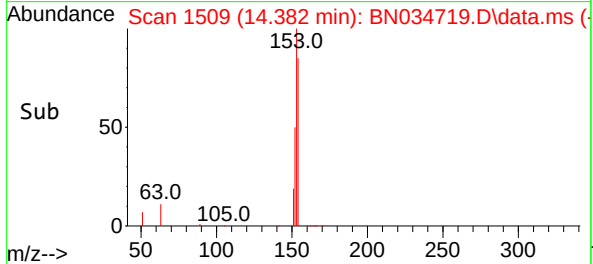
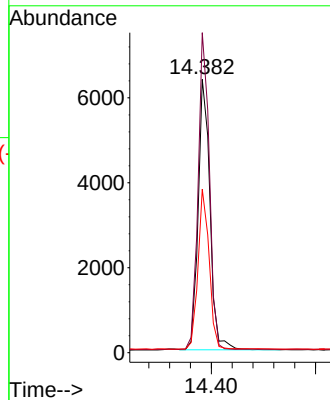
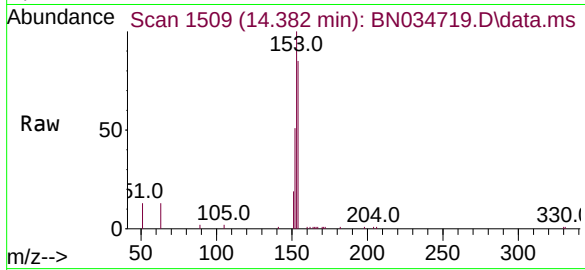




#17
Acenaphthene
Concen: 0.341 ng
RT: 14.382 min Scan# 1509
Delta R.T. -0.011 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

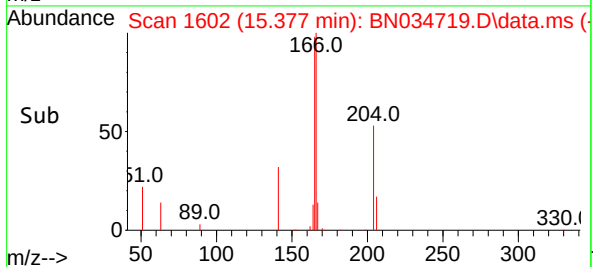
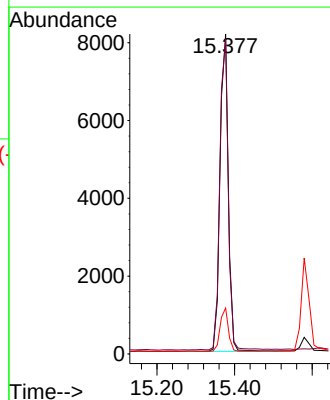
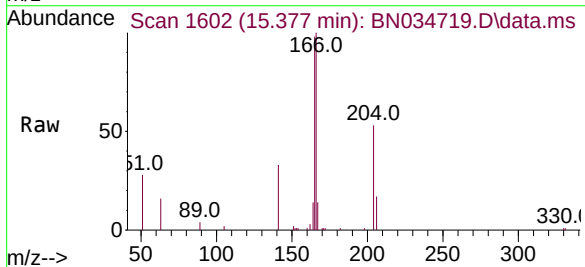
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

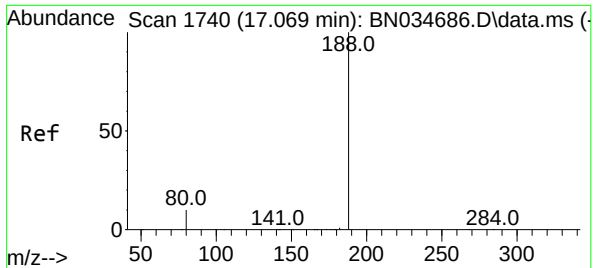
Tgt Ion:154 Resp: 10024
Ion Ratio Lower Upper
154 100
153 111.6 88.2 132.2
152 56.1 46.9 70.3



#18
Fluorene
Concen: 0.339 ng
RT: 15.377 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:166 Resp: 12279
Ion Ratio Lower Upper
166 100
165 98.8 78.8 118.2
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.057 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

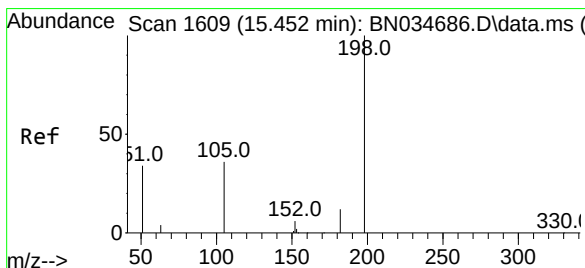
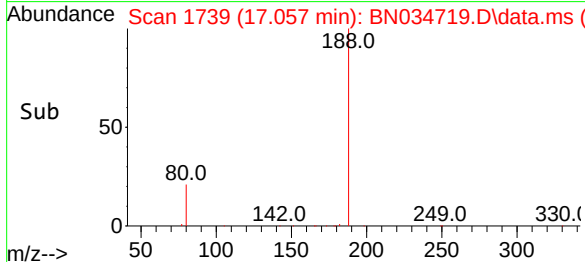
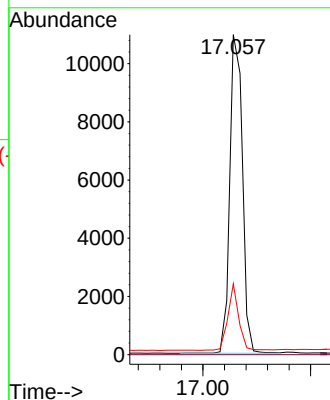
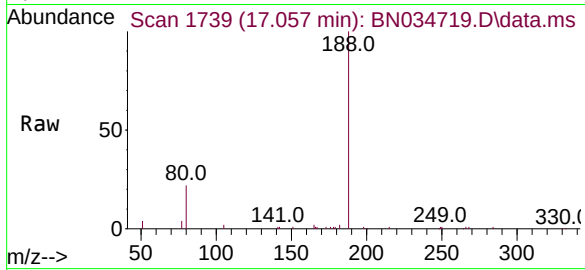
Tgt Ion:188 Resp: 17802

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 22.1 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.301 ng

RT: 15.441 min Scan# 1608

Delta R.T. -0.011 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

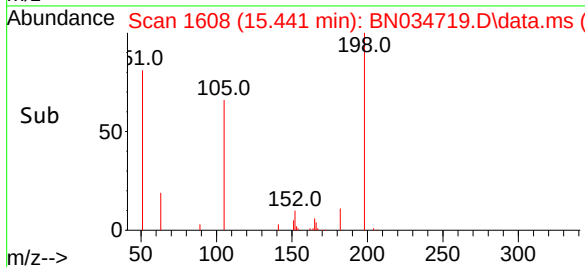
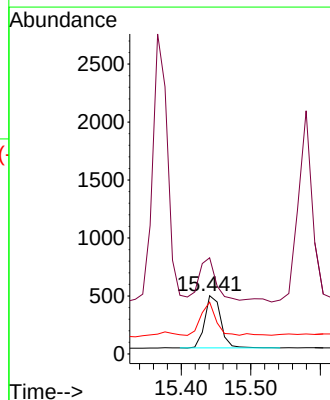
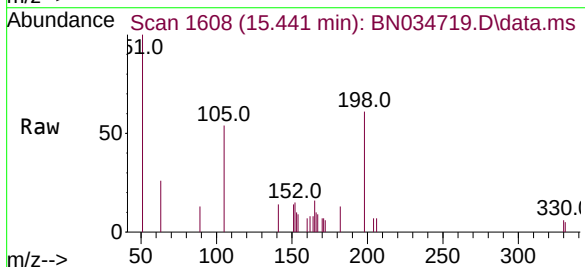
Tgt Ion:198 Resp: 746

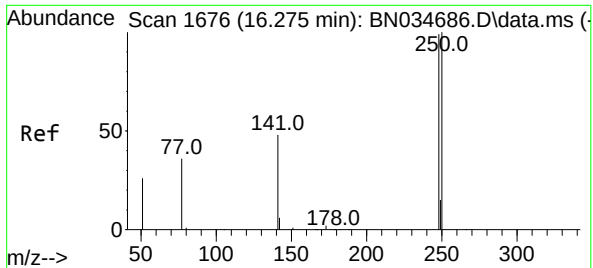
Ion Ratio Lower Upper

198 100

51 165.1 91.8 137.8#

105 89.0 44.3 66.5#

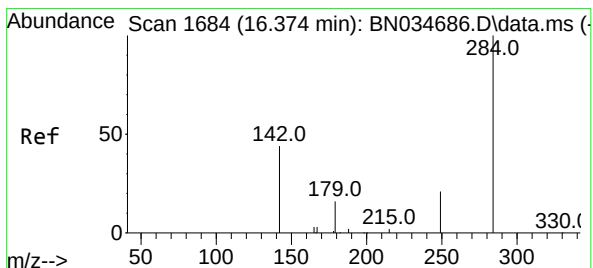
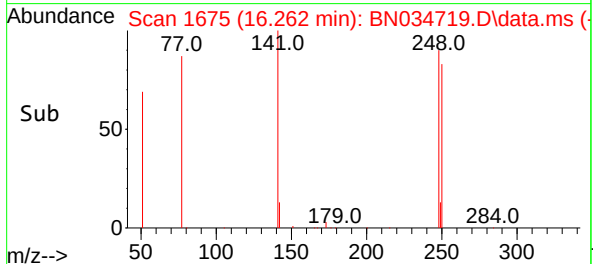
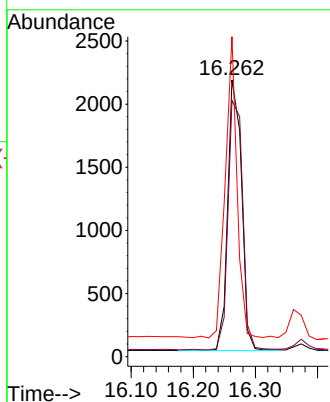
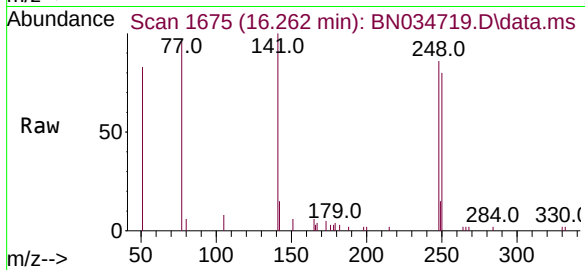




#21
4-Bromophenyl-phenylether
Concen: 0.349 ng
RT: 16.262 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

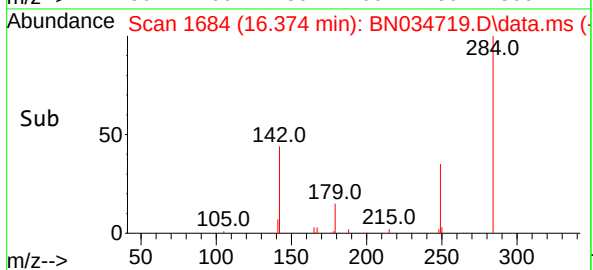
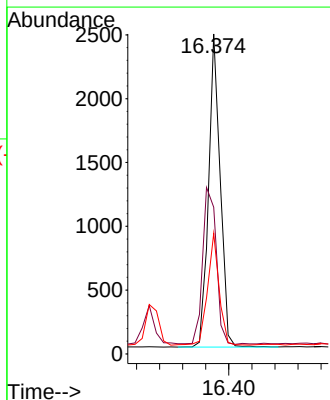
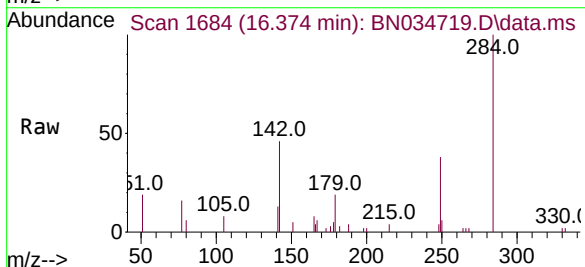
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

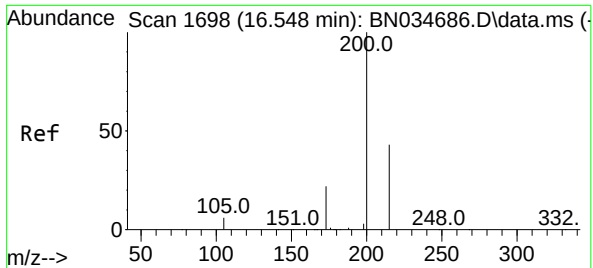
Tgt Ion:248 Resp: 3313
Ion Ratio Lower Upper
248 100
250 92.6 80.9 121.3
141 115.7 40.5 60.7#



#22
Hexachlorobenzene
Concen: 0.332 ng
RT: 16.374 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:284 Resp: 3421
Ion Ratio Lower Upper
284 100
142 58.6 43.6 65.4
249 35.2 26.6 40.0

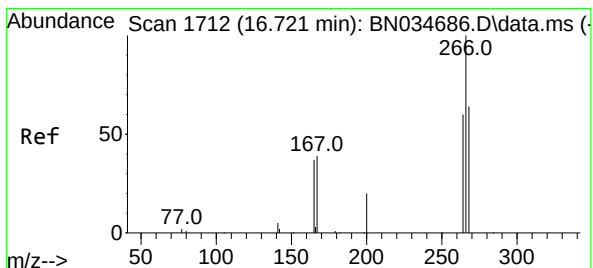
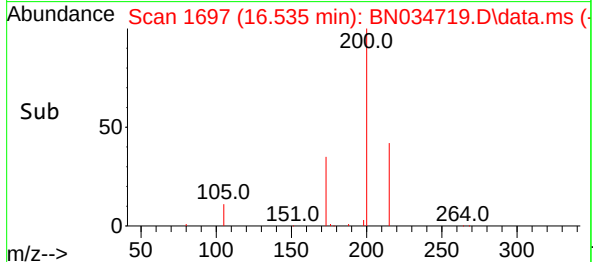
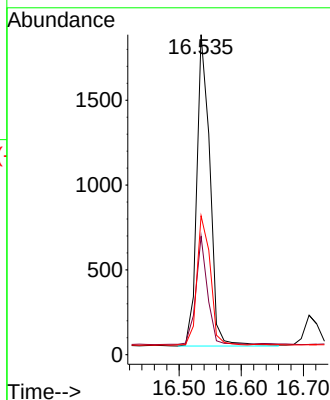
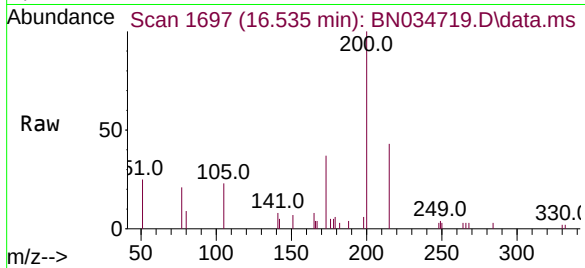




#23
Atrazine
Concen: 0.362 ng
RT: 16.535 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

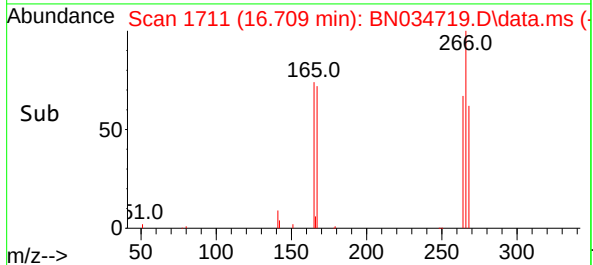
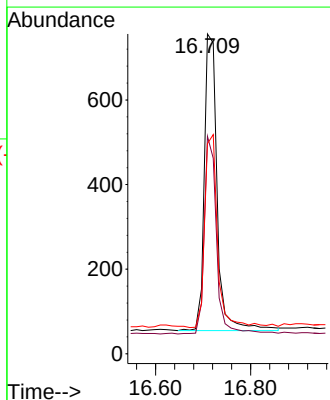
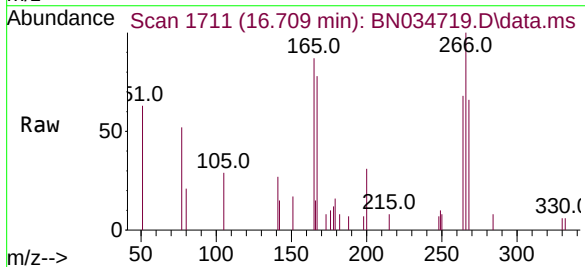
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

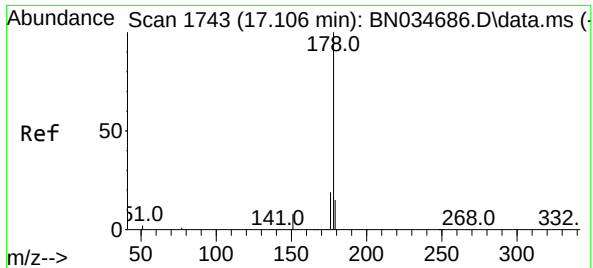
Tgt Ion:200 Resp: 2697
Ion Ratio Lower Upper
200 100
173 37.0 19.7 29.5#
215 43.4 35.7 53.5



#24
Pentachlorophenol
Concen: 0.364 ng
RT: 16.709 min Scan# 1711
Delta R.T. -0.012 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:266 Resp: 1325
Ion Ratio Lower Upper
266 100
264 63.3 49.4 74.2
268 65.1 50.5 75.7

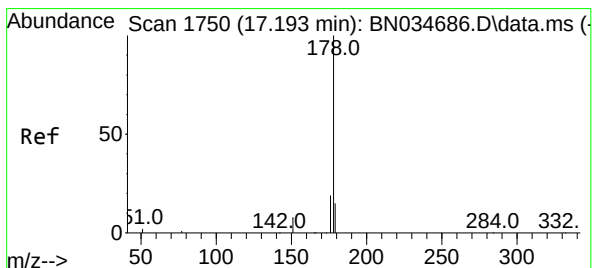
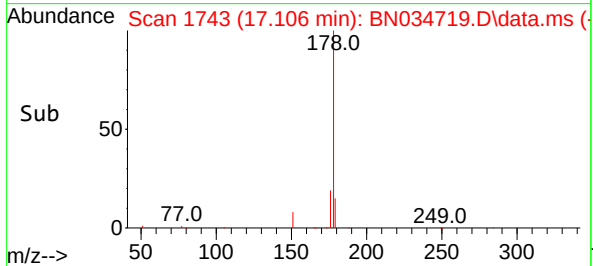
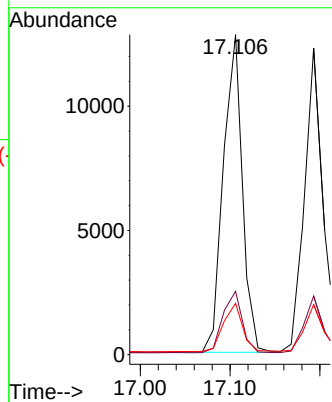
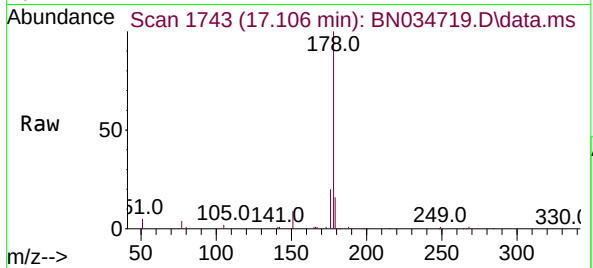




#25
Phenanthrene
Concen: 0.352 ng
RT: 17.106 min Scan# 1743
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

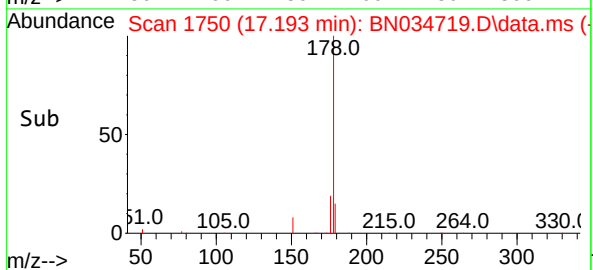
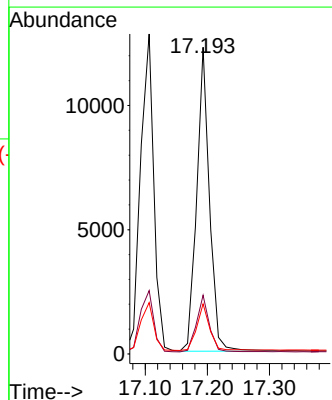
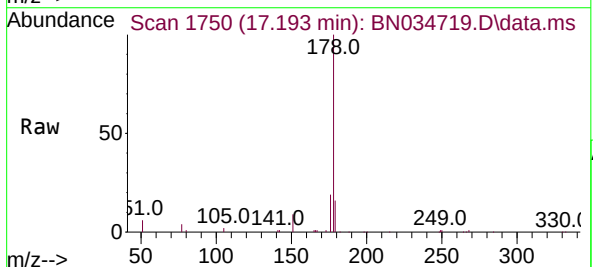
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

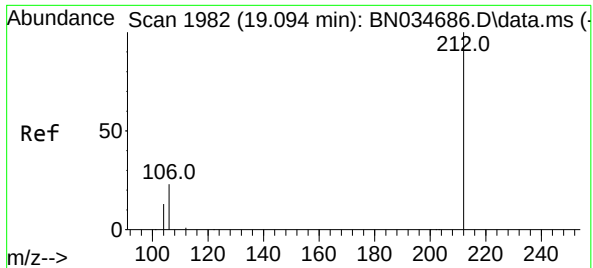
Tgt Ion:178 Resp: 18834
Ion Ratio Lower Upper
178 100
176 19.9 15.4 23.2
179 15.6 12.2 18.4



#26
Anthracene
Concen: 0.368 ng
RT: 17.193 min Scan# 1750
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:178 Resp: 17465
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.5 12.2 18.2

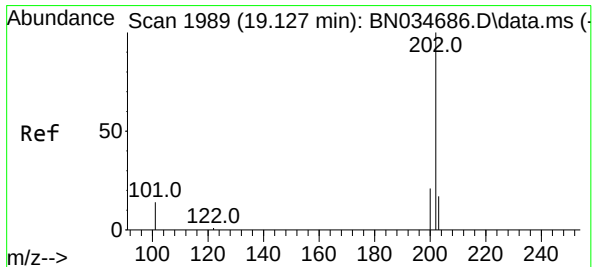
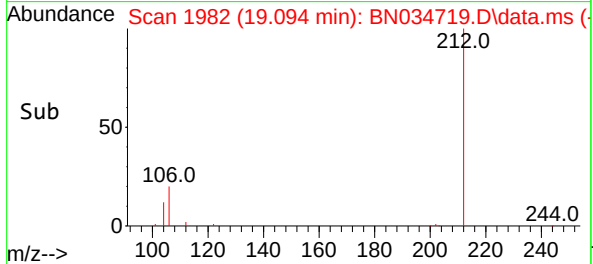
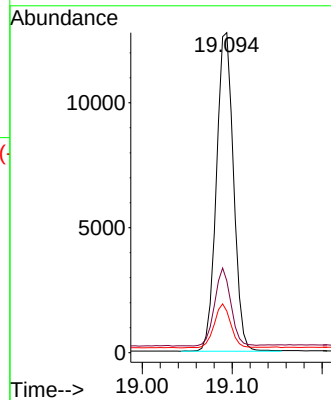
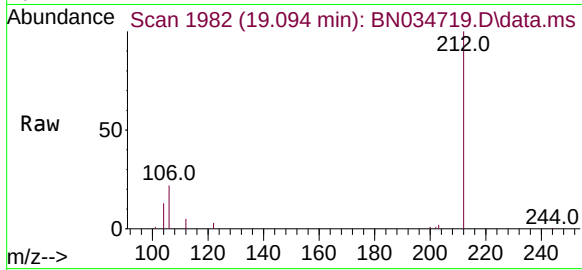




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.094 min Scan# 1982
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

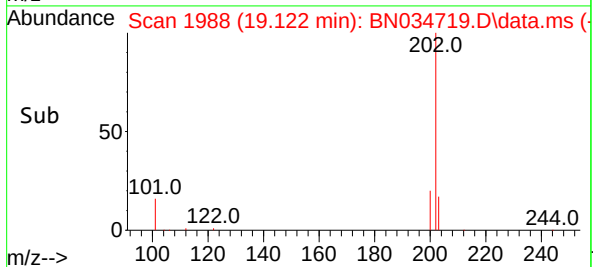
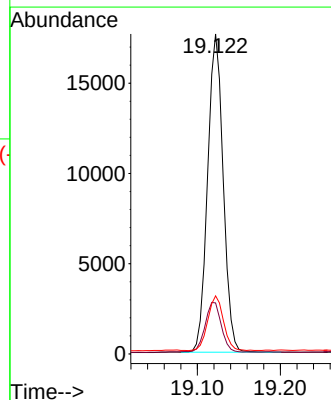
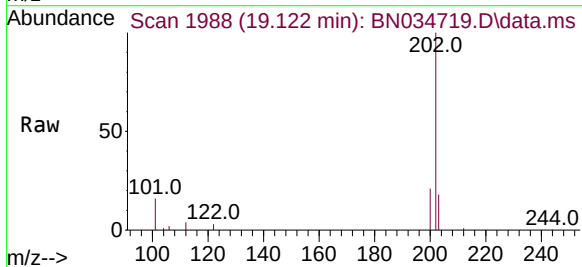
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

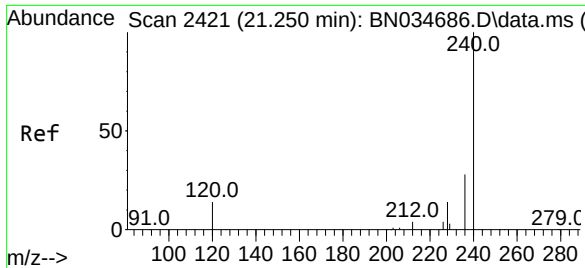
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.4	17.8	26.8
104	13.5	10.2	15.4



#28
Fluoranthene
Concen: 0.413 ng
RT: 19.122 min Scan# 1988
Delta R.T. -0.005 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.8	12.8	19.2
203	17.3	13.5	20.3

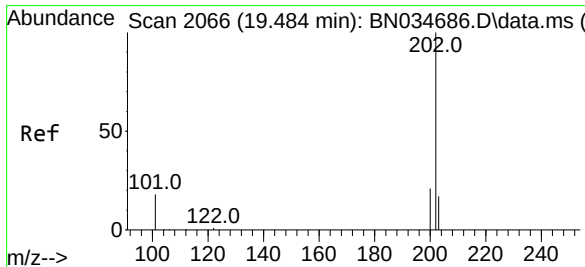
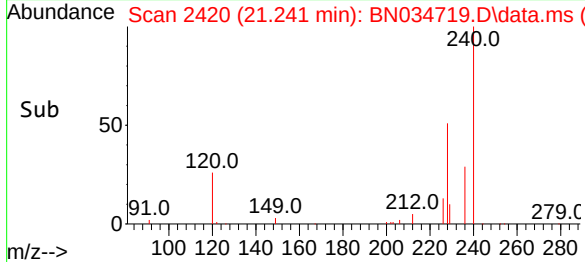
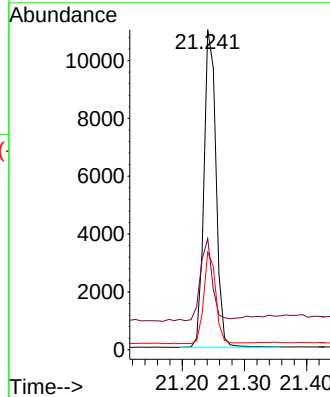
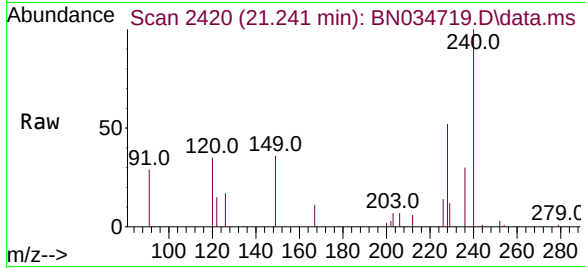




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.241 min Scan# 2421
Delta R.T. -0.009 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

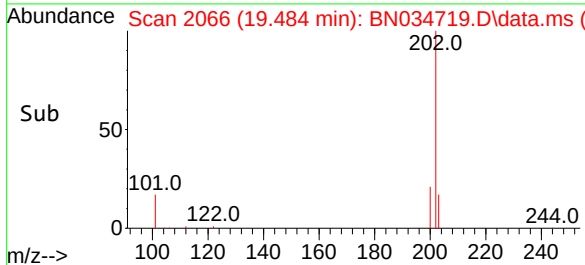
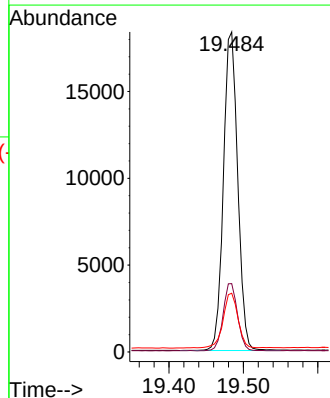
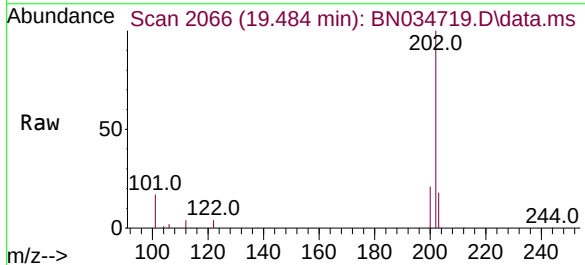
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

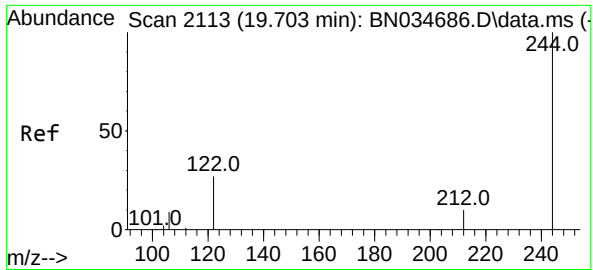
Tgt Ion:240 Resp: 14770
Ion Ratio Lower Upper
240 100
120 34.7 14.2 21.2#
236 30.4 23.1 34.7



#30
Pyrene
Concen: 0.323 ng
RT: 19.484 min Scan# 2066
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:202 Resp: 24493
Ion Ratio Lower Upper
202 100
200 21.3 16.6 25.0
203 18.0 14.2 21.4

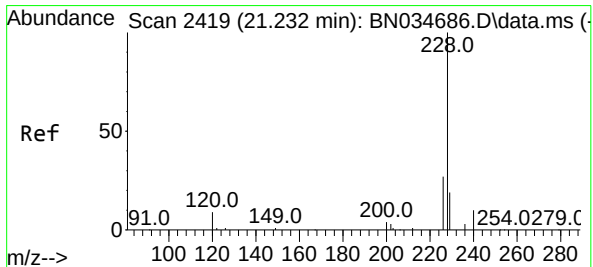
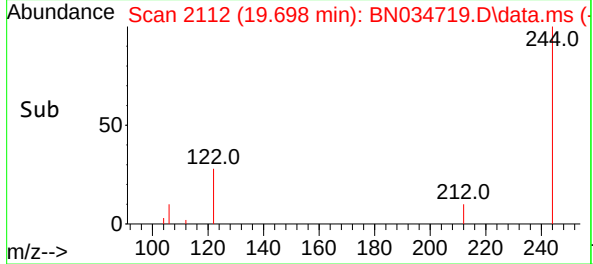
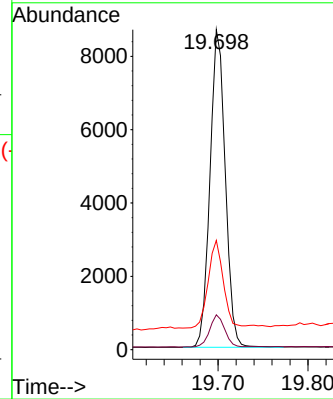
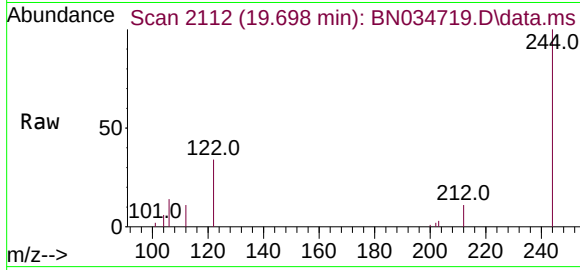




#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.698 min Scan# 2112
Delta R.T. -0.005 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

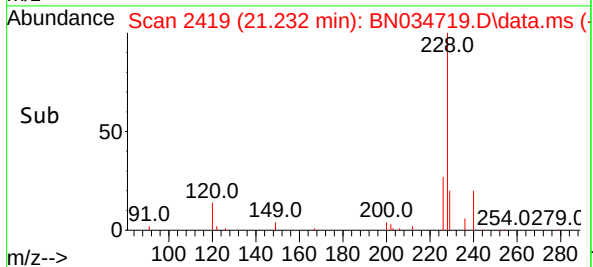
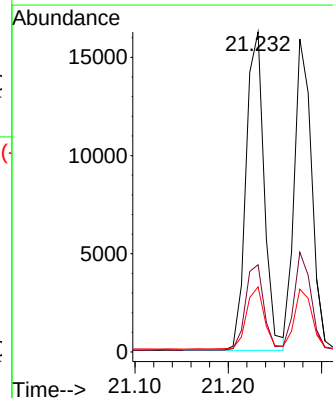
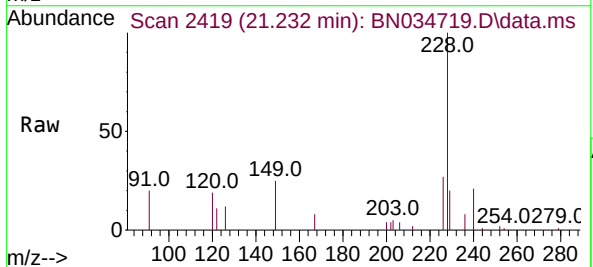
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

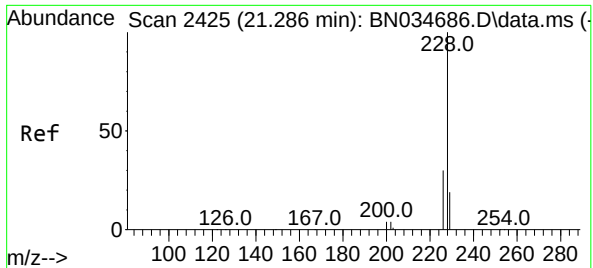
Tgt Ion:244 Resp: 10278
Ion Ratio Lower Upper
244 100
212 10.9 8.6 13.0
122 34.1 22.3 33.5#



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.232 min Scan# 2419
Delta R.T. -0.000 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:228 Resp: 22023
Ion Ratio Lower Upper
228 100
226 27.2 22.0 33.0
229 20.4 15.6 23.4

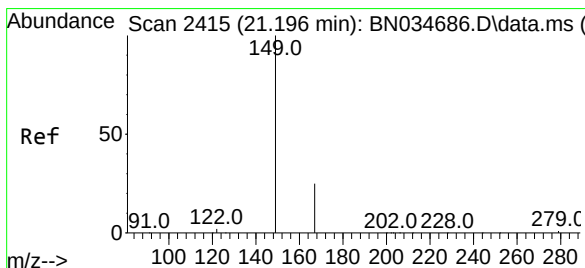
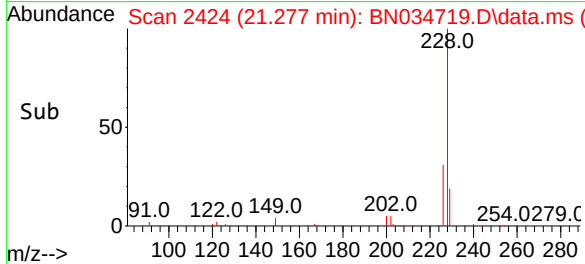
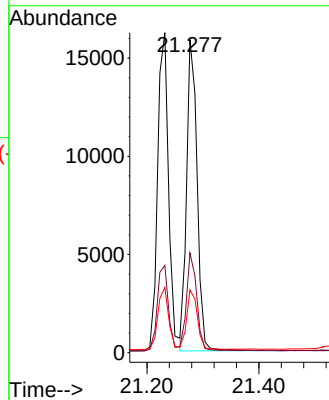
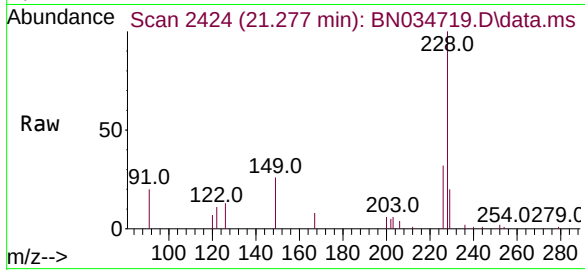




#33
Chrysene
Concen: 0.355 ng
RT: 21.277 min Scan# 2424
Delta R.T. -0.009 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

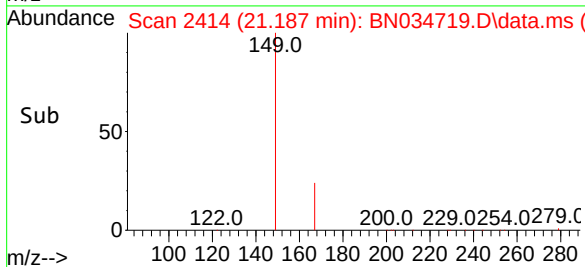
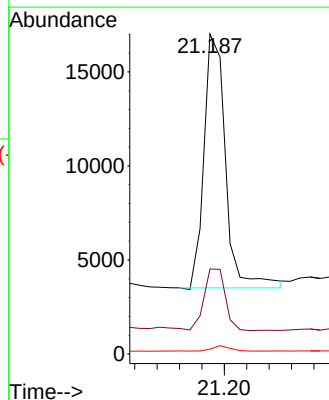
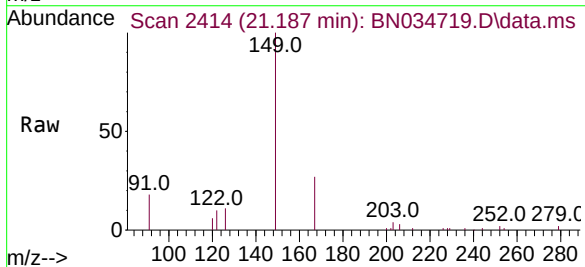
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

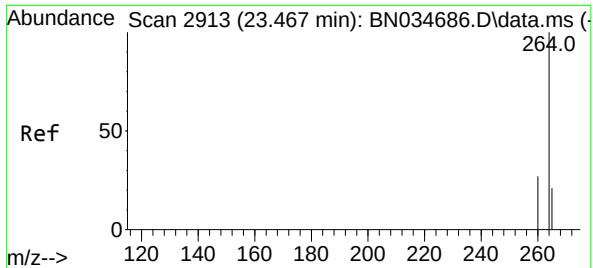
Tgt Ion:228 Resp: 20725
Ion Ratio Lower Upper
228 100
226 31.9 24.1 36.1
229 20.1 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.563 ng
RT: 21.187 min Scan# 2414
Delta R.T. -0.009 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

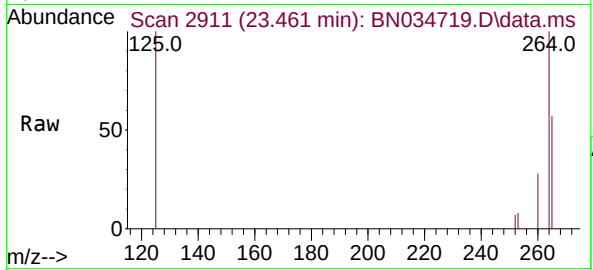
Tgt Ion:149 Resp: 18018
Ion Ratio Lower Upper
149 100
167 23.5 19.7 29.5
279 2.0 1.8 2.6



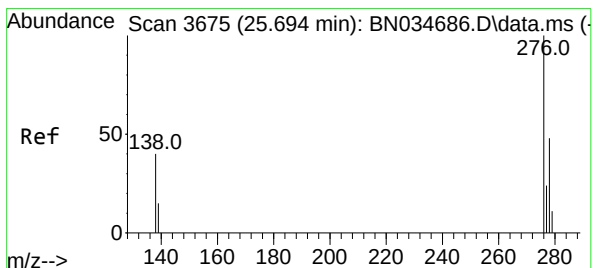
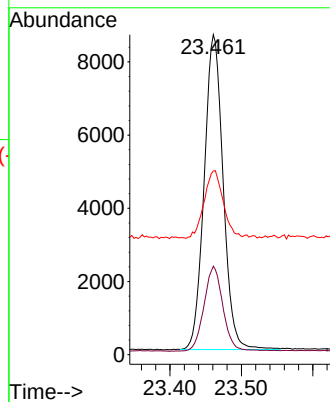
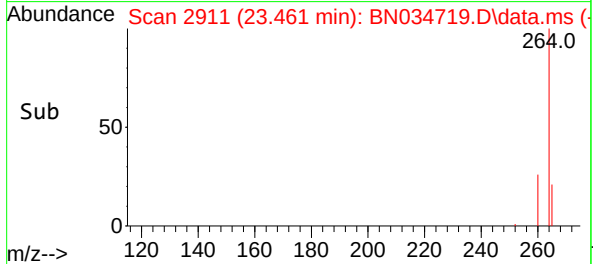


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.461 min Scan# 2911
Delta R.T. -0.006 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

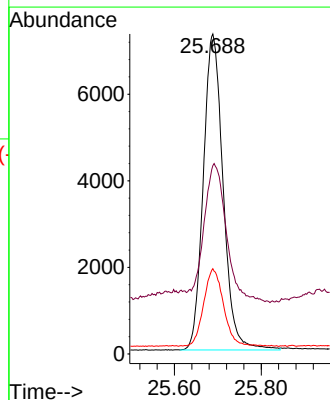
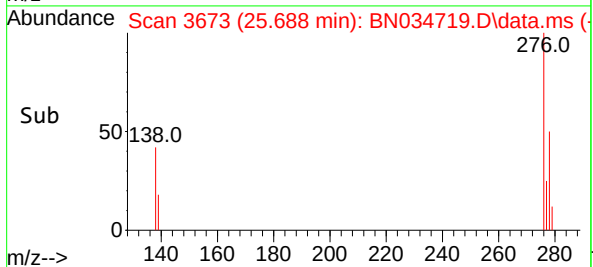
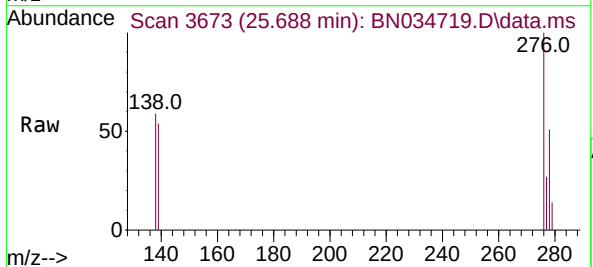


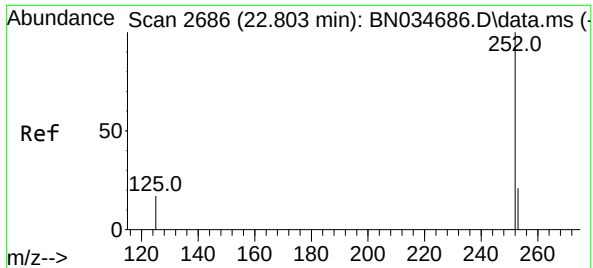
Tgt Ion:264 Resp: 15941
Ion Ratio Lower Upper
264 100
260 27.7 21.9 32.9
265 57.4 60.6 91.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.688 min Scan# 3673
Delta R.T. -0.006 min
Lab File: BN034719.D
Acq: 25 Oct 2024 07:51

Tgt Ion:276 Resp: 23125
Ion Ratio Lower Upper
276 100
138 48.9 35.1 52.7
277 24.2 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.336 ng

RT: 22.797 min Scan# 2684

Delta R.T. -0.006 min

Lab File: BN034719.D

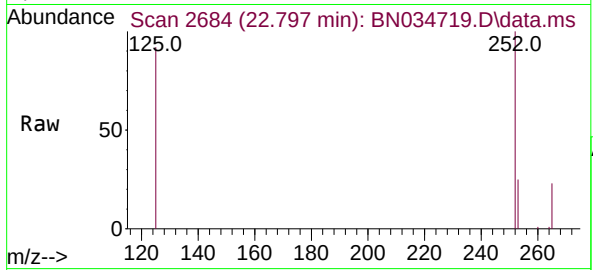
Acq: 25 Oct 2024 07:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



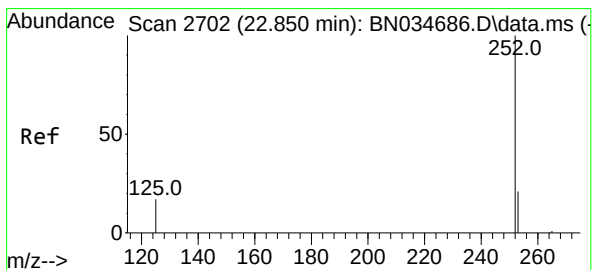
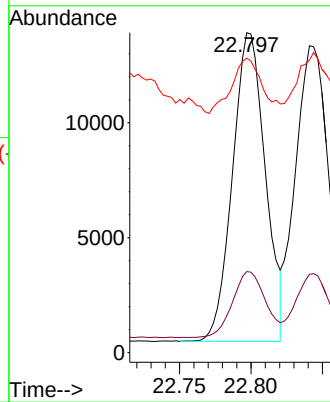
Tgt Ion:252 Resp: 21412

Ion Ratio Lower Upper

252 100

253 25.3 20.0 30.0

125 92.0 20.9 31.3#



#38

Benzo(k)fluoranthene

Concen: 0.334 ng

RT: 22.841 min Scan# 2699

Delta R.T. -0.009 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

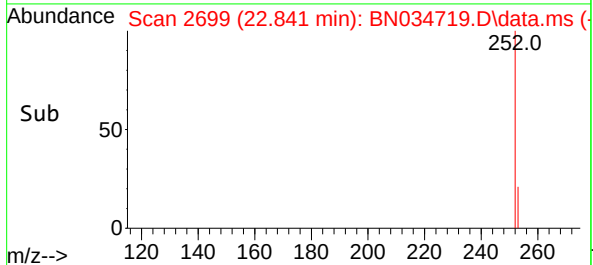
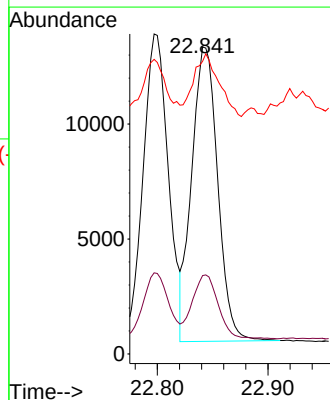
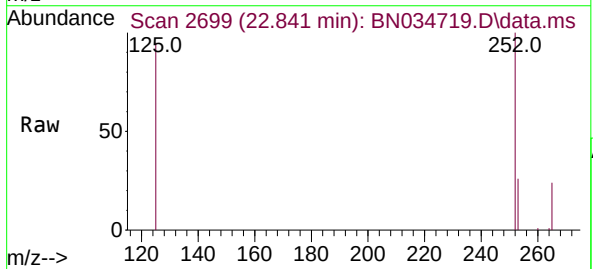
Tgt Ion:252 Resp: 20953

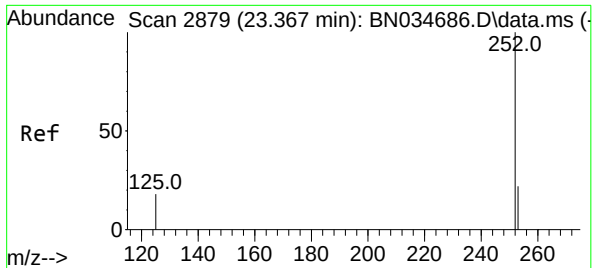
Ion Ratio Lower Upper

252 100

253 25.5 20.6 31.0

125 95.3 21.6 32.4#





#39

Benzo(a)pyrene

Concen: 0.372 ng

RT: 23.364 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN034719.D

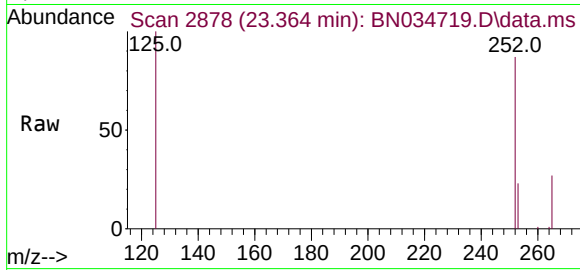
Acq: 25 Oct 2024 07:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



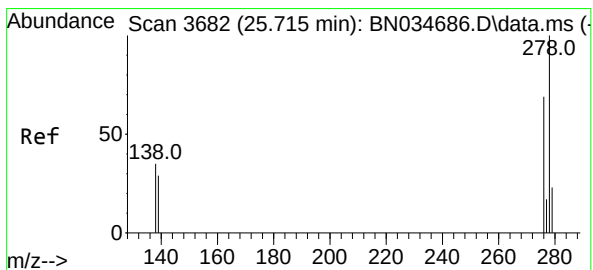
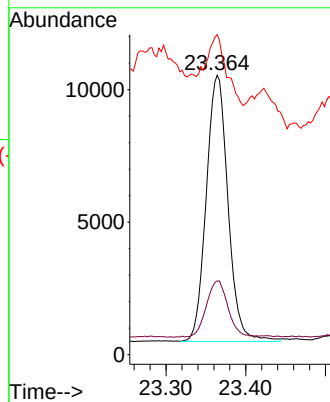
Tgt Ion:252 Resp: 19025

Ion Ratio Lower Upper

252 100

253 26.4 22.2 33.4

125 114.5 26.0 39.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.369 ng

RT: 25.709 min Scan# 3680

Delta R.T. -0.006 min

Lab File: BN034719.D

Acq: 25 Oct 2024 07:51

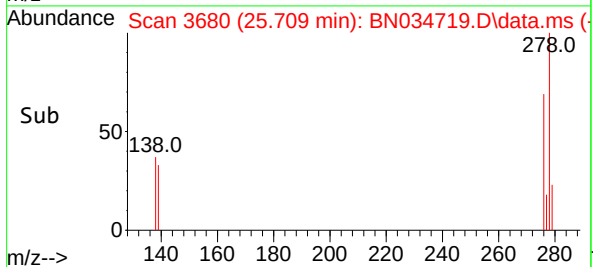
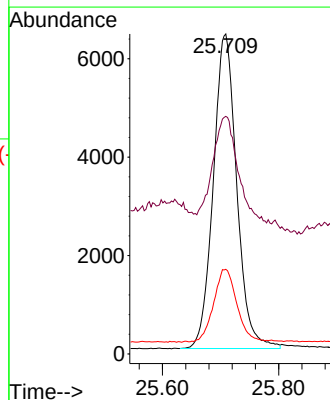
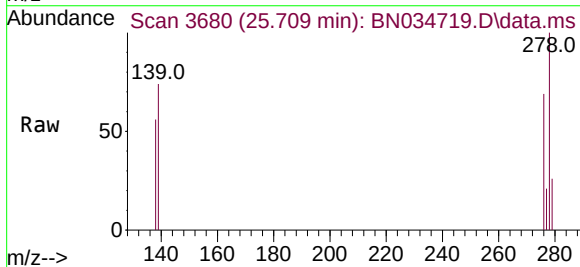
Tgt Ion:278 Resp: 17877

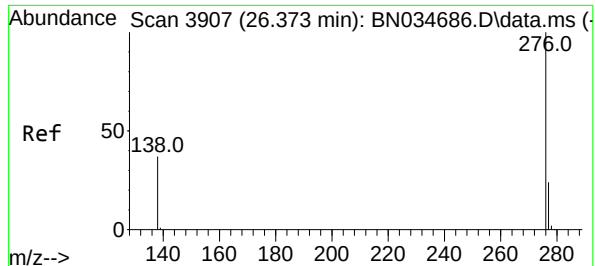
Ion Ratio Lower Upper

278 100

139 74.3 25.4 38.2#

279 26.4 22.4 33.6





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 26.364 min Scan# 3904

Delta R.T. -0.009 min

Lab File: BN034719.D

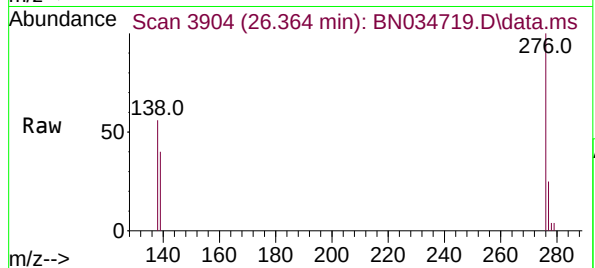
Acq: 25 Oct 2024 07:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



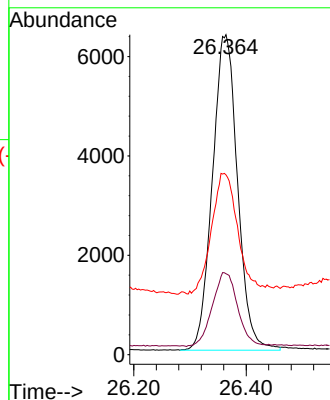
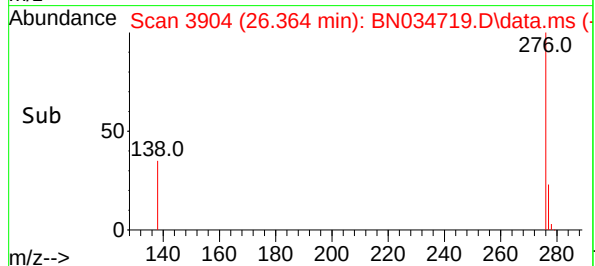
Tgt Ion:276 Resp: 19691

Ion Ratio Lower Upper

276 100

277 25.3 21.3 31.9

138 56.2 31.9 47.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034719.D
 Acq On : 25 Oct 2024 07:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 08:18:02 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 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	95	0.00
2	1,4-Dioxane	0.532	0.475	10.7	93	0.00
3	n-Nitrosodimethylamine	0.775	0.699	9.8	95	0.00
4 S	2-Fluorophenol	1.189	1.294	-8.8	115	0.00
5 S	Phenol-d6	1.568	1.736	-10.7	119	0.00
6	bis(2-Chloroethyl)ether	1.274	1.194	6.3	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
8 S	Nitrobenzene-d5	0.336	0.300	10.7	99	0.00
9	Naphthalene	1.107	1.020	7.9	100	0.00
10	Hexachlorobutadiene	0.166	0.146	12.0	95	-0.01
11 SURR	2-Methylnaphthalene-d10	0.550	0.486	11.6	98	0.00
12	2-Methylnaphthalene	0.687	0.614	10.6	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.124	0.113	8.9	112	0.00
15 S	2-Fluorobiphenyl	1.590	1.367	14.0	95	0.00
16	Acenaphthylene	1.921	1.624	15.5	98	0.00
17	Acenaphthene	1.324	1.129	14.7	96	-0.01
18	Fluorene	1.634	1.383	15.4	95	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	98	-0.01
20	4,6-Dinitro-2-methylphenol	0.056	0.042	25.0	96	-0.01
21	4-Bromophenyl-phenylether	0.213	0.186	12.7	96	-0.01
22	Hexachlorobenzene	0.231	0.192	16.9	89	0.00
23	Atrazine	0.168	0.151	10.1	106	-0.01
24	Pentachlorophenol	0.082	0.074	9.8	114	-0.01
25	Phenanthrene	1.202	1.058	12.0	97	0.00
26	Anthracene	1.067	0.981	8.1	103	0.00
27 SURR	Fluoranthene-d10	0.901	0.942	-4.6	118	0.00
28	Fluoranthene	1.253	1.293	-3.2	116	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	139	0.00
30	Pyrene	2.055	1.658	19.3	123	0.00
31 S	Terphenyl-d14	0.817	0.696	14.8	131	0.00
32	Benzo(a)anthracene	1.528	1.491	2.4	151#	0.00
33	Chrysene	1.581	1.403	11.3	135	0.00
34	Bis(2-ethylhexyl)phthalate	0.867	1.220	-40.7#	235#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	166#	0.00
36	Indeno(1,2,3-cd)pyrene	1.541	1.451	5.8	170#	0.00
37	Benzo(b)fluoranthene	1.597	1.343	15.9	151#	0.00
38	Benzo(k)fluoranthene	1.576	1.314	16.6	158#	0.00
39 C	Benzo(a)pyrene	1.282	1.193	6.9	171#	0.00
40	Dibenzo(a,h)anthracene	1.215	1.121	7.7	167#	0.00
41	Benzo(g,h,i)perylene	1.340	1.235	7.8	163#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
 Data File : BN034719.D
 Acq On : 25 Oct 2024 07:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 25 08:18:02 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 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	95	0.00
2	1,4-Dioxane	0.400	0.357	10.8	93	0.00
3	n-Nitrosodimethylamine	0.400	0.361	9.8	95	0.00
4 S	2-Fluorophenol	0.400	0.435	-8.7	115	0.00
5 S	Phenol-d6	0.400	0.443	-10.7	119	0.00
6	bis(2-Chloroethyl)ether	0.400	0.375	6.3	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	97	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	99	0.00
9	Naphthalene	0.400	0.369	7.8	100	0.00
10	Hexachlorobutadiene	0.400	0.351	12.3	95	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	98	0.00
12	2-Methylnaphthalene	0.400	0.357	10.8	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.366	8.5	112	0.00
15 S	2-Fluorobiphenyl	0.400	0.344	14.0	95	0.00
16	Acenaphthylene	0.400	0.338	15.5	98	0.00
17	Acenaphthene	0.400	0.341	14.8	96	-0.01
18	Fluorene	0.400	0.339	15.3	95	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	98	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.301	24.8	96	-0.01
21	4-Bromophenyl-phenylether	0.400	0.349	12.8	96	-0.01
22	Hexachlorobenzene	0.400	0.332	17.0	89	0.00
23	Atrazine	0.400	0.362	9.5	106	-0.01
24	Pentachlorophenol	0.400	0.364	9.0	114	-0.01
25	Phenanthrene	0.400	0.352	12.0	97	0.00
26	Anthracene	0.400	0.368	8.0	103	0.00
27 SURR	Fluoranthene-d10	0.400	0.418	-4.5	118	0.00
28	Fluoranthene	0.400	0.413	-3.2	116	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	139	0.00
30	Pyrene	0.400	0.323	19.3	123	0.00
31 S	Terphenyl-d14	0.400	0.341	14.8	131	0.00
32	Benzo(a)anthracene	0.400	0.390	2.5	151	0.00
33	Chrysene	0.400	0.355	11.3	135	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.563	-40.7#	235	0.00
35 I	Perylene-d12	0.400	0.400	0.0	166	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	170	0.00
37	Benzo(b)fluoranthene	0.400	0.336	16.0	151	0.00
38	Benzo(k)fluoranthene	0.400	0.334	16.5	158	0.00
39 C	Benzo(a)pyrene	0.400	0.372	7.0	171	0.00
40	Dibenzo(a,h)anthracene	0.400	0.369	7.8	167	0.00
41	Benzo(g,h,i)perylene	0.400	0.369	7.8	163	0.00

(#) = Out of Range

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



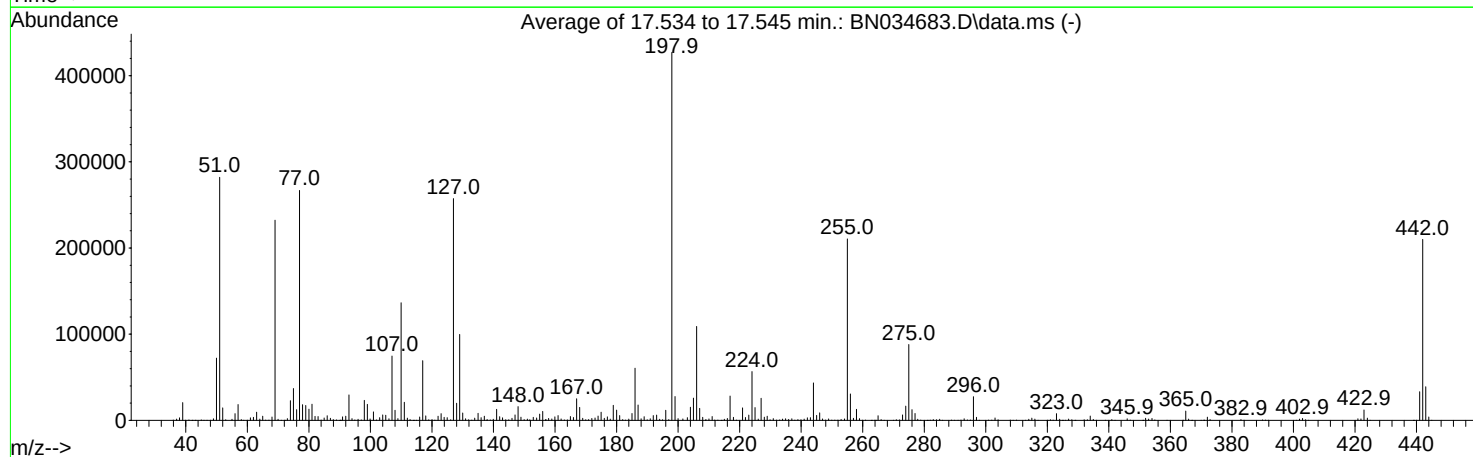
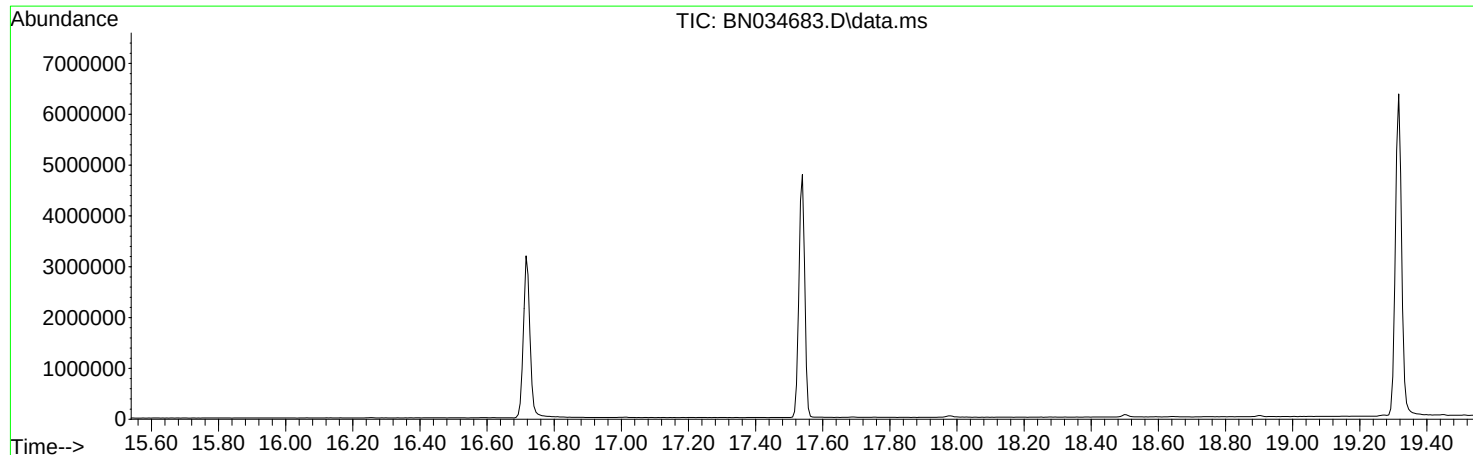
QC SAMPLE DATA

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



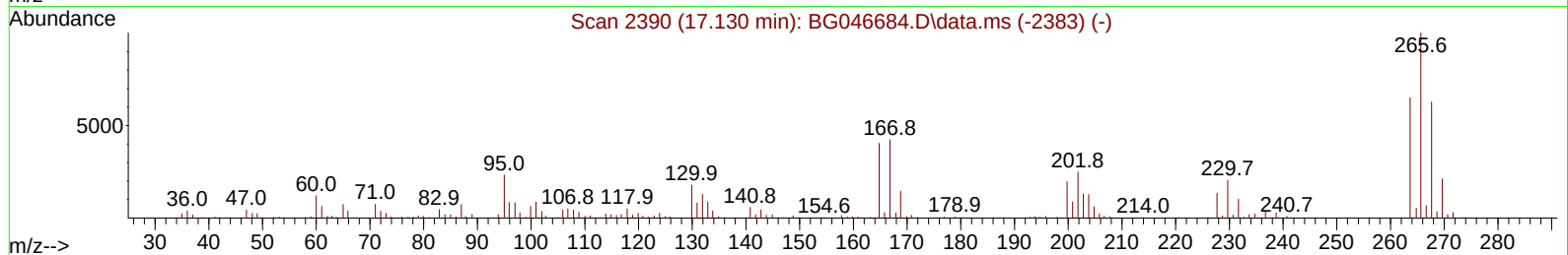
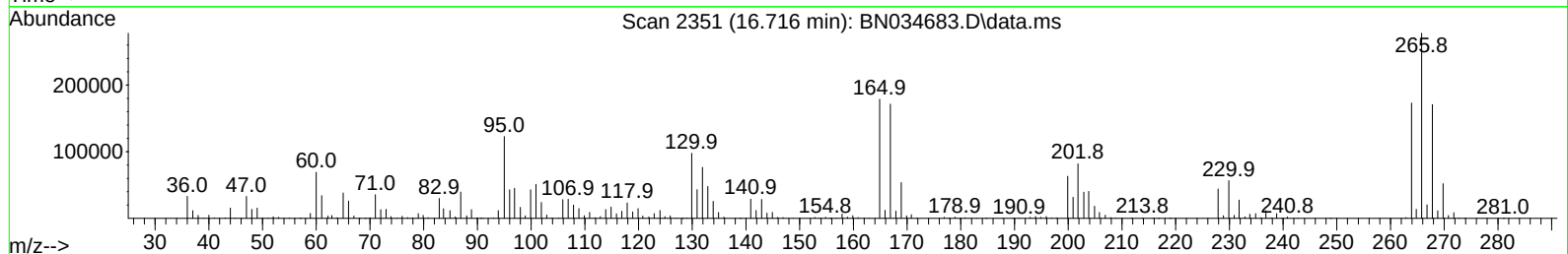
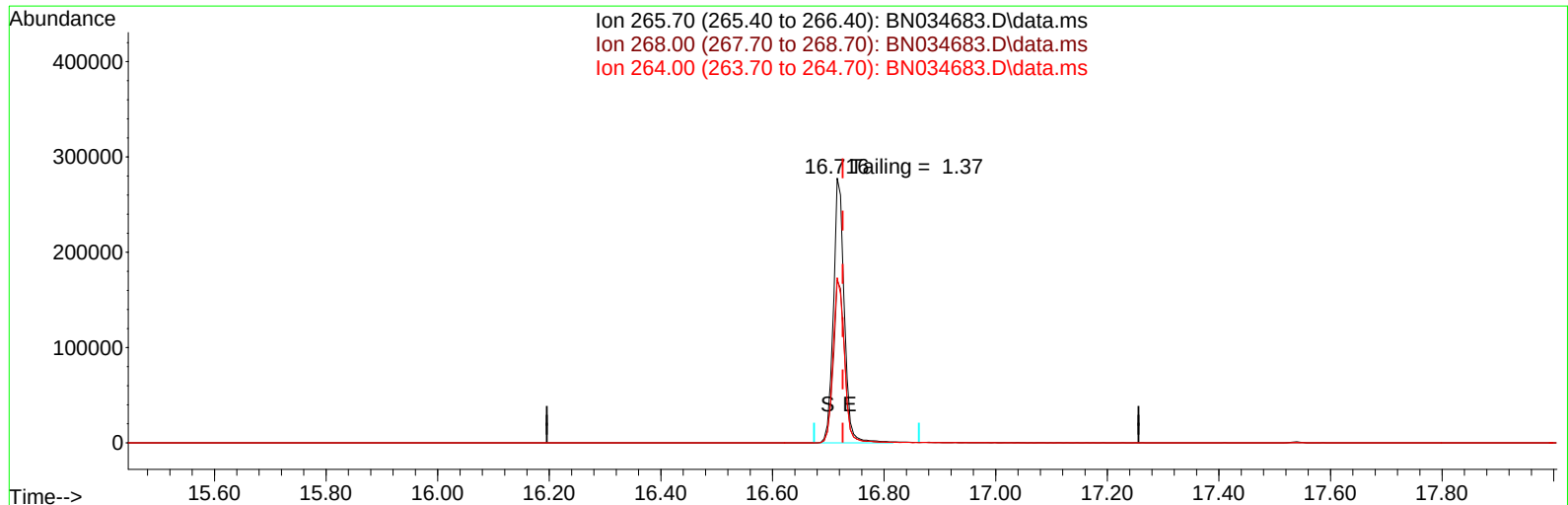
AutoFind: Scans 2490, 2491, 2492; Background Corrected with Scan 2483

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

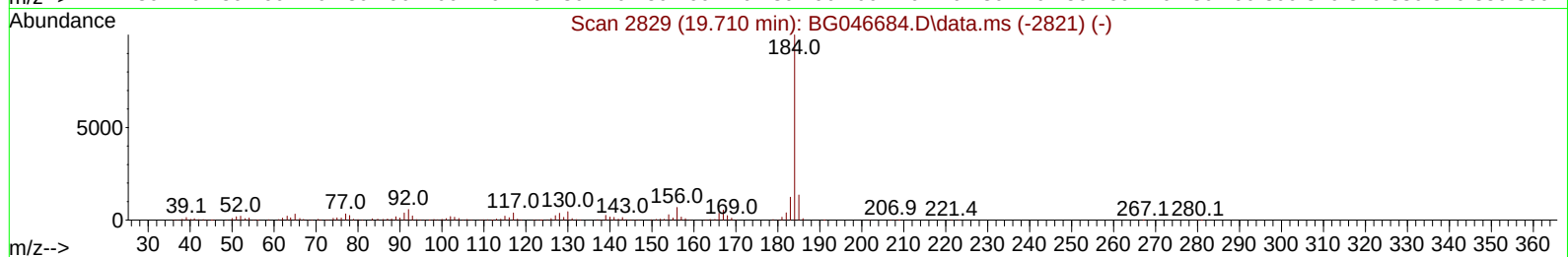
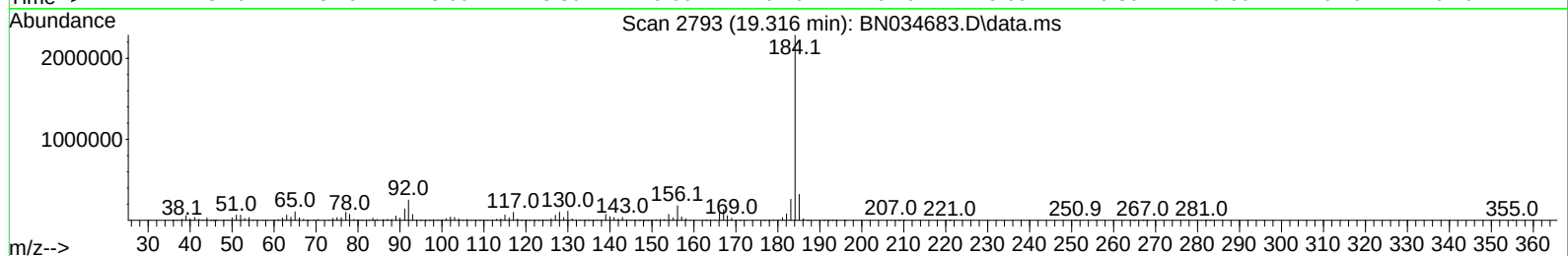
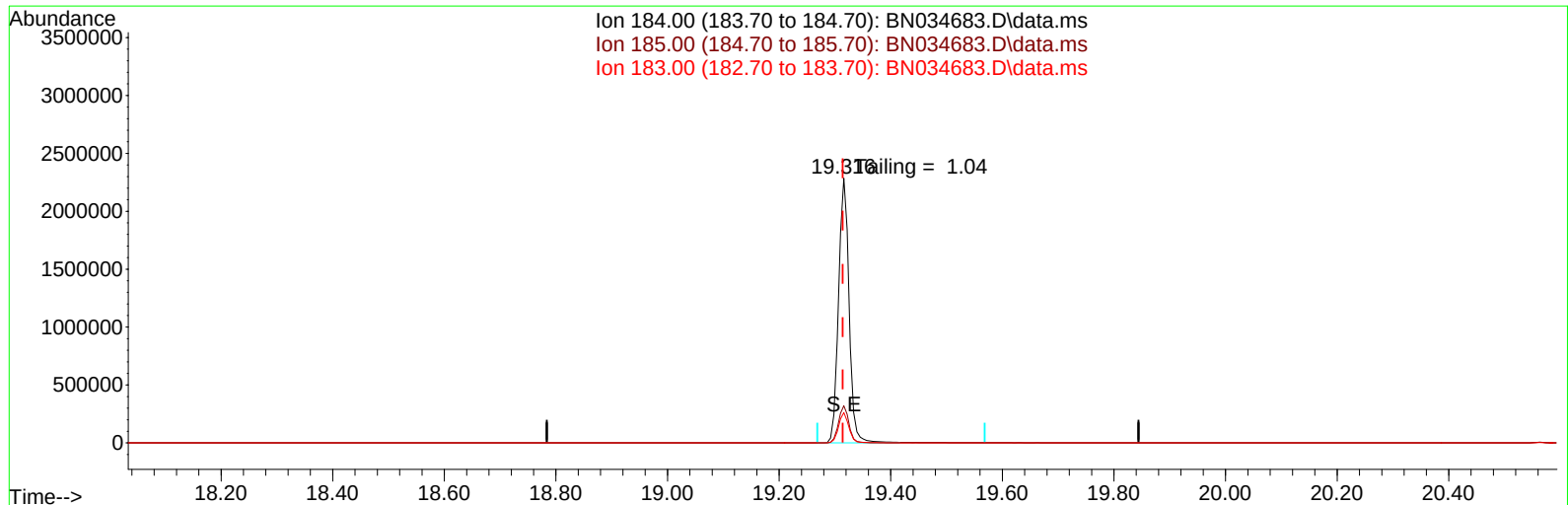
response 375874

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

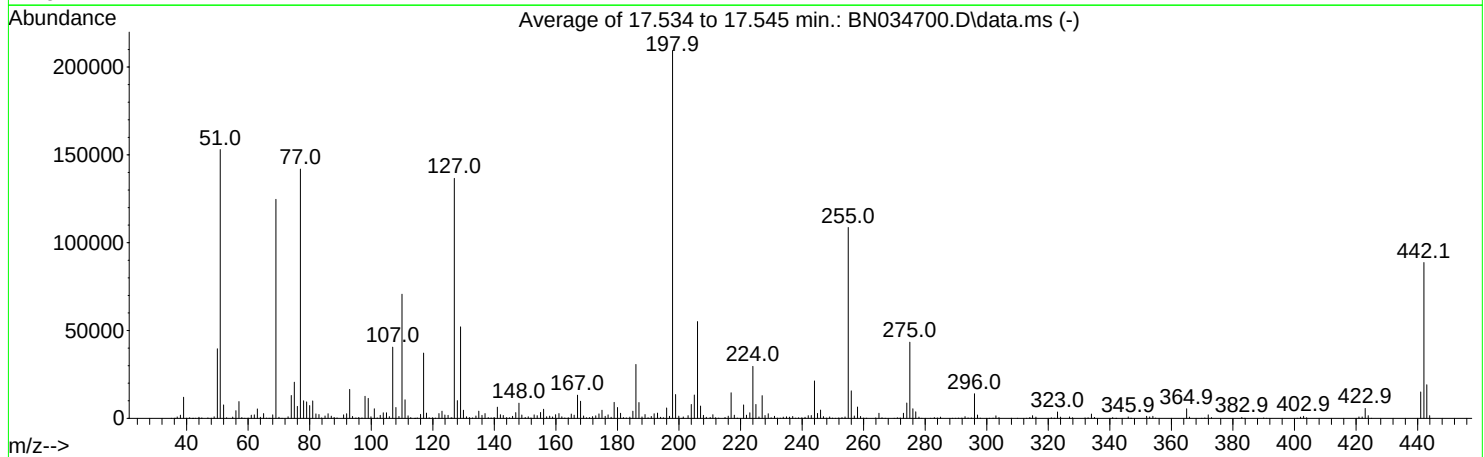
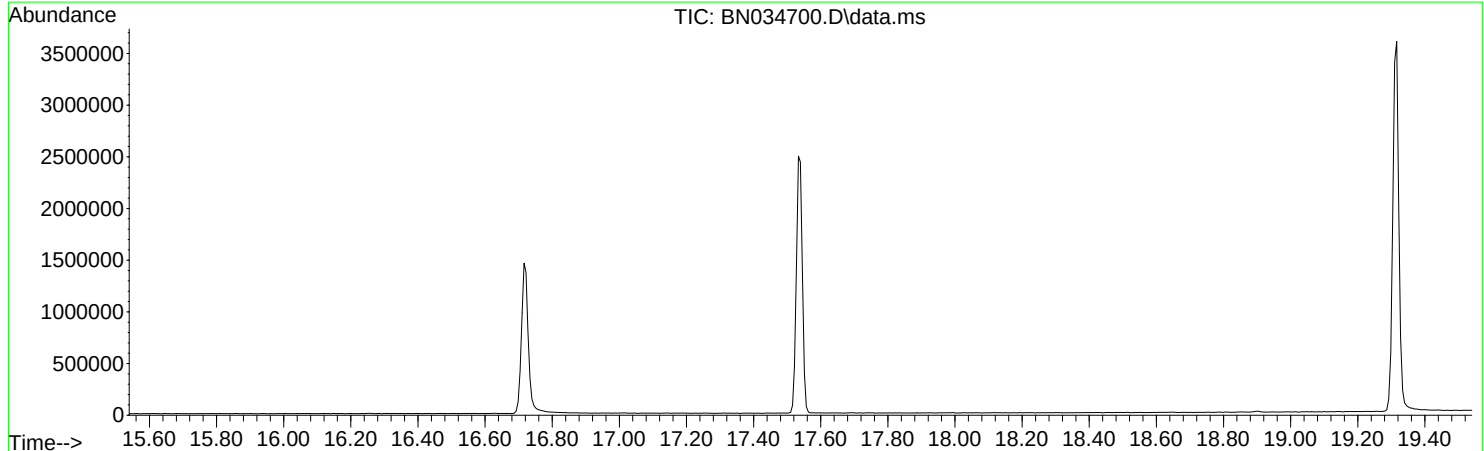
Date	Instrument Name	DFTPP Data File
10/24/2024	BNA_N	<u>BN034683.D</u>
Compound Name	Response	Retention Time
DDT	1329547	20.563
DDD	11879	20.175
DDE	111	19.622
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11990	1341537	0.89

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034700.D
Acq On : 24 Oct 2024 20:22
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



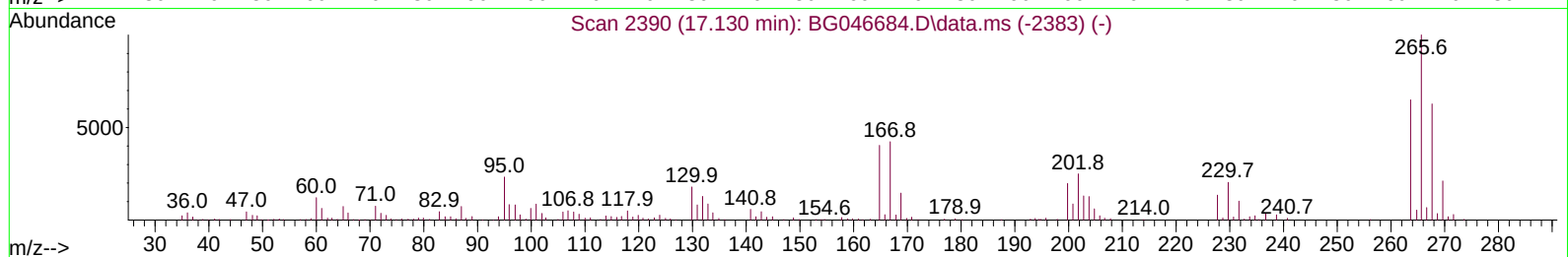
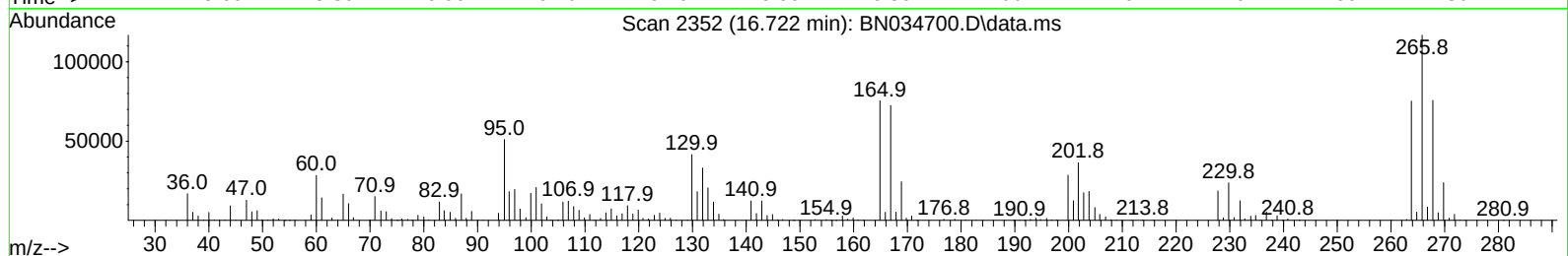
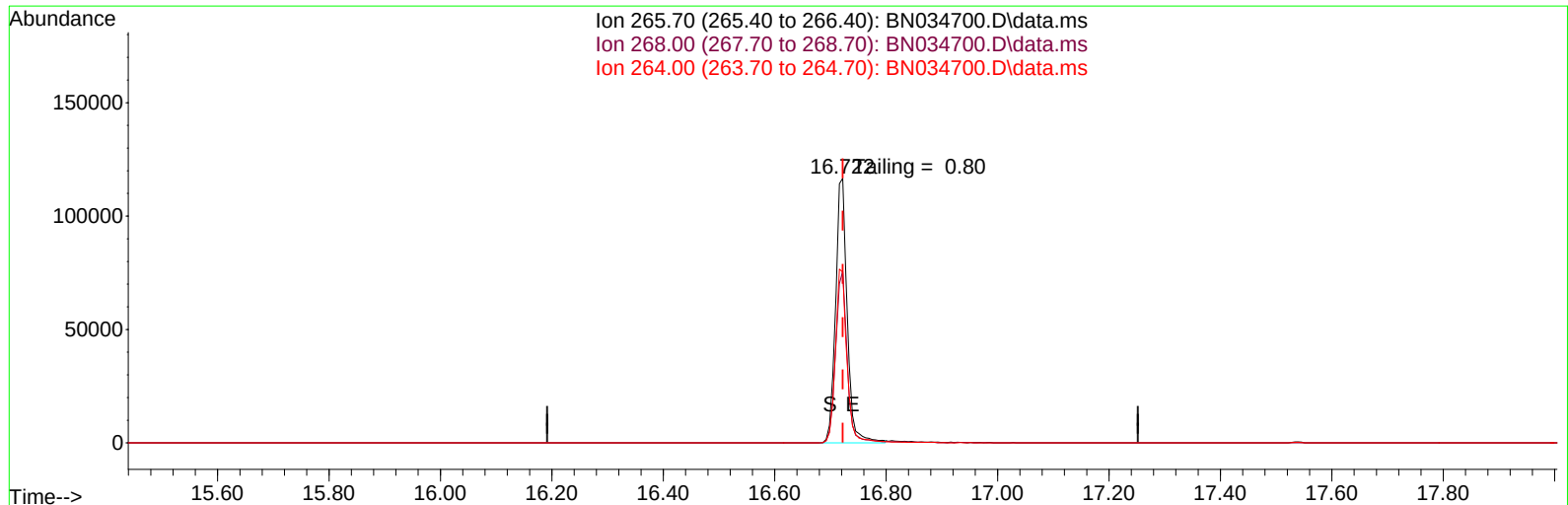
AutoFind: Scans 2490, 2491, 2492; Background Corrected with Scan 2483

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	73.1	153072	PASS
68	69	0.00	2	1.6	1977	PASS
69	198	0.00	100	59.5	124685	PASS
70	69	0.00	2	0.5	613	PASS
127	198	10	80	65.2	136648	PASS
197	198	0.00	2	0.5	1148	PASS
198	198	100	100	100.0	209429	PASS
199	198	5	9	6.5	13571	PASS
275	198	10	60	20.7	43333	PASS
365	198	1	100	2.6	5435	PASS
441	198	0.01	100	7.2	15057	PASS
442	442	50	100	100.0	88755	PASS
443	442	15	24	21.6	19165	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034700.D
Acq On : 24 Oct 2024 20:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 25 02:24:46 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: BN034700.D\data.ms

(70) Pentachlorophenol (C)

16.722min (0.000) 17028.21 ng

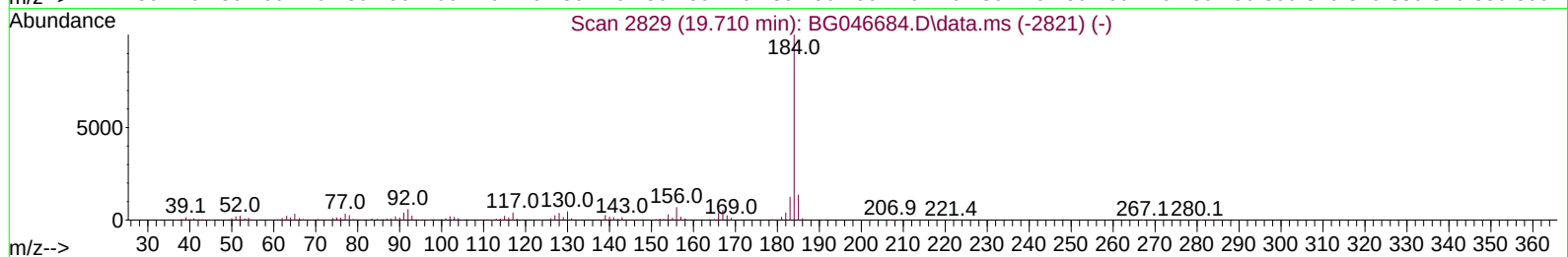
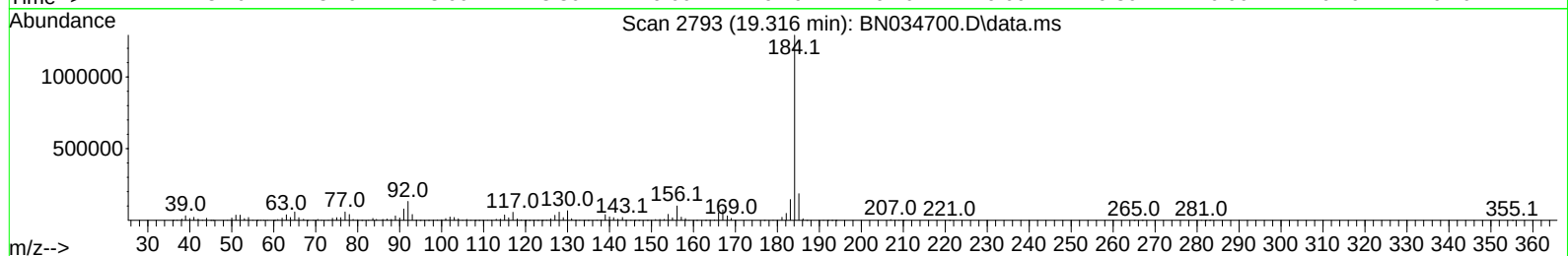
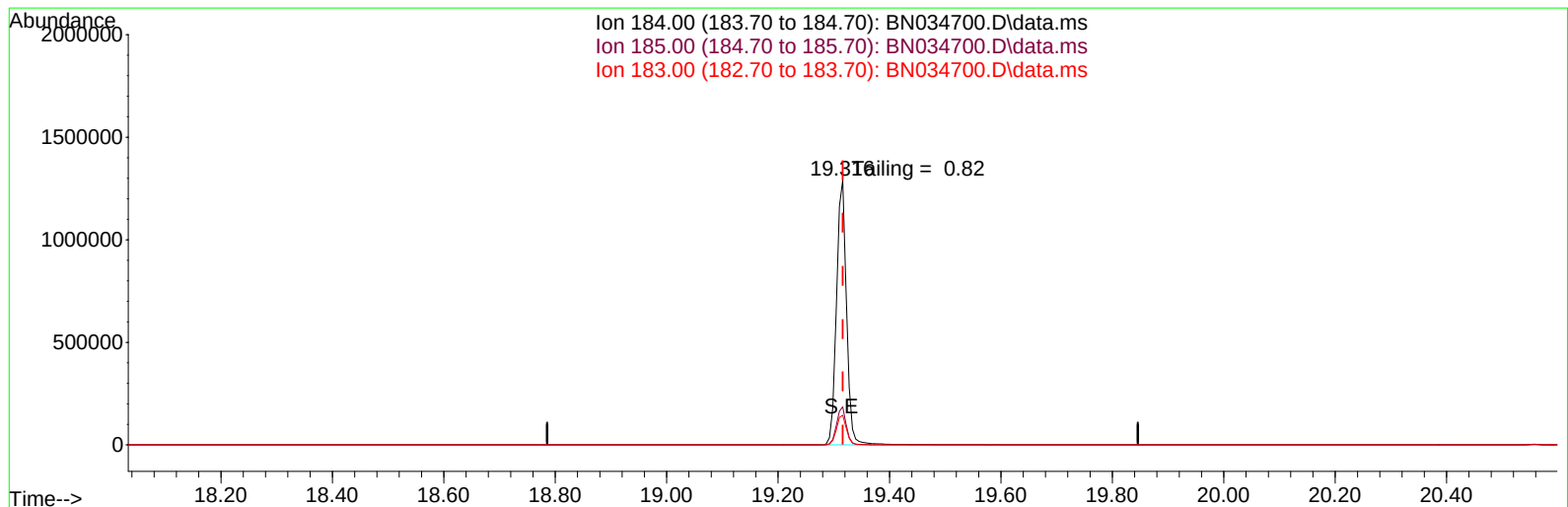
response 171184

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.80
264.00	61.60	64.51
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034700.D
Acq On : 24 Oct 2024 20:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 25 02:24:46 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: BN034700.D\data.ms

(77) Benzidine

19.316min (0.000) 0.00 ng

response 1621578

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.38
183.00	13.20	11.24
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/24/2024	BNA_N	<u>BN034700.D</u>
Compound Name	Response	Retention Time
DDT	622621	20.557
DDD	5755	20.169
DDE	0	19.622
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5755	628376	0.92

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164229BL	SDG No.:	P4428
Lab Sample ID:	PB164229BL	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
BN034692.D	1	10/17/24 13:55	10/24/24 14:50	PB164229

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		58 - 132		86%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6660	7.712				
1146-65-2	Naphthalene-d8	18700	10.479				
15067-26-2	Acenaphthene-d10	8130	14.329				
1517-22-2	Phenanthrene-d10	15400	17.069				
1719-03-5	Chrysene-d12	8430	21.25				
1520-96-3	Perylene-d12	4220	23.466				

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\BN102424\
Data File : BN034692.D
Acq On : 24 Oct 2024 14:50
Operator : RC/JU
Sample : PB164229BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164229BL

Quant Time: Oct 24 16:07:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.712	152	6659	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18698	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	8134	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	15380	0.400	ng	0.00
29) Chrysene-d12	21.250	240	8430	0.400	ng	0.00
35) Perylene-d12	23.466	264	4222	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	5432	0.274	ng	0.00
5) Phenol-d6	6.882	99	6829	0.262	ng	0.00
8) Nitrobenzene-d5	8.845	82	4819	0.307	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	7737	0.301	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	541	0.215	ng	0.00
15) 2-Fluorobiphenyl	12.961	172	10344	0.320	ng	0.01
27) Fluoranthene-d10	19.094	212	10450	0.302	ng	0.00
31) Terphenyl-d14	19.703	244	5927	0.344	ng	0.00

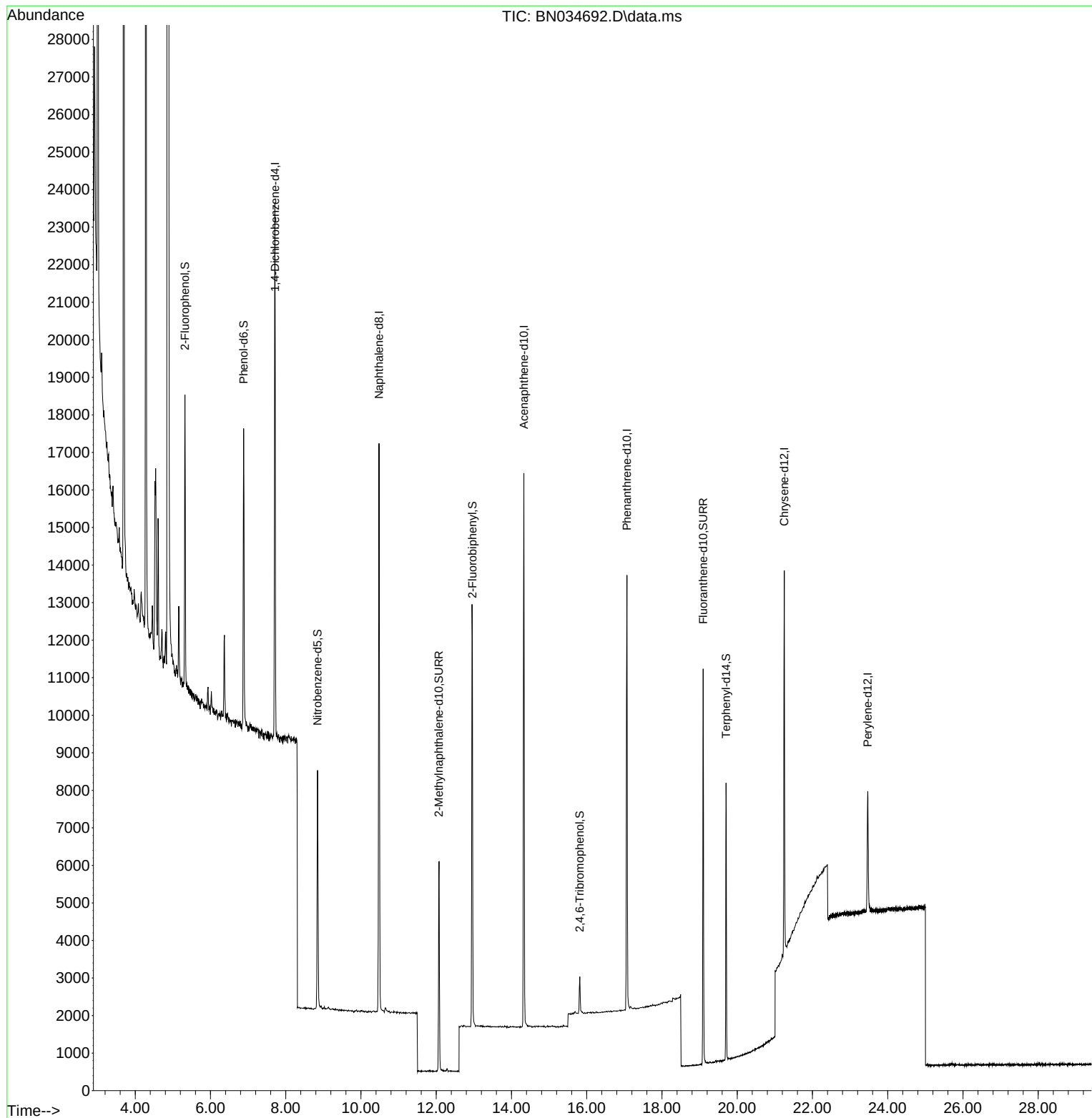
Target Compounds	Qvalue

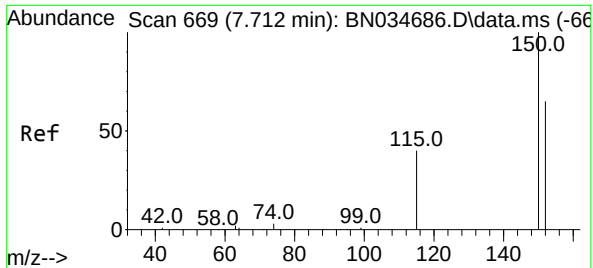
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034692.D
Acq On : 24 Oct 2024 14:50
Operator : RC/JU
Sample : PB164229BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164229BL

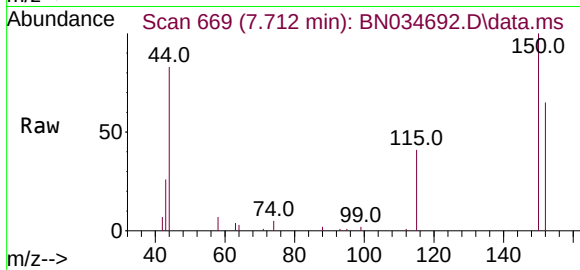
Quant Time: Oct 24 16:07:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



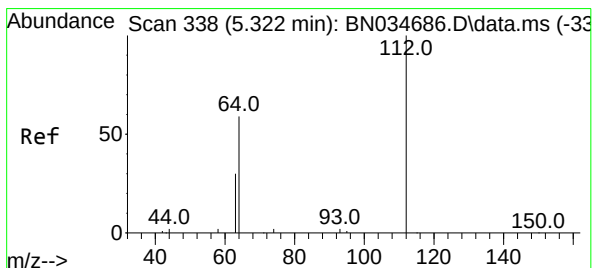
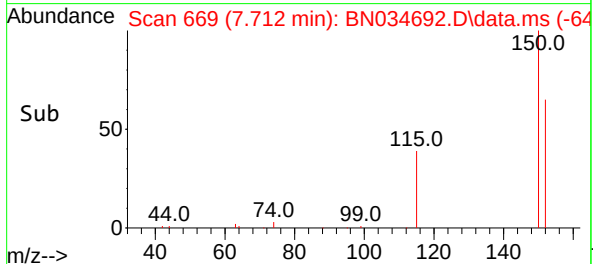
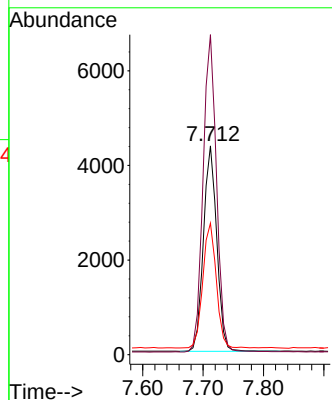


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Instrument :
BNA_N
ClientSampleId :
PB164229BL

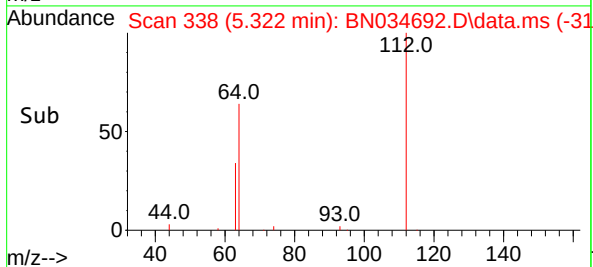
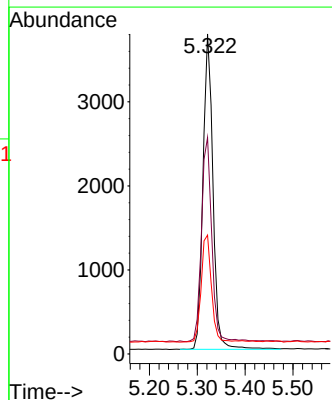
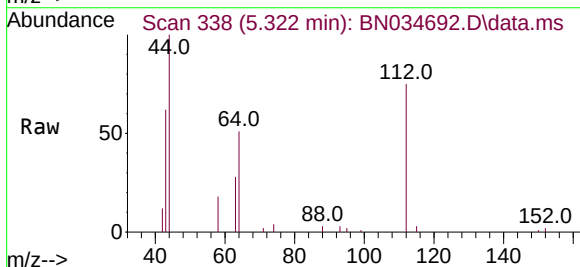


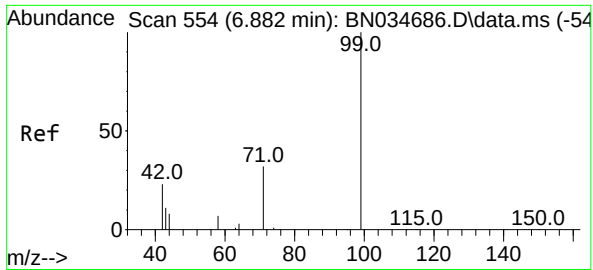
Tgt Ion:152 Resp: 6659
Ion Ratio Lower Upper
152 100
150 153.3 122.7 184.1
115 63.0 51.0 76.6



#4
2-Fluorophenol
Concen: 0.274 ng
RT: 5.322 min Scan# 338
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion:112 Resp: 5432
Ion Ratio Lower Upper
112 100
64 66.7 53.0 79.6
63 34.7 27.6 41.4

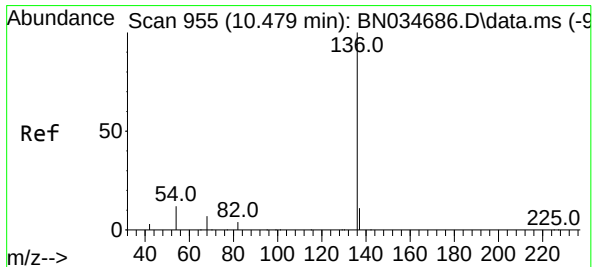
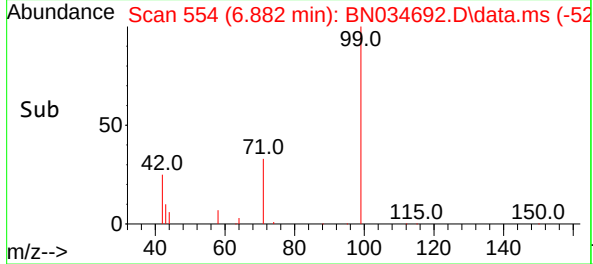
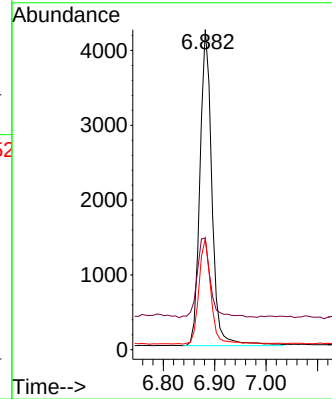
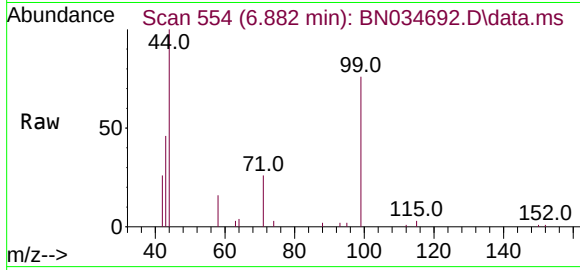




#5
Phenol-d6
Concen: 0.262 ng
RT: 6.882 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

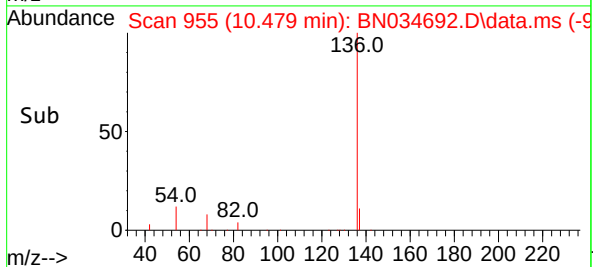
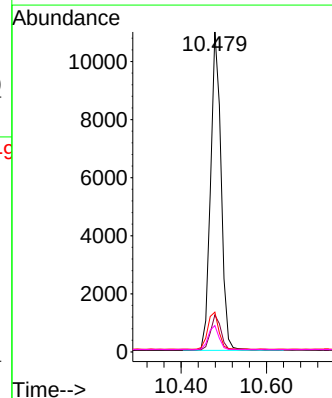
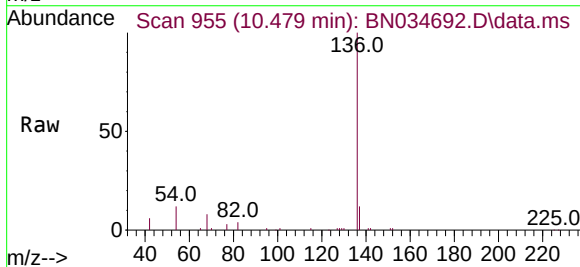
Instrument :
BNA_N
ClientSampleId :
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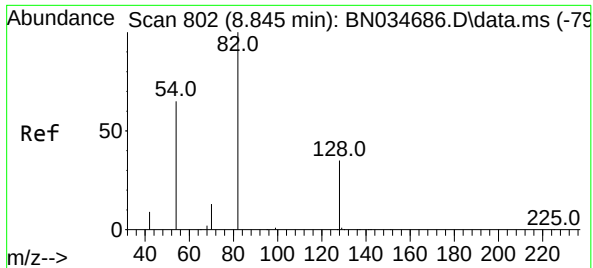
Tgt Ion: 99 Resp: 6829
Ion Ratio Lower Upper
99 100
42 28.1 21.8 32.8
71 33.3 26.6 40.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion: 136 Resp: 18698
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 12.5 9.8 14.8
68 8.2 6.4 9.6

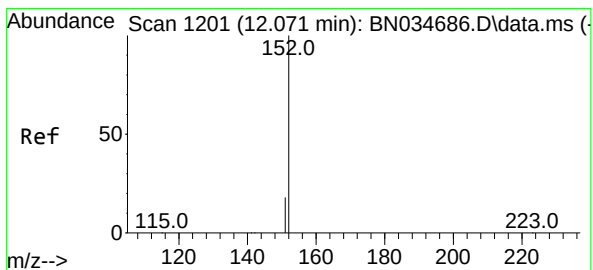
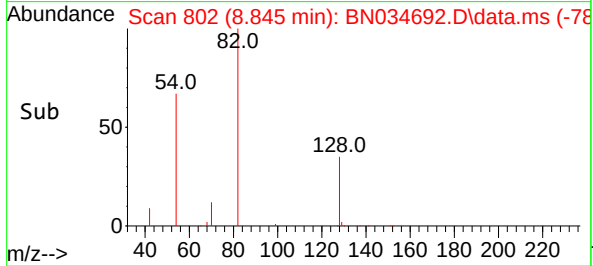
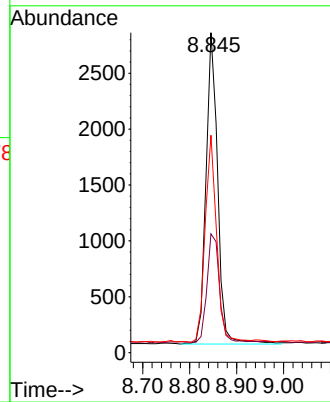
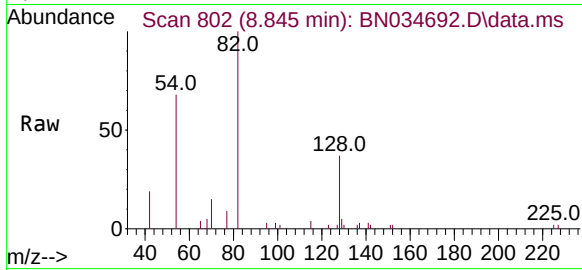




#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.845 min Scan# 802
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

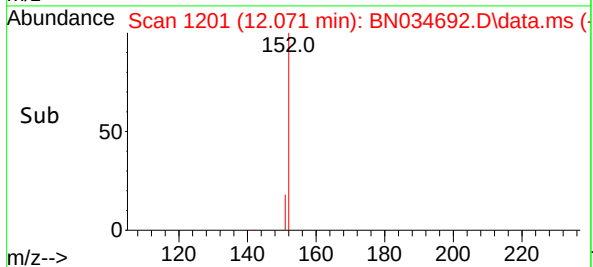
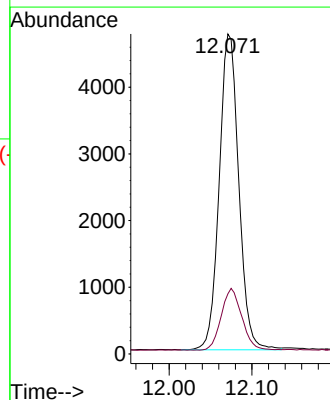
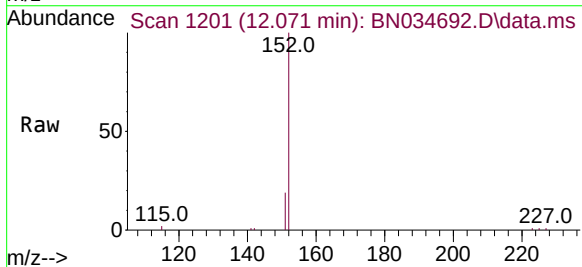
Instrument :
BNA_N
ClientSampleId :
PB164229BL

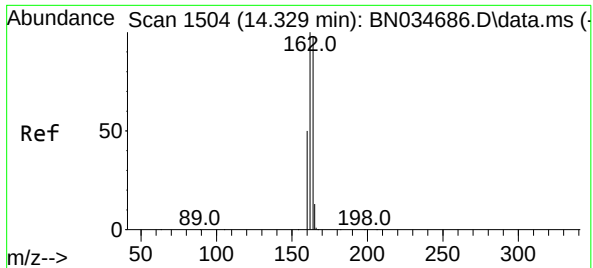
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.1	29.7	44.5
54	67.9	53.0	79.6



#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 12.071 min Scan# 1201
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.7	25.1

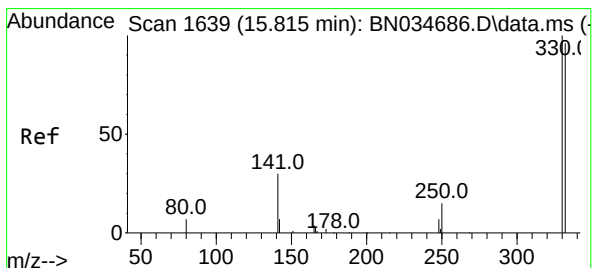
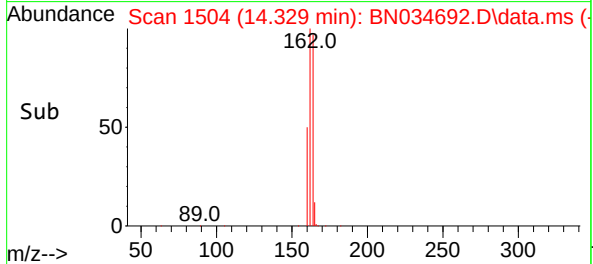
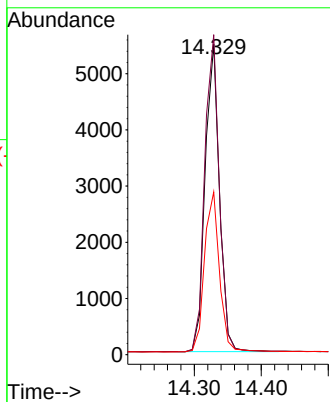
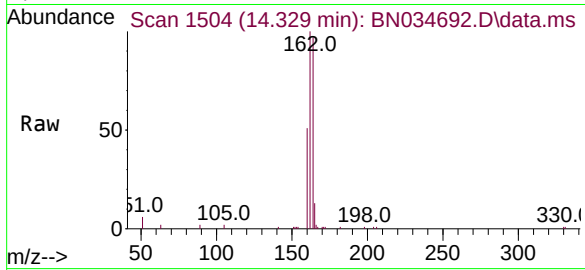




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

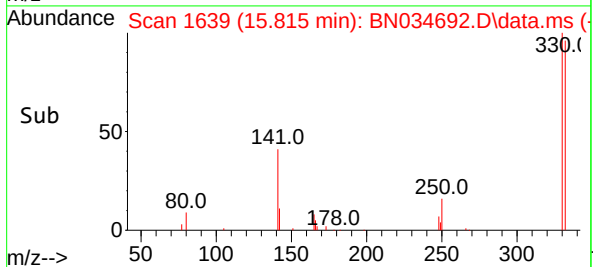
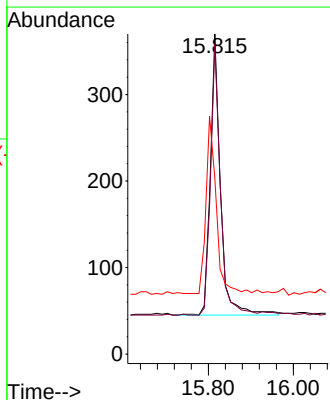
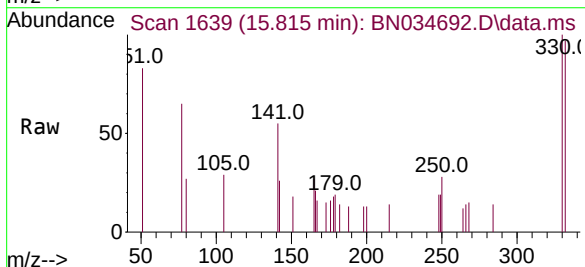
Instrument :
BNA_N
ClientSampleId :
PB164229BL

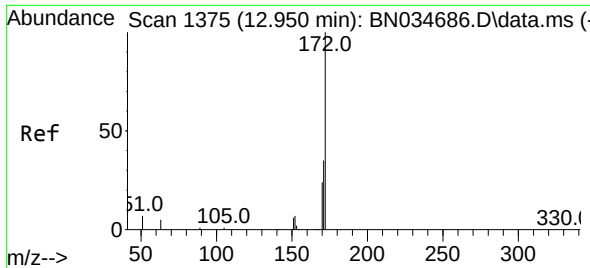
Tgt Ion:164 Resp: 8134
Ion Ratio Lower Upper
164 100
162 103.0 81.4 122.0
160 52.4 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.215 ng
RT: 15.815 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion:330 Resp: 541
Ion Ratio Lower Upper
330 100
332 93.0 76.6 115.0
141 62.7 54.6 81.8

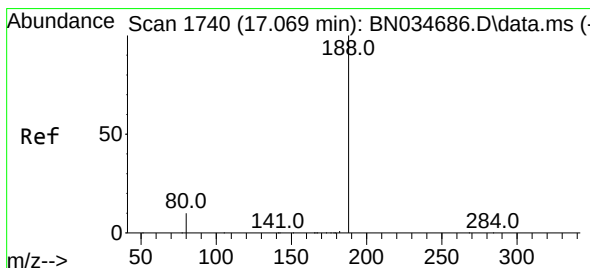
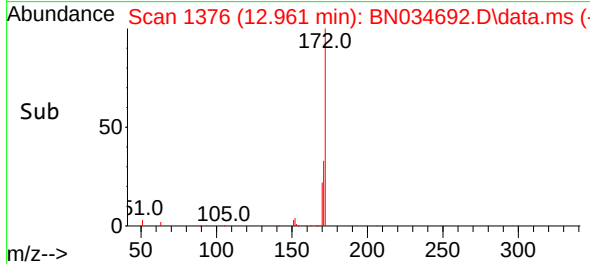
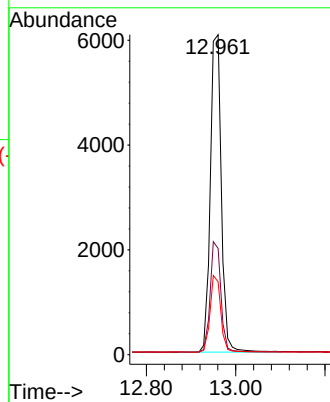
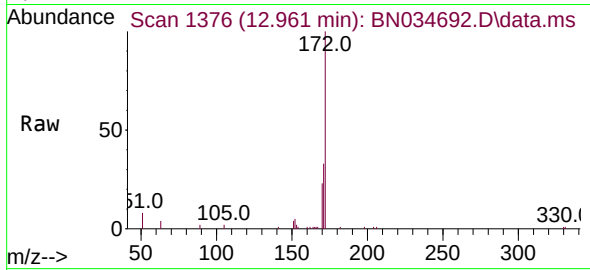




#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 12.961 min Scan# 1376
Delta R.T. 0.011 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

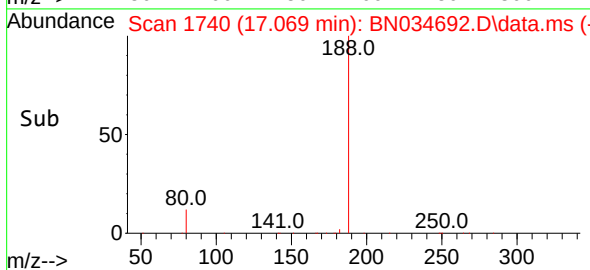
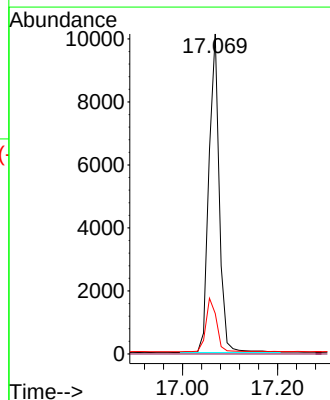
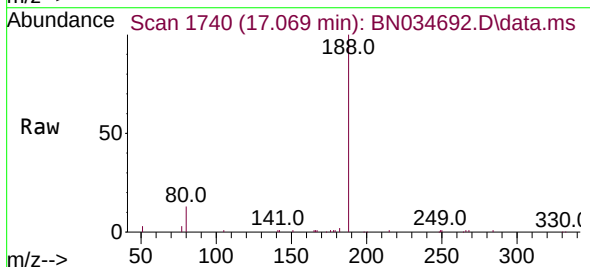
Instrument :
BNA_N
ClientSampleId :
PB164229BL

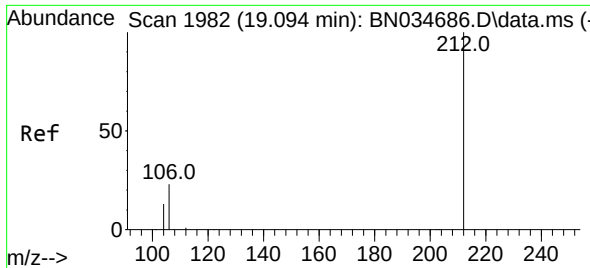
Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.2	28.3	42.5
170	22.8	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.069 min Scan# 1740
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	8.9	13.3





#27

Fluoranthene-d10

Concen: 0.302 ng

RT: 19.094 min Scan# 1982

Delta R.T. -0.000 min

Lab File: BN034692.D

Acq: 24 Oct 2024 14:50

Instrument :

BNA_N

ClientSampleId :

PB164229BL

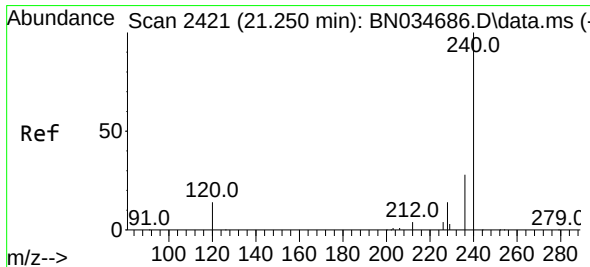
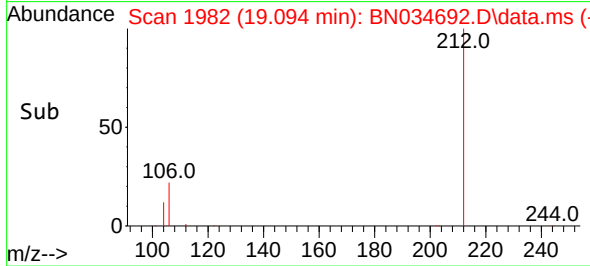
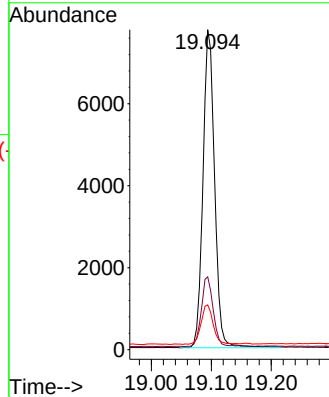
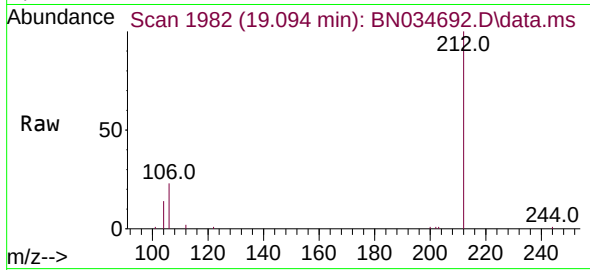
Tgt Ion:212 Resp: 10450

Ion Ratio Lower Upper

212 100

106 22.2 17.8 26.8

104 12.9 10.2 15.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.250 min Scan# 2421

Delta R.T. -0.000 min

Lab File: BN034692.D

Acq: 24 Oct 2024 14:50

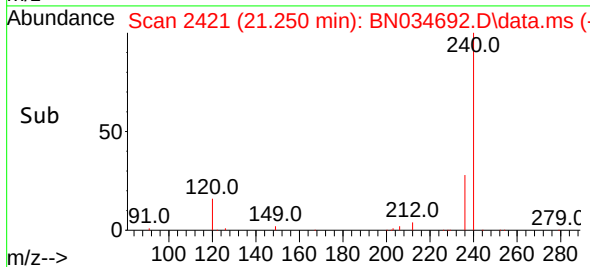
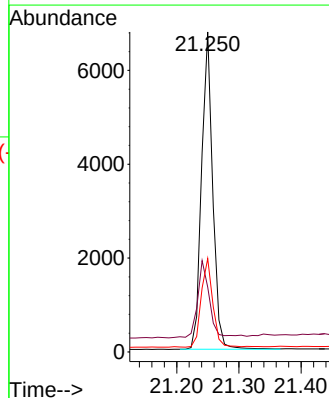
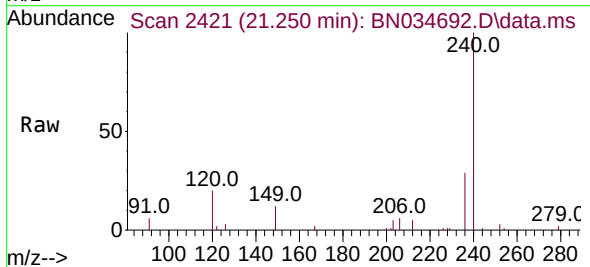
Tgt Ion:240 Resp: 8430

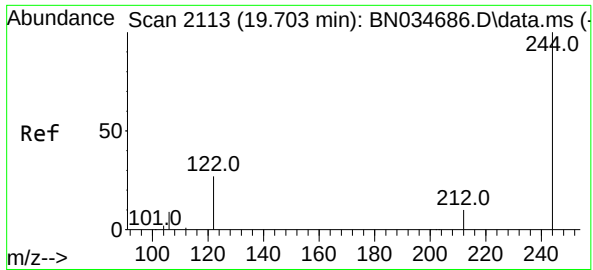
Ion Ratio Lower Upper

240 100

120 20.3 14.2 21.2

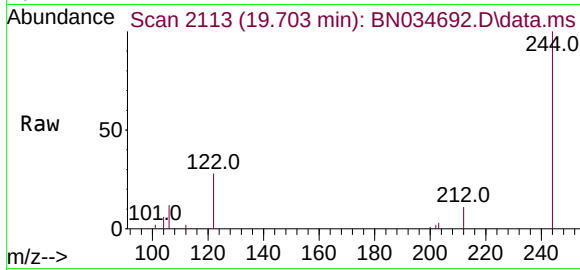
236 29.2 23.1 34.7



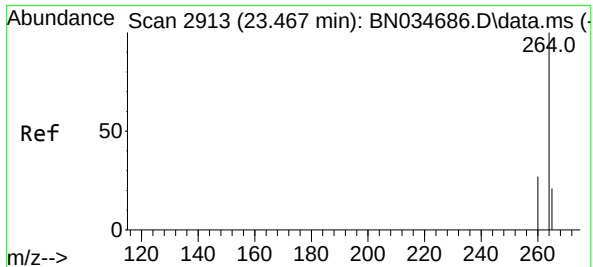
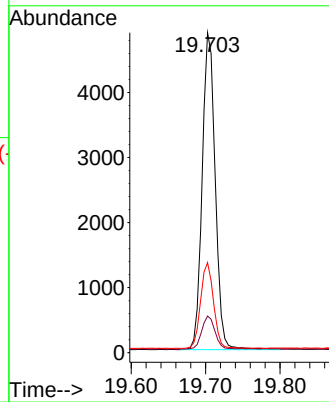
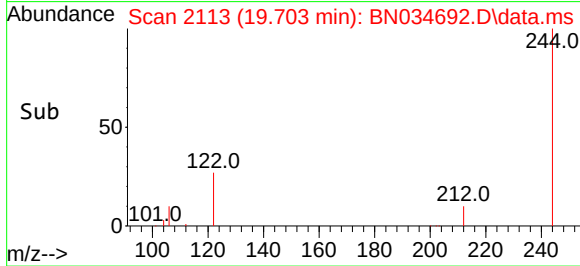


#31
Terphenyl-d14
Concen: 0.344 ng
RT: 19.703 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Instrument :
BNA_N
ClientSampleId :
PB164229BL

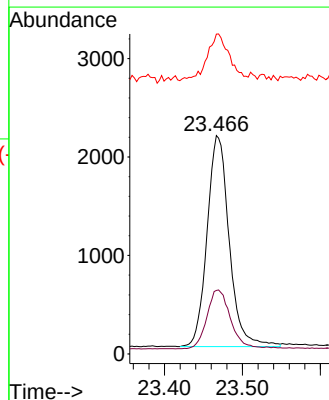
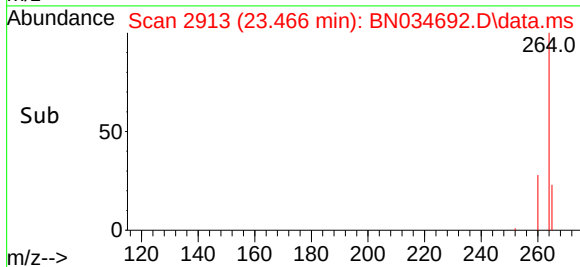
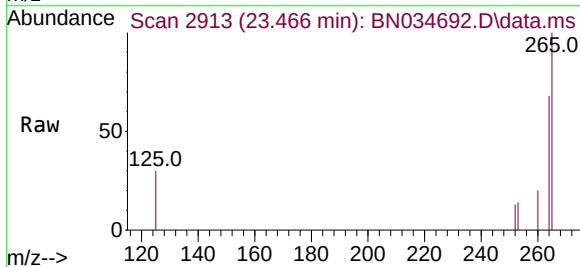


Tgt Ion:244 Resp: 5927
Ion Ratio Lower Upper
244 100
212 11.4 8.6 13.0
122 28.1 22.3 33.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.466 min Scan# 2913
Delta R.T. -0.000 min
Lab File: BN034692.D
Acq: 24 Oct 2024 14:50

Tgt Ion:264 Resp: 4222
Ion Ratio Lower Upper
264 100
260 29.1 21.9 32.9
265 146.4 60.6 91.0#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164229BS	SDG No.:	P4428
Lab Sample ID:	PB164229BS	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
BN034694.D	1	10/17/24 13:55	10/24/24 16:05	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.26		30 - 150		65%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7750	7.712				
1146-65-2	Naphthalene-d8	21900	10.479				
15067-26-2	Acenaphthene-d10	9310	14.329				
1517-22-2	Phenanthrene-d10	17500	17.069				
1719-03-5	Chrysene-d12	7330	21.25				
1520-96-3	Perylene-d12	876	23.467				

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\BN102424\
 Data File : BN034694.D
 Acq On : 24 Oct 2024 16:05
 Operator : RC/JU
 Sample : PB164229BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164229BS

Quant Time: Oct 24 16:50:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 24 13:17:02 2024
 Response via : Initial Calibration

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

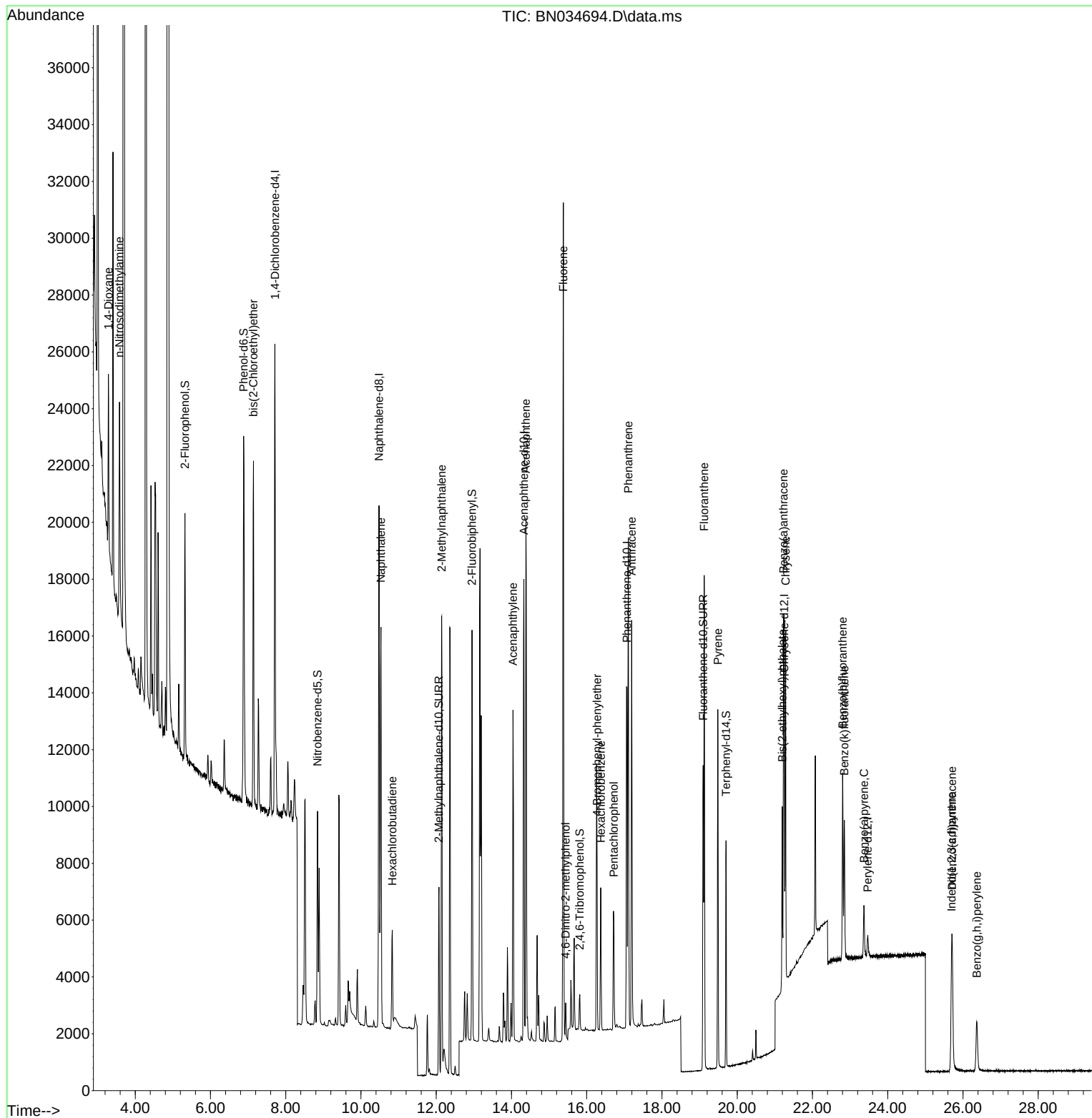
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	7746	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	21854	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	9313	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	17486	0.400	ng	0.00
29) Chrysene-d12	21.250	240	7332	0.400	ng	0.00
35) Perylene-d12	23.467	264	876	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	6052	0.263	ng	0.00
5) Phenol-d6	6.882	99	7755	0.255	ng	0.00
8) Nitrobenzene-d5	8.846	82	5450	0.297	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	8675	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	652	0.226	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	11920	0.322	ng	0.00
27) Fluoranthene-d10	19.094	212	10319	0.262	ng	0.00
31) Terphenyl-d14	19.703	244	6327	0.422	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.285	88	2791	0.271	ng	# 50
3) n-Nitrosodimethylamine	3.581	42	4979	0.332	ng	# 87
6) bis(2-Chloroethyl)ether	7.142	93	7844	0.318	ng	100
9) Naphthalene	10.533	128	18694	0.309	ng	100
10) Hexachlorobutadiene	10.831	225	2716	0.300	ng	# 99
12) 2-Methylnaphthalene	12.147	142	11287	0.301	ng	99
16) Acenaphthylene	14.041	152	12522	0.280	ng	99
17) Acenaphthene	14.383	154	9573	0.311	ng	100
18) Fluorene	15.377	166	11879	0.312	ng	97
20) 4,6-Dinitro-2-methylph...	15.441	198	707	0.290	ng	# 65
21) 4-Bromophenyl-phenylether	16.275	248	2904	0.311	ng	95
22) Hexachlorobenzene	16.374	284	3171	0.314	ng	98
24) Pentachlorophenol	16.722	266	2054	0.574	ng	99
25) Phenanthrene	17.106	178	17331	0.330	ng	100
26) Anthracene	17.193	178	14396	0.309	ng	100
28) Fluoranthene	19.122	202	14788	0.270	ng	99
30) Pyrene	19.485	202	11159	0.296	ng	100
32) Benzo(a)anthracene	21.232	228	9089	0.324	ng	99
33) Chrysene	21.286	228	10779	0.372	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	5664	0.356	ng	98
36) Indeno(1,2,3-cd)pyrene	25.695	276	4349	1.289	ng	94
37) Benzo(b)fluoranthene	22.803	252	7878	2.252	ng	# 89
38) Benzo(k)fluoranthene	22.847	252	5762	1.670	ng	# 84
39) Benzo(a)pyrene	23.370	252	2645	0.942	ng	# 52
40) Dibenzo(a,h)anthracene	25.709	278	5421	2.037	ng	93
41) Benzo(g,h,i)perylene	26.370	276	3408	1.162	ng	92

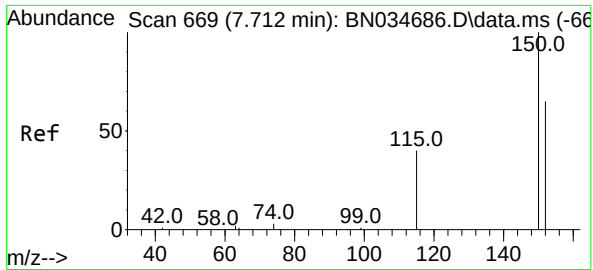
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034694.D
Acq On : 24 Oct 2024 16:05
Operator : RC/JU
Sample : PB164229BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164229BS

Quant Time: Oct 24 16:50:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration

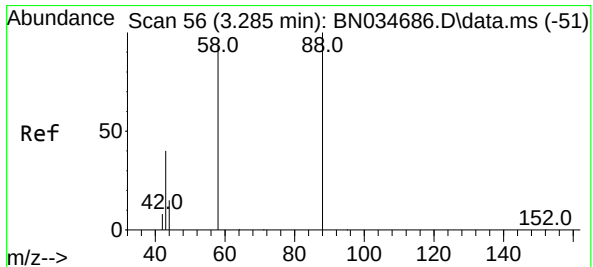
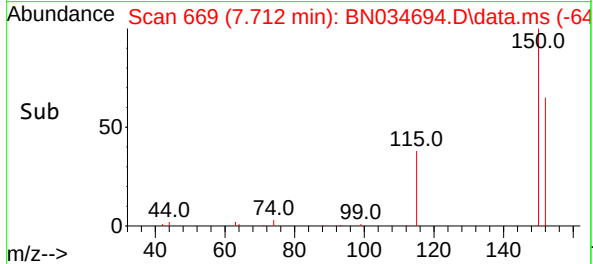
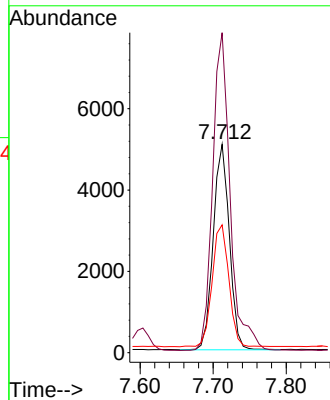
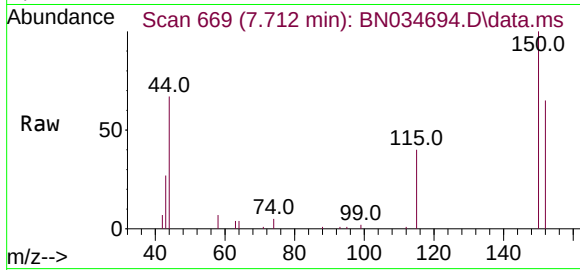




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

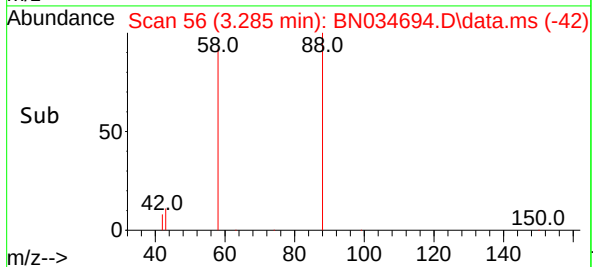
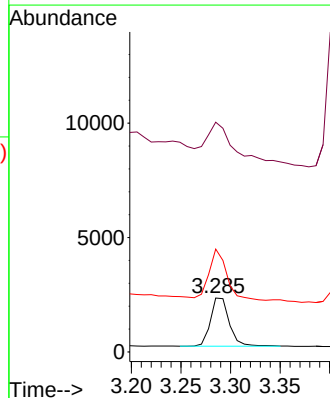
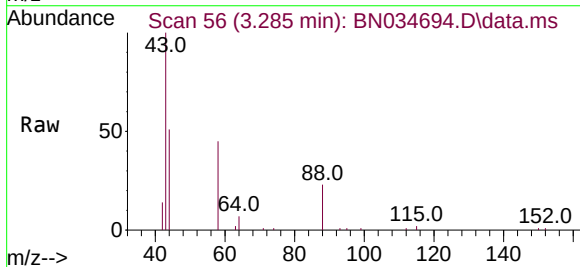
Instrument :
BNA_N
ClientSampleId :
PB164229BS

Tgt Ion: 152 Resp: 7746
Ion Ratio Lower Upper
152 100
150 153.6 122.7 184.1
115 61.4 51.0 76.6

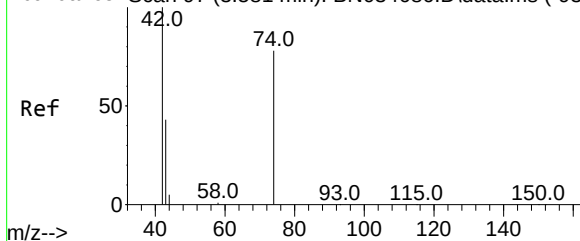


#2
1,4-Dioxane
Concen: 0.271 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion: 88 Resp: 2791
Ion Ratio Lower Upper
88 100
43 120.4 32.1 48.1#
58 106.6 73.7 110.5



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



#3

n-Nitrosodimethylamine

Concen: 0.332 ng

RT: 3.581 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034694.D

Acq: 24 Oct 2024 16:05

Instrument :

BNA_N

ClientSampleId :

PB164229BS

Tgt Ion: 42 Resp: 4979

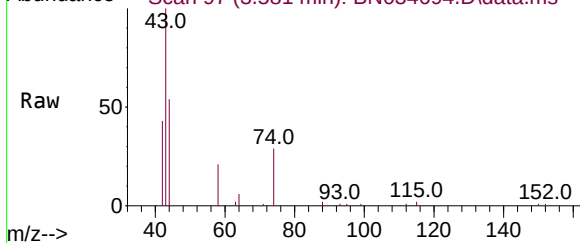
Ion Ratio Lower Upper

42 100

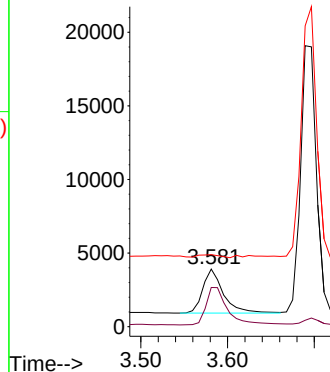
74 88.8 77.2 115.8

44 0.0 13.4 20.2#

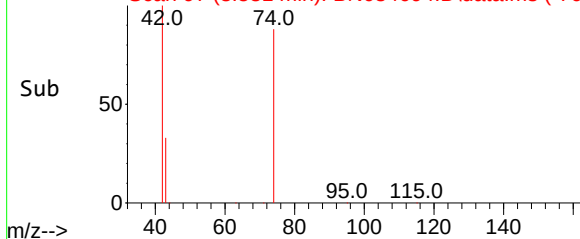
Abundance Scan 97 (3.581 min): BN034694.D\data.ms



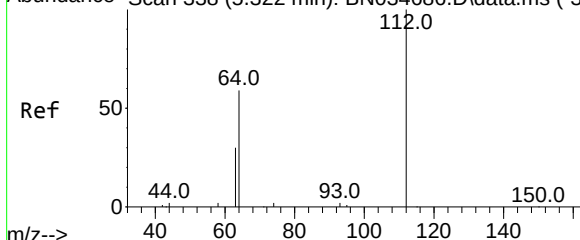
Abundance



Abundance Scan 97 (3.581 min): BN034694.D\data.ms (-76)



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



#4

2-Fluorophenol

Concen: 0.263 ng

RT: 5.322 min Scan# 338

Delta R.T. 0.000 min

Lab File: BN034694.D

Acq: 24 Oct 2024 16:05

Tgt Ion: 112 Resp: 6052

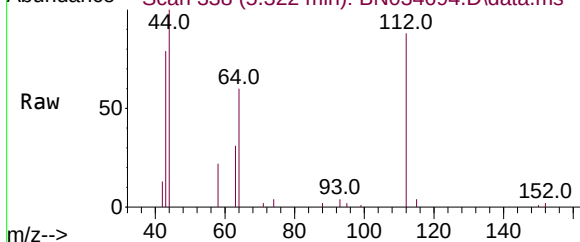
Ion Ratio Lower Upper

112 100

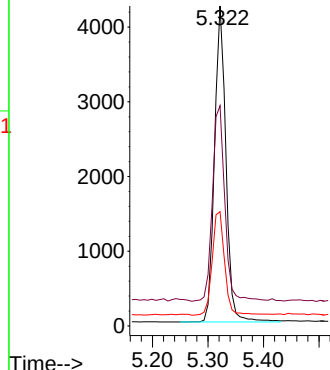
64 67.3 53.0 79.6

63 36.1 27.6 41.4

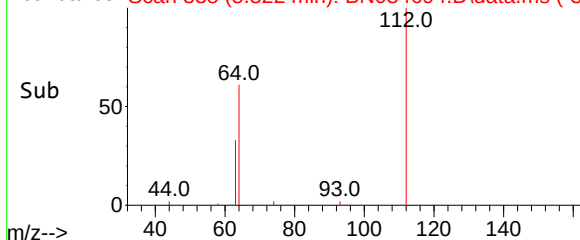
Abundance Scan 338 (5.322 min): BN034694.D\data.ms

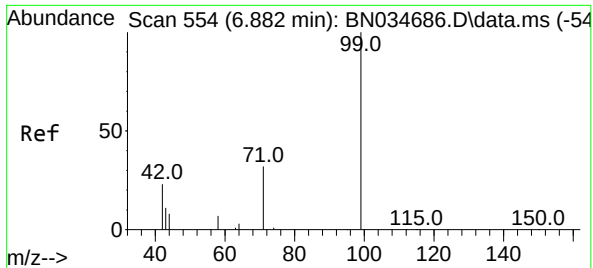


Abundance



Abundance Scan 338 (5.322 min): BN034694.D\data.ms (-31)

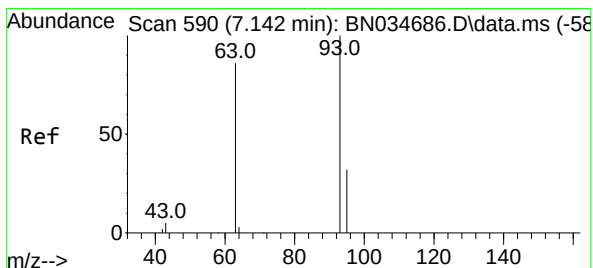
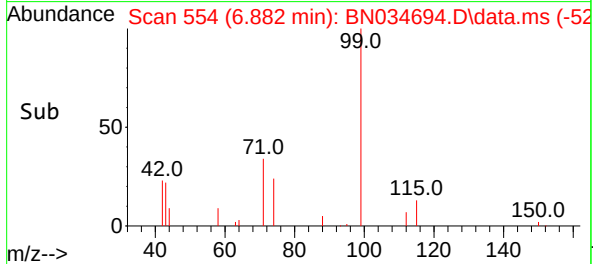
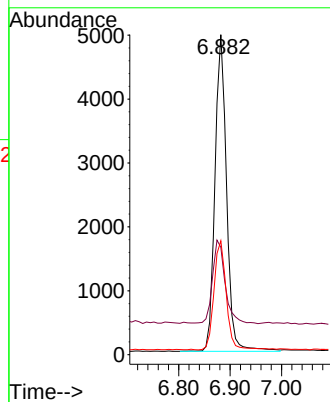
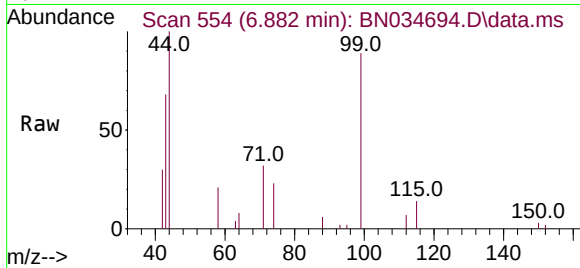




#5
Phenol-d6
Concen: 0.255 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

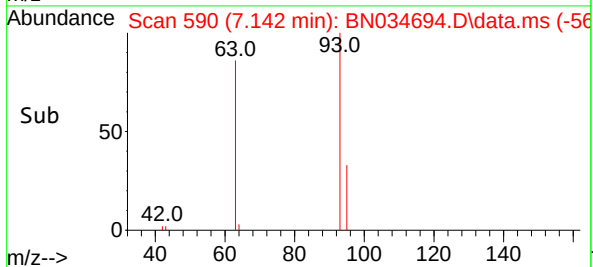
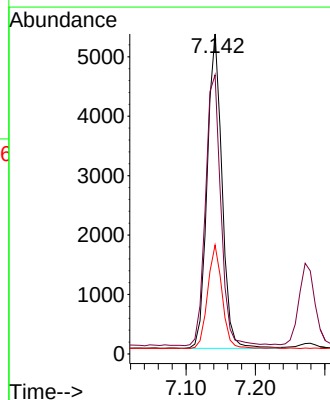
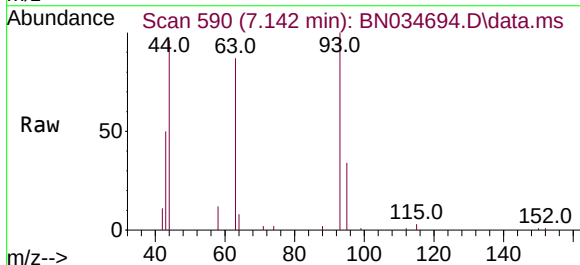
Instrument :
BNA_N
ClientSampleId :
PB164229BS

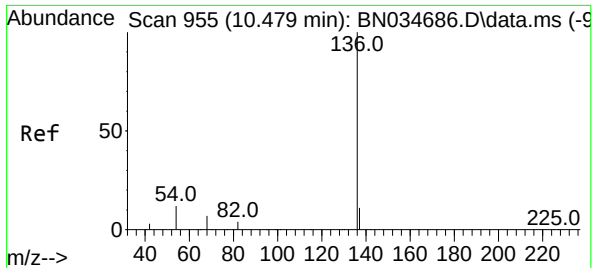
Tgt Ion: 99 Resp: 7755
Ion Ratio Lower Upper
99 100
42 28.9 21.8 32.8
71 36.6 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.318 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion: 93 Resp: 7844
Ion Ratio Lower Upper
93 100
63 89.6 71.5 107.3
95 32.0 25.8 38.6

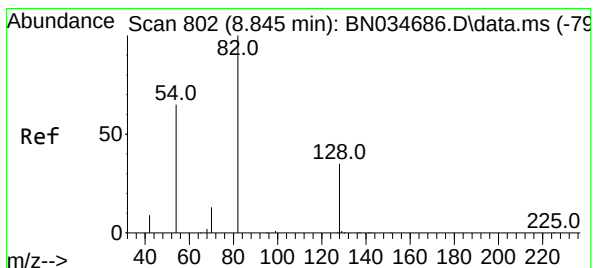
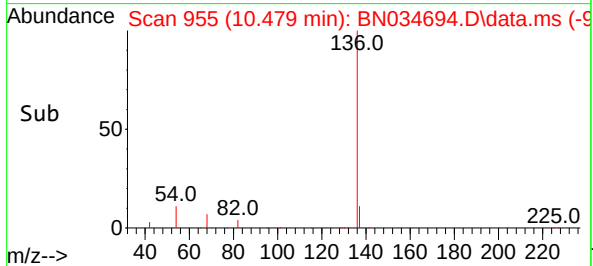
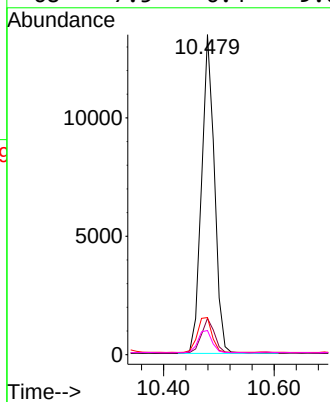
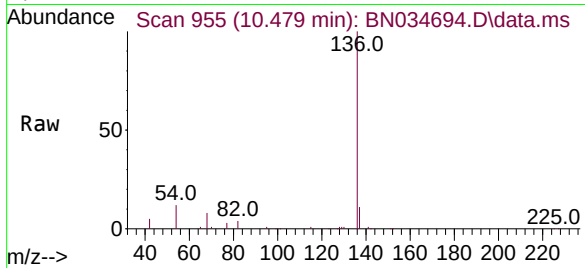




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

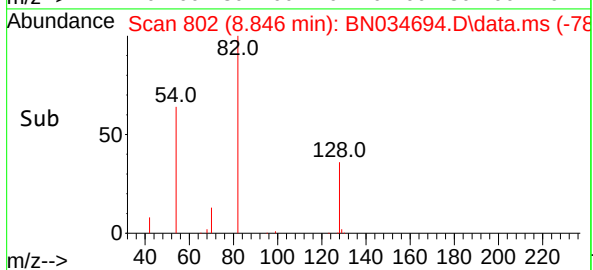
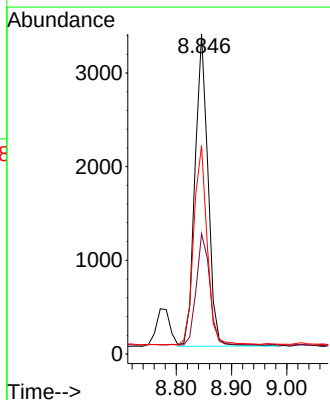
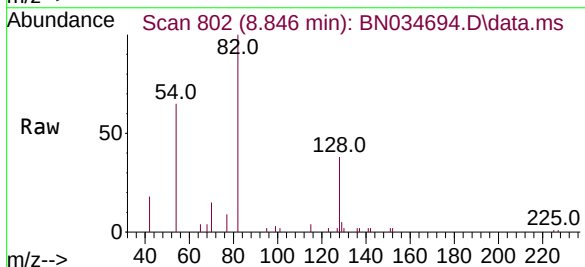
Instrument :
BNA_N
ClientSampleId :
PB164229BS

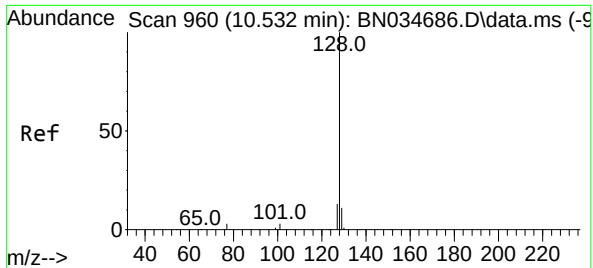
Tgt Ion:	136	Resp:	21854
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	11.6	9.8	14.8
68	7.5	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.297 ng
RT: 8.846 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:	82	Resp:	5450
Ion	Ratio	Lower	Upper
82	100		
128	37.5	29.7	44.5
54	65.1	53.0	79.6

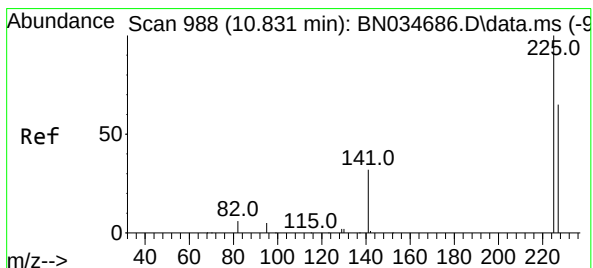
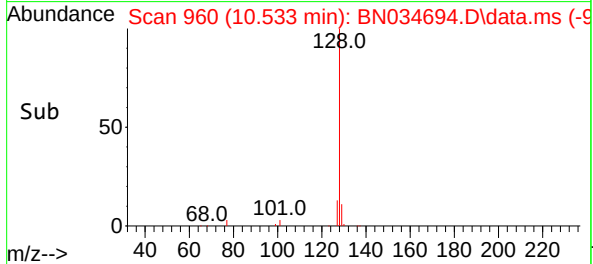
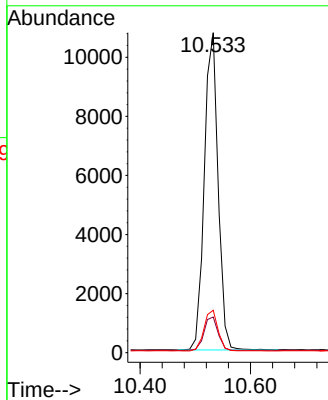
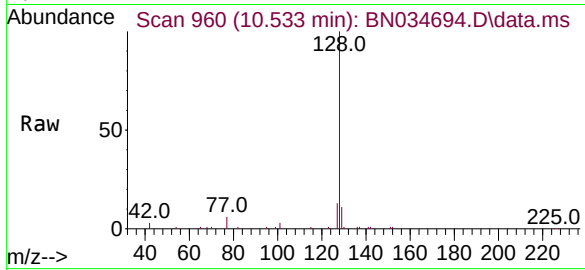




#9
Naphthalene
Concen: 0.309 ng
RT: 10.533 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

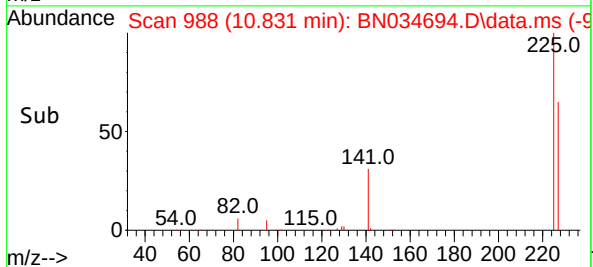
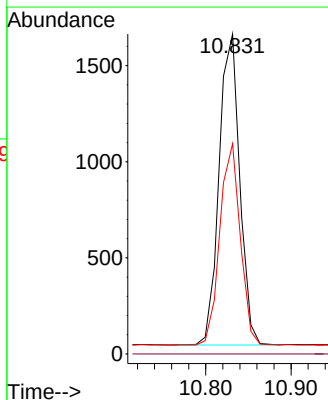
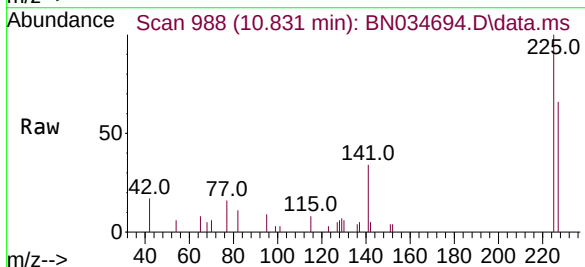
Instrument :
BNA_N
ClientSampleId :
PB164229BS

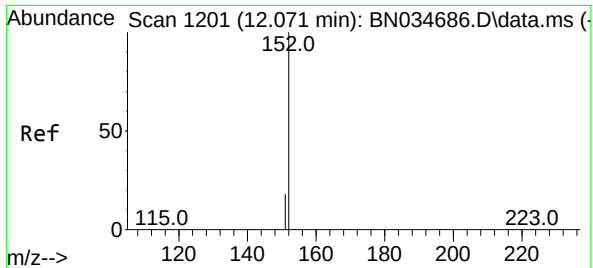
Tgt Ion	128	129	127
Resp:	18694		
Ion Ratio	100	11.1	13.3
Lower		9.0	10.5
Upper		13.6	15.7



#10
Hexachlorobutadiene
Concen: 0.300 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion	225	223	227
Resp:	2716		
Ion Ratio	100	0.0	63.8
Lower		0.0	51.4
Upper		0.0	77.0

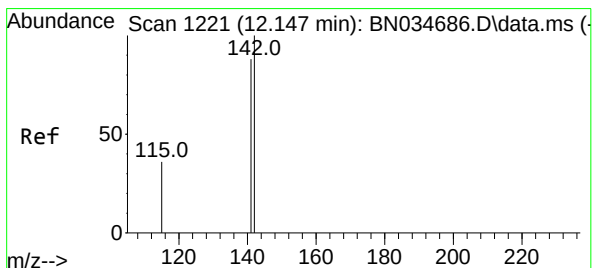
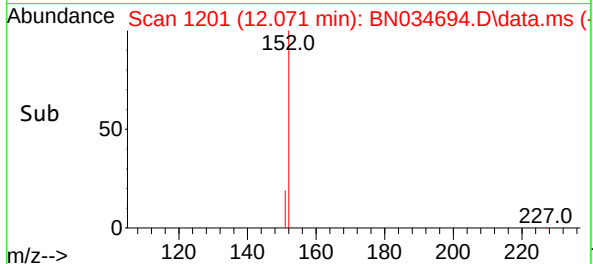
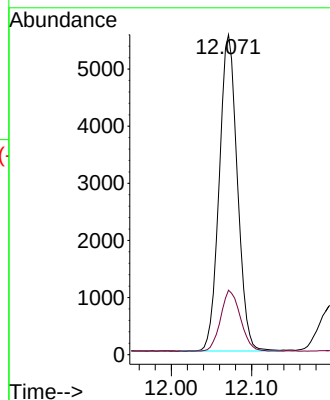
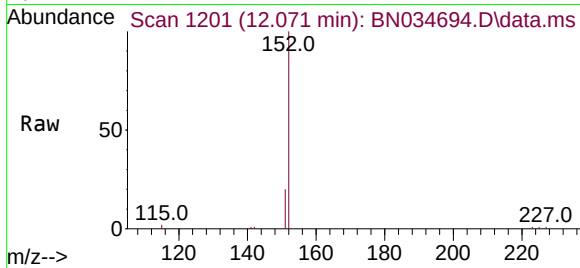




#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

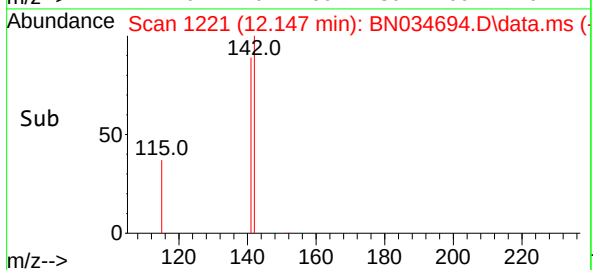
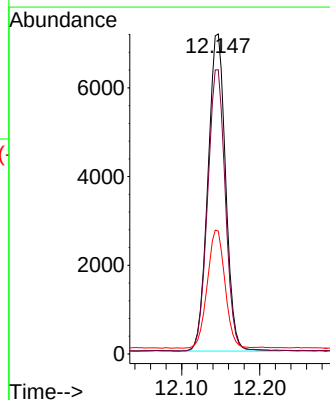
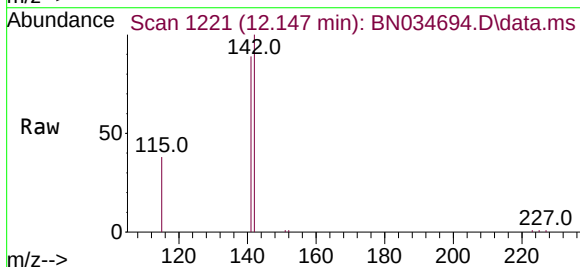
Instrument :
BNA_N
ClientSampleId :
PB164229BS

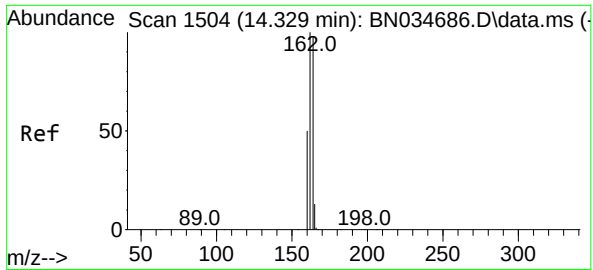
Tgt Ion:152 Resp: 8675
Ion Ratio Lower Upper
152 100
151 21.2 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.301 ng
RT: 12.147 min Scan# 1221
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:142 Resp: 11287
Ion Ratio Lower Upper
142 100
141 88.8 70.4 105.6
115 38.4 29.8 44.6

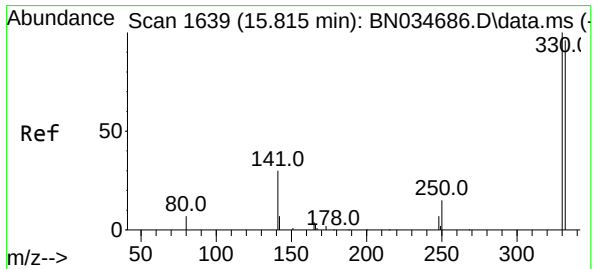
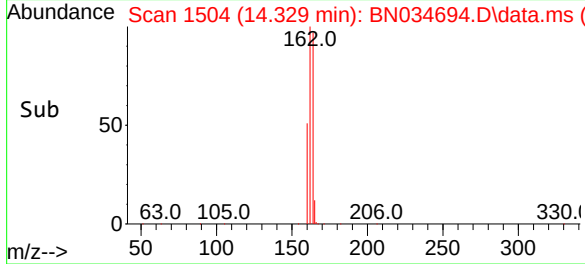
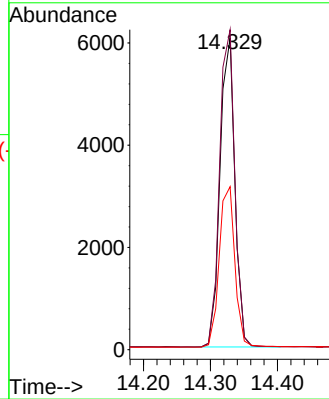
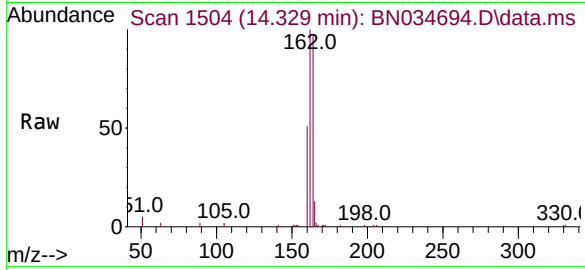




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

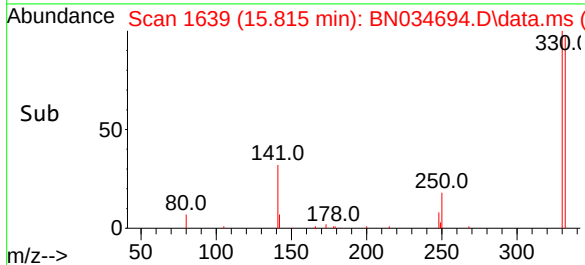
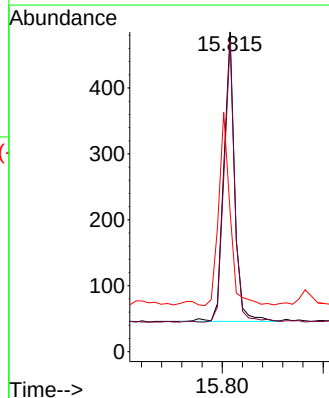
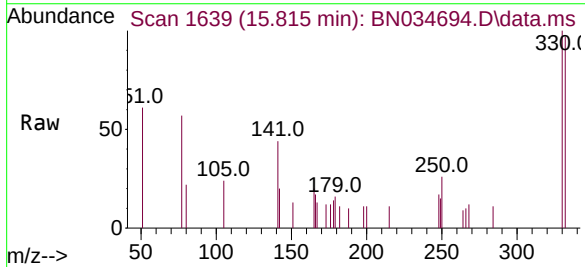
Instrument :
BNA_N
ClientSampleId :
PB164229BS

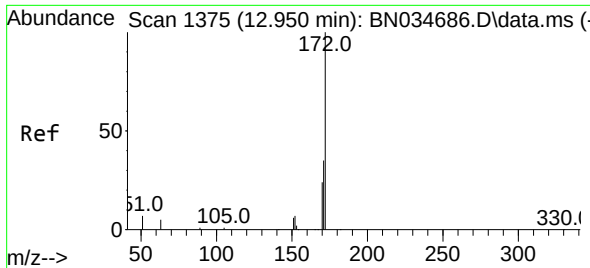
Tgt Ion:164 Resp: 9313
Ion Ratio Lower Upper
164 100
162 102.6 81.4 122.0
160 52.3 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:330 Resp: 652
Ion Ratio Lower Upper
330 100
332 94.9 76.6 115.0
141 70.1 54.6 81.8

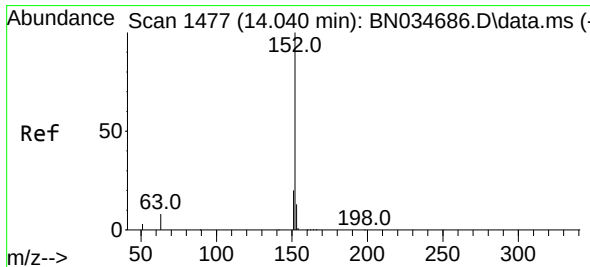
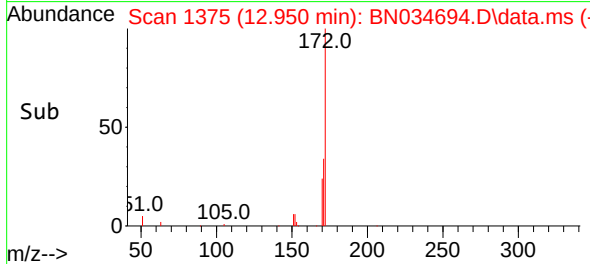
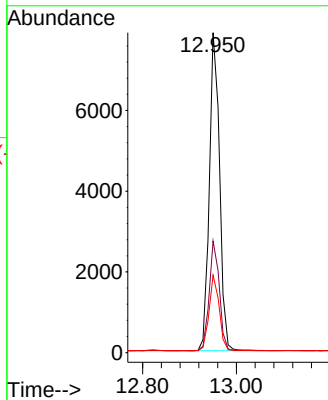
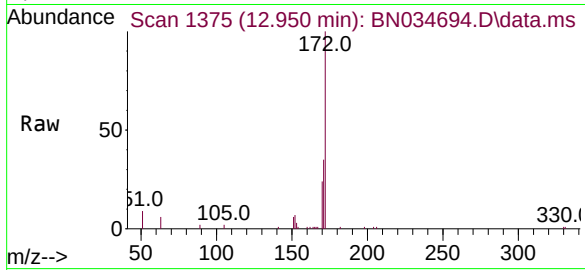




#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

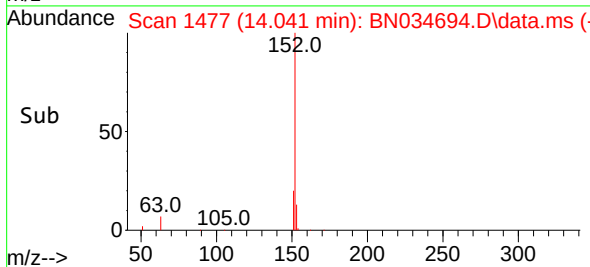
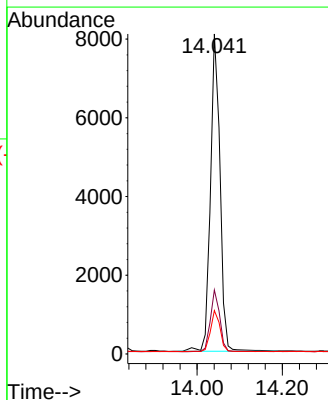
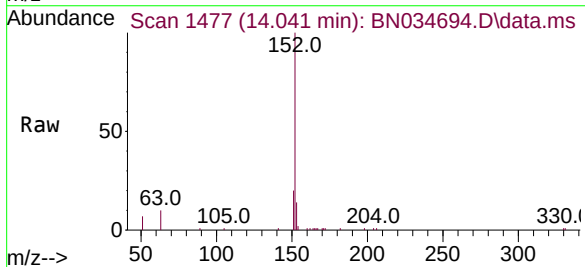
Instrument :
BNA_N
ClientSampleId :
PB164229BS

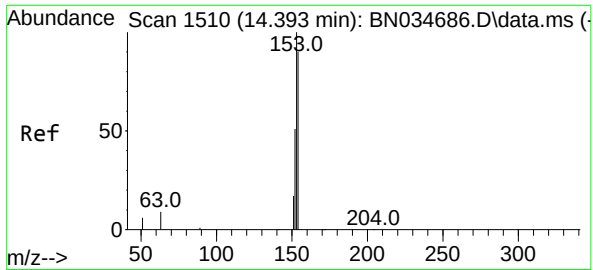
Tgt Ion:	172	Resp:	11920
Ion Ratio	Lower	Upper	
172	100		
171	34.9	28.3	42.5
170	24.2	19.8	29.6



#16
Acenaphthylene
Concen: 0.280 ng
RT: 14.041 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:	152	Resp:	12522
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.6	23.4
153	13.0	10.6	15.8

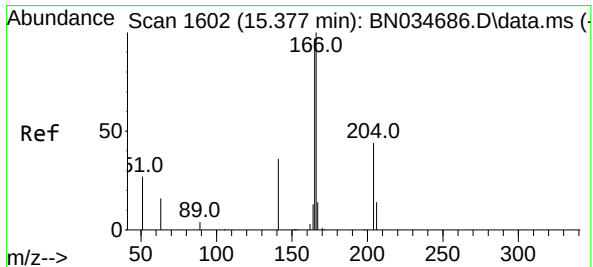
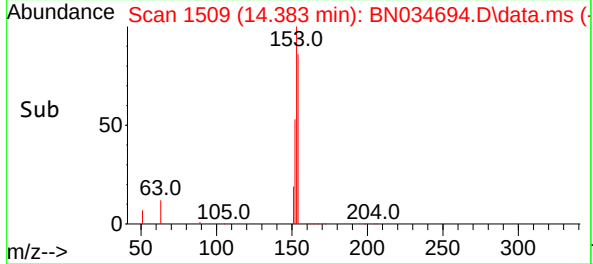
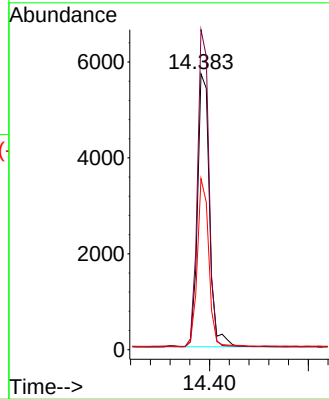
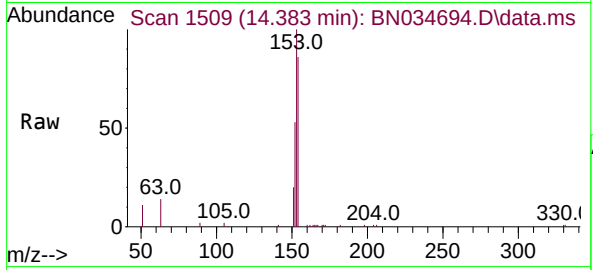




#17
Acenaphthene
Concen: 0.311 ng
RT: 14.383 min Scan# 1510
Delta R.T. -0.011 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

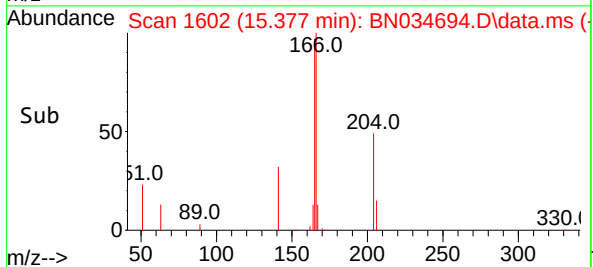
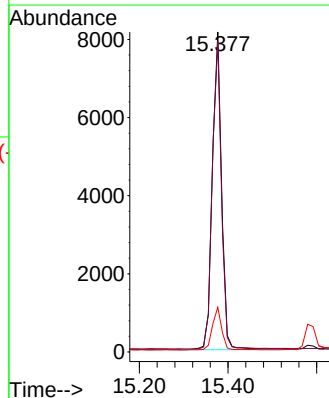
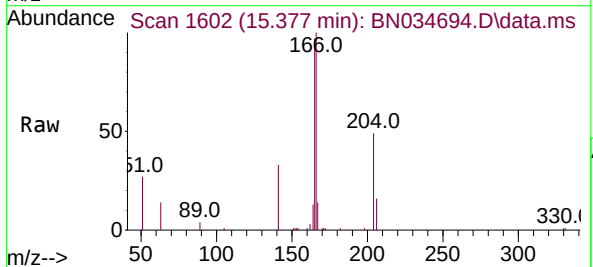
Instrument :
BNA_N
ClientSampleId :
PB164229BS

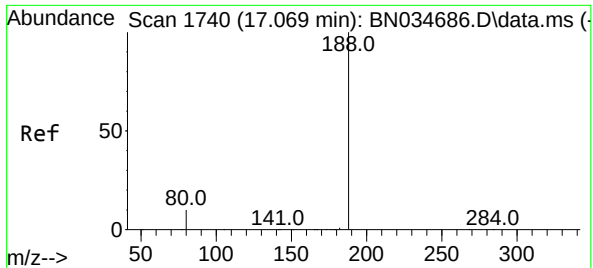
Tgt Ion:154 Resp: 9573
Ion Ratio Lower Upper
154 100
153 110.5 88.2 132.2
152 58.0 46.9 70.3



#18
Fluorene
Concen: 0.312 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:166 Resp: 11879
Ion Ratio Lower Upper
166 100
165 95.0 78.8 118.2
167 13.6 10.6 16.0

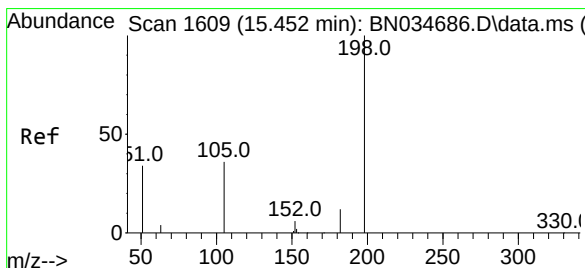
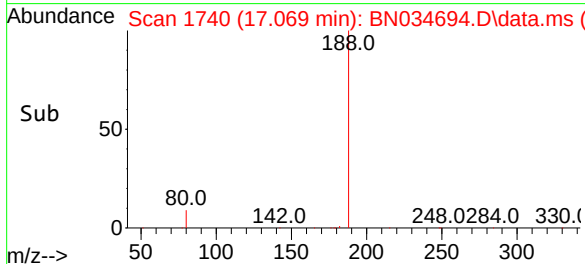
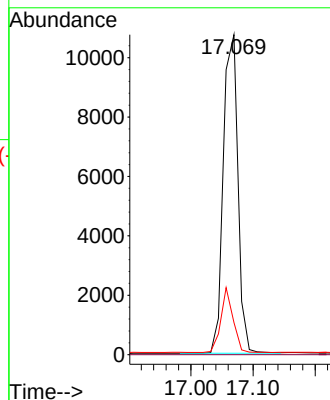
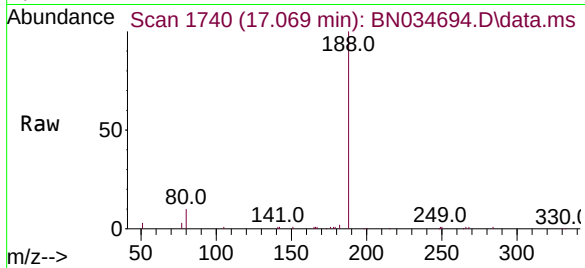




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

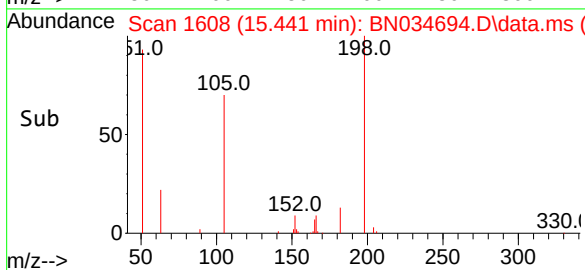
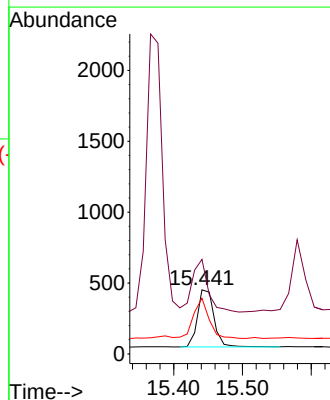
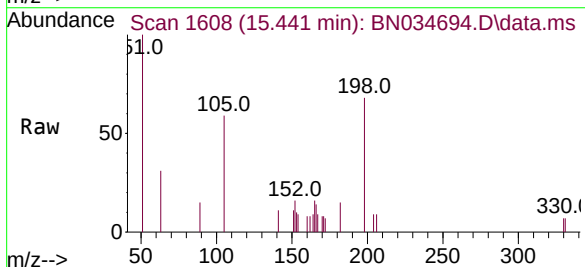
Instrument :
BNA_N
ClientSampleId :
PB164229BS

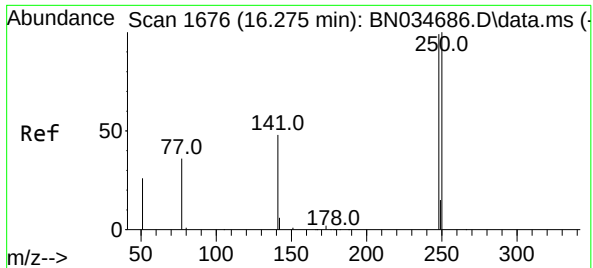
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	8.9	13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.290 ng
RT: 15.441 min Scan# 1608
Delta R.T. -0.011 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion	Ratio	Lower	Upper
198	100		
51	147.6	91.8	137.8#
105	86.9	44.3	66.5#

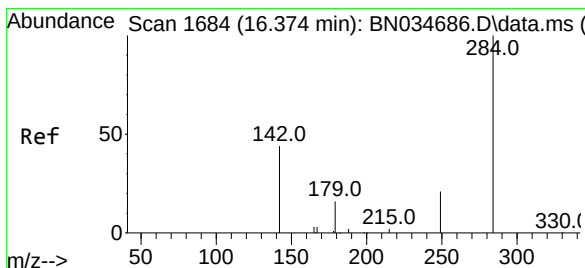
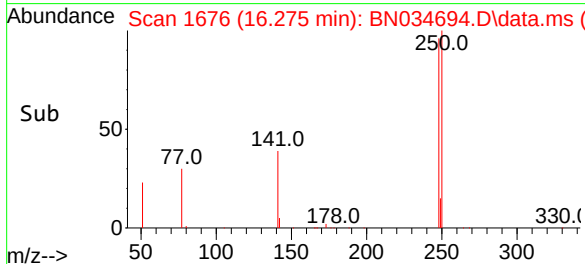
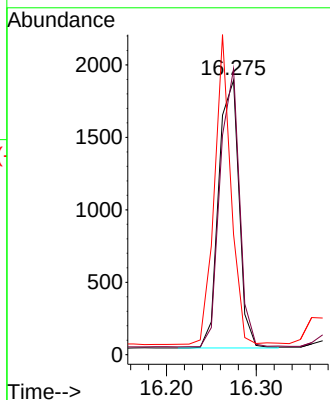
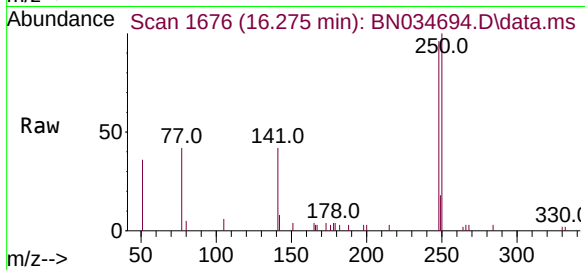




#21
4-Bromophenyl-phenylether
Concen: 0.311 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

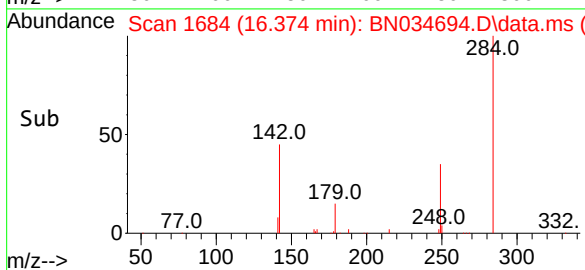
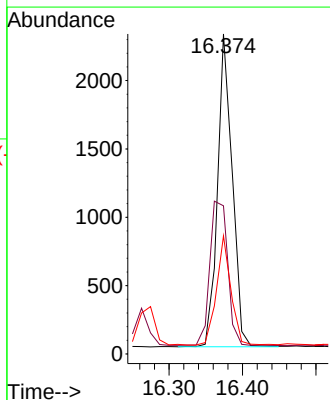
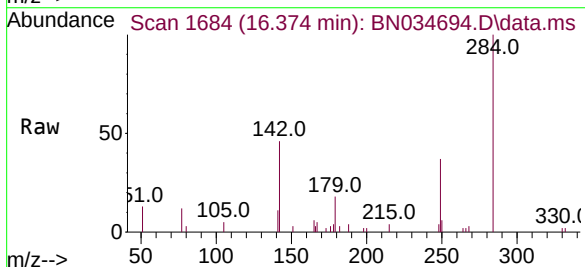
Instrument :
BNA_N
ClientSampleId :
PB164229BS

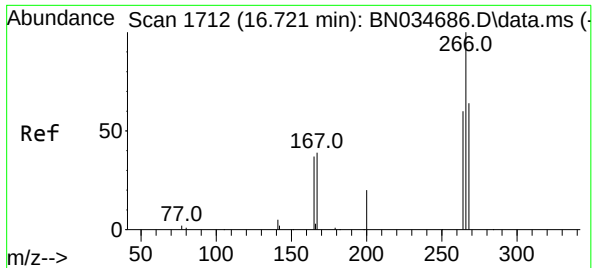
Tgt Ion:248 Resp: 2904
Ion Ratio Lower Upper
248 100
250 104.2 80.9 121.3
141 43.9 40.5 60.7



#22
Hexachlorobenzene
Concen: 0.314 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:284 Resp: 3171
Ion Ratio Lower Upper
284 100
142 56.6 43.6 65.4
249 34.1 26.6 40.0





#24

Pentachlorophenol

Concen: 0.574 ng

RT: 16.722 min Scan# 1712

Delta R.T. 0.001 min

Lab File: BN034694.D

Acq: 24 Oct 2024 16:05

Instrument :

BNA_N

ClientSampleId :

PB164229BS

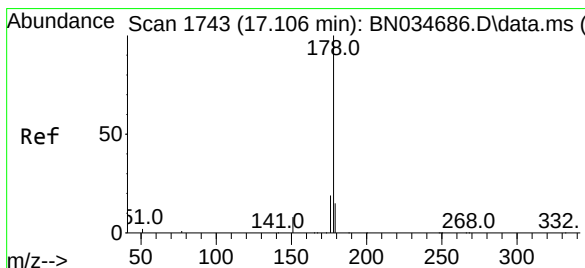
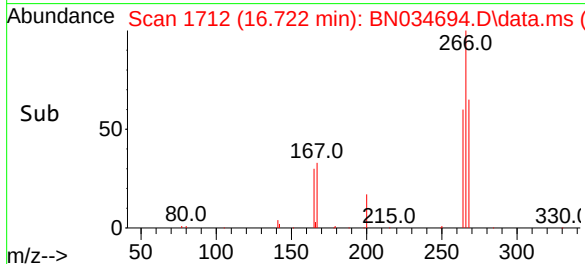
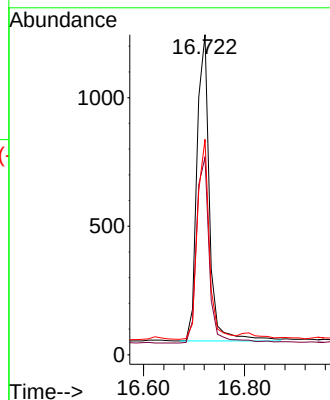
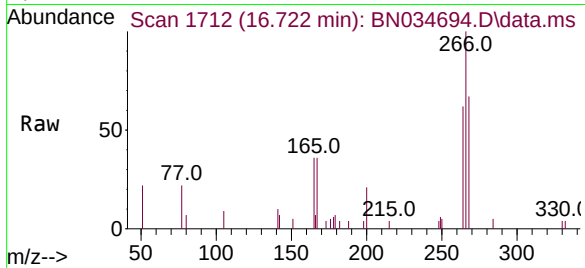
Tgt Ion:266 Resp: 2054

Ion Ratio Lower Upper

266 100

264 62.2 49.4 74.2

268 61.9 50.5 75.7



#25

Phenanthrene

Concen: 0.330 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034694.D

Acq: 24 Oct 2024 16:05

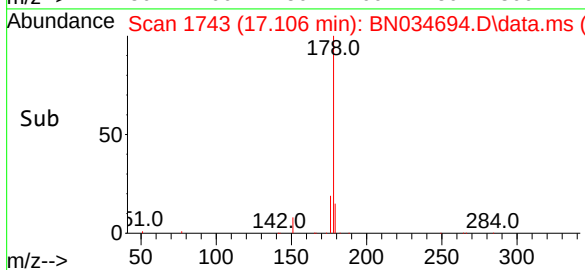
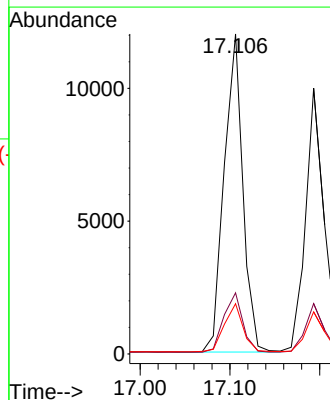
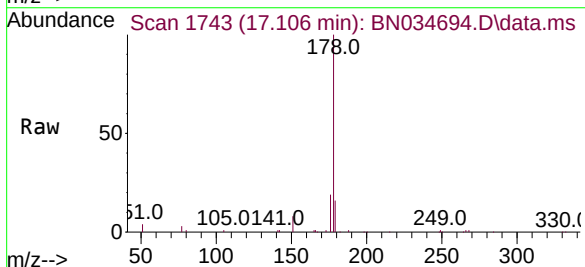
Tgt Ion:178 Resp: 17331

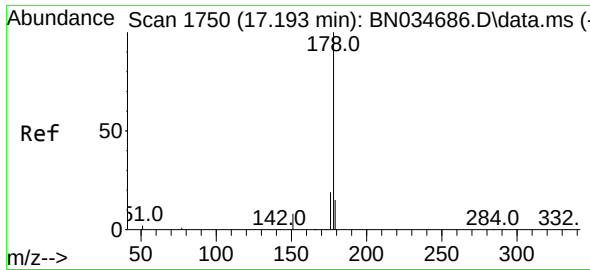
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.2 12.2 18.4

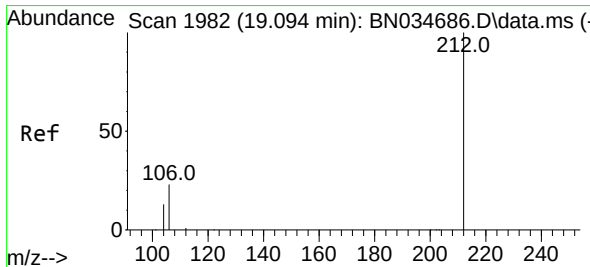
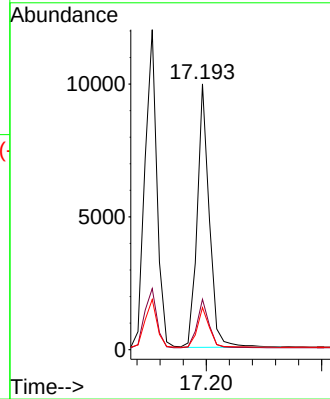
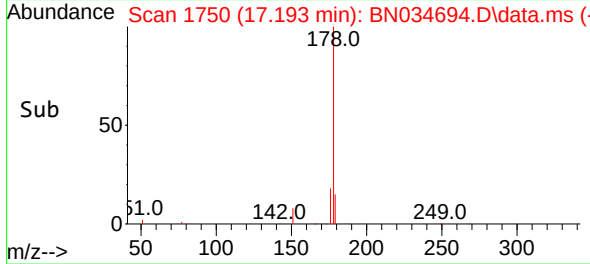
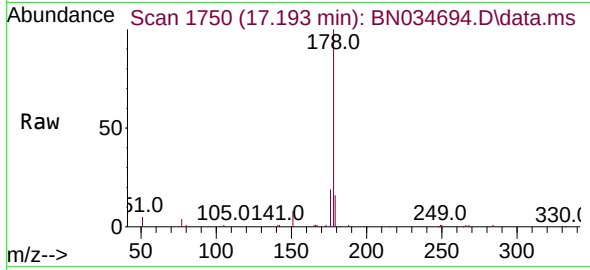




#26
Anthracene
Concen: 0.309 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

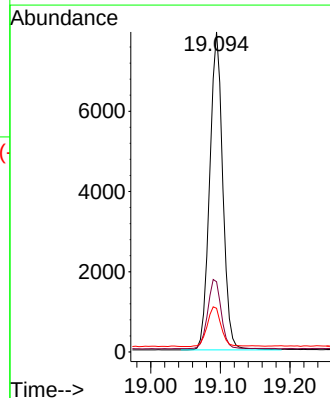
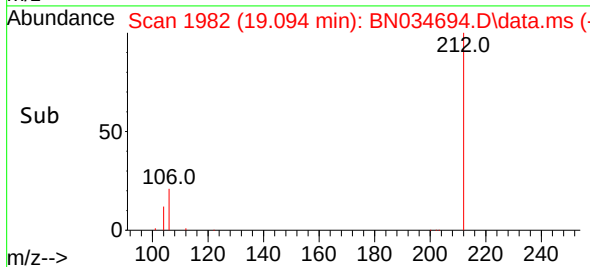
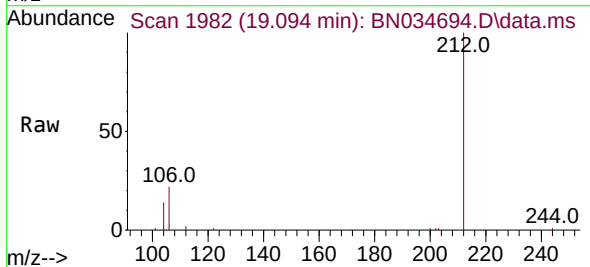
Instrument :
BNA_N
ClientSampleId :
PB164229BS

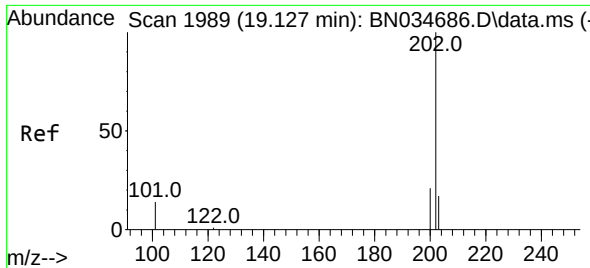
Tgt Ion:178 Resp: 14396
Ion Ratio Lower Upper
178 100
176 18.5 14.9 22.3
179 15.1 12.2 18.2



#27
Fluoranthene-d10
Concen: 0.262 ng
RT: 19.094 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:212 Resp: 10319
Ion Ratio Lower Upper
212 100
106 22.6 17.8 26.8
104 13.4 10.2 15.4

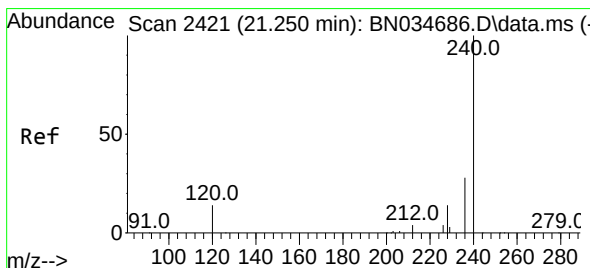
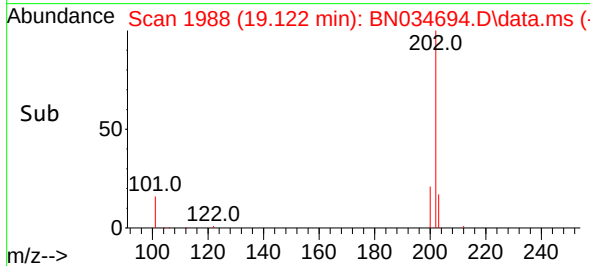
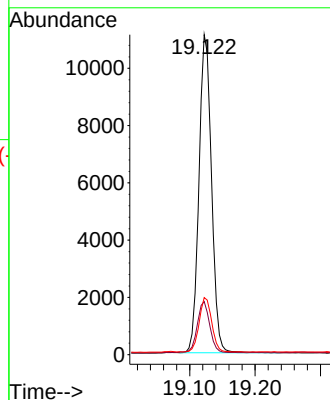
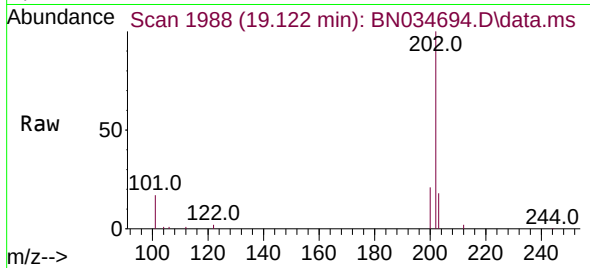




#28
Fluoranthene
Concen: 0.270 ng
RT: 19.122 min Scan# 1988
Delta R.T. -0.004 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

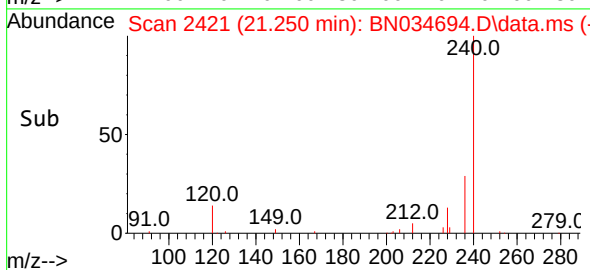
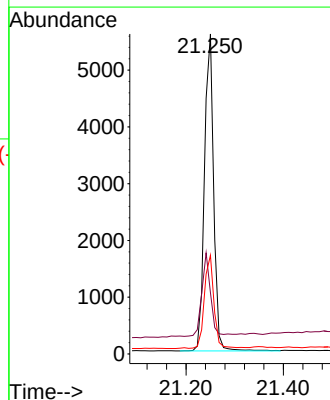
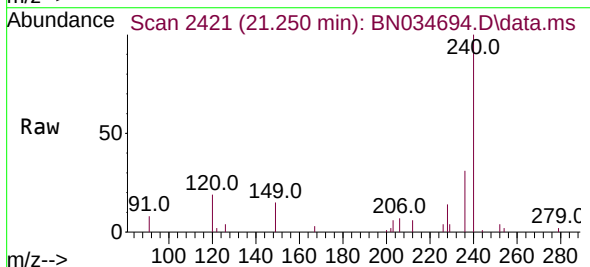
Instrument :
BNA_N
ClientSampleId :
PB164229BS

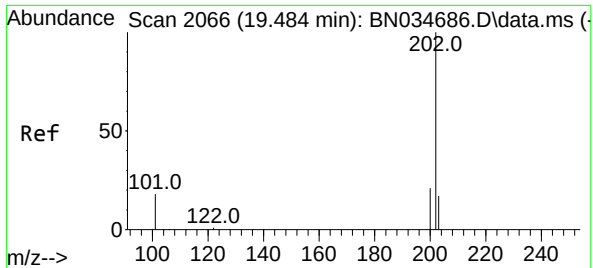
Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.4	12.8	19.2
203	17.0	13.5	20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.1	14.2	21.2
236	30.8	23.1	34.7

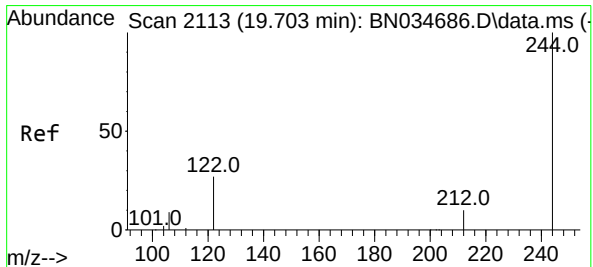
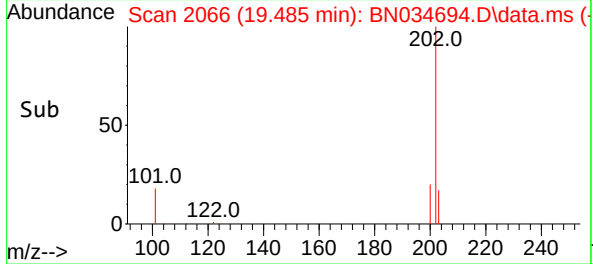
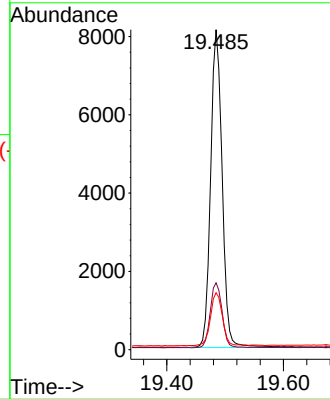
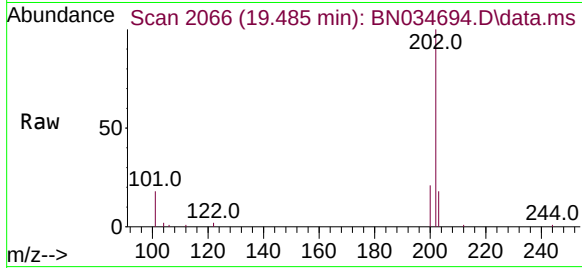




#30
Pyrene
Concen: 0.296 ng
RT: 19.485 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

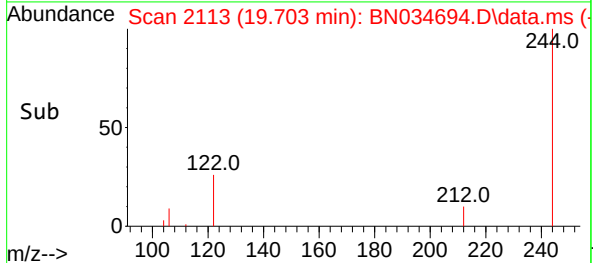
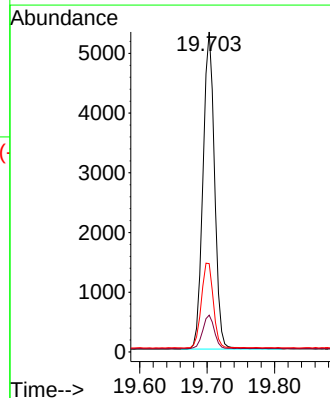
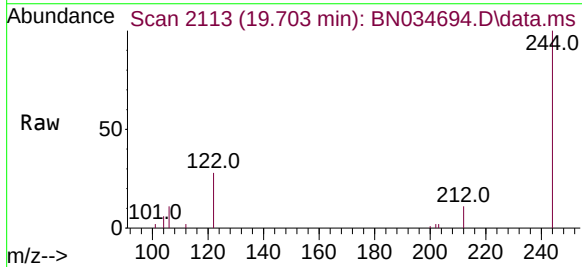
Instrument :
BNA_N
ClientSampleId :
PB164229BS

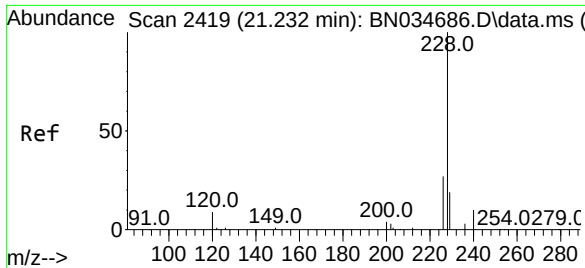
Tgt Ion:	202	Resp:	11159
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.6	14.2	21.4



#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:	244	Resp:	6327
Ion	Ratio	Lower	Upper
244	100		
212	11.5	8.6	13.0
122	27.6	22.3	33.5

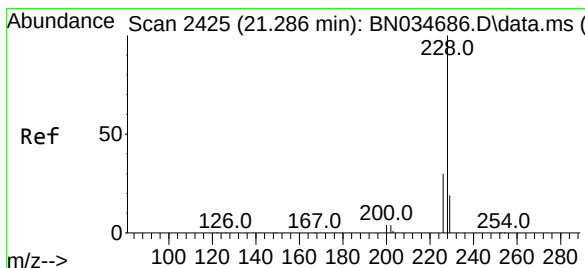
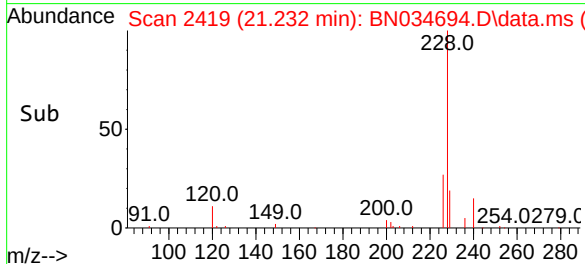
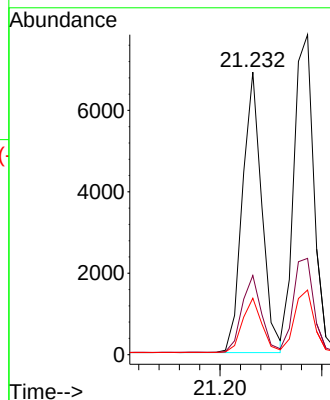
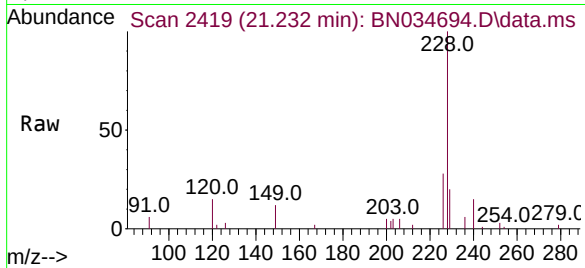




#32
Benzo(a)anthracene
Concen: 0.324 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

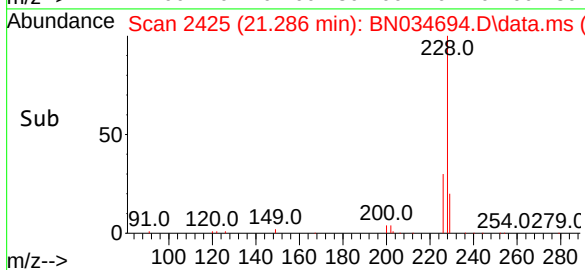
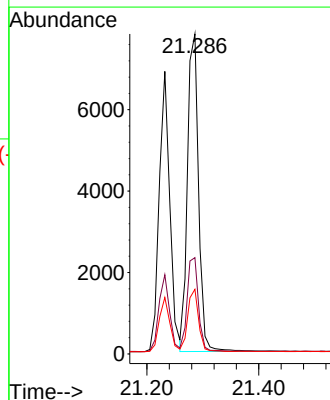
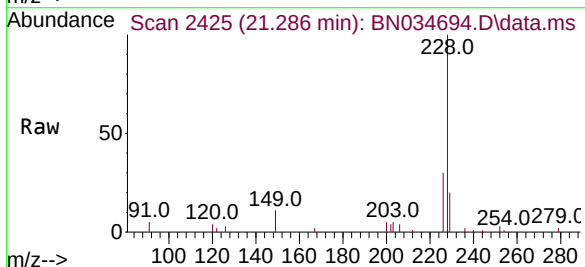
Instrument :
BNA_N
ClientSampleId :
PB164229BS

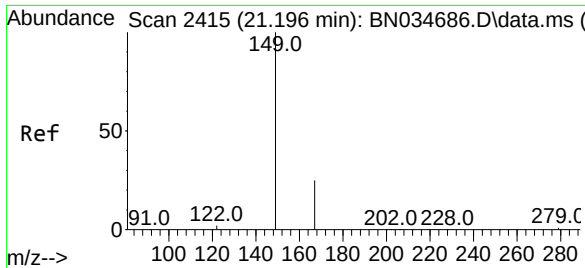
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.0	33.0
229	20.0	15.6	23.4



#33
Chrysene
Concen: 0.372 ng
RT: 21.286 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	20.2	15.8	23.8

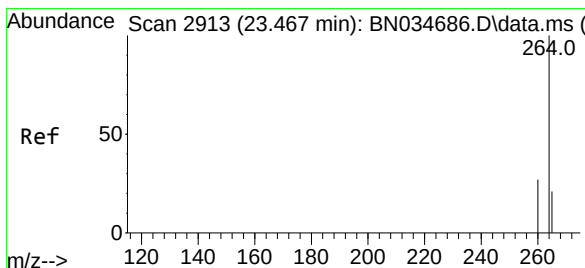
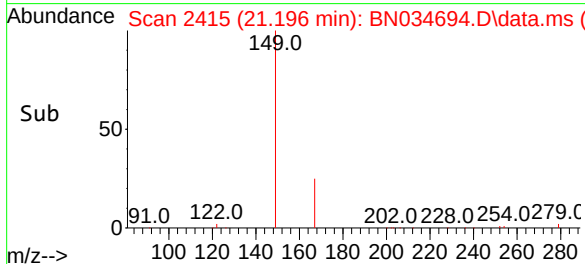
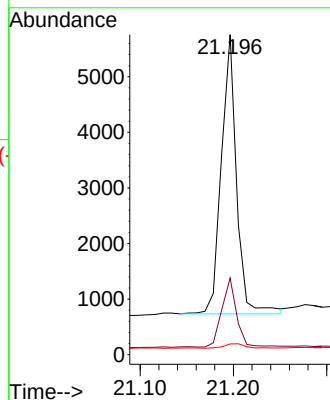
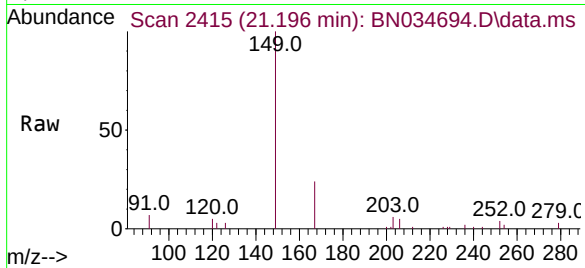




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.356 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

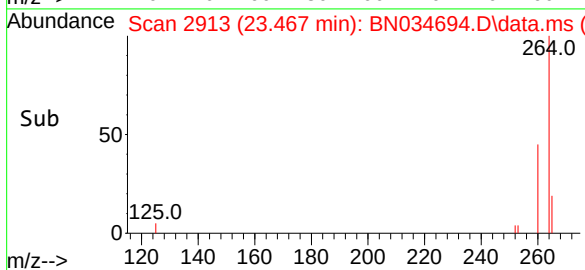
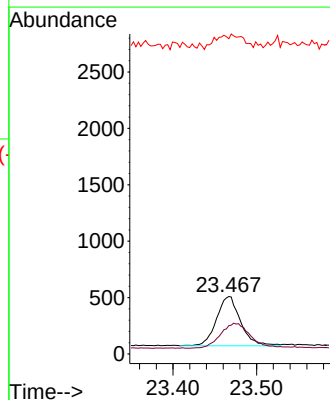
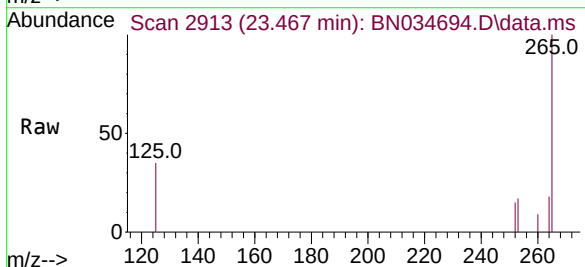
Instrument :
BNA_N
ClientSampleId :
PB164229BS

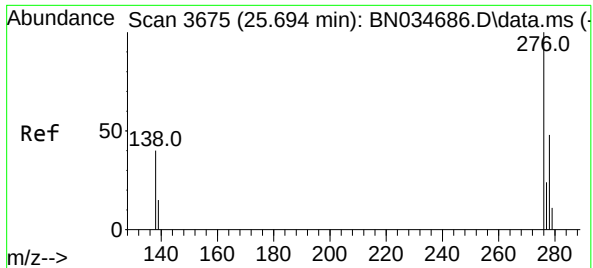
Tgt Ion:149 Resp: 5664
Ion Ratio Lower Upper
149 100
167 23.6 19.7 29.5
279 2.2 1.8 2.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.467 min Scan# 2913
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:264 Resp: 876
Ion Ratio Lower Upper
264 100
260 49.2 21.9 32.9#
265 548.0 60.6 91.0#

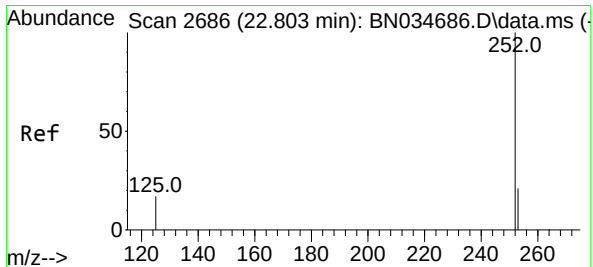
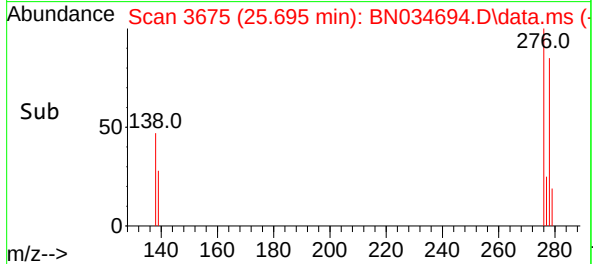
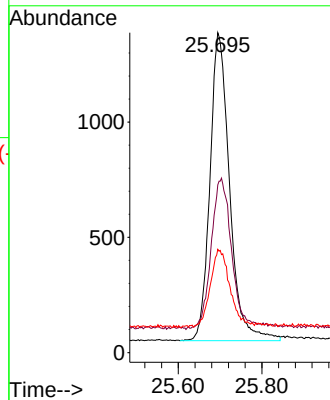
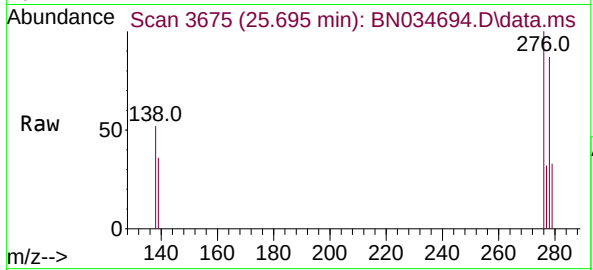




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.289 ng
RT: 25.695 min Scan# 3675
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

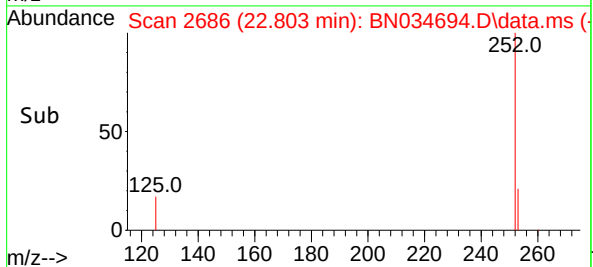
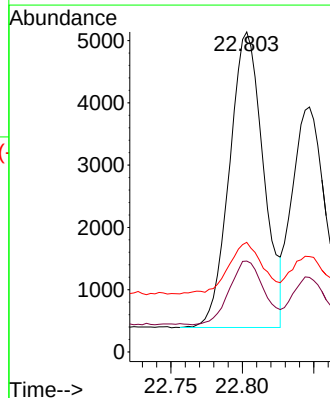
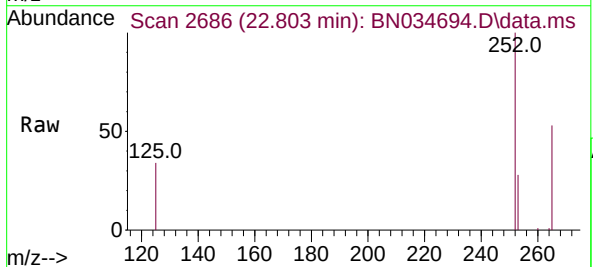
Instrument :
BNA_N
ClientSampleId :
PB164229BS

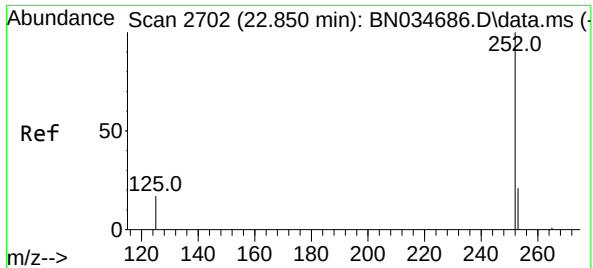
Tgt Ion:276 Resp: 4349
Ion Ratio Lower Upper
276 100
138 49.9 35.1 52.7
277 25.2 19.7 29.5



#37
Benzo(b)fluoranthene
Concen: 2.252 ng
RT: 22.803 min Scan# 2686
Delta R.T. 0.000 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:252 Resp: 7878
Ion Ratio Lower Upper
252 100
253 28.4 20.0 30.0
125 34.3 20.9 31.3#





#38

Benzo(k)fluoranthene

Concen: 1.670 ng

RT: 22.847 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN034694.D

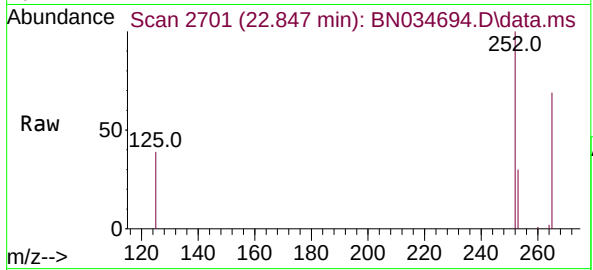
Acq: 24 Oct 2024 16:05

Instrument :

BNA_N

ClientSampleId :

PB164229BS



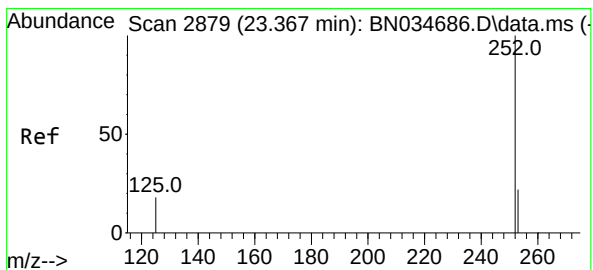
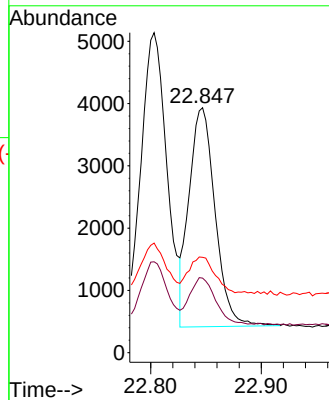
Tgt Ion:252 Resp: 5762

Ion Ratio Lower Upper

252 100

253 30.5 20.6 31.0

125 38.9 21.6 32.4#



#39

Benzo(a)pyrene

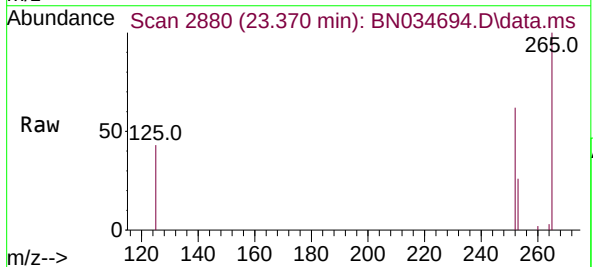
Concen: 0.942 ng

RT: 23.370 min Scan# 2880

Delta R.T. 0.003 min

Lab File: BN034694.D

Acq: 24 Oct 2024 16:05



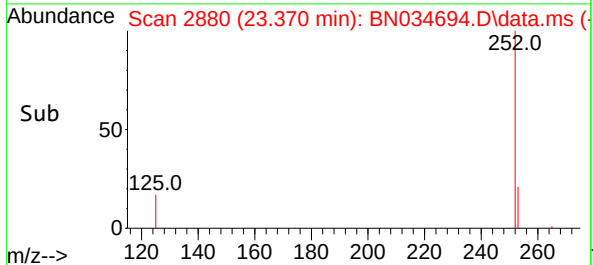
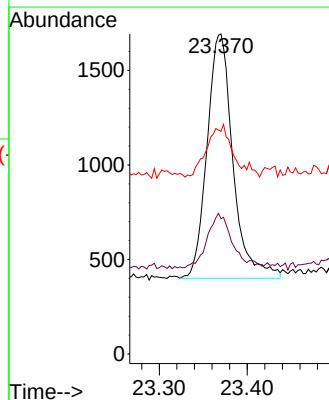
Tgt Ion:252 Resp: 2645

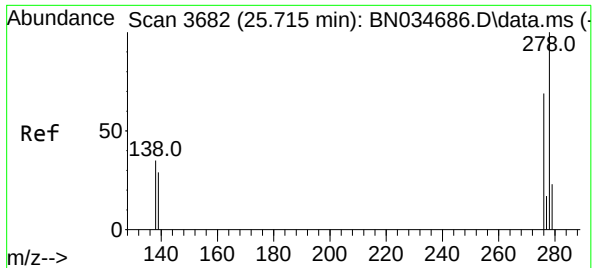
Ion Ratio Lower Upper

252 100

253 42.3 22.2 33.4#

125 69.6 26.0 39.0#

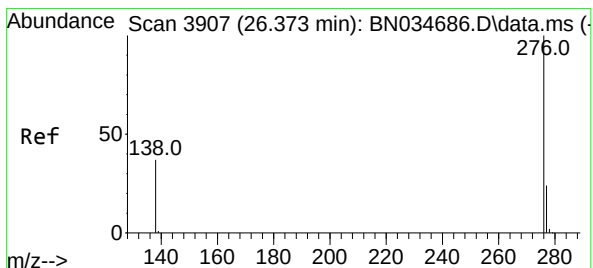
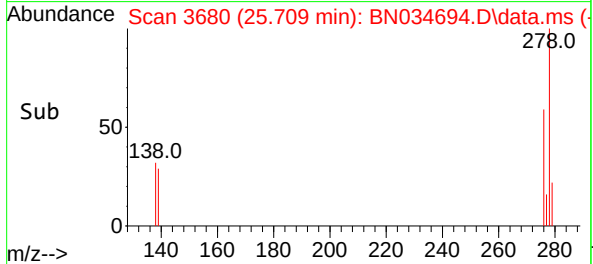
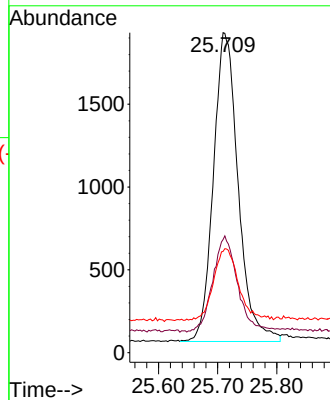
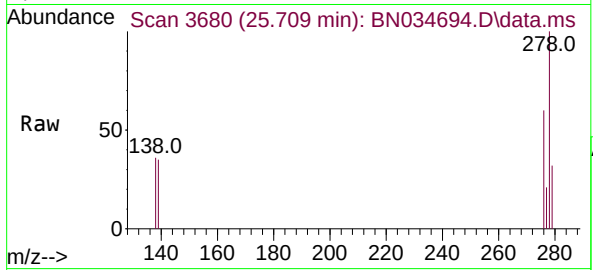




#40
Dibenzo(a,h)anthracene
Concen: 2.037 ng
RT: 25.709 min Scan# 30
Delta R.T. -0.006 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

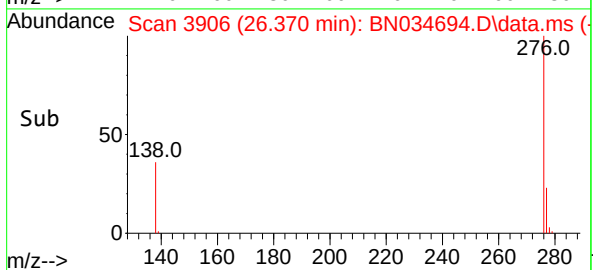
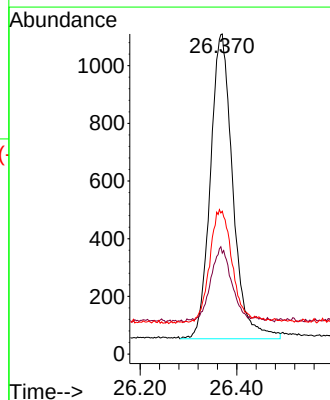
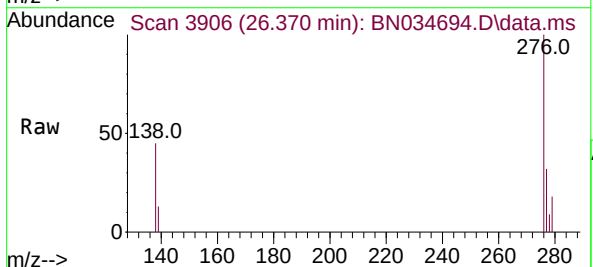
Instrument :
BNA_N
ClientSampleId :
PB164229BS

Tgt Ion:278 Resp: 5421
Ion Ratio Lower Upper
278 100
139 35.4 25.4 38.2
279 31.6 22.4 33.6



#41
Benzo(g,h,i)perylene
Concen: 1.162 ng
RT: 26.370 min Scan# 3906
Delta R.T. -0.003 min
Lab File: BN034694.D
Acq: 24 Oct 2024 16:05

Tgt Ion:276 Resp: 3408
Ion Ratio Lower Upper
276 100
277 31.5 21.3 31.9
138 44.6 31.9 47.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164229BSD	SDG No.:	P4428
Lab Sample ID:	PB164229BSD	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
BN034704.D	1	10/17/24 13:55	10/24/24 22:50	PB164229

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6490	7.712				
1146-65-2	Naphthalene-d8	18200	10.479				
15067-26-2	Acenaphthene-d10	7820	14.329				
1517-22-2	Phenanthrene-d10	14100	17.069				
1719-03-5	Chrysene-d12	7020	21.241				
1520-96-3	Perylene-d12	3140	23.458				

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\BN102424\
 Data File : BN034704.D
 Acq On : 24 Oct 2024 22:50
 Operator : RC/JU
 Sample : PB164229BSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164229BSD

Quant Time: Oct 25 02:08:18 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)

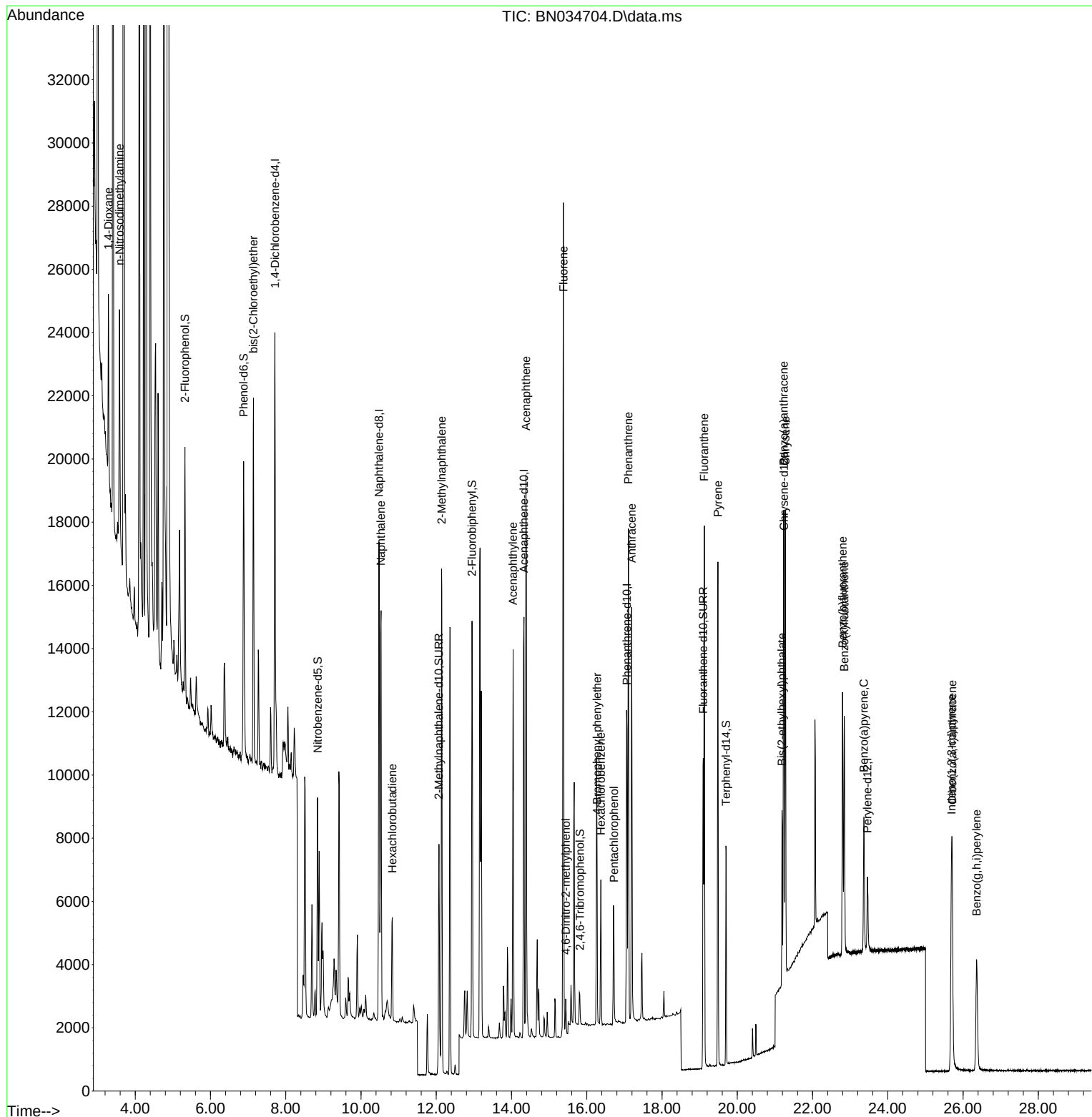
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6487	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18237	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	7824	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	14054	0.400	ng	0.00
29) Chrysene-d12	21.241	240	7021	0.400	ng	# 0.00
35) Perylene-d12	23.458	264	3135	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.322	112	5673	0.294	ng	0.00
5) Phenol-d6	6.882	99	7367	0.290	ng	0.00
8) Nitrobenzene-d5	8.845	82	4969	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	12.071	152	12285	0.490	ng	0.00
14) 2,4,6-Tribromophenol	15.815	330	544	0.225	ng	0.00
15) 2-Fluorobiphenyl	12.950	172	10998	0.354	ng	0.00
27) Fluoranthene-d10	19.094	212	10017	0.316	ng	0.00
31) Terphenyl-d14	19.703	244	5561	0.388	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.285	88	2567	0.297	ng	# 38
3) n-Nitrosodimethylamine	3.581	42	4768	0.379	ng	# 92
6) bis(2-Chloroethyl)ether	7.142	93	7506	0.363	ng	100
9) Naphthalene	10.532	128	17602	0.349	ng	100
10) Hexachlorobutadiene	10.831	225	2600	0.344	ng	# 99
12) 2-Methylnaphthalene	12.143	142	10570	0.338	ng	98
16) Acenaphthylene	14.040	152	12917	0.344	ng	100
17) Acenaphthene	14.382	154	9099	0.351	ng	100
18) Fluorene	15.377	166	11462	0.359	ng	93
20) 4,6-Dinitro-2-methylph...	15.441	198	601	0.307	ng	# 63
21) 4-Bromophenyl-phenylether	16.275	248	2637	0.352	ng	97
22) Hexachlorobenzene	16.374	284	2911	0.358	ng	97
24) Pentachlorophenol	16.721	266	1722	0.599	ng	98
25) Phenanthrene	17.106	178	15394	0.365	ng	100
26) Anthracene	17.193	178	13285	0.355	ng	99
28) Fluoranthene	19.122	202	14394	0.327	ng	100
30) Pyrene	19.484	202	13390	0.371	ng	99
32) Benzo(a)anthracene	21.232	228	10448	0.390	ng	99
33) Chrysene	21.277	228	11412	0.411	ng	99
34) Bis(2-ethylhexyl)phtha...	21.187	149	5728	0.376	ng	98
36) Indeno(1,2,3-cd)pyrene	25.691	276	8126	0.673	ng	95
37) Benzo(b)fluoranthene	22.797	252	9699	0.775	ng	93
38) Benzo(k)fluoranthene	22.841	252	8745	0.708	ng	94
39) Benzo(a)pyrene	23.364	252	5960	0.593	ng	# 85
40) Dibenzo(a,h)anthracene	25.709	278	7257	0.762	ng	96
41) Benzo(g,h,i)perylene	26.358	276	6650	0.633	ng	96

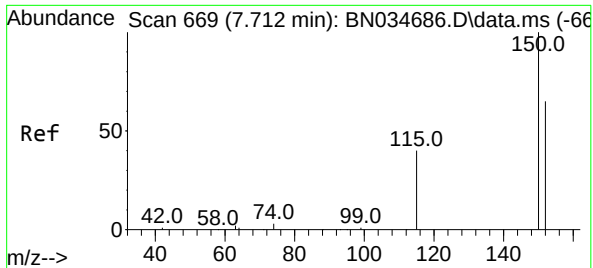
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102424\
Data File : BN034704.D
Acq On : 24 Oct 2024 22:50
Operator : RC/JU
Sample : PB164229BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164229BSD

Quant Time: Oct 25 02:08:18 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

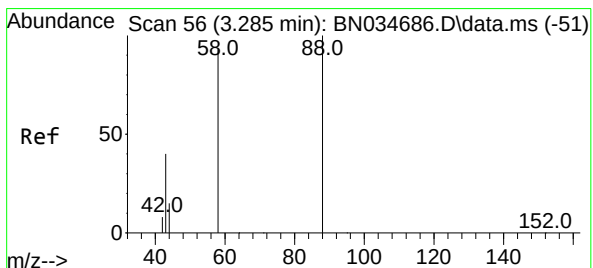
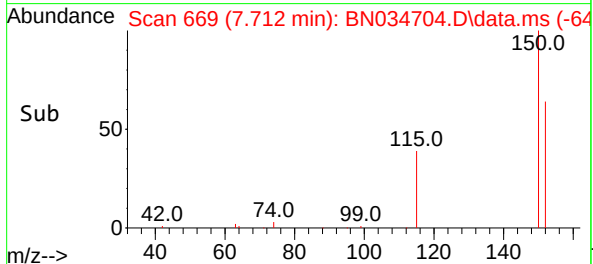
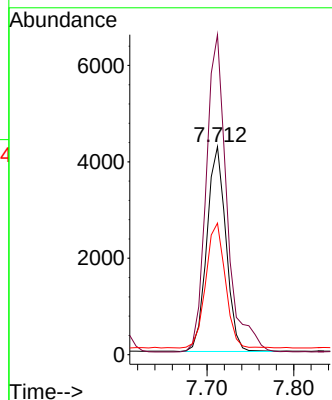
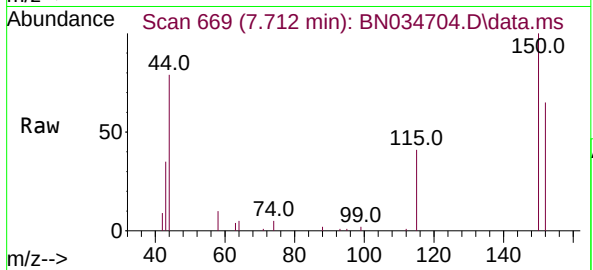




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

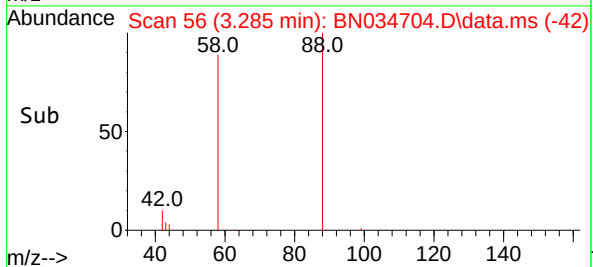
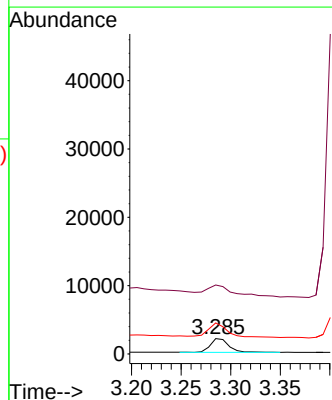
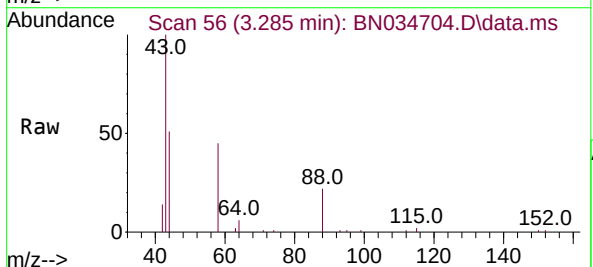
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

Tgt Ion:152 Resp: 6487
Ion Ratio Lower Upper
152 100
150 153.8 122.7 184.1
115 63.3 51.0 76.6

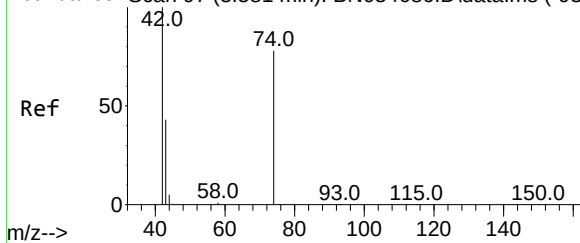


#2
1,4-Dioxane
Concen: 0.297 ng
RT: 3.285 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

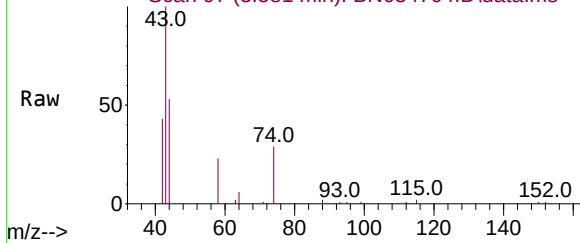
Tgt Ion: 88 Resp: 2567
Ion Ratio Lower Upper
88 100
43 131.9 32.1 48.1#
58 115.3 73.7 110.5#



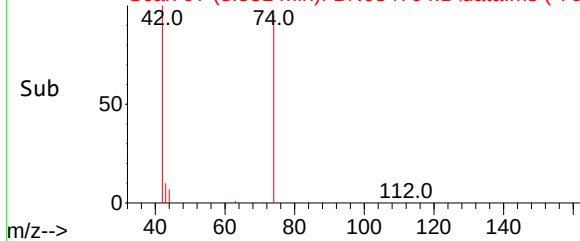
Abundance Scan 97 (3.581 min): BN034686.D\data.ms (-93)



Abundance Scan 97 (3.581 min): BN034704.D\data.ms



Abundance Scan 97 (3.581 min): BN034704.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.379 ng

RT: 3.581 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034704.D

Acq: 24 Oct 2024 22:50

Instrument :

BNA_N

ClientSampleId :

PB164229BSD

Tgt Ion: 42 Resp: 4768

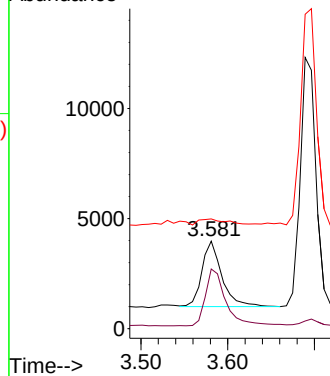
Ion Ratio Lower Upper

42 100

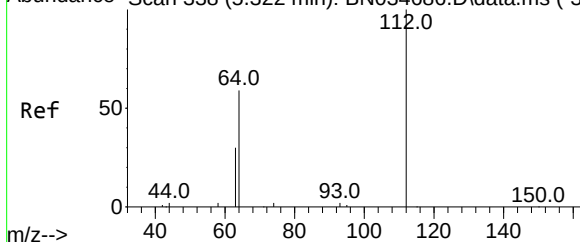
74 88.4 77.2 115.8

44 13.4 13.4 20.2#

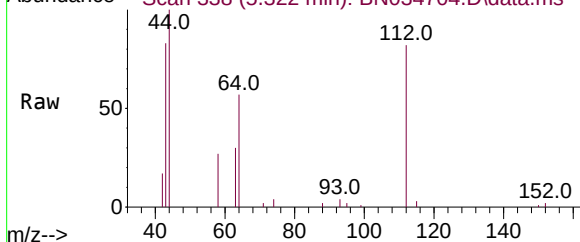
Abundance



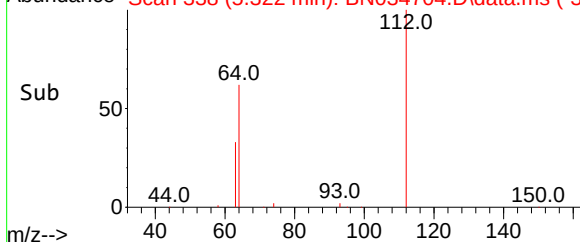
Abundance Scan 338 (5.322 min): BN034686.D\data.ms (-33)



Abundance Scan 338 (5.322 min): BN034704.D\data.ms



Abundance Scan 338 (5.322 min): BN034704.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.294 ng

RT: 5.322 min Scan# 338

Delta R.T. 0.000 min

Lab File: BN034704.D

Acq: 24 Oct 2024 22:50

Tgt Ion: 112 Resp: 5673

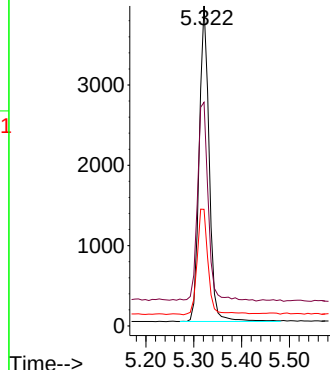
Ion Ratio Lower Upper

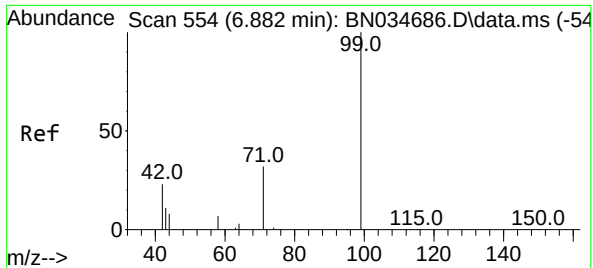
112 100

64 68.6 53.0 79.6

63 36.8 27.6 41.4

Abundance

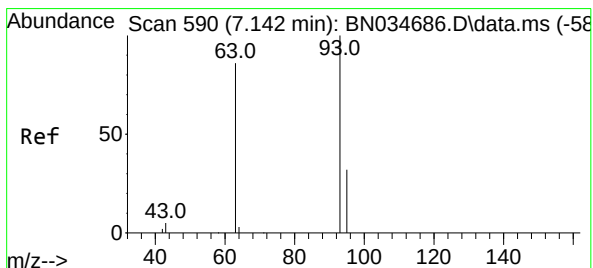
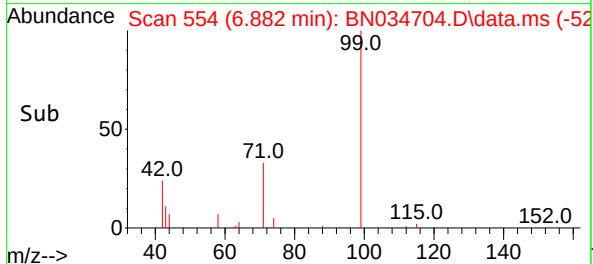
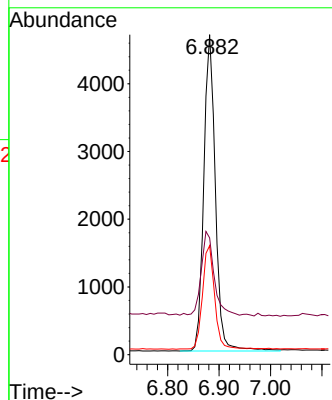
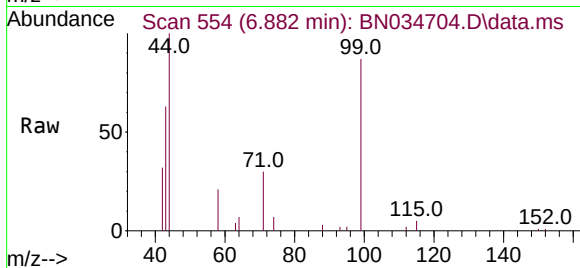




#5
Phenol-d6
Concen: 0.290 ng
RT: 6.882 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

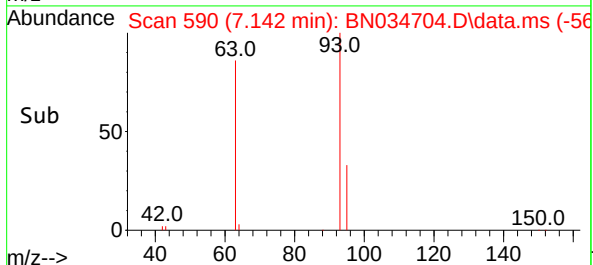
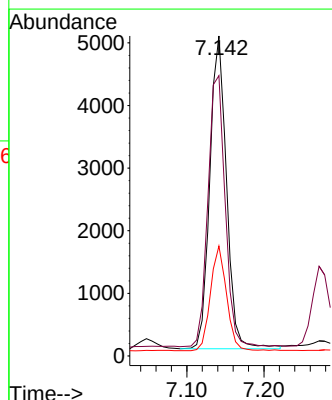
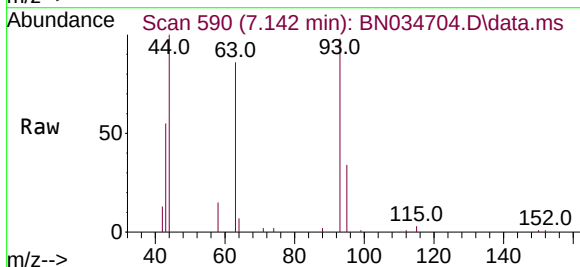
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

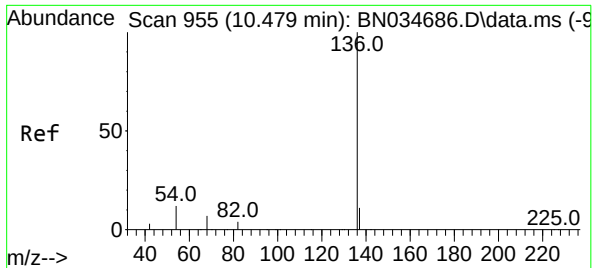
Tgt Ion: 99 Resp: 7367
Ion Ratio Lower Upper
99 100
42 28.9 21.8 32.8
71 34.2 26.6 40.0



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.142 min Scan# 590
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion: 93 Resp: 7506
Ion Ratio Lower Upper
93 100
63 88.9 71.5 107.3
95 32.0 25.8 38.6

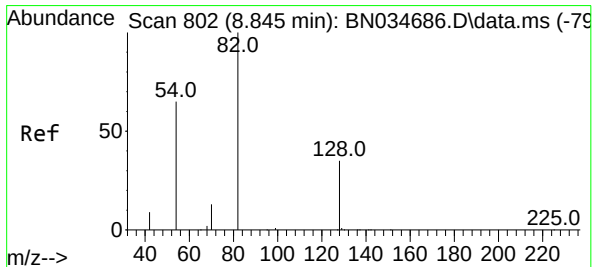
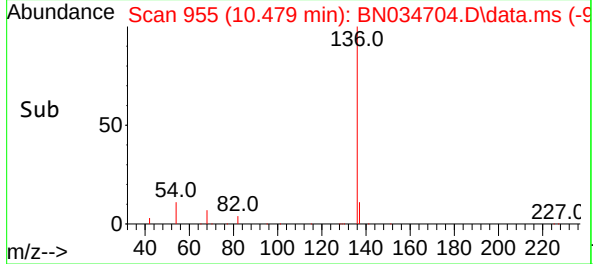
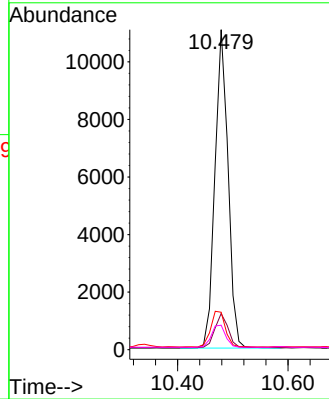
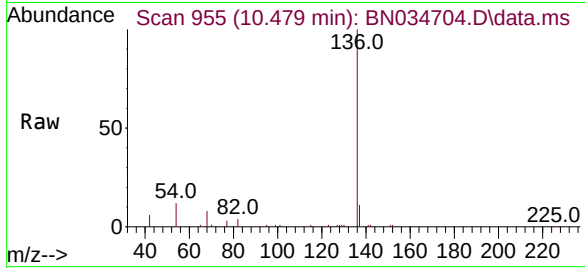




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

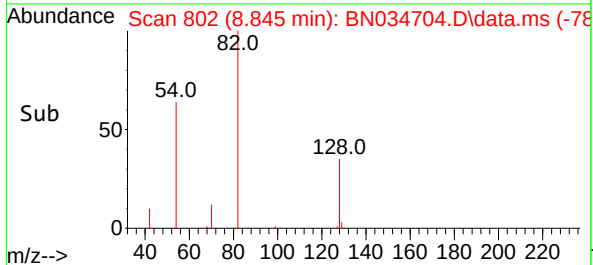
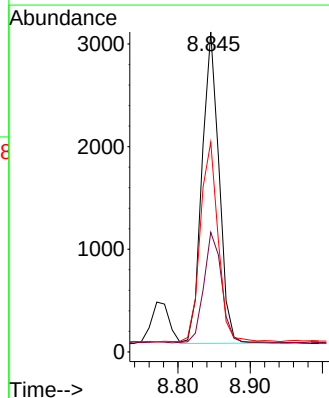
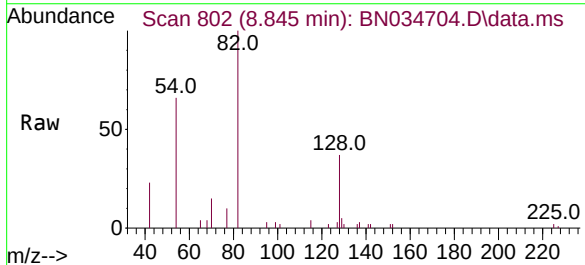
Instrument :
BNA_N
ClientSampleId :
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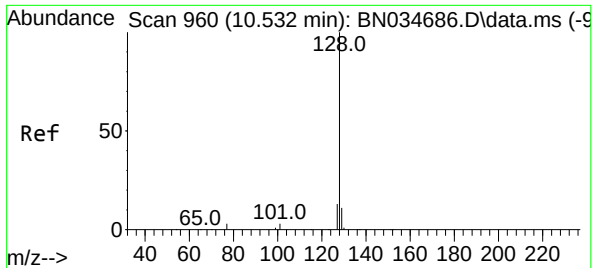
Tgt Ion:	136	Resp:	18237
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	11.7	9.8	14.8
68	7.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:	82	Resp:	4969
Ion	Ratio	Lower	Upper
82	100		
128	37.4	29.7	44.5
54	65.6	53.0	79.6

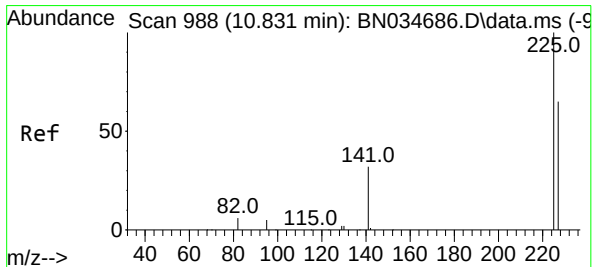
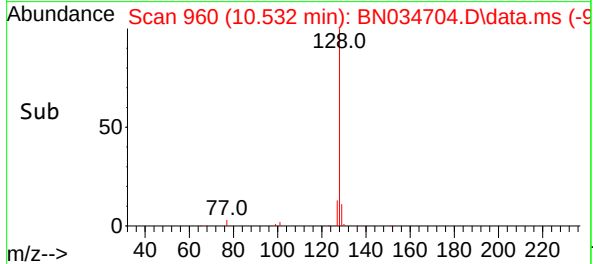
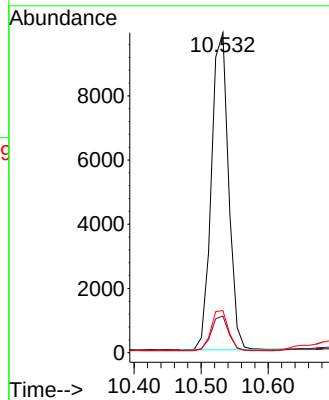
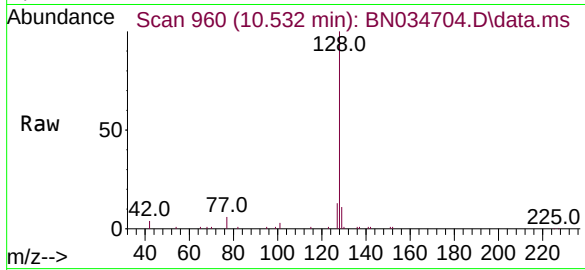




#9
Naphthalene
Concen: 0.349 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

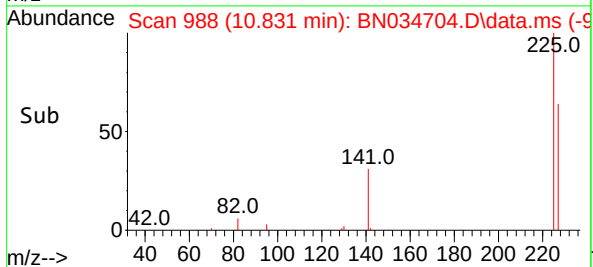
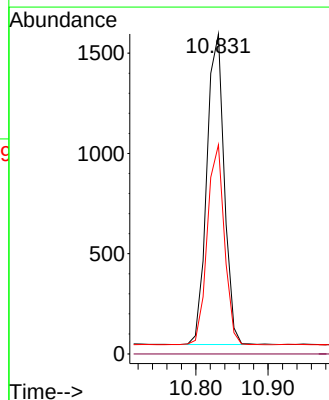
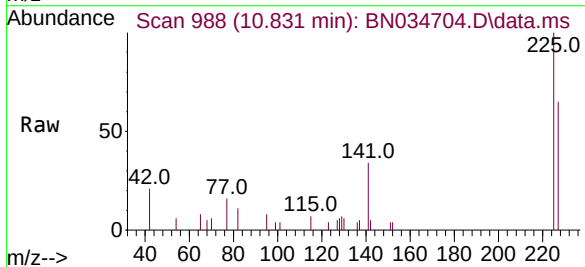
Instrument :
BNA_N
ClientSampleId :
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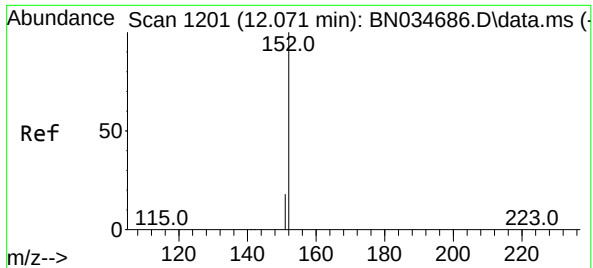
Tgt Ion	128	129	127
Resp:	17602		
Ion Ratio	100	11.4	13.1
Lower		9.0	10.5
Upper		13.6	15.7



#10
Hexachlorobutadiene
Concen: 0.344 ng
RT: 10.831 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	225	223	227
Resp:	2600		
Ion Ratio	100	0.0	63.2
Lower		0.0	51.4
Upper		0.0	77.0

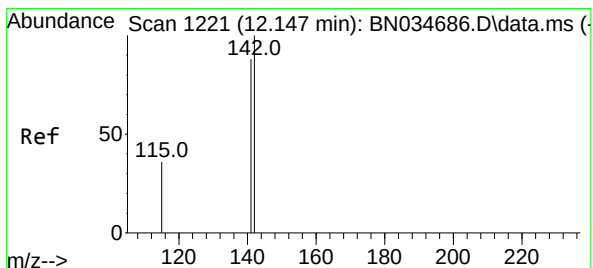
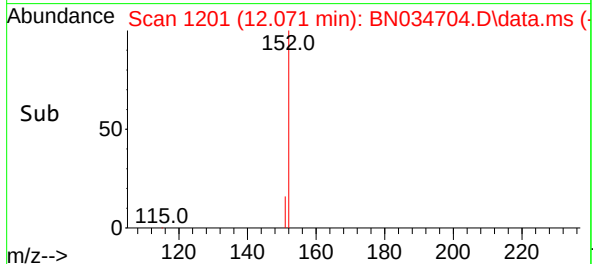
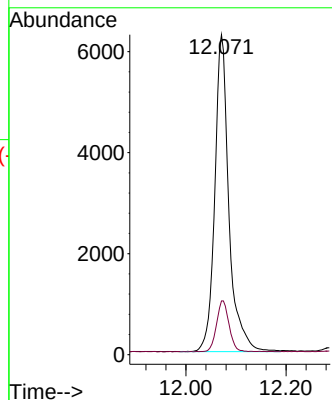
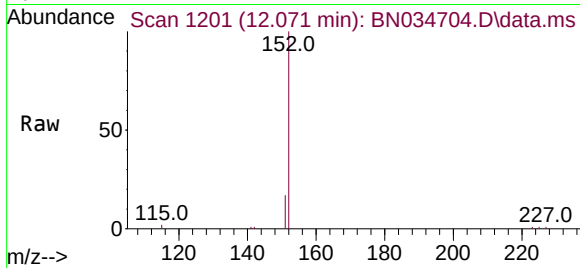




#11
2-Methylnaphthalene-d10
Concen: 0.490 ng
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

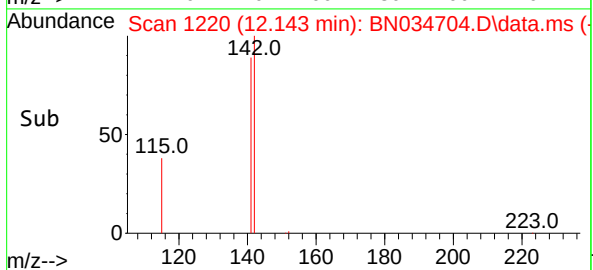
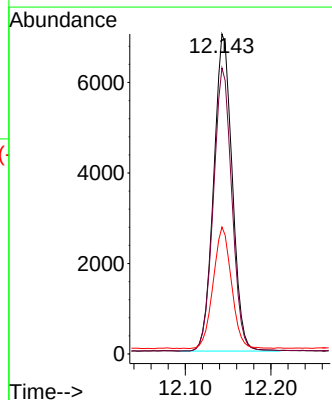
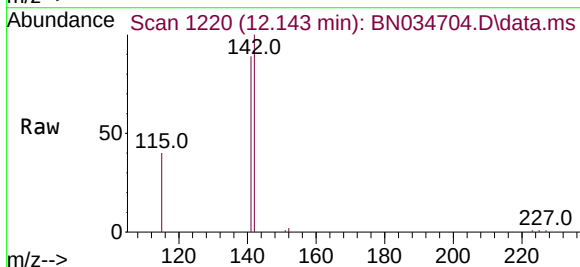
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

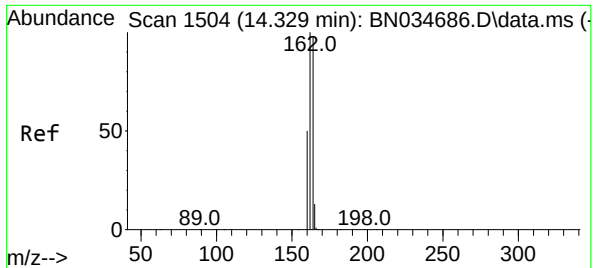
Tgt Ion:152 Resp: 12285
Ion Ratio Lower Upper
152 100
151 14.1 16.7 25.1#



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 12.143 min Scan# 1220
Delta R.T. -0.004 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:142 Resp: 10570
Ion Ratio Lower Upper
142 100
141 89.4 70.4 105.6
115 39.6 29.8 44.6

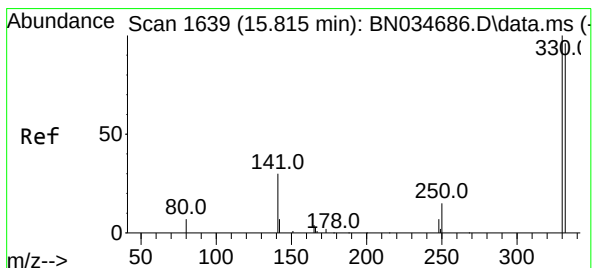
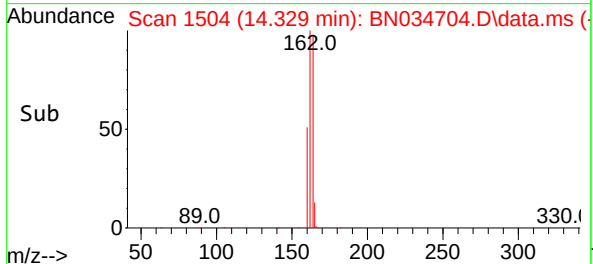
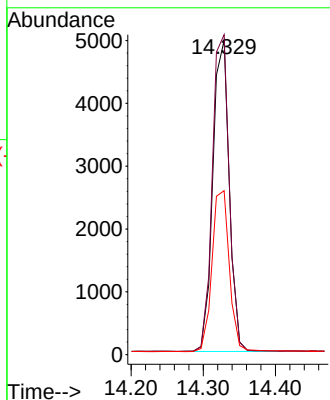
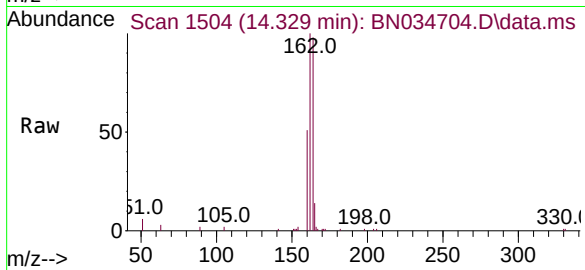




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.329 min Scan# 1504
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

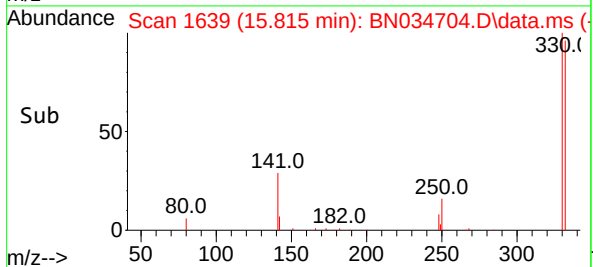
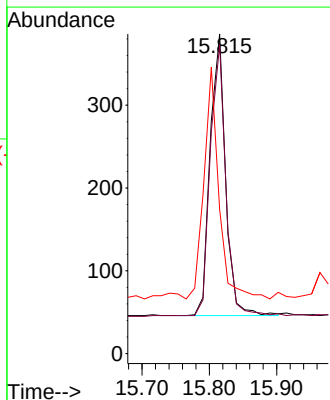
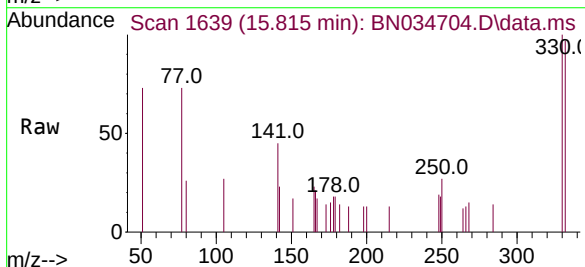
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

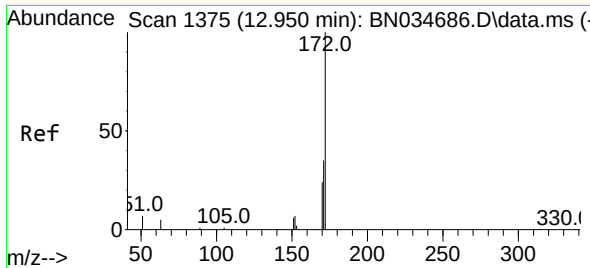
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.4	122.0
160	52.2	40.6	61.0



#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.815 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	79.0	54.6	81.8

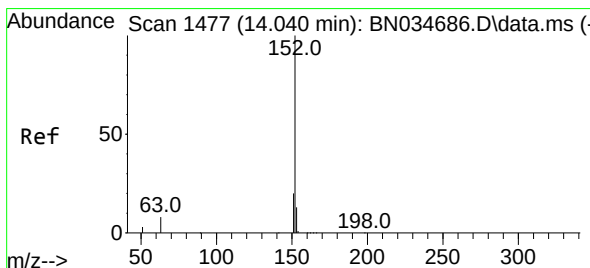
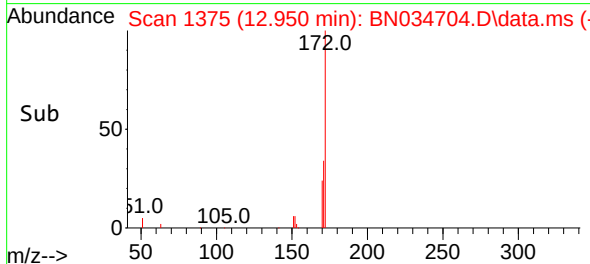
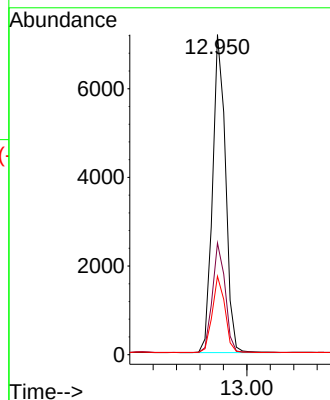
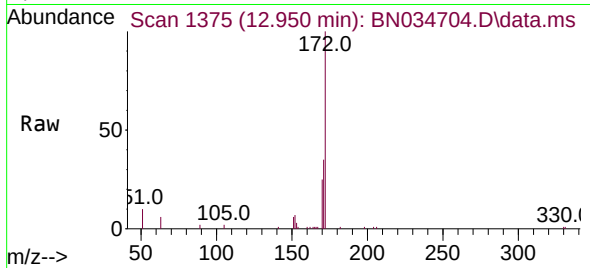




#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.950 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

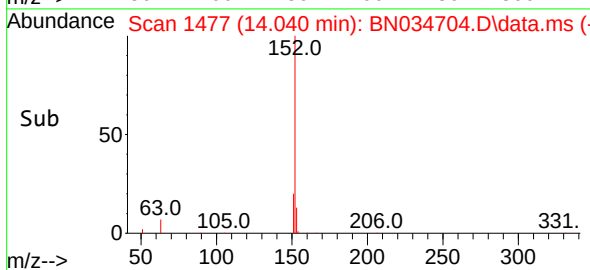
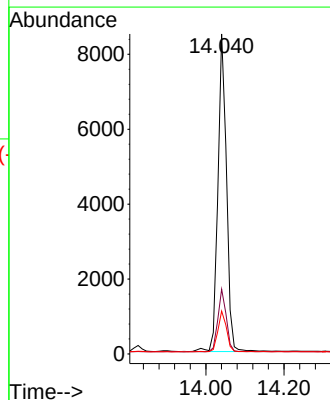
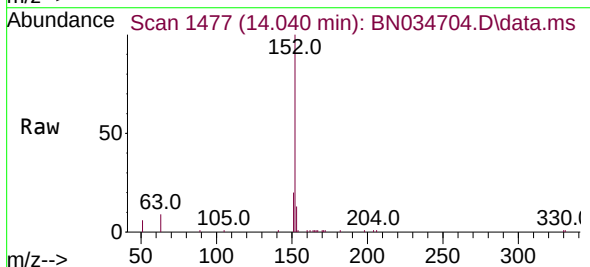
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

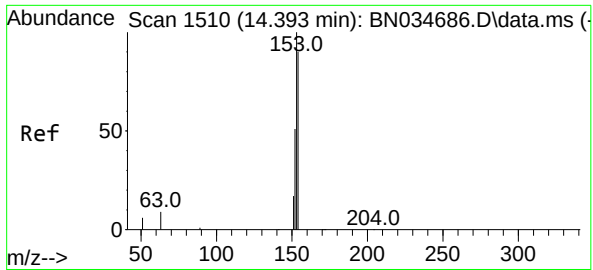
Tgt Ion:	172	Resp:	10998
Ion Ratio	Lower	Upper	
172	100		
171	34.9	28.3	42.5
170	24.5	19.8	29.6



#16
Acenaphthylene
Concen: 0.344 ng
RT: 14.040 min Scan# 1477
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:	152	Resp:	12917
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.6	23.4
153	13.0	10.6	15.8

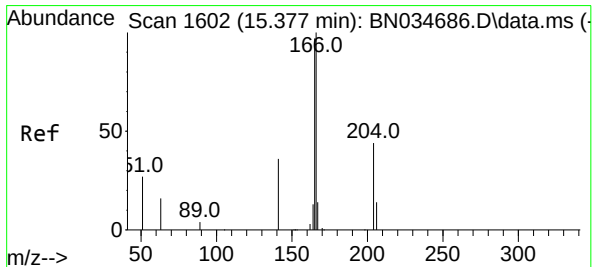
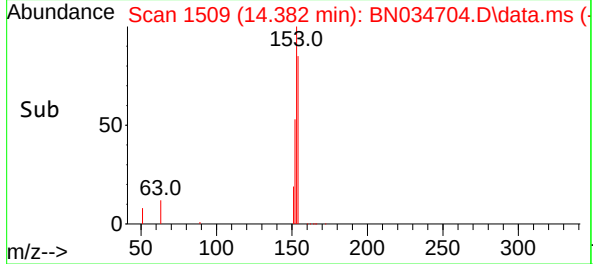
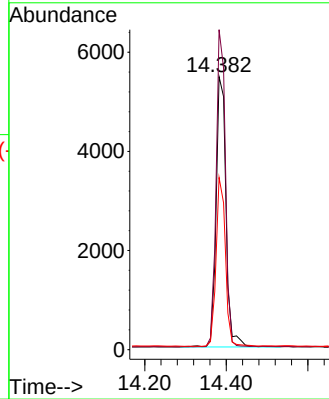
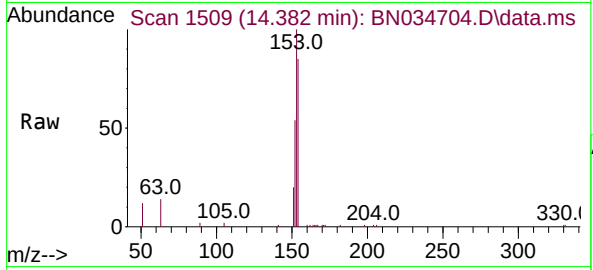




#17
Acenaphthene
Concen: 0.351 ng
RT: 14.382 min Scan# 1510
Delta R.T. -0.011 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

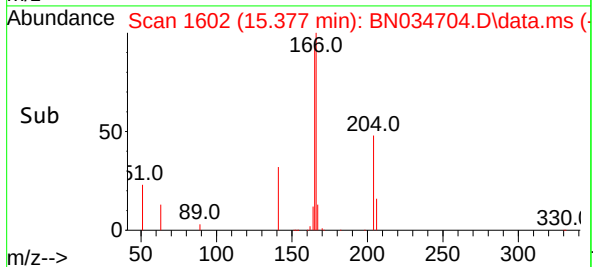
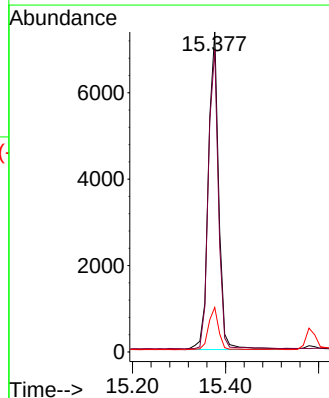
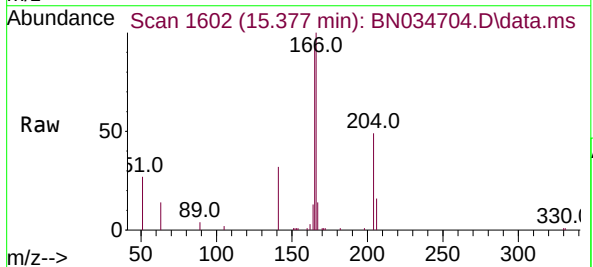
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

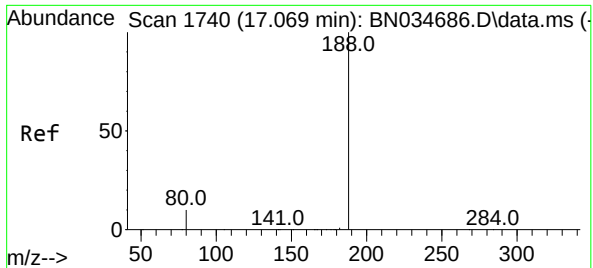
Tgt Ion:154 Resp: 9099
Ion Ratio Lower Upper
154 100
153 110.1 88.2 132.2
152 59.2 46.9 70.3



#18
Fluorene
Concen: 0.359 ng
RT: 15.377 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:166 Resp: 11462
Ion Ratio Lower Upper
166 100
165 90.5 78.8 118.2
167 13.0 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: BN034704.D

Acq: 24 Oct 2024 22:50

Instrument :

BNA_N

ClientSampleId :

PB164229BSD

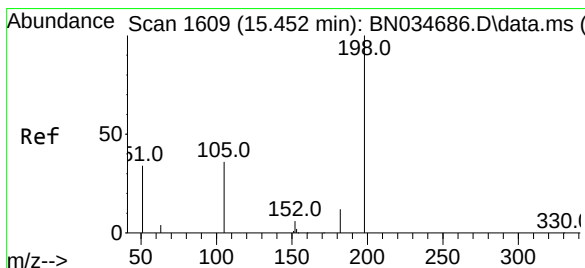
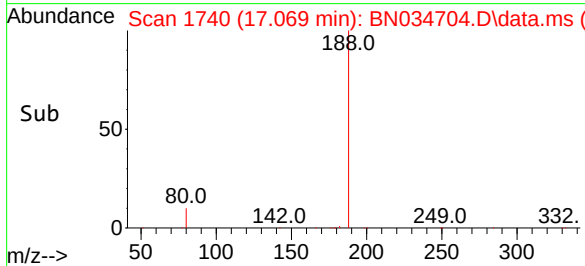
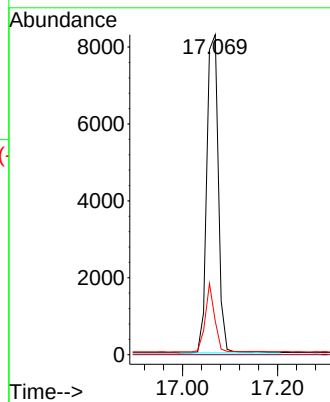
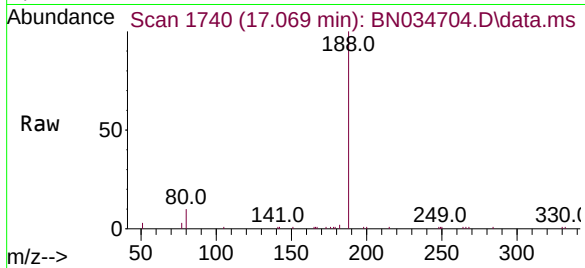
Tgt Ion:188 Resp: 14054

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: 0.307 ng

RT: 15.441 min Scan# 1608

Delta R.T. -0.011 min

Lab File: BN034704.D

Acq: 24 Oct 2024 22:50

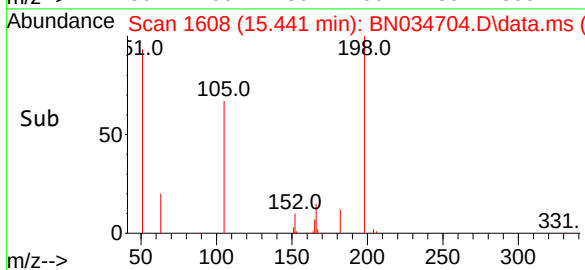
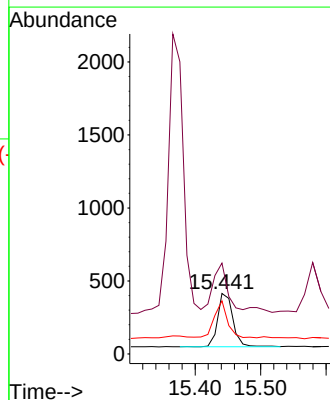
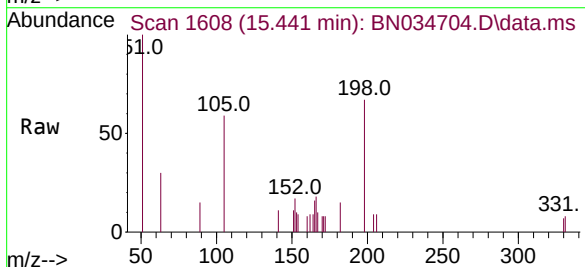
Tgt Ion:198 Resp: 601

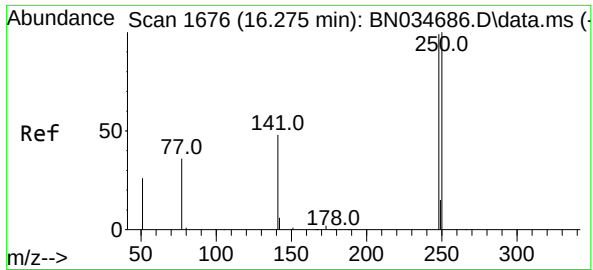
Ion Ratio Lower Upper

198 100

51 150.2 91.8 137.8#

105 87.9 44.3 66.5#

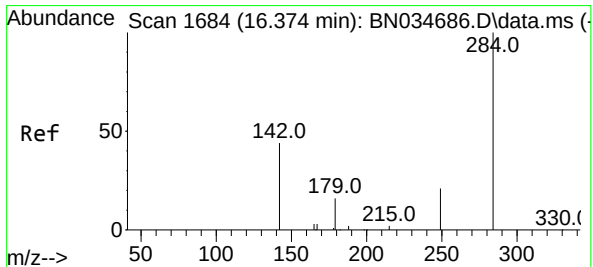
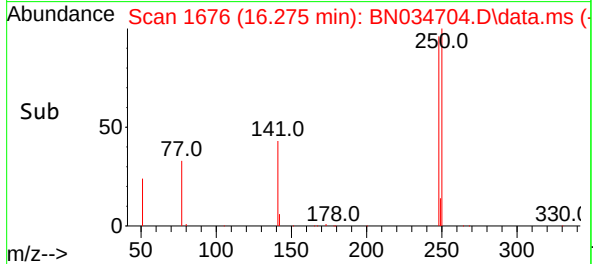
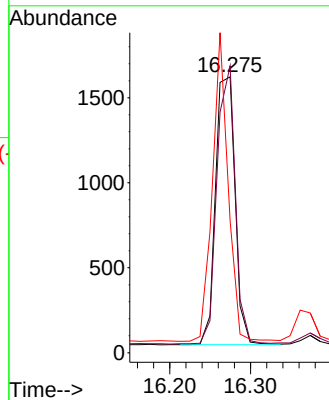
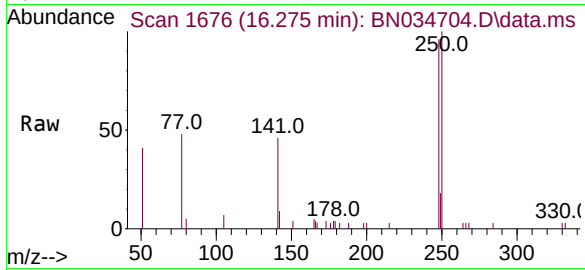




#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

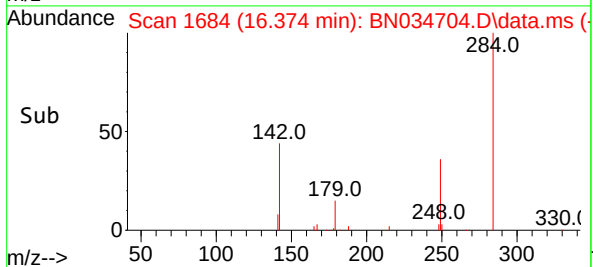
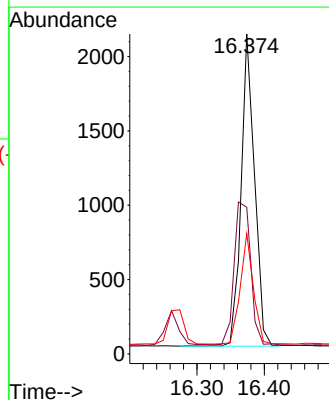
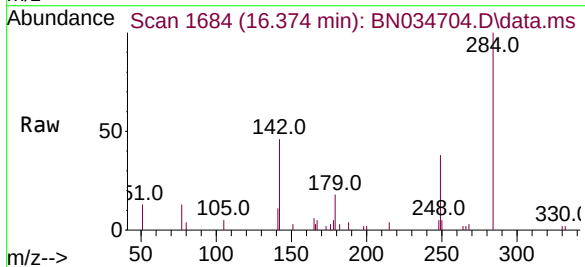
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

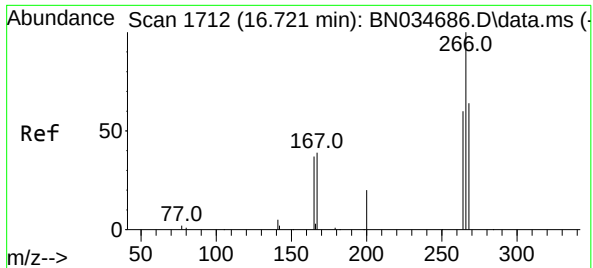
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.0	80.9	121.3
141	47.8	40.5	60.7



#22
Hexachlorobenzene
Concen: 0.358 ng
RT: 16.374 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	57.2	43.6	65.4
249	34.7	26.6	40.0

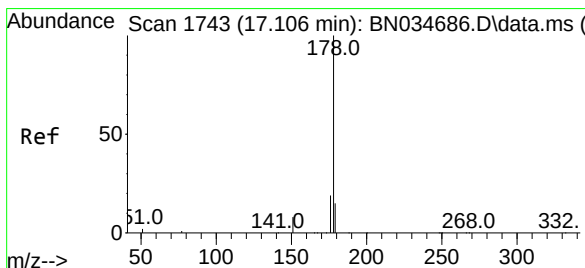
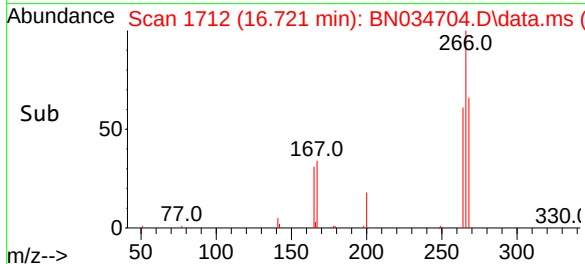
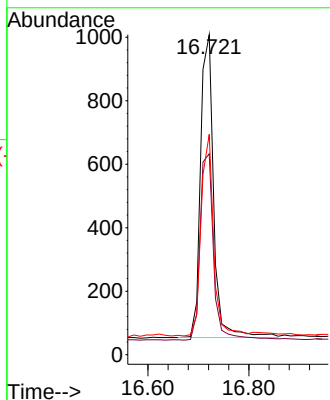
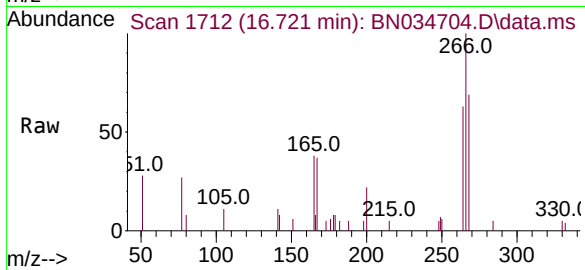




#24
Pentachlorophenol
Concen: 0.599 ng
RT: 16.721 min Scan# 1712
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

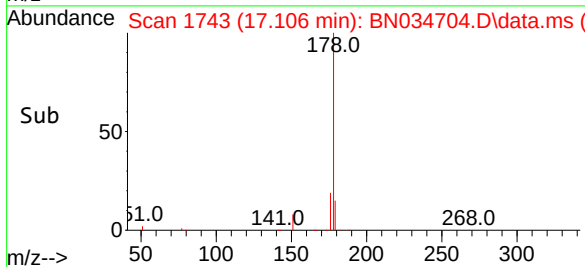
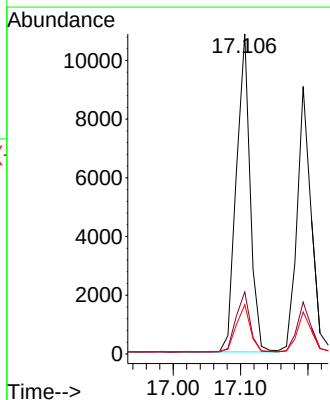
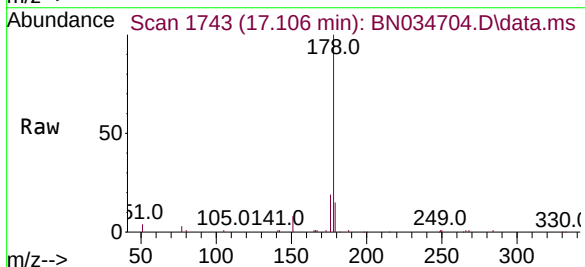
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

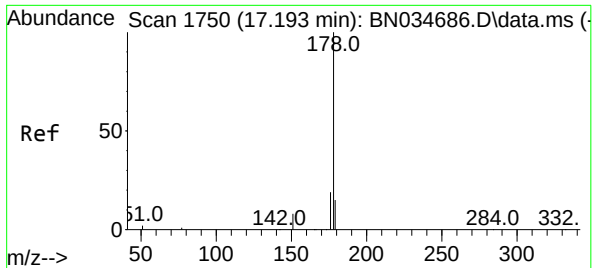
Tgt Ion:266 Resp: 1722
Ion Ratio Lower Upper
266 100
264 64.0 49.4 74.2
268 63.3 50.5 75.7



#25
Phenanthrene
Concen: 0.365 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:178 Resp: 15394
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.1 12.2 18.4

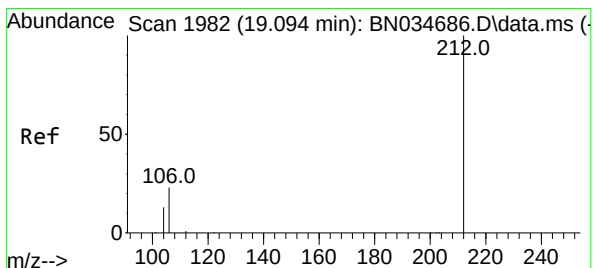
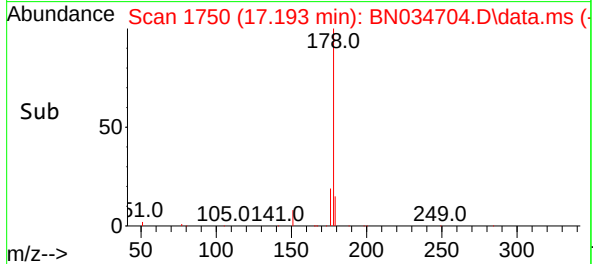
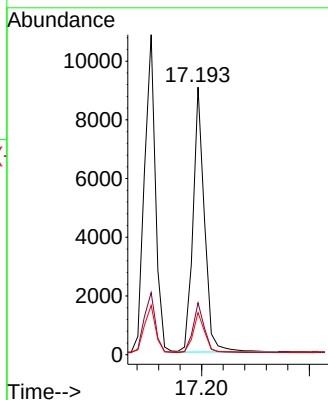
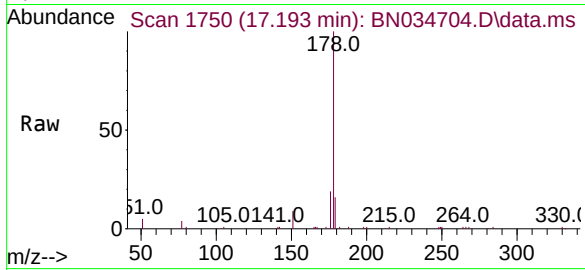




#26
Anthracene
Concen: 0.355 ng
RT: 17.193 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

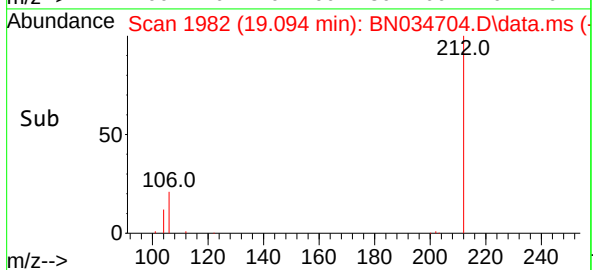
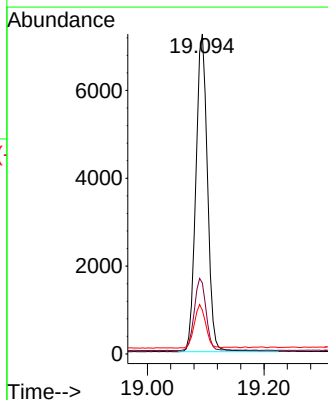
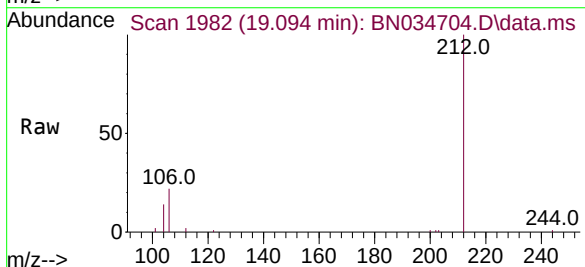
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

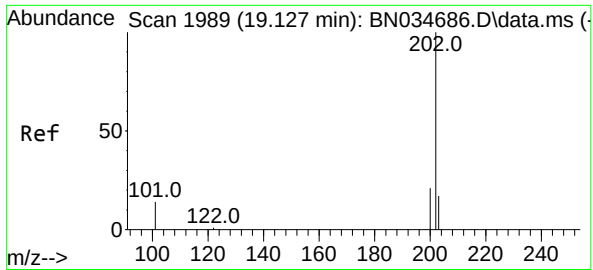
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.0	12.2	18.2



#27
Fluoranthene-d10
Concen: 0.316 ng
RT: 19.094 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.1	17.8	26.8
104	13.4	10.2	15.4

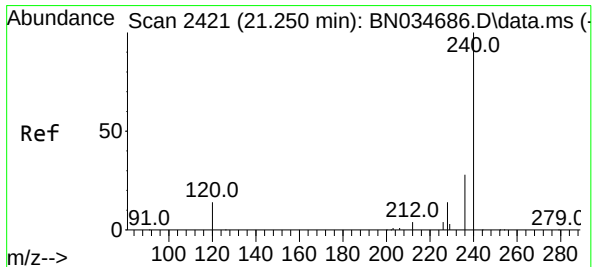
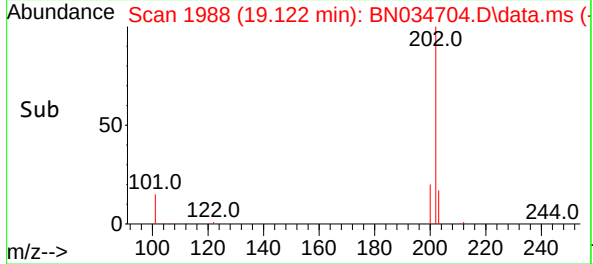
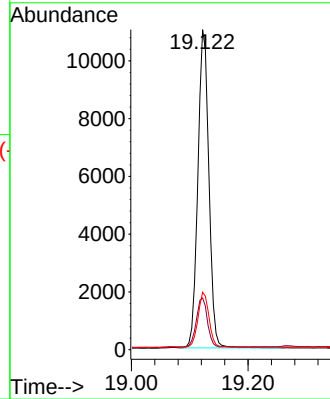
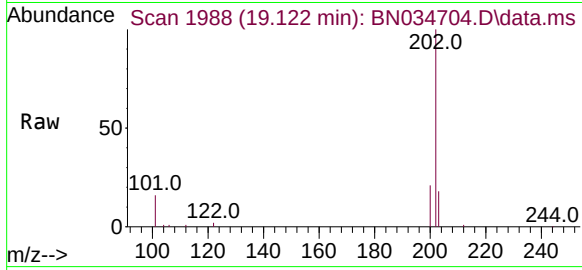




#28
Fluoranthene
Concen: 0.327 ng
RT: 19.122 min Scan# 1988
Delta R.T. -0.005 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

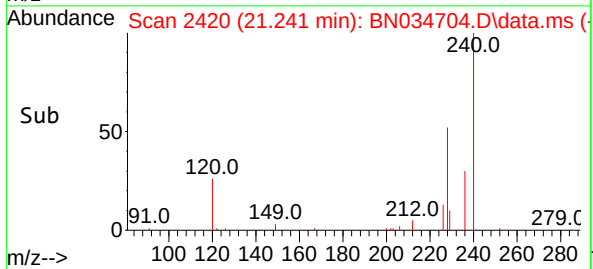
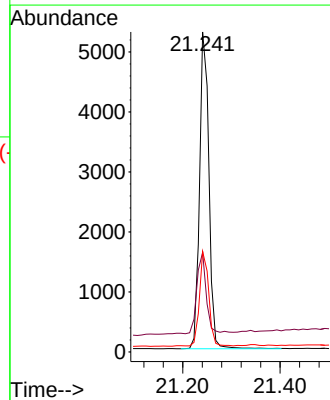
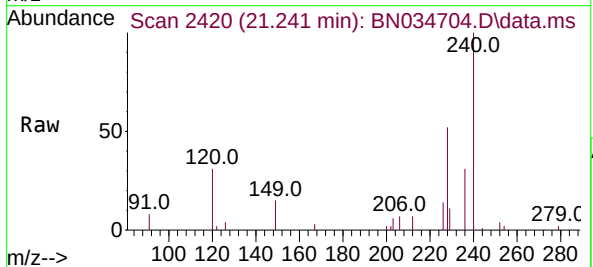
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

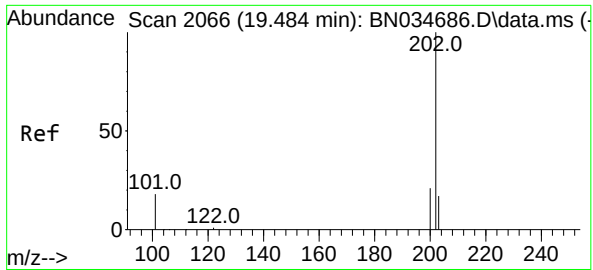
Tgt Ion:202 Resp: 14394
Ion Ratio Lower Upper
202 100
101 16.0 12.8 19.2
203 17.0 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.241 min Scan# 2420
Delta R.T. -0.009 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:240 Resp: 7021
Ion Ratio Lower Upper
240 100
120 31.1 14.2 21.2#
236 31.4 23.1 34.7

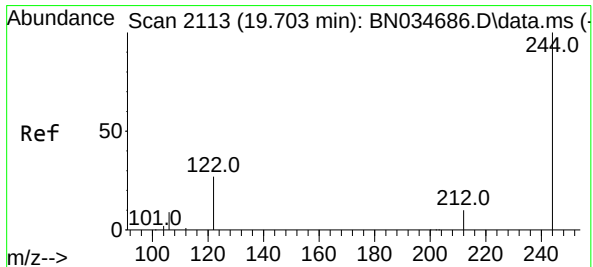
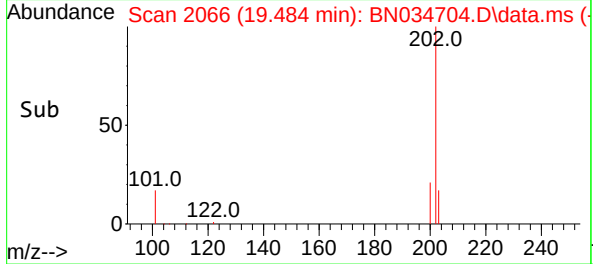
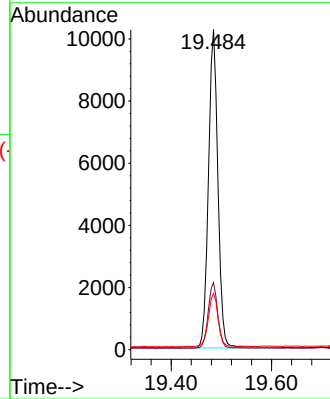
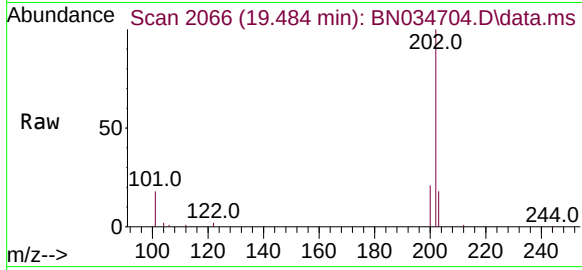




#30
Pyrene
Concen: 0.371 ng
RT: 19.484 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

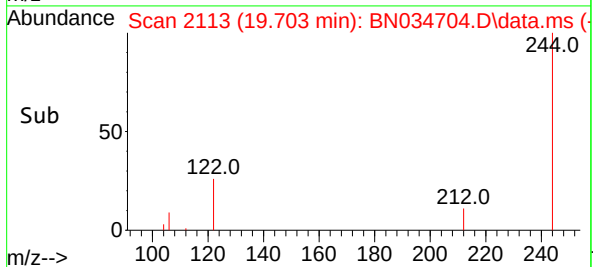
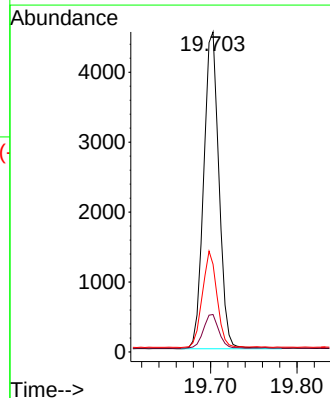
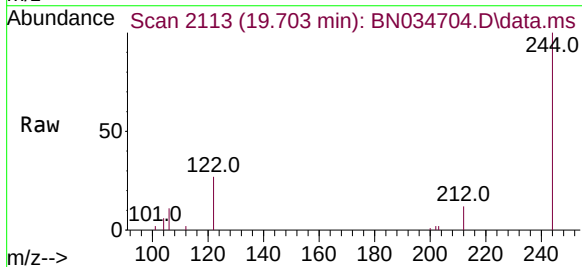
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

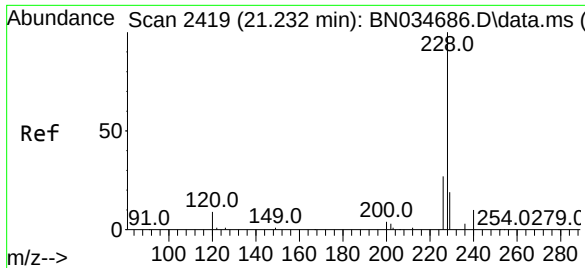
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	25.0
203	17.2	14.2	21.4



#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.703 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	8.6	13.0
122	27.4	22.3	33.5

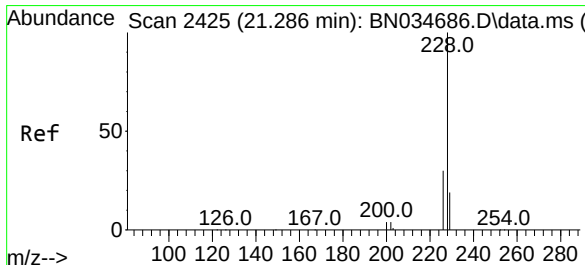
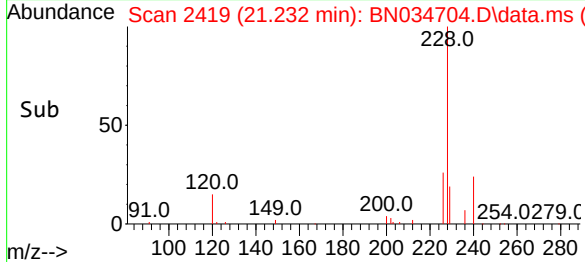
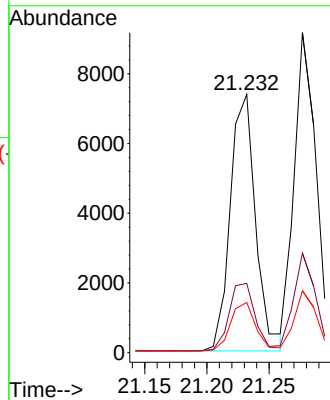
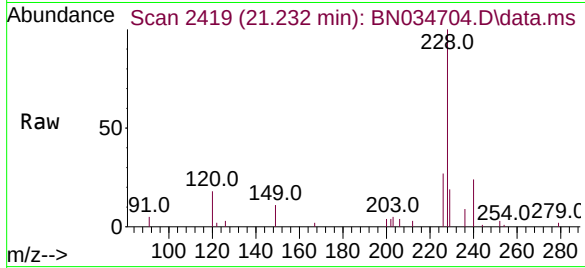




#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.232 min Scan# 2419
Delta R.T. 0.000 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

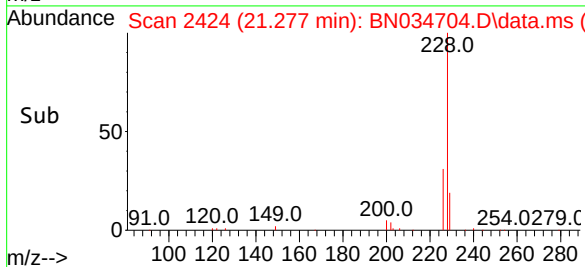
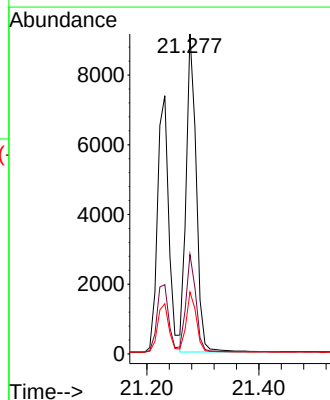
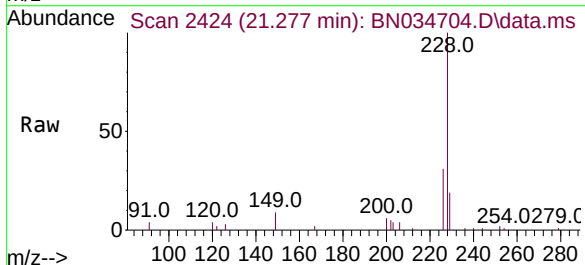
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

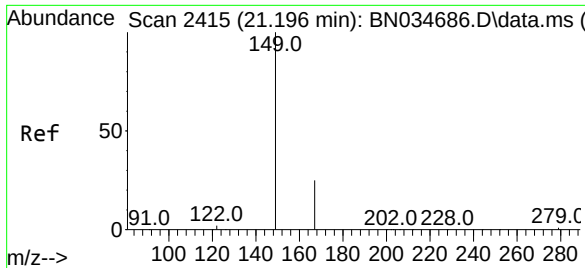
Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.0	33.0
229	19.5	15.6	23.4



#33
Chrysene
Concen: 0.411 ng
RT: 21.277 min Scan# 2424
Delta R.T. -0.009 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.1	36.1
229	19.4	15.8	23.8

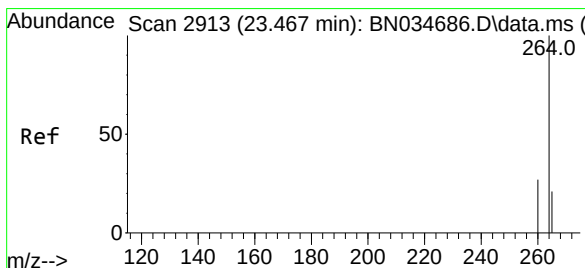
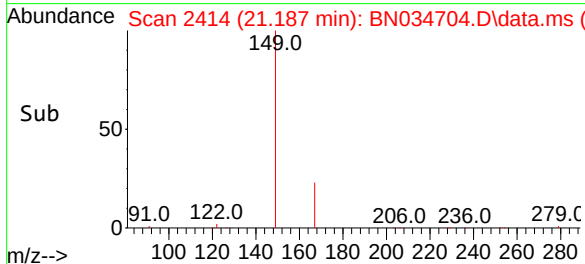
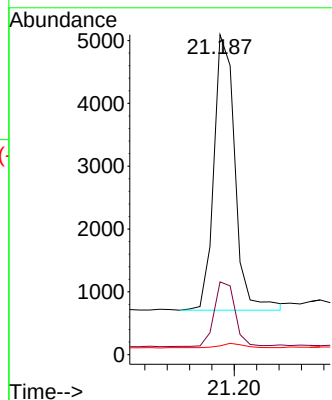
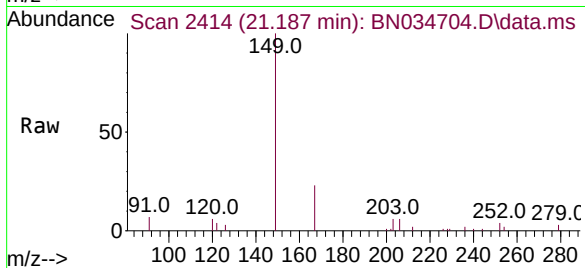




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.376 ng
RT: 21.187 min Scan# 2415
Delta R.T. -0.009 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

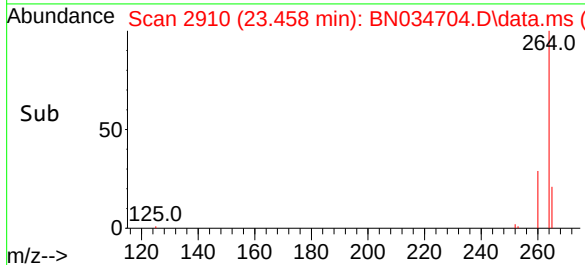
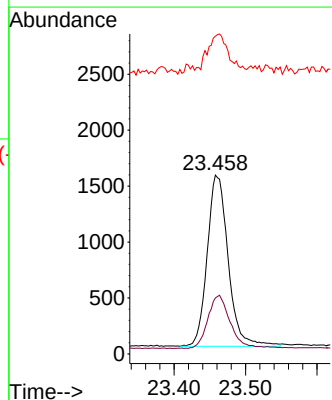
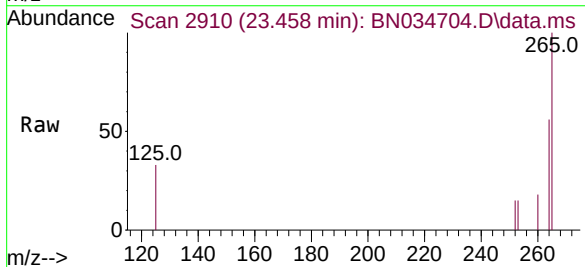
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

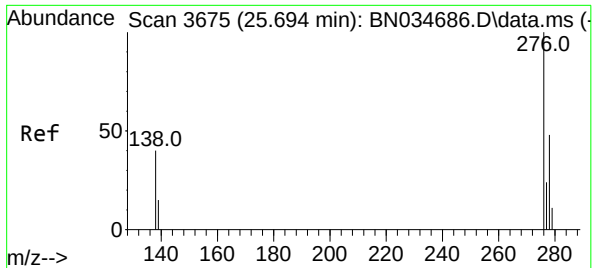
Tgt Ion:149 Resp: 5728
Ion Ratio Lower Upper
149 100
167 23.6 19.7 29.5
279 2.0 1.8 2.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.458 min Scan# 2910
Delta R.T. -0.009 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:264 Resp: 3135
Ion Ratio Lower Upper
264 100
260 31.3 21.9 32.9
265 177.6 60.6 91.0#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.673 ng

RT: 25.691 min Scan# 30

Delta R.T. -0.003 min

Lab File: BN034704.D

Acq: 24 Oct 2024 22:50

Instrument :

BNA_N

ClientSampleId :

PB164229BSD

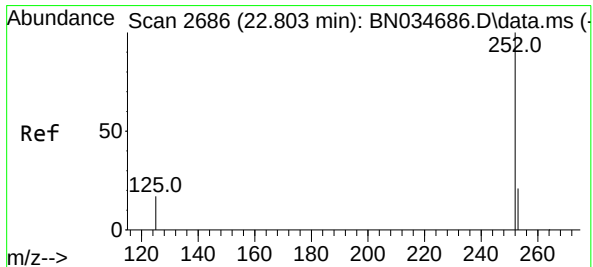
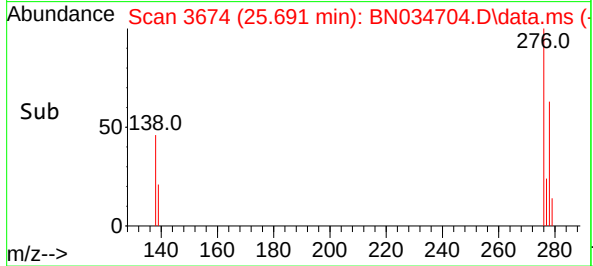
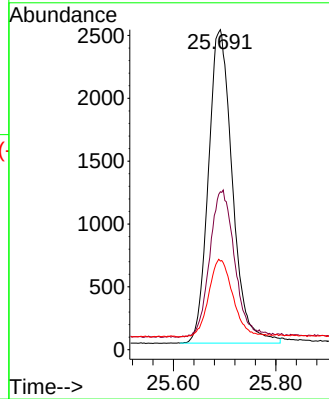
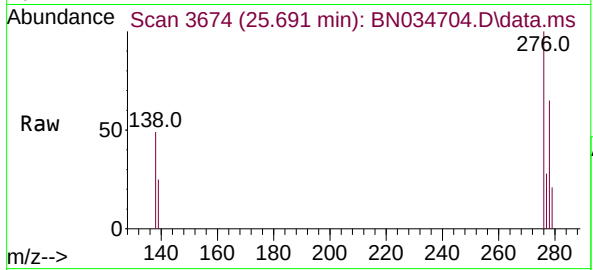
Tgt Ion:276 Resp: 8126

Ion Ratio Lower Upper

276 100

138 48.5 35.1 52.7

277 25.0 19.7 29.5



#37

Benzo(b)fluoranthene

Concen: 0.775 ng

RT: 22.797 min Scan# 2684

Delta R.T. -0.006 min

Lab File: BN034704.D

Acq: 24 Oct 2024 22:50

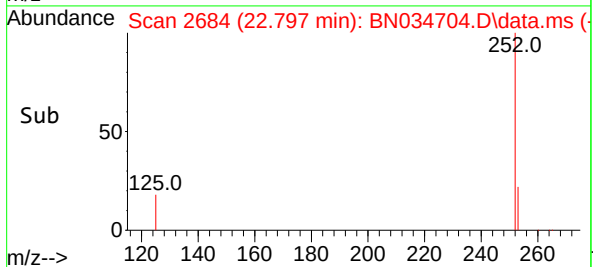
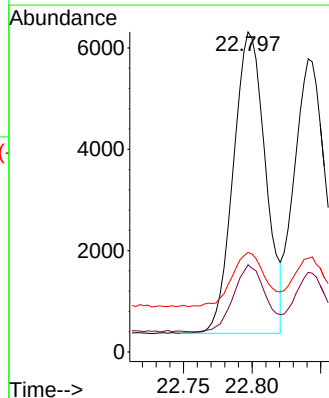
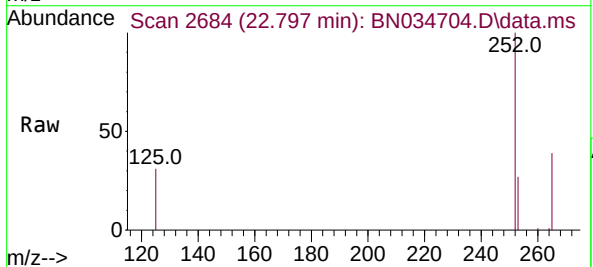
Tgt Ion:252 Resp: 9699

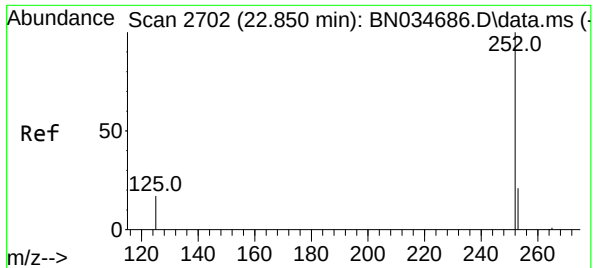
Ion Ratio Lower Upper

252 100

253 27.3 20.0 30.0

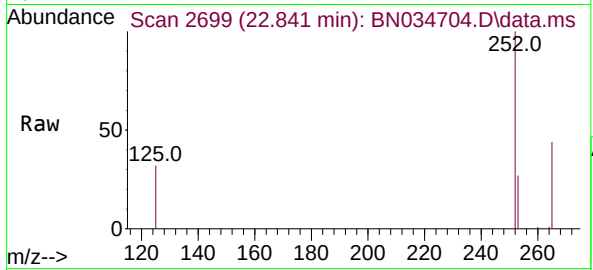
125 31.1 20.9 31.3



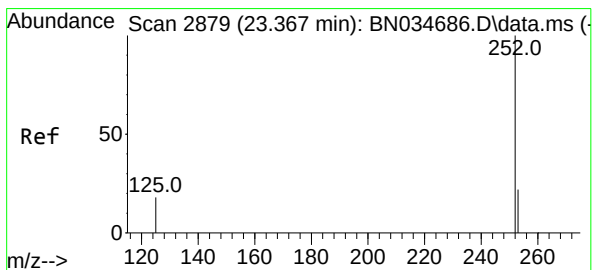
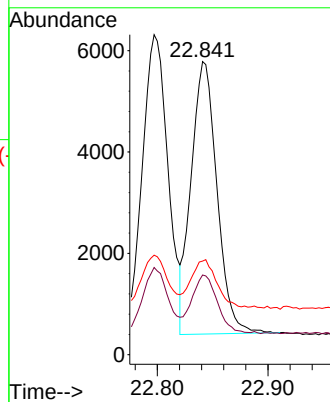


#38
Benzo(k)fluoranthene
Concen: 0.708 ng
RT: 22.841 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Instrument :
BNA_N
ClientSampleId :
PB164229BSD

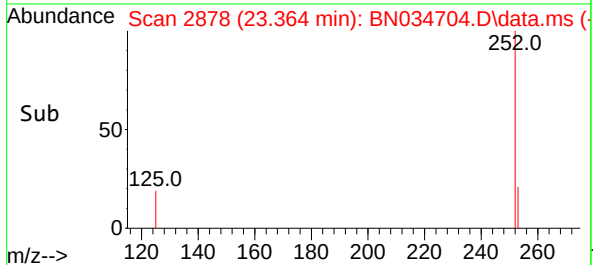
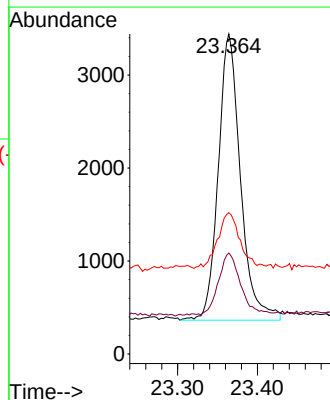
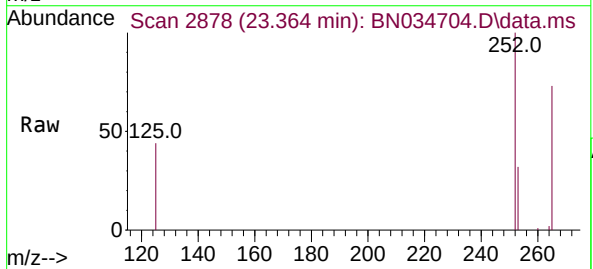


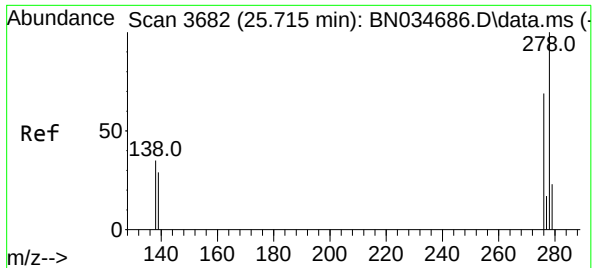
Tgt Ion:252 Resp: 8745
Ion Ratio Lower Upper
252 100
253 27.2 20.6 31.0
125 32.0 21.6 32.4



#39
Benzo(a)pyrene
Concen: 0.593 ng
RT: 23.364 min Scan# 2878
Delta R.T. -0.003 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:252 Resp: 5960
Ion Ratio Lower Upper
252 100
253 31.6 22.2 33.4
125 44.2 26.0 39.0#

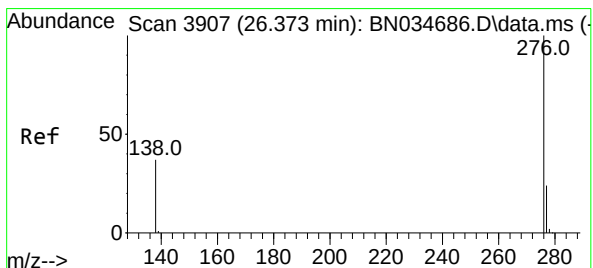
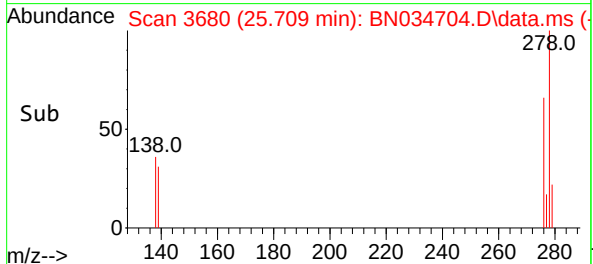
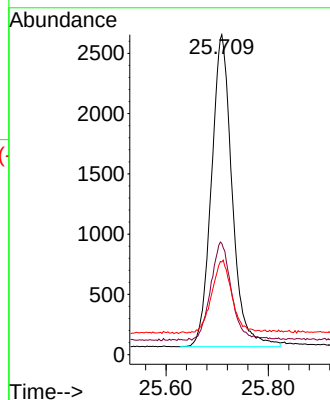
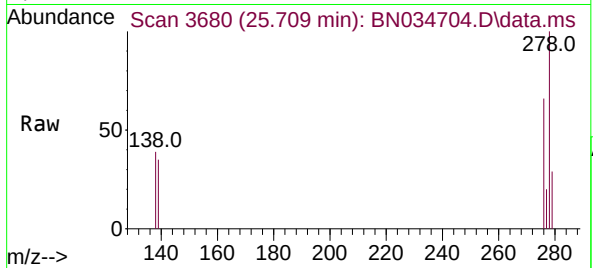




#40
Dibenzo(a,h)anthracene
Concen: 0.762 ng
RT: 25.709 min Scan# 30
Delta R.T. -0.006 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

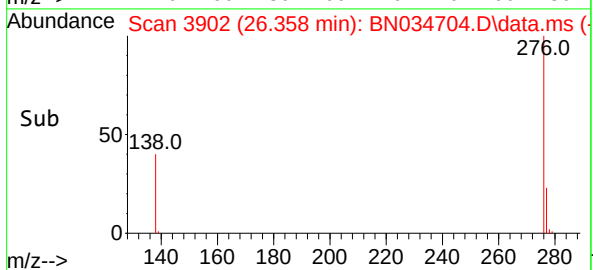
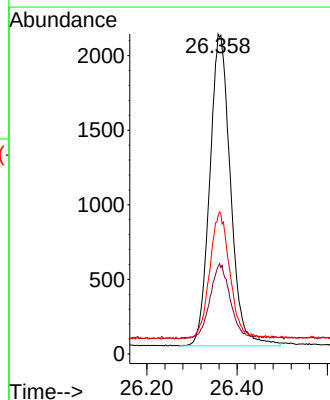
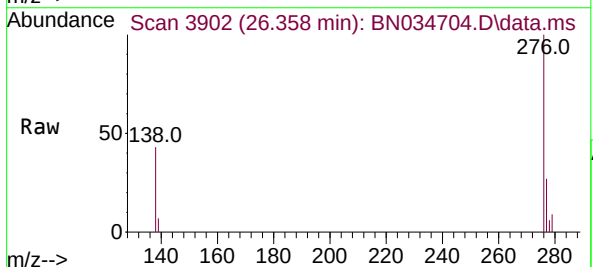
Instrument :
BNA_N
ClientSampleId :
PB164229BSD

Tgt Ion:278 Resp: 7257
Ion Ratio Lower Upper
278 100
139 34.8 25.4 38.2
279 28.9 22.4 33.6



#41
Benzo(g,h,i)perylene
Concen: 0.633 ng
RT: 26.358 min Scan# 3902
Delta R.T. -0.015 min
Lab File: BN034704.D
Acq: 24 Oct 2024 22:50

Tgt Ion:276 Resp: 6650
Ion Ratio Lower Upper
276 100
277 27.4 21.3 31.9
138 43.2 31.9 47.9



Manual Integration Report

Sequence:	BN102424	Instrument	BNA_n
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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

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	SSTDCCC0.4	BN034699.D	24 Oct 2024 19:06	RC/JU	Ok
18	DFTPP	BN034700.D	24 Oct 2024 20:22	RC/JU	Ok
19	SSTDCCC0.4	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 # 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
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M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 10/17/2024

Extraction Start Time : 13:55

Extraction End Date : 10/17/2024

Extraction End Time : 18:45

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6634
LOD	1.0ML	N/A 0.1 PPM	SP6512
LOQ	1.0ML	N/A 0.2 PPM	SP6513
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2543
10N NaoH	N/A	EP2523
H2SO4 1:1	N/A	EP2524
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. P4267-01 Added in batch at 13:05.

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
10/17/24	RP (Rajesh)	AC/SVOC
19:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/17/2024

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164229BL	SBLK229	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-08
PB164229BS	SLCS229	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			9
PB164229BS D	SLCSD229	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			10
P4368-07	LOD-MDL-WATER-01-QT4 -2024	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			11
P4368-08	LOQ-WATER-02-QT4-202 4	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			12
P4428-01	RW7-SP100-20241016	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1			13
P4428-02	RW7-SP201-20241016	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1			14
P4428-03	RW7-SP302-20241016	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1			15
P4428-04	RW7-SP303-20241016	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1			16

* Extracts relinquished on the same date as received.



164229
13:52

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4428		WorkList ID : 184557		Department : Extraction		Date : 10-17-2024 13:48:56	
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method
P4368-07	LOD-MDL-WATER-01-QT4-202	Water	SVOC-SIMGroup1	Cool 4 deg C	CHEM02	QA Of	10/09/2024 8270-Modified
P4368-08	LOQ-WATER-02-QT4-2024	Water	SVOC-SIMGroup1	Cool 4 deg C	CHEM02	QA Of	10/09/2024 8270-Modified
P4428-01	RW7-SP100-20241016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/17/2024 8270-Modified
P4428-02	RW7-SP201-20241016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/17/2024 8270-Modified
P4428-03	RW7-SP302-20241016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/17/2024 8270-Modified
P4428-04	RW7-SP303-20241016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/17/2024 8270-Modified

Date/Time 10/17/24 13:48
Raw Sample Received by: RS (Ext-666)
Raw Sample Relinquished by: JD (CSM)

Date/Time 10/17/24 14:15
Raw Sample Received by: JD (CSM)
Raw Sample Relinquished by: RS (Ext-666)



SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net				Chemtech Project Number: P4428																				
						COC Number:																				
CLIENT INFORMATION			PROJECT INFORMATION					BILLING INFORMATION																		
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage					BILL TO:					PO#													
ADDRESS: 4433 Corporation Ln, Suite 300			PROJECT #: 112G08005-WE13 LOCATION: RW7B					ADDRESS:																		
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu					CITY:					STATE: ZIP:													
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetrattech.com					ATTENTION:					PHONE:													
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION					ANALYSIS																		
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____					1,4-Dioxane SW846 8270 SIM <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">1</td><td style="width: 20px;">2</td><td style="width: 20px;">3</td><td style="width: 20px;">4</td><td style="width: 20px;">5</td><td style="width: 20px;">6</td><td style="width: 20px;">7</td><td style="width: 20px;">8</td><td style="width: 20px;">9</td> </tr> </table>										1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9																		
								PRESERVATIVES																		
								COMMENTS																		
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	A	B										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other						
			COMP	GRAB	DATE	TIME	1		2	3	4	5	6	7	8	9										
1.	RW7-SP100-20241016		GW		x	10/16/24	10:15	1	x											10:27*						
2.	RW7-SP201-20241016		GW		x	10/16/24	10:17	1	x																	
3.	RW7-SP302-20241016		GW		x	10/16/24	10:27	1	x											10:15*						
4.	RW7-SP303-20241016		GW		x	10/16/24	10:29	1	x																	
5.																										
6.																										
7.																										
8.																										
9.																										
10.																										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																										
RELINQUISHED BY SAMPLER		DATE/TIME	RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 19.2 MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: yes Comments:																					
1. [Signature]		10/16/24	1. [Signature]																							
RELINQUISHED BY		DATE/TIME	RECEIVED BY																							
2. [Signature]		10-17-24	2. [Signature]																							
RELINQUISHED BY		DATE/TIME	RECEIVED FOR LAB BY																							
3. [Signature]			3. [Signature]																							
					Page _____ of _____					SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight					Shipment Complete ☐ YES ☐ NO											
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																										

From: Yazmeen Gomez
Sent: Friday, October 25, 2024 1:48 PM
To: Wu, Ernie; Varricchio, Vin; Sprouse, Noah
Subject: Sample Times - P4428
Attachments: P4428-TR.pdf

Good afternoon,

Attached is an updated COC – the sample times didn't match the labels on the bottles.

Best Regards,



Yazmeen Gomez

Sr. Project Manager, CHEMTECH Laboratory
An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3147

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (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

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)

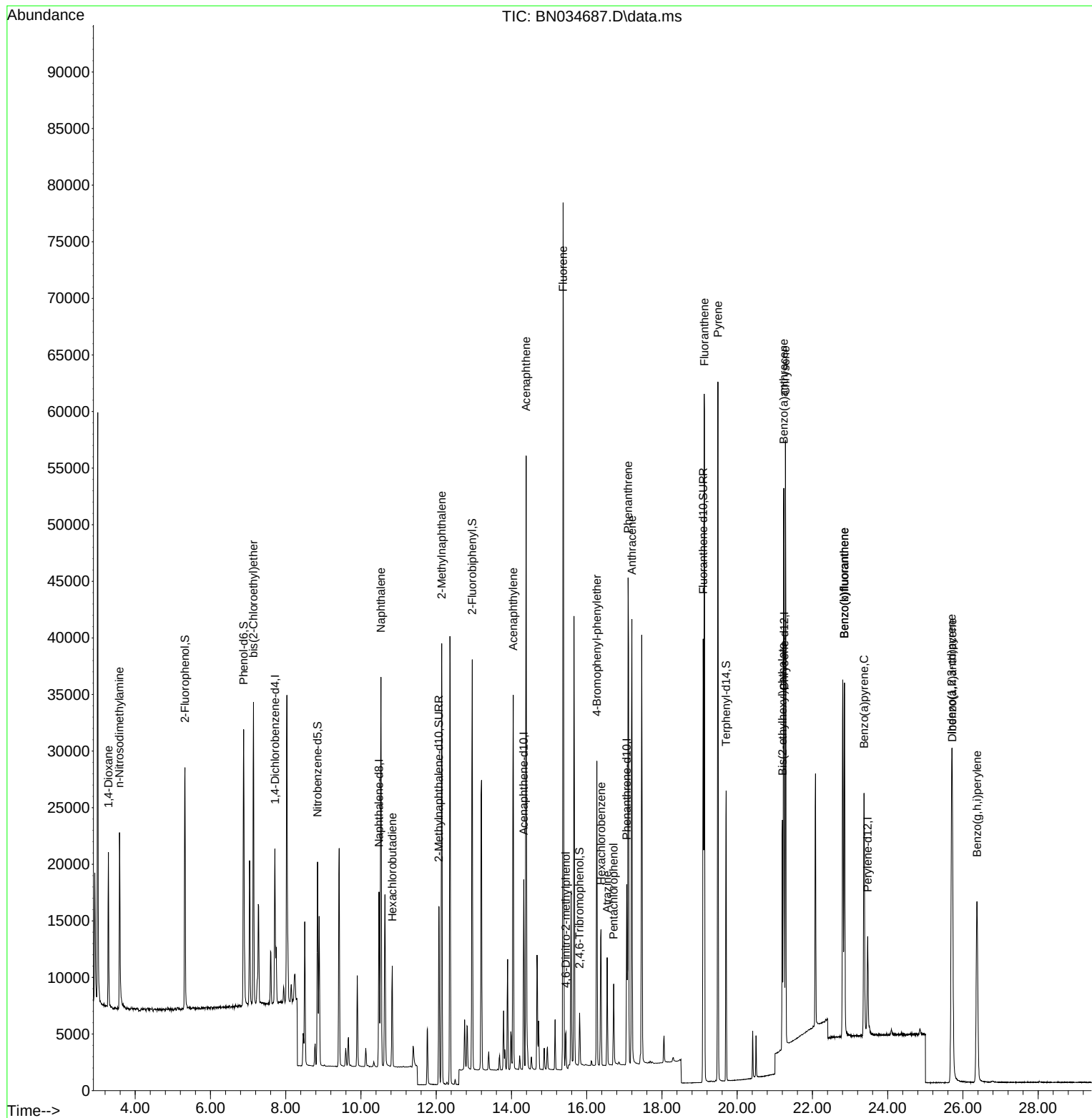
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.712	152	6279	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	18298	0.400	ng	0.00
13) Acenaphthene-d10	14.325	164	8788	0.400	ng	0.00
19) Phenanthrene-d10	17.063	188	18528	0.400	ng	# 0.00
29) Chrysene-d12	21.247	240	12066	0.400	ng	# 0.00
35) Perylene-d12	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						
						Qvalue
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

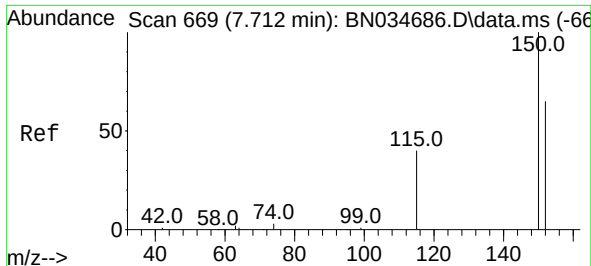
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

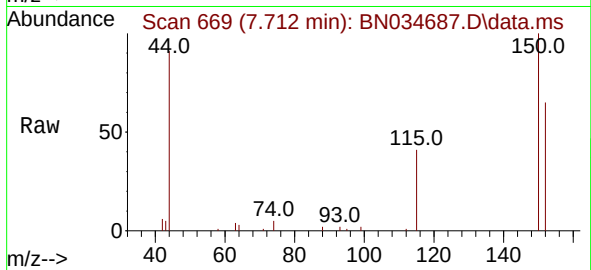
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 12:41:40 2024
Response via : Initial Calibration



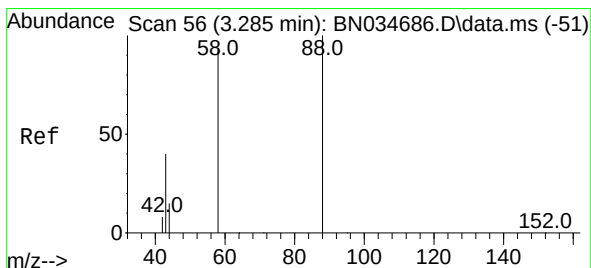
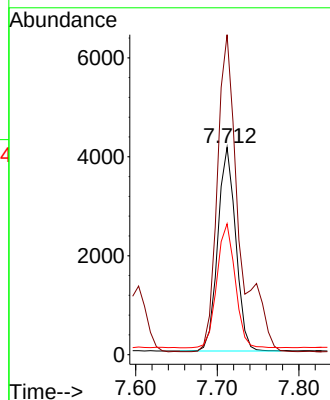
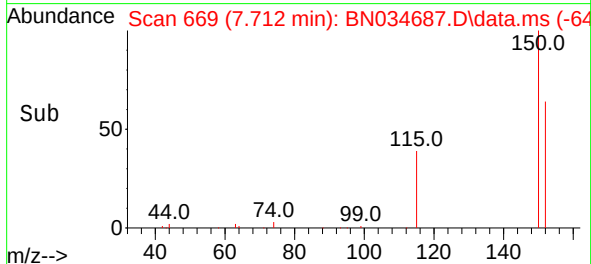


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.712 min Scan# 669
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

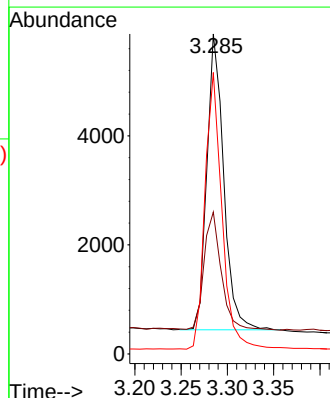
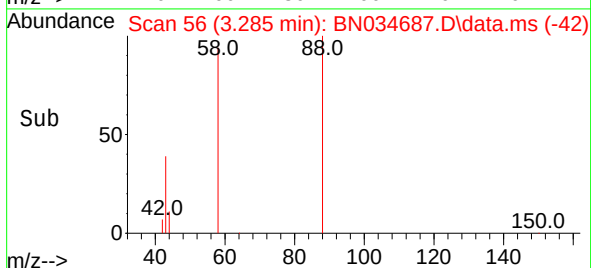
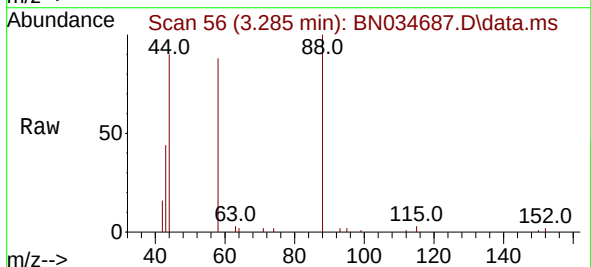


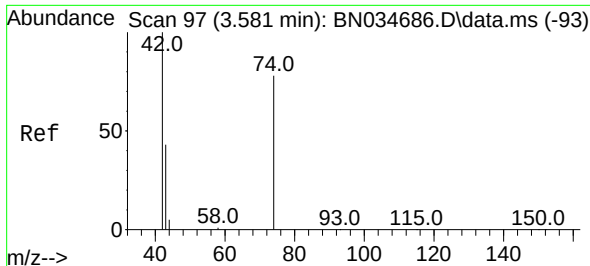
Tgt Ion:152 Resp: 6279
Ion Ratio Lower Upper
152 100
150 154.4 122.7 184.1
115 63.2 51.0 76.6



#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

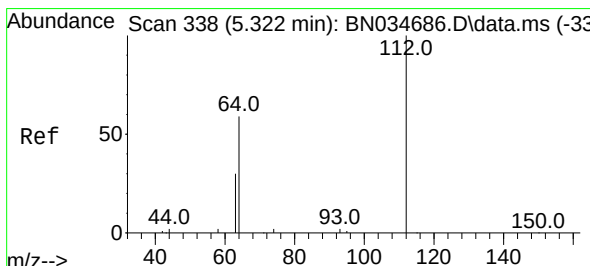
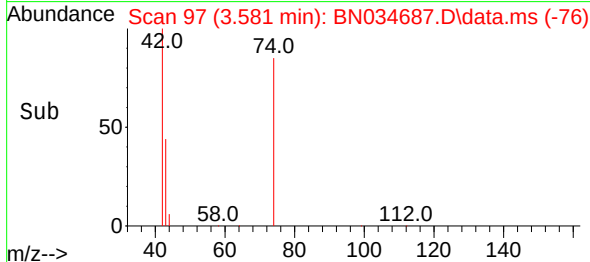
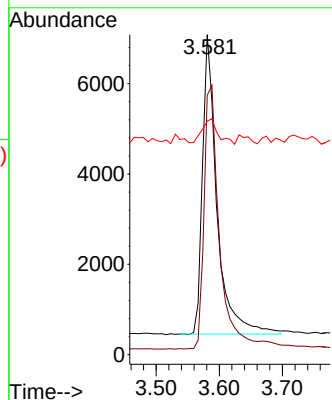
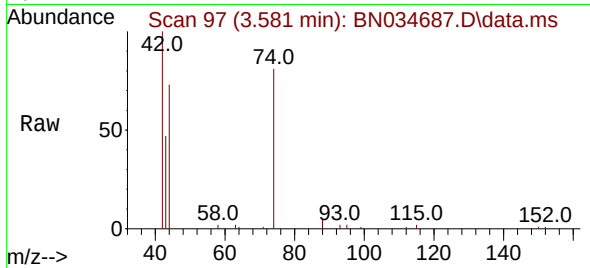




#3
 n-Nitrosodimethylamine
 Concen: 1.144 ng
 RT: 3.581 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

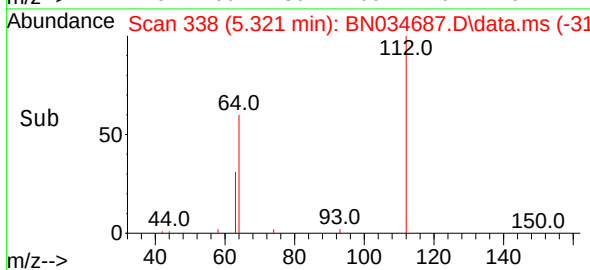
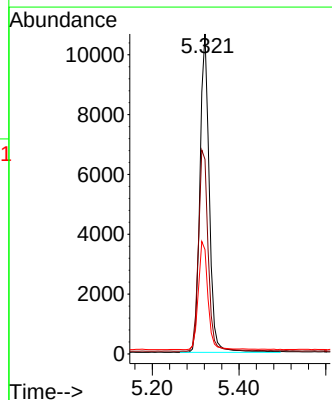
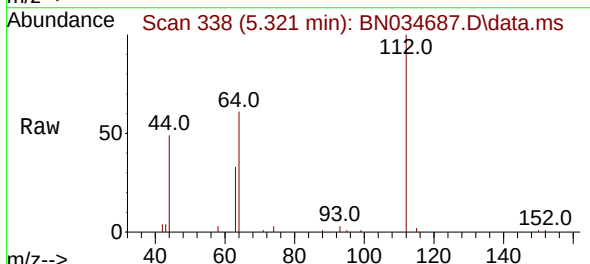
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 BNA_N
 ClientSampleId :
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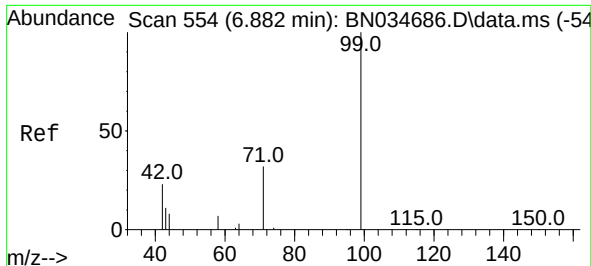
Tgt Ion: 42 Resp: 10574
 Ion Ratio Lower Upper
 42 100
 74 95.9 77.2 115.8
 44 9.3 13.4 20.2#



#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

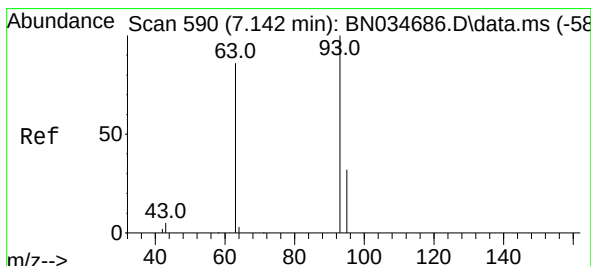
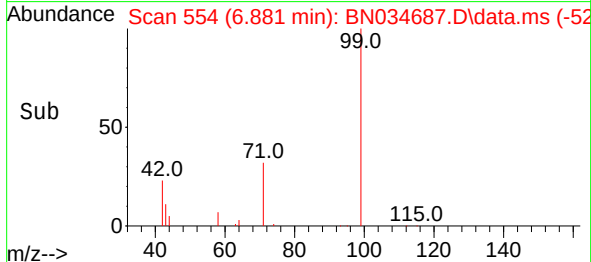
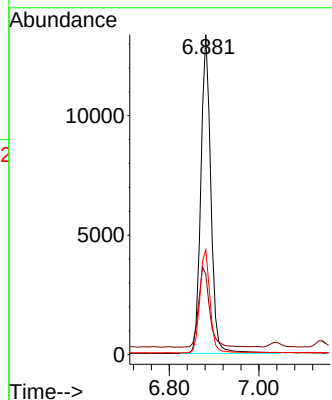
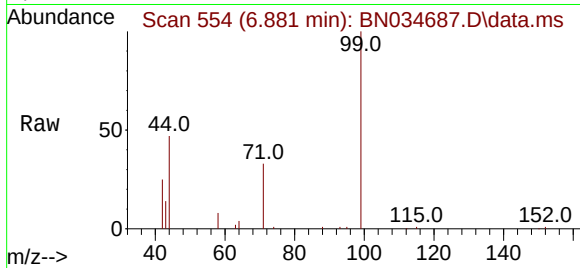




#5
Phenol-d6
Concen: 0.847 ng
RT: 6.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

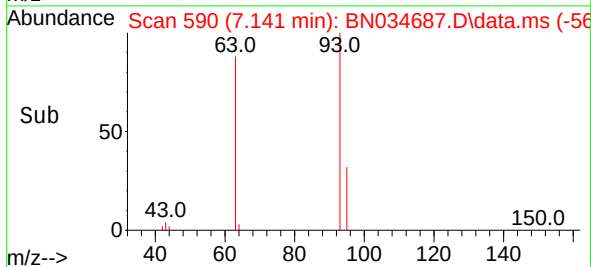
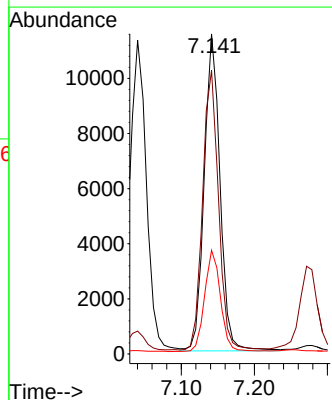
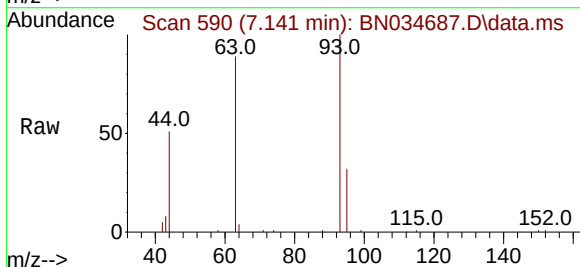
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

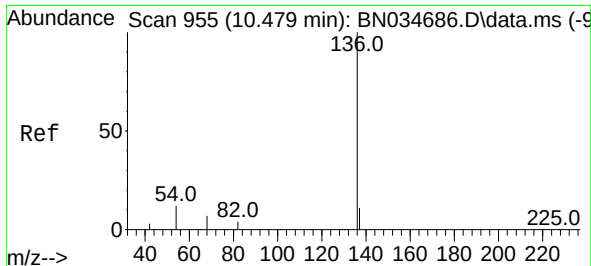
Tgt Ion: 99 Resp: 20820
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.1 26.6 40.0



#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

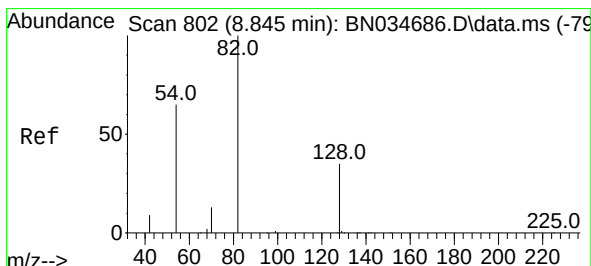
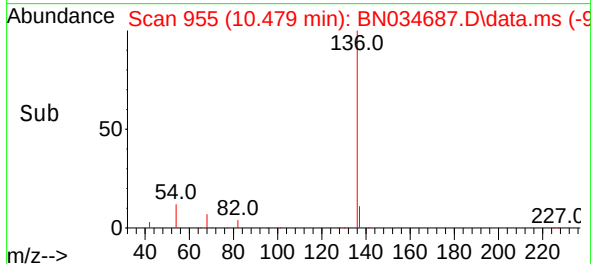
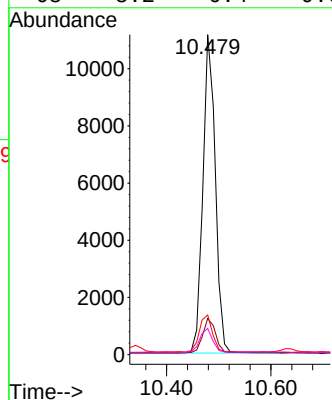
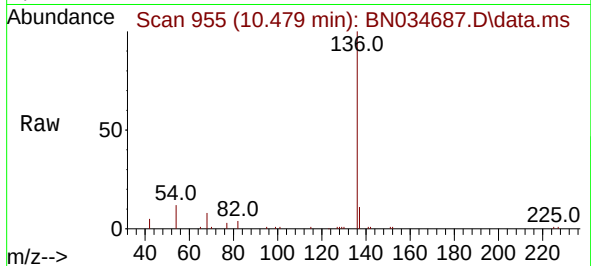




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

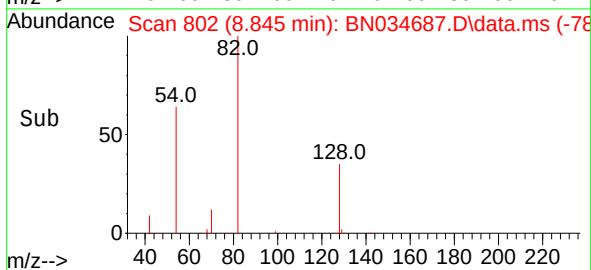
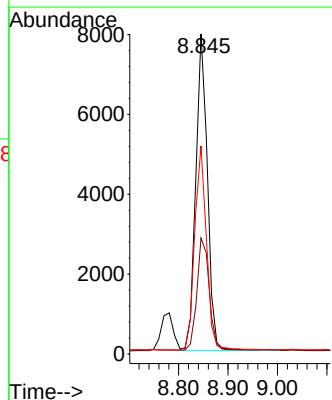
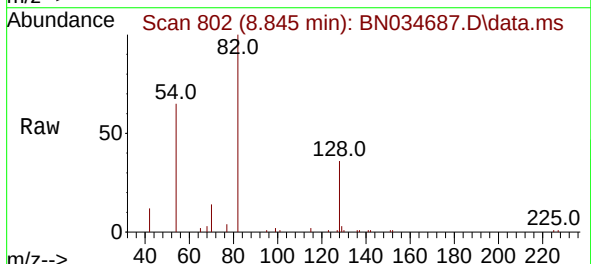
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

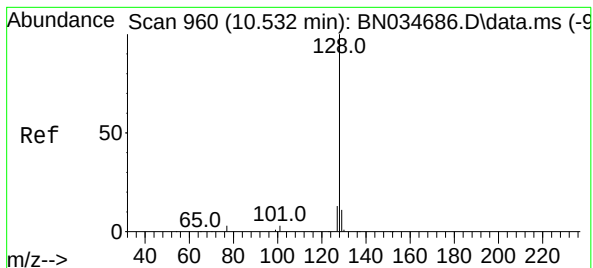
Tgt Ion:	136	Resp:	18298
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	12.4	9.8	14.8
68	8.2	6.4	9.6



#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# 960

Delta R.T. -0.000 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

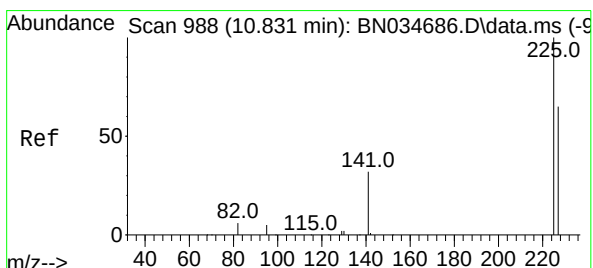
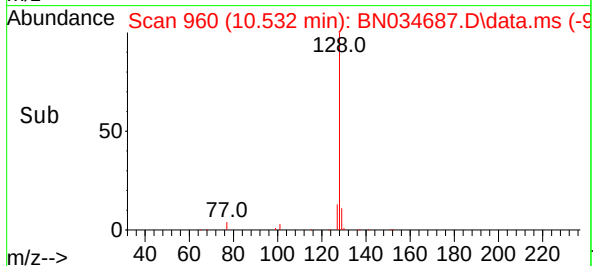
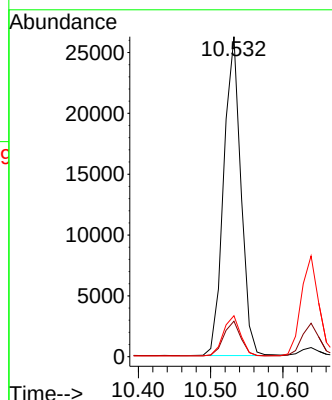
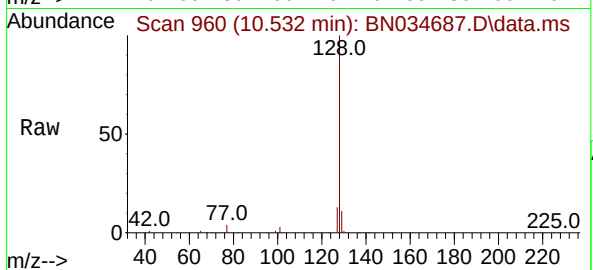
Tgt Ion:128 Resp: 43252

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

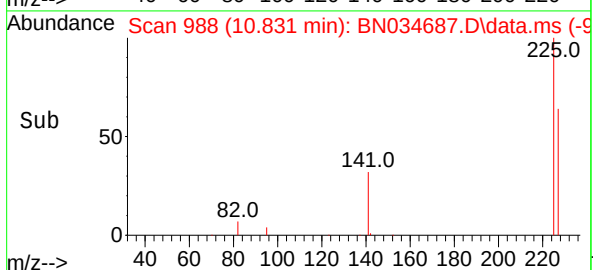
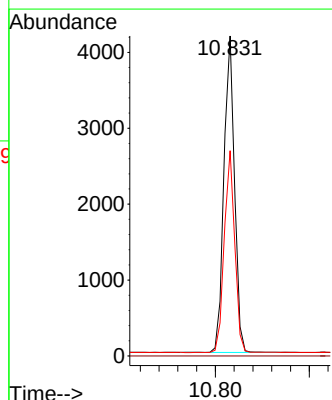
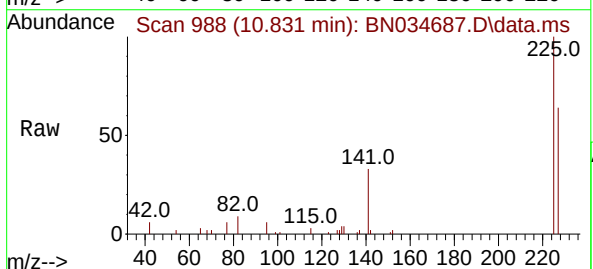
Tgt Ion:225 Resp: 6528

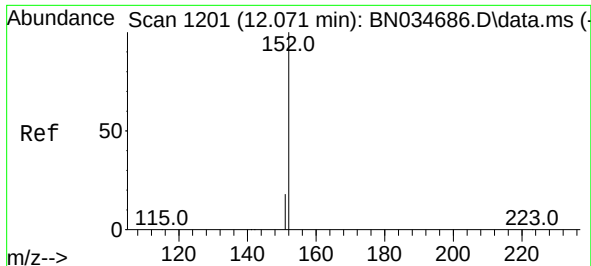
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.3 51.4 77.0

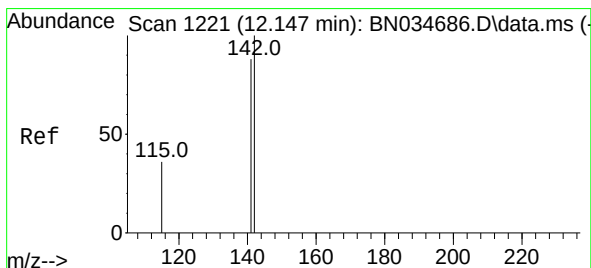
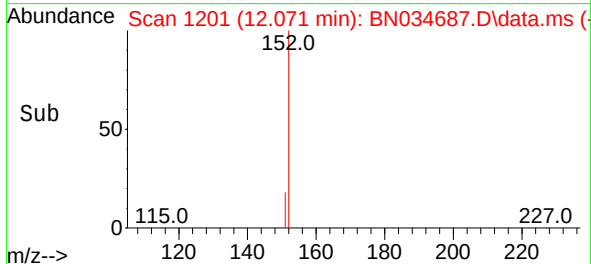
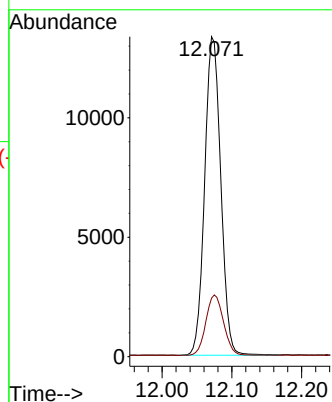
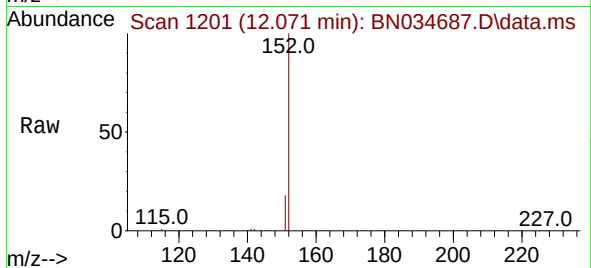




#11
2-Methylnaphthalene-d10
Concen: 0.829 ng
RT: 12.071 min Scan# 1201
Delta R.T. -0.000 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

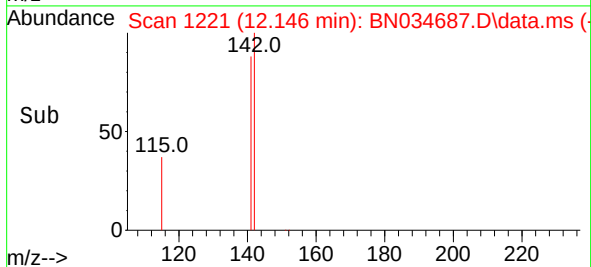
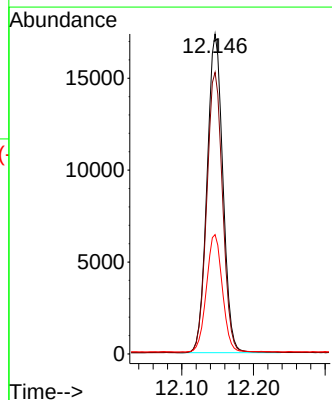
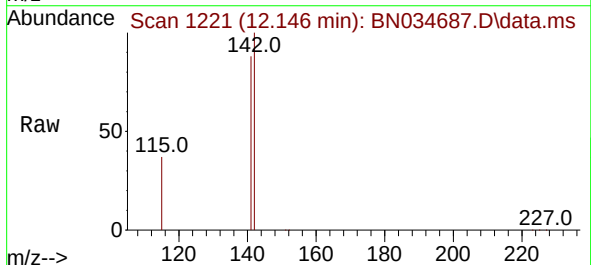
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

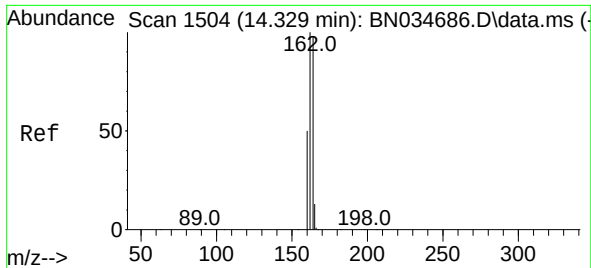
Tgt Ion:152 Resp: 21347
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#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

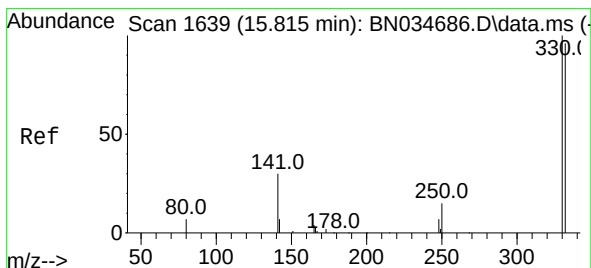
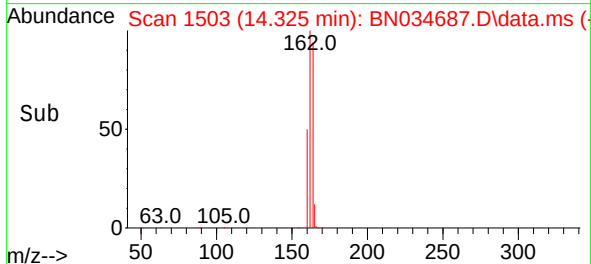
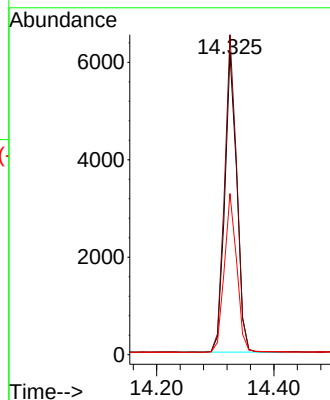
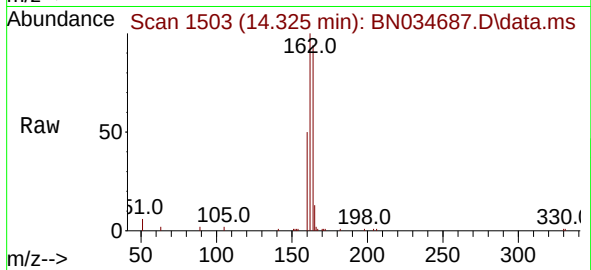




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.325 min Scan# 1503
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

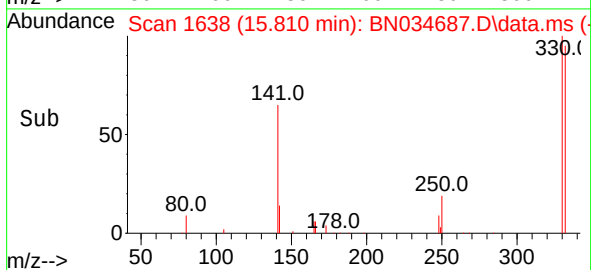
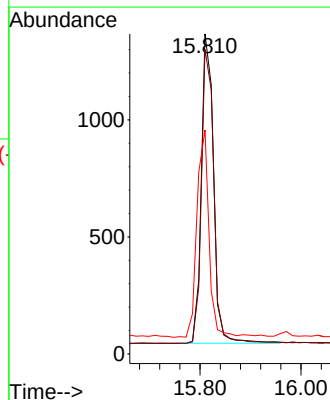
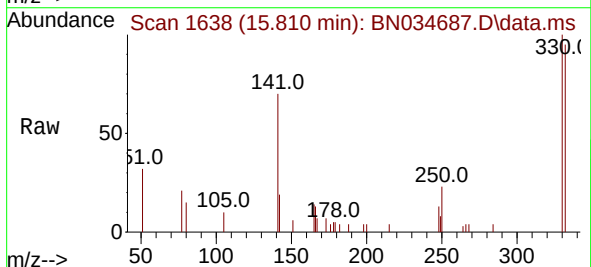
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

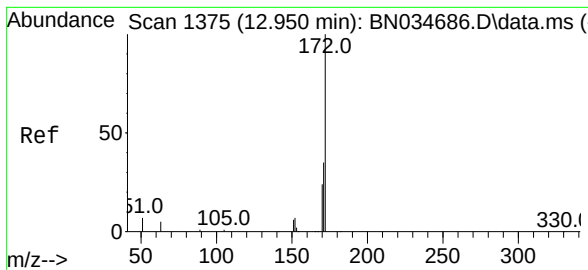
Tgt Ion:164 Resp: 8788
Ion Ratio Lower Upper
164 100
162 106.2 81.4 122.0
160 53.4 40.6 61.0



#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

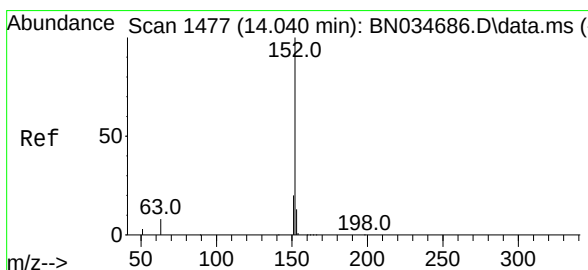
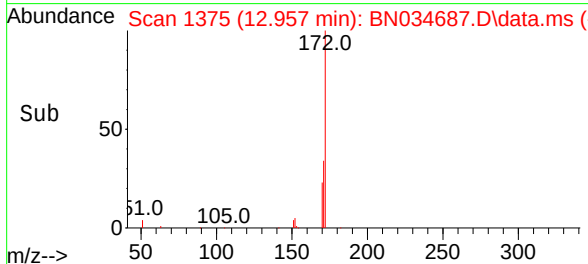
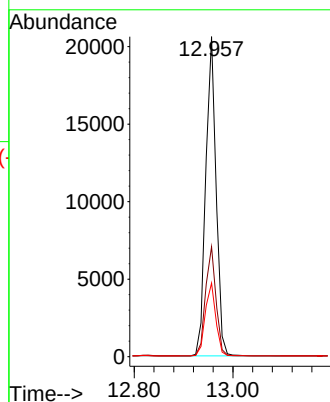
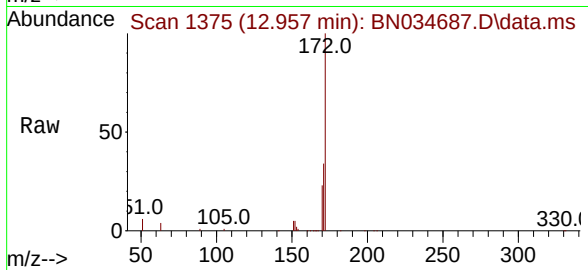




#15
2-Fluorobiphenyl
Concen: 0.864 ng
RT: 12.957 min Scan# 1375
Delta R.T. 0.007 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

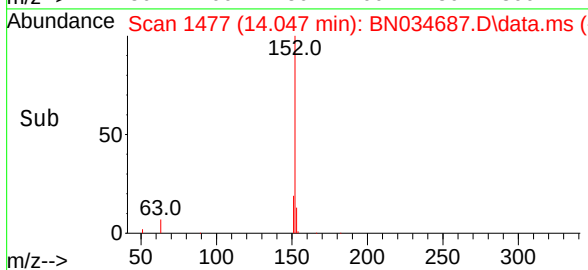
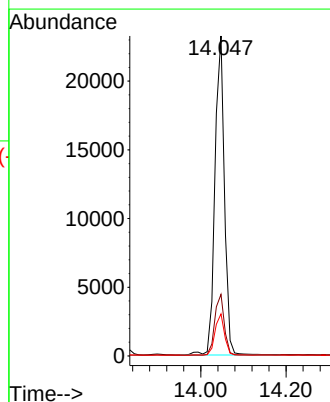
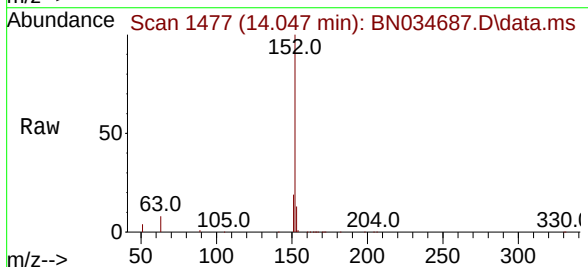
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

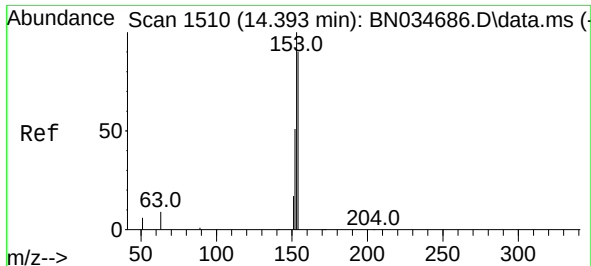
Tgt Ion:	172	Resp:	29939
Ion Ratio	Lower	Upper	
172	100		
171	34.3	28.3	42.5
170	23.0	19.8	29.6



#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

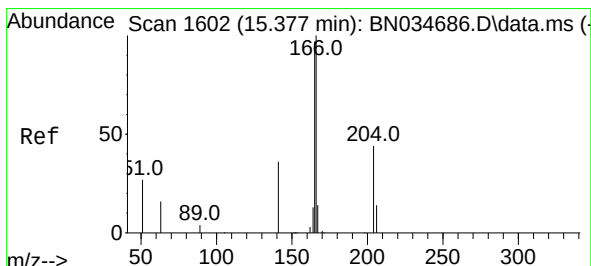
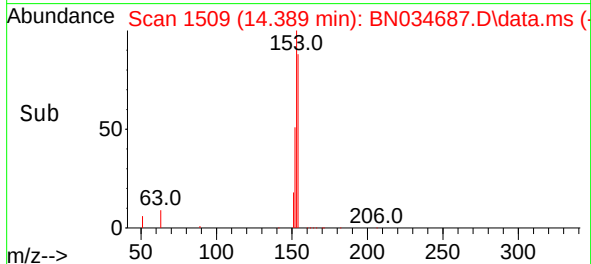
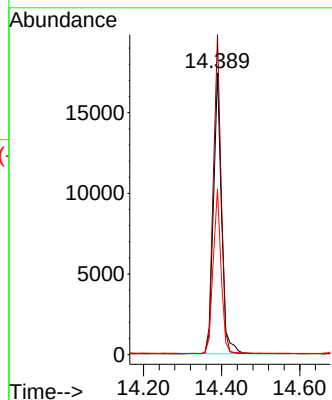
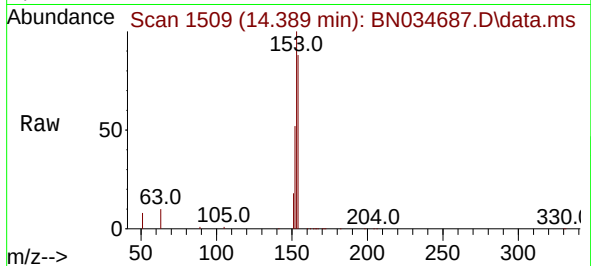




#17
Acenaphthene
Concen: 0.876 ng
RT: 14.389 min Scan# 1509
Delta R.T. -0.004 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

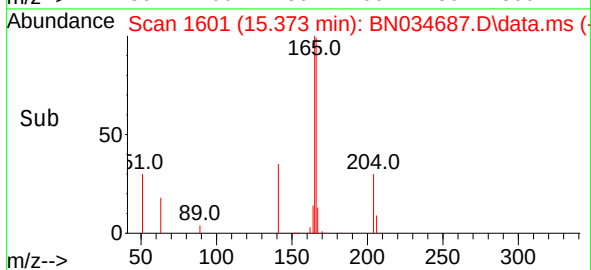
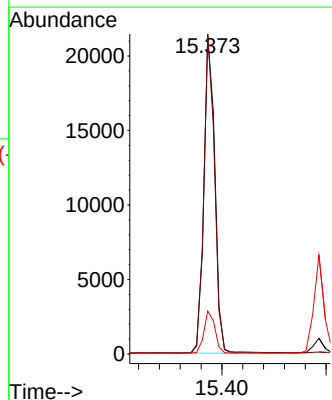
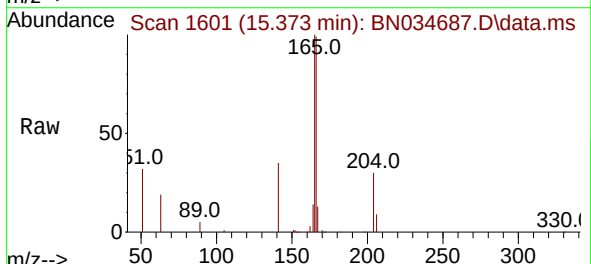
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

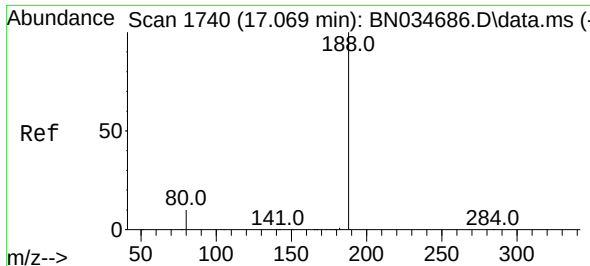
Tgt Ion:154 Resp: 25224
Ion Ratio Lower Upper
154 100
153 109.5 88.2 132.2
152 57.2 46.9 70.3



#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# 1739

Delta R.T. -0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

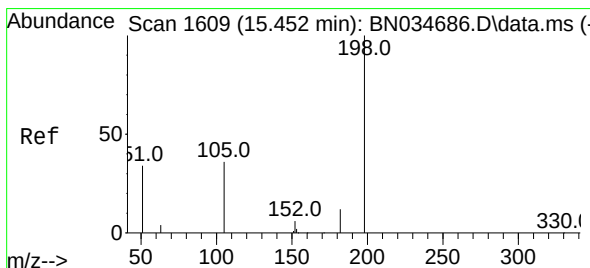
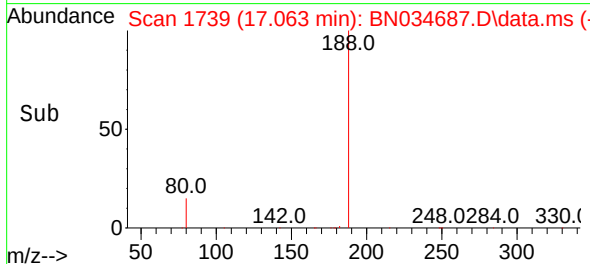
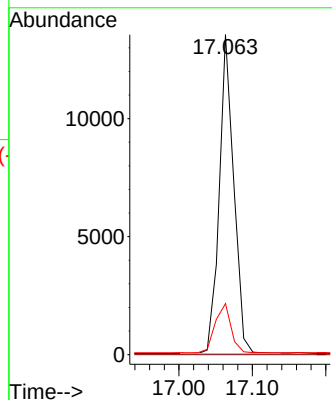
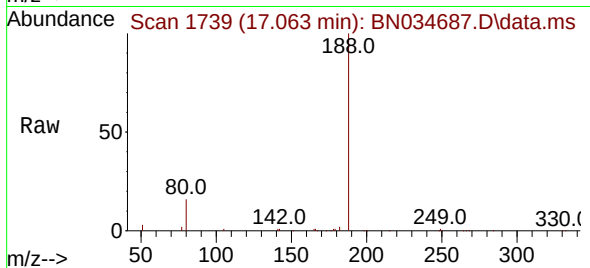
Tgt Ion:188 Resp: 18528

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

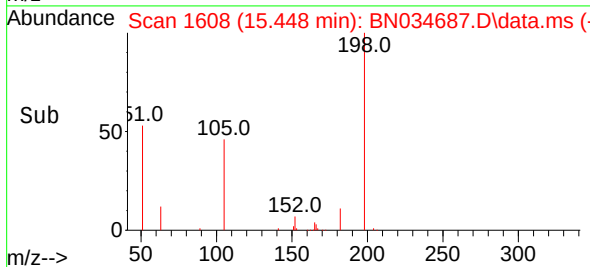
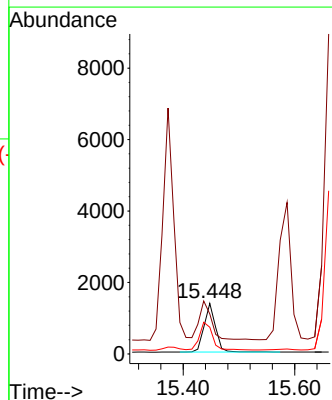
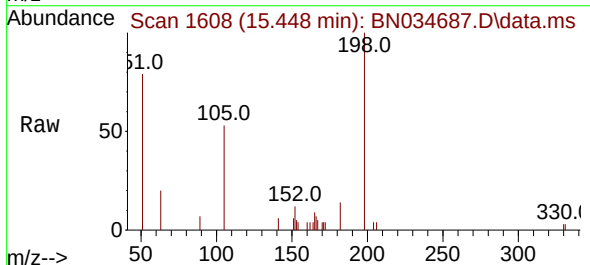
Tgt Ion:198 Resp: 2025

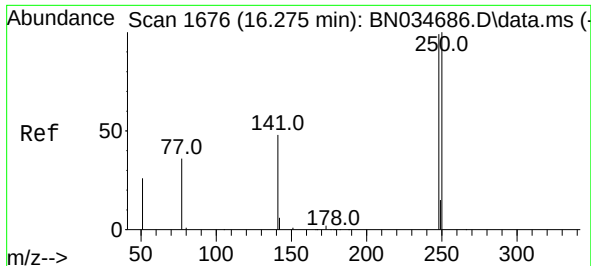
Ion Ratio Lower Upper

198 100

51 79.0 91.8 137.8#

105 52.7 44.3 66.5

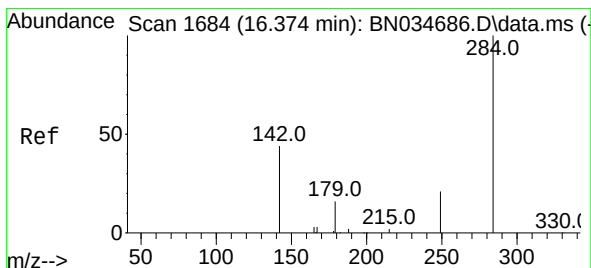
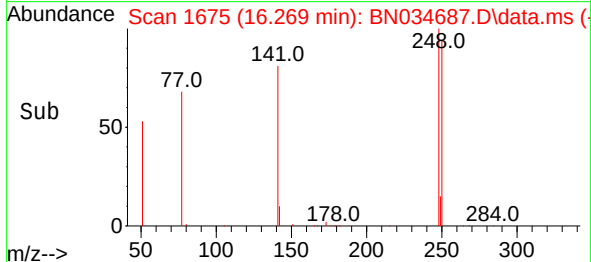
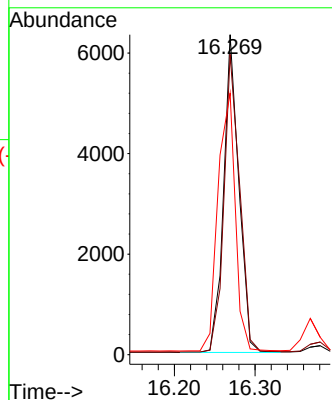
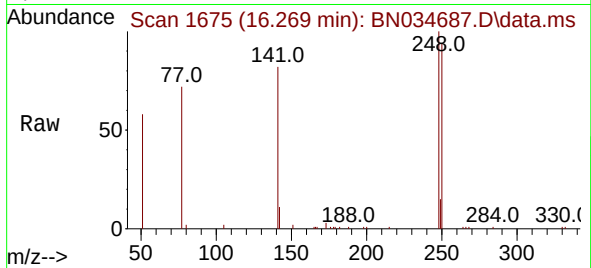




#21
4-Bromophenyl-phenylether
Concen: 0.818 ng
RT: 16.269 min Scan# 1675
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

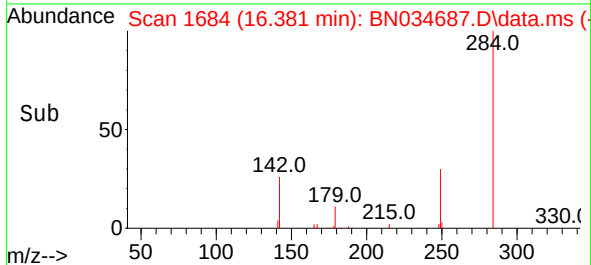
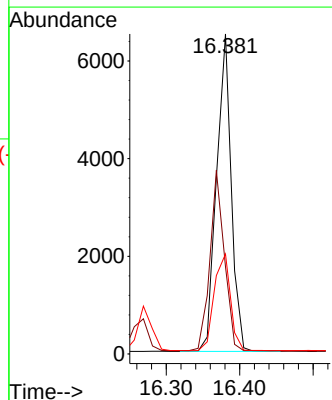
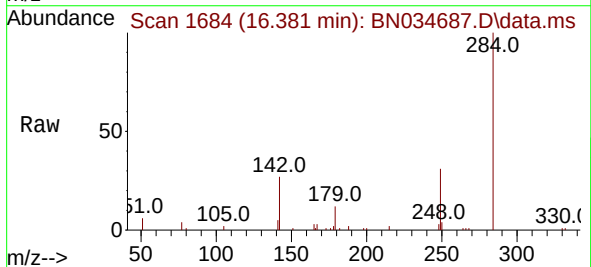
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

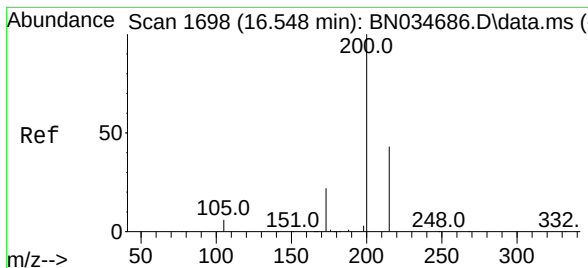
Tgt Ion:248 Resp: 8290
Ion Ratio Lower Upper
248 100
250 93.8 80.9 121.3
141 81.7 40.5 60.7#



#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# 1

Delta R.T. -0.006 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

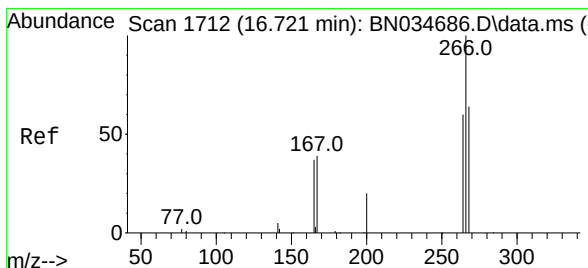
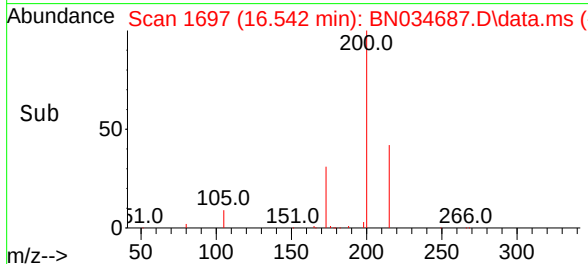
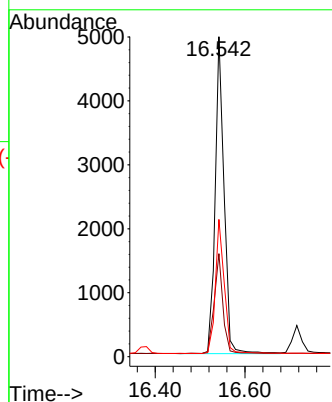
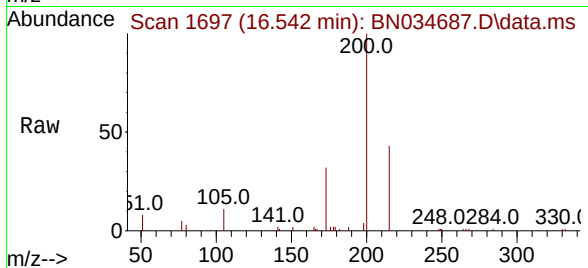
Tgt Ion:200 Resp: 6777

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

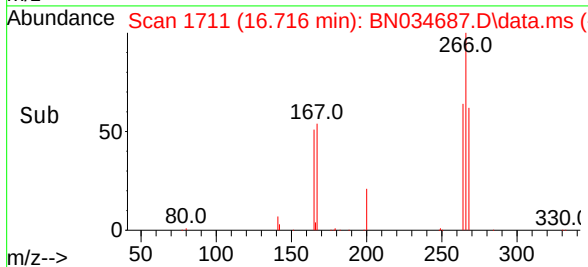
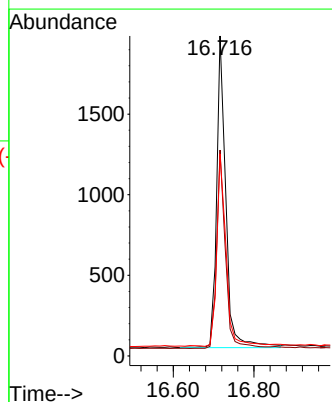
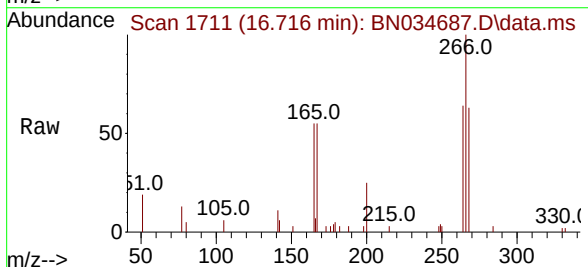
Tgt Ion:266 Resp: 3059

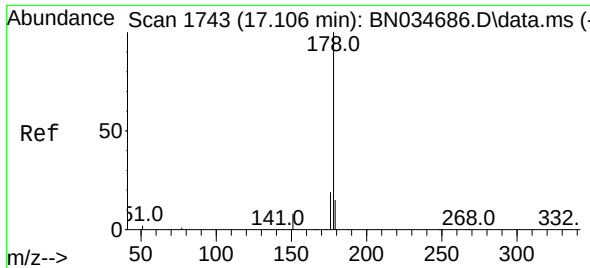
Ion Ratio Lower Upper

266 100

264 61.0 49.4 74.2

268 62.3 50.5 75.7

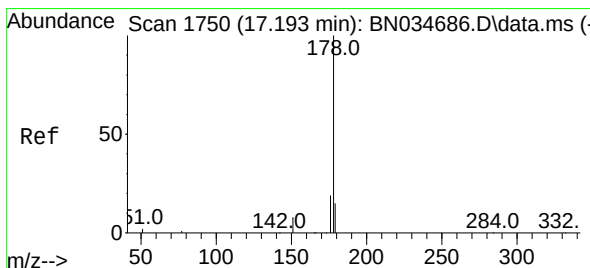
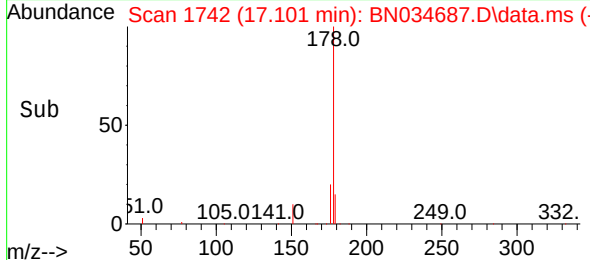
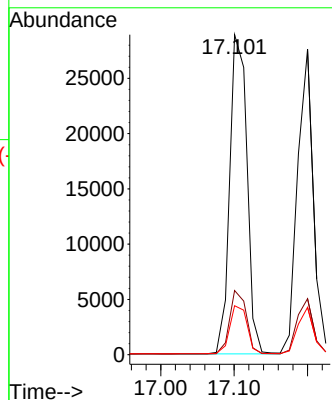
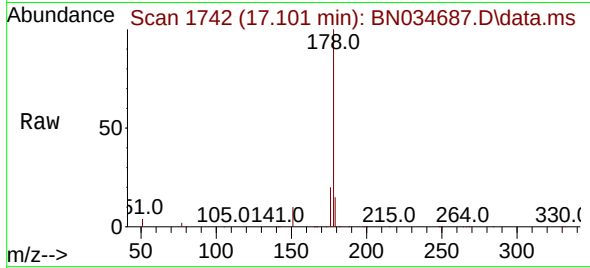




#25
Phenanthrene
Concen: 0.856 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.006 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

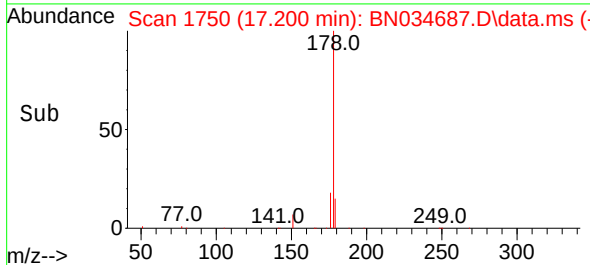
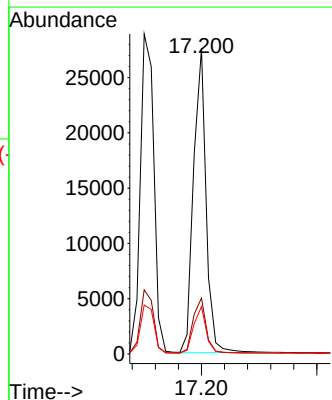
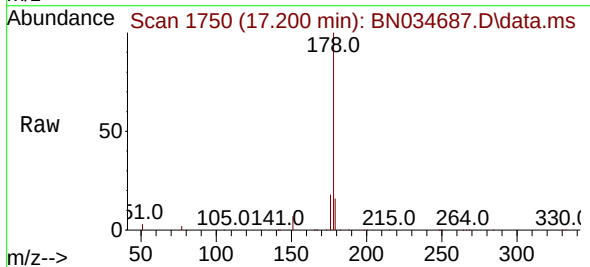
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

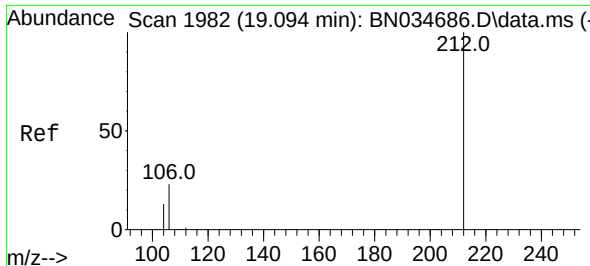
Tgt Ion:178 Resp: 47181
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.1 12.2 18.4



#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

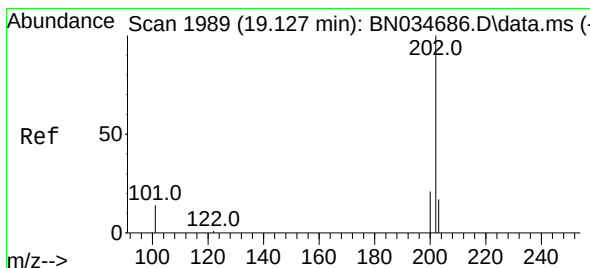
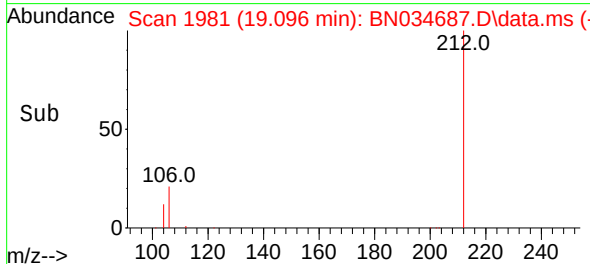
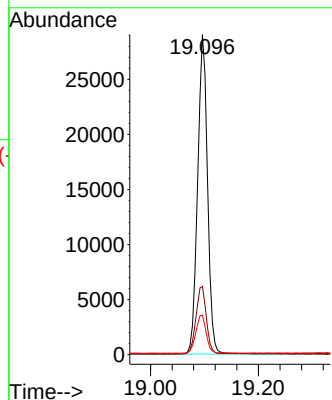
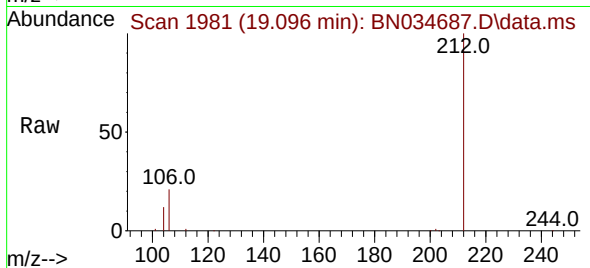
Tgt Ion:212 Resp: 36834

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

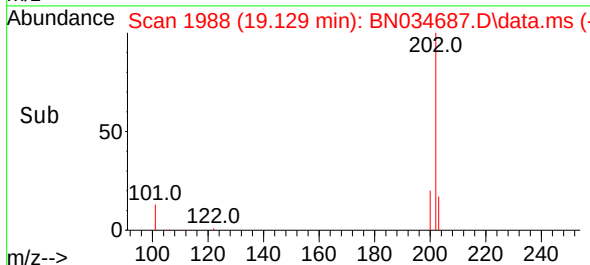
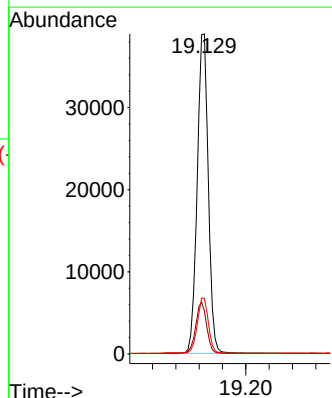
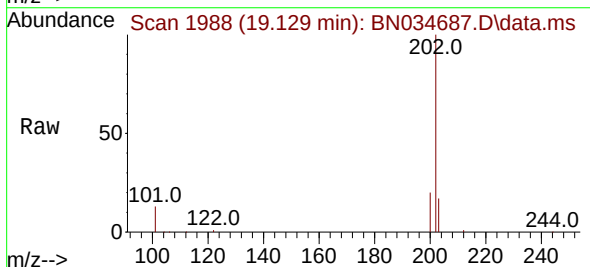
Tgt Ion:202 Resp: 51141

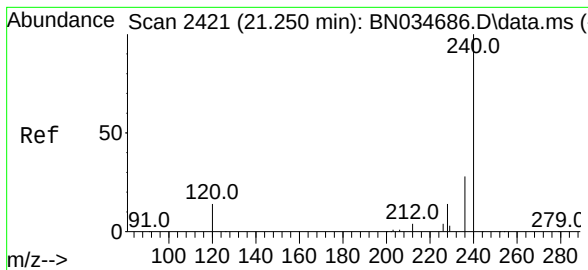
Ion Ratio Lower Upper

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

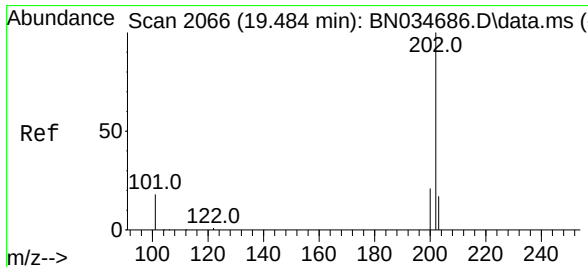
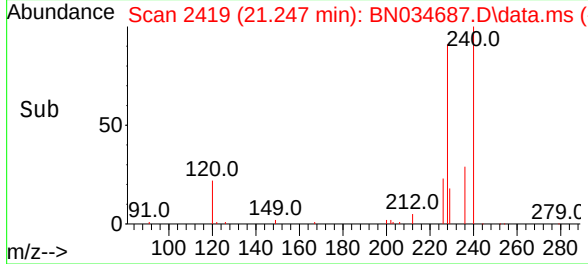
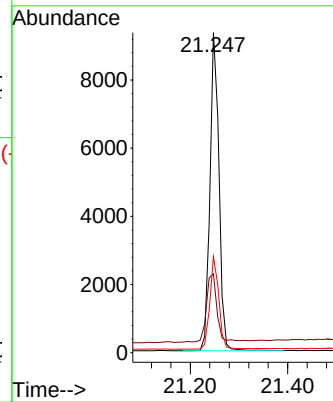
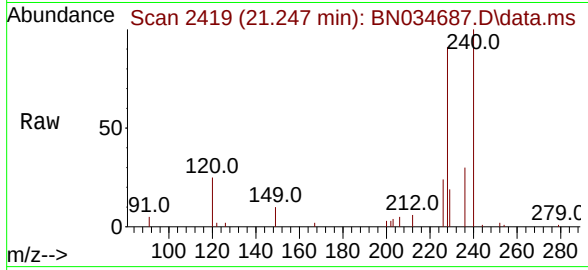
Tgt Ion:240 Resp: 12066

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

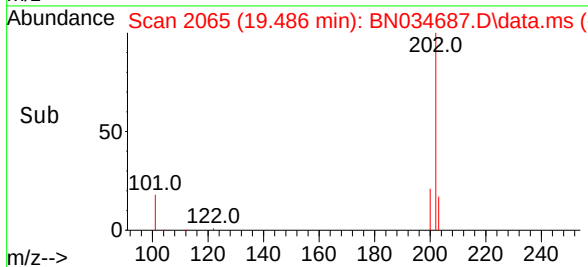
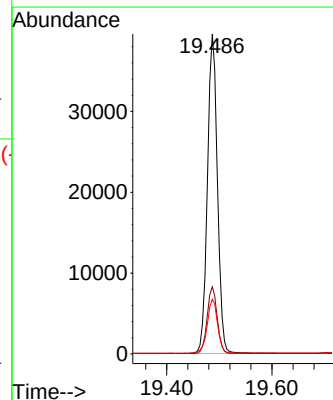
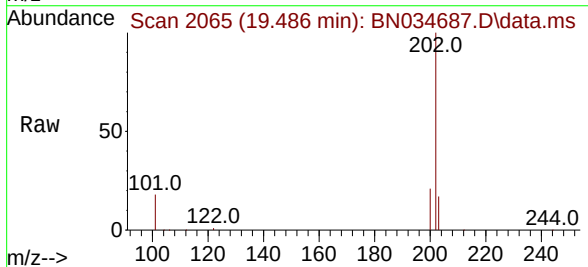
Tgt Ion:202 Resp: 51944

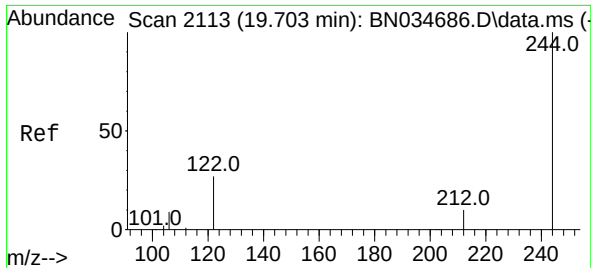
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.5 14.2 21.4

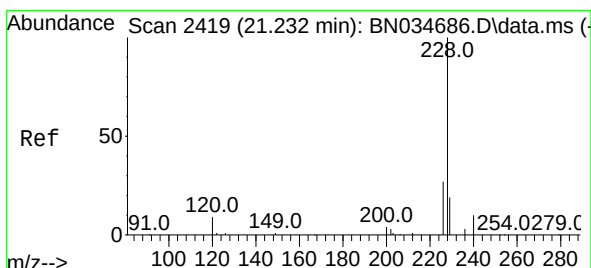
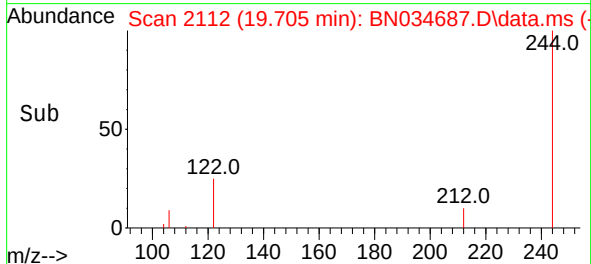
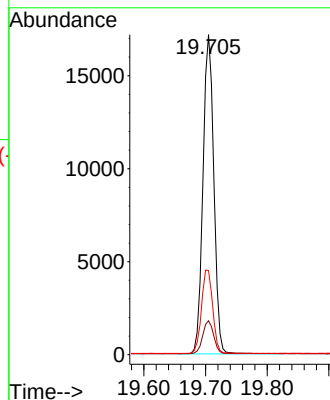
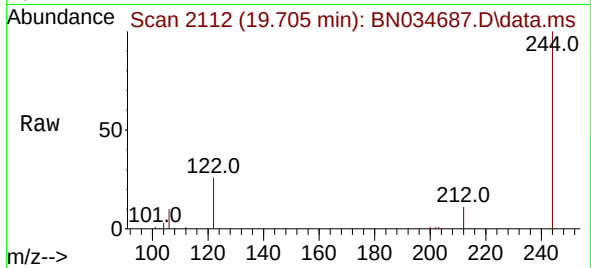




#31
 Terphenyl-d14
 Concen: 0.896 ng
 RT: 19.705 min Scan# 2113
 Delta R.T. 0.002 min
 Lab File: BN034687.D
 Acq: 24 Oct 2024 10:59

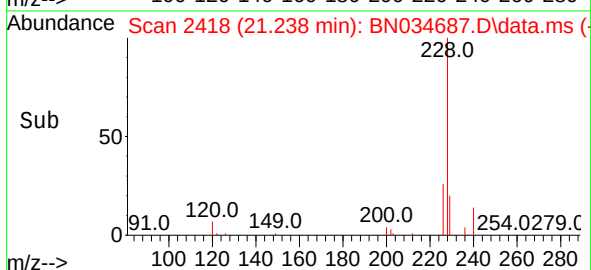
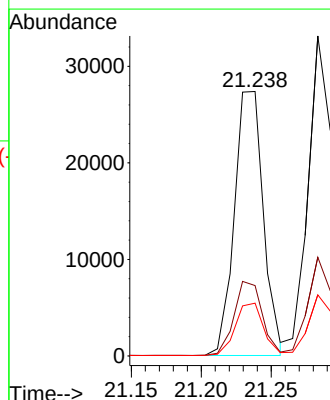
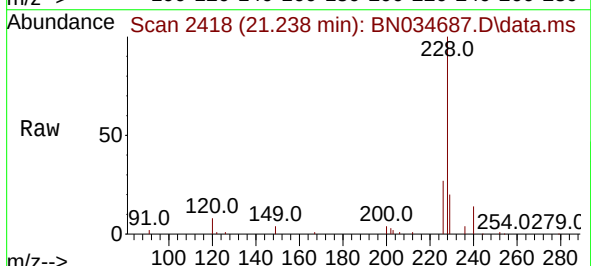
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

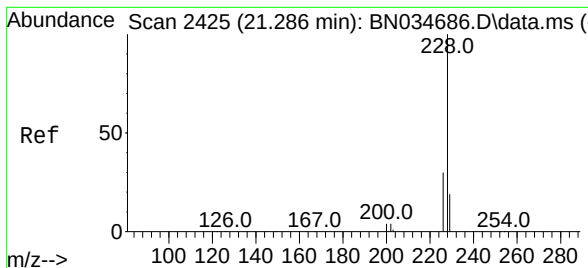
Tgt Ion:244 Resp: 20915
 Ion Ratio Lower Upper
 244 100
 212 10.6 8.6 13.0
 122 26.3 22.3 33.5



#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# 2423

Delta R.T. -0.002 min

Lab File: BN034687.D

Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

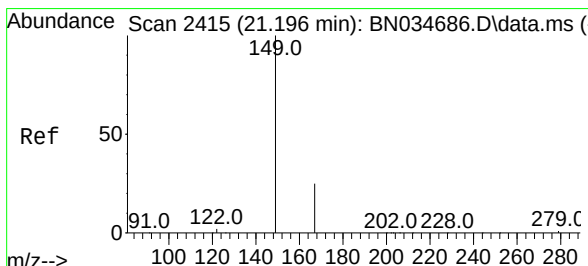
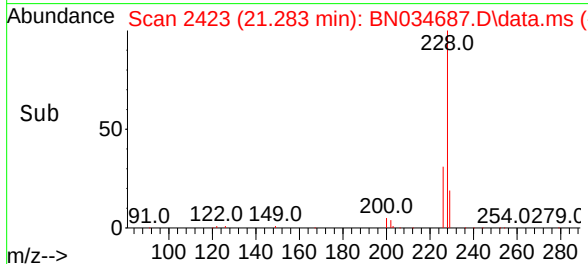
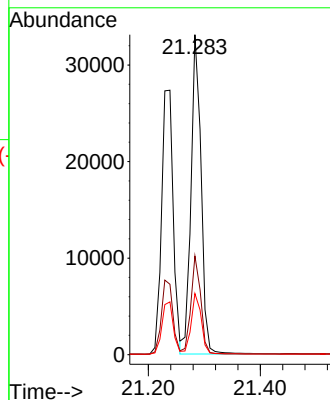
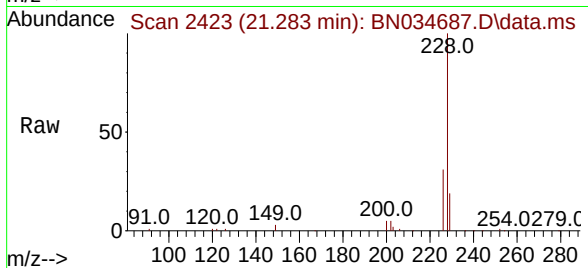
Tgt Ion:228 Resp: 41243

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

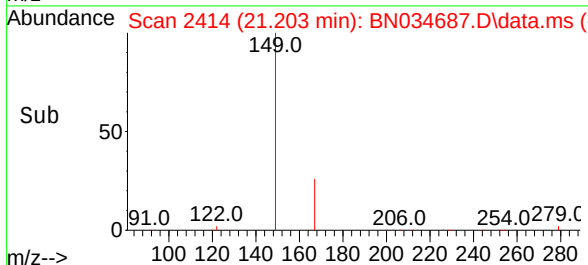
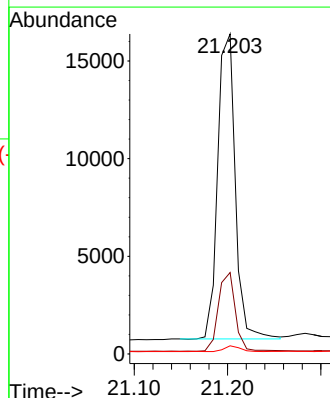
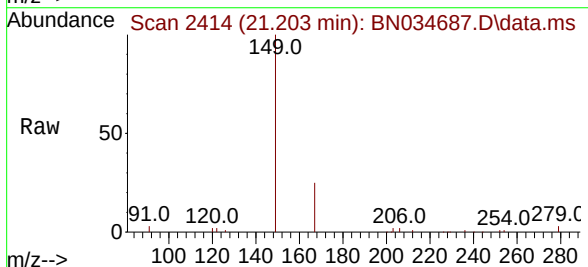
Tgt Ion:149 Resp: 20342

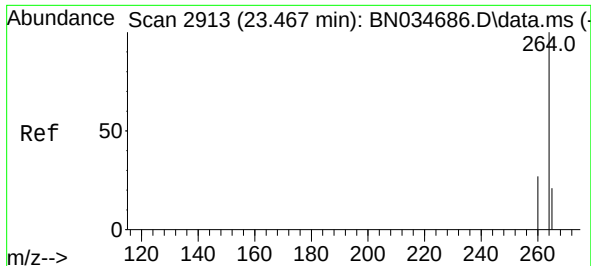
Ion Ratio Lower Upper

149 100

167 25.0 19.7 29.5

279 1.7 1.8 2.6#

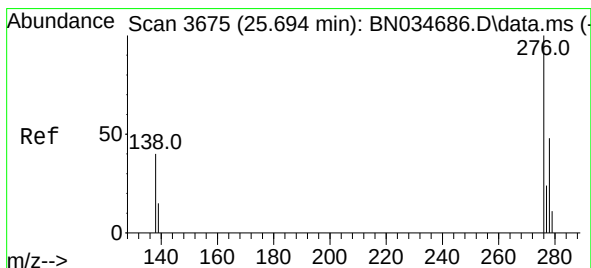
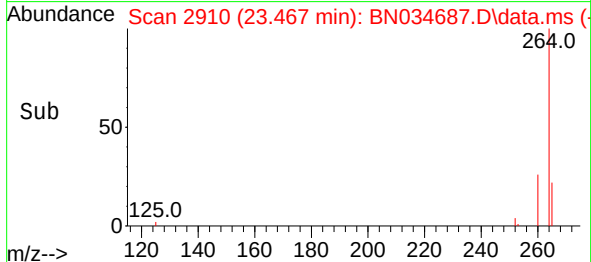
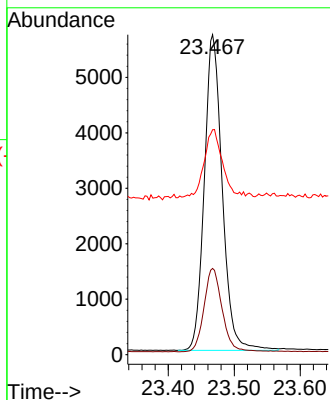
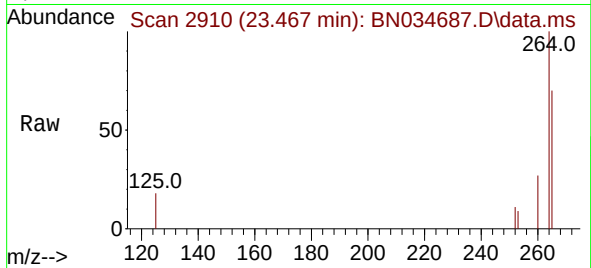




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.467 min Scan# 2913
Delta R.T. 0.001 min
Lab File: BN034687.D
Acq: 24 Oct 2024 10:59

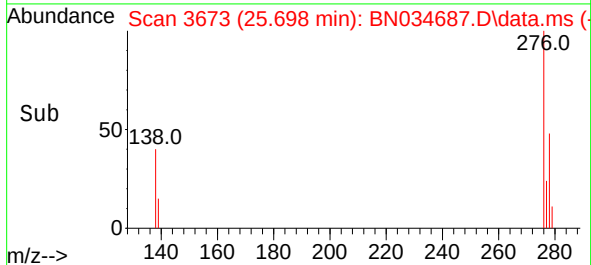
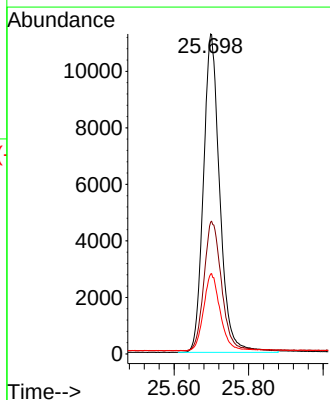
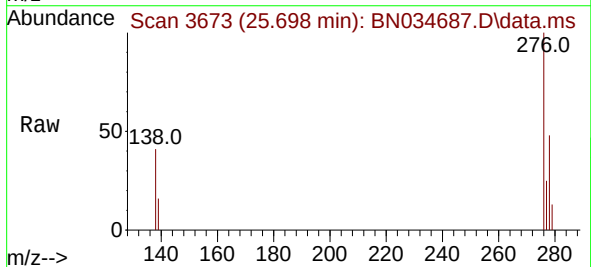
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

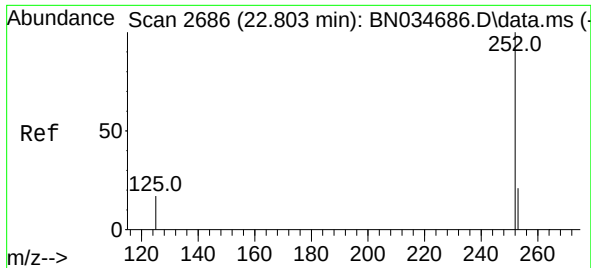
Tgt Ion:264 Resp: 10772
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 70.3 60.6 91.0



#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

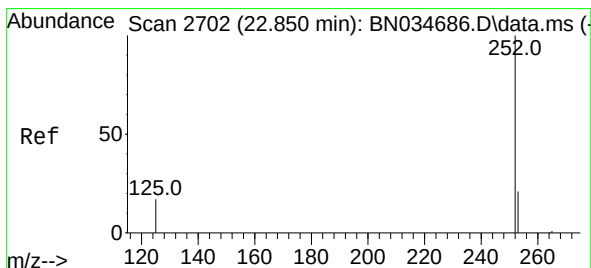
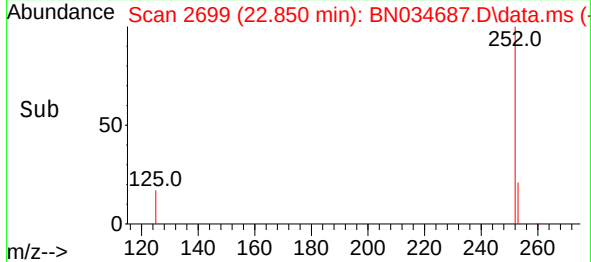
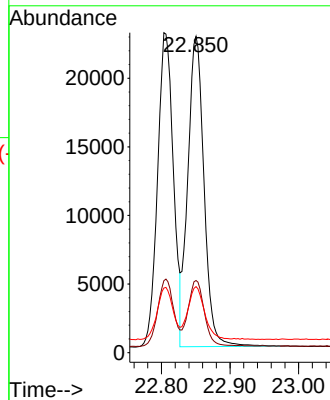
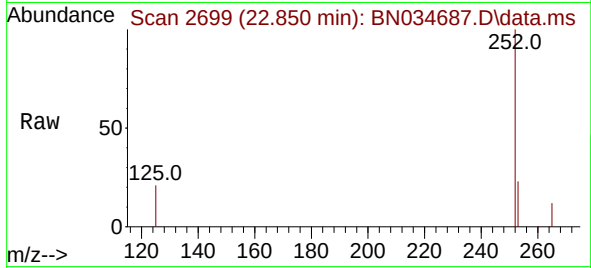
Tgt Ion:252 Resp: 37118

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

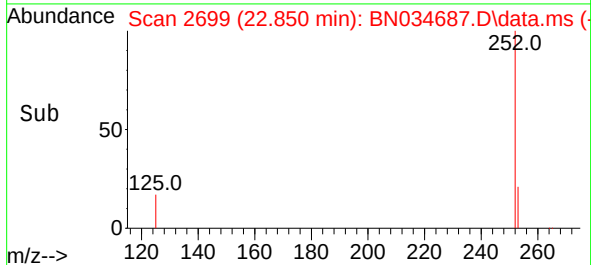
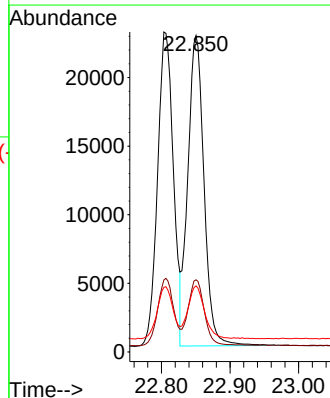
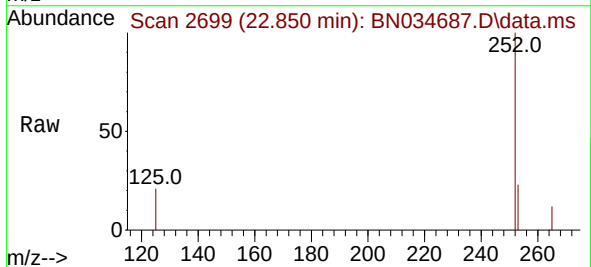
Tgt Ion:252 Resp: 37118

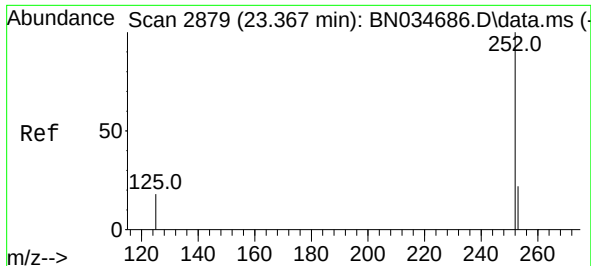
Ion Ratio Lower Upper

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

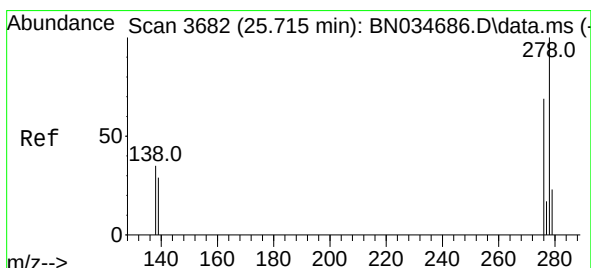
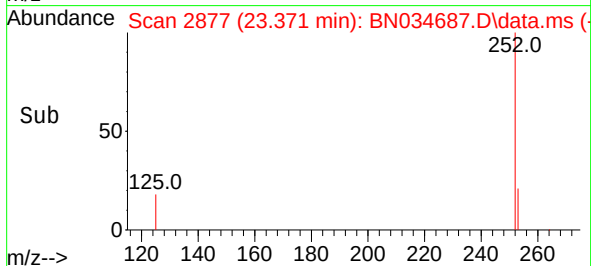
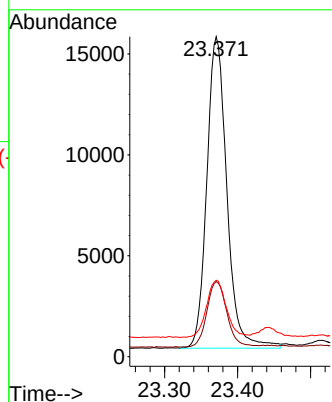
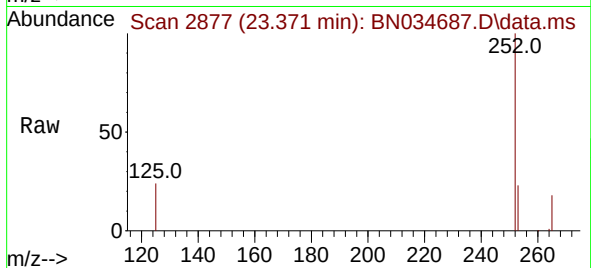
Tgt Ion:252 Resp: 29490

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

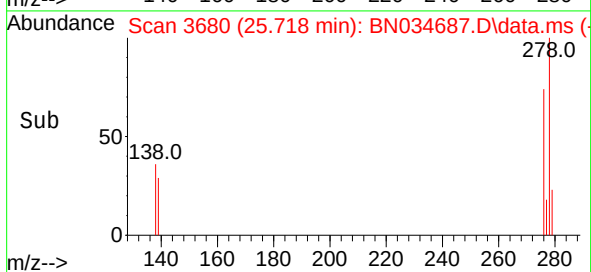
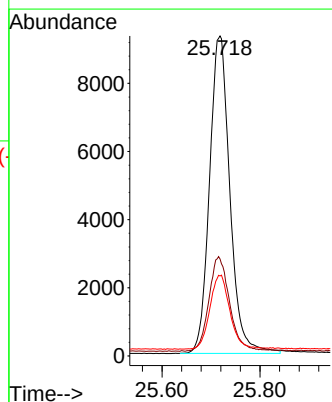
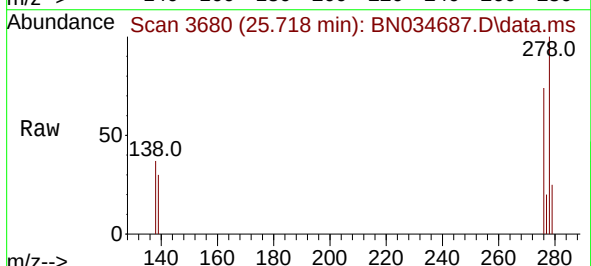
Tgt Ion:278 Resp: 26850

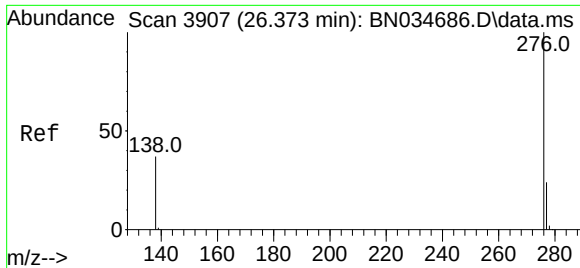
Ion Ratio Lower Upper

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# 3907

Delta R.T. 0.001 min

Lab File: BN034687.D

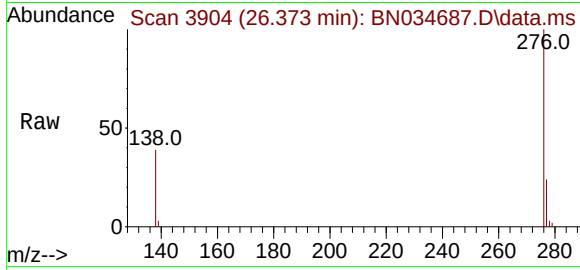
Acq: 24 Oct 2024 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



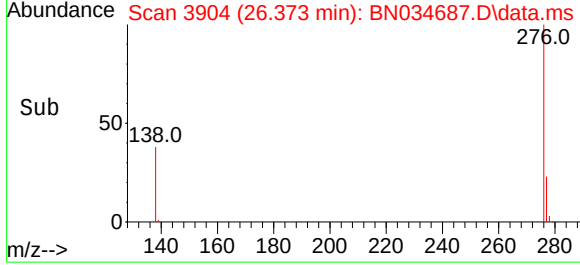
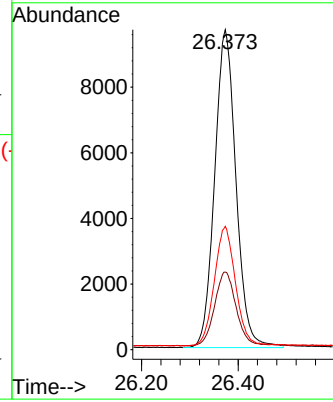
Tgt Ion:276 Resp: 29665

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)

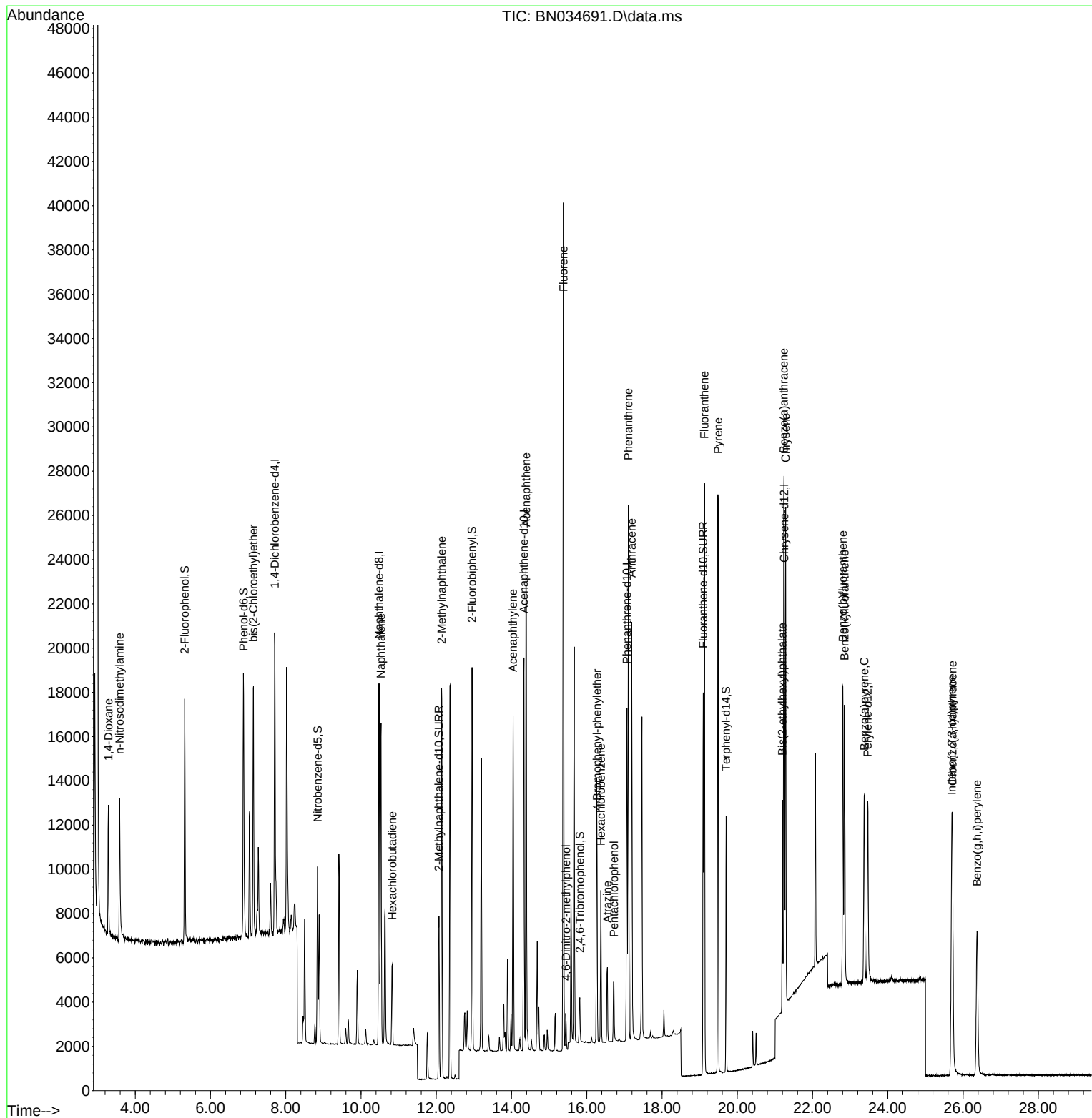
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	6674	0.400	ng	0.00
7) Naphthalene-d8	10.479	136	19848	0.400	ng	0.00
13) Acenaphthene-d10	14.329	164	10372	0.400	ng	0.00
19) Phenanthrene-d10	17.069	188	21015	0.400	ng	0.00
29) Chrysene-d12	21.250	240	12401	0.400	ng	0.00
35) Perylene-d12	23.466	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						Qvalue
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

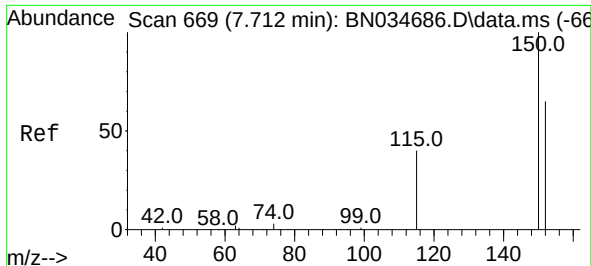
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

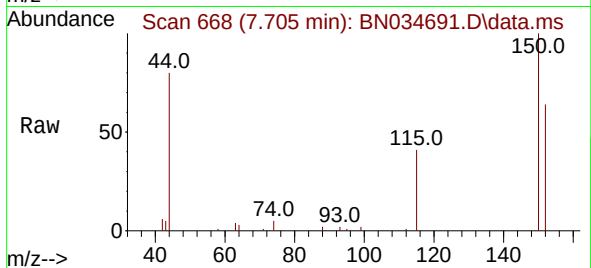
Quant Time: Oct 24 14:43:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 24 13:17:02 2024
Response via : Initial Calibration



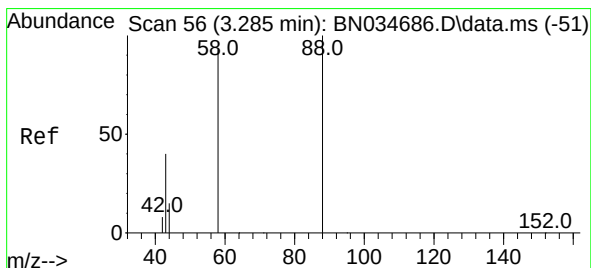
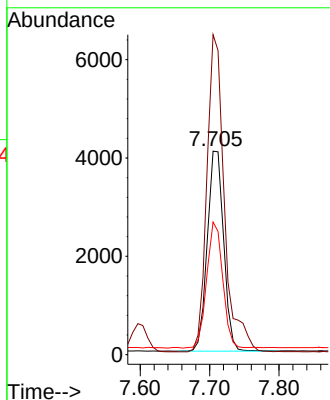
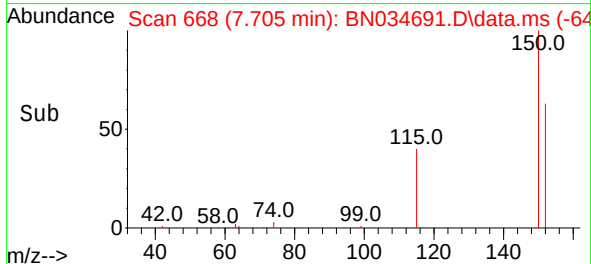


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.705 min Scan# 669
Delta R.T. -0.007 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

Instrument : BNA_N
ClientSampleId : ICVBN102424

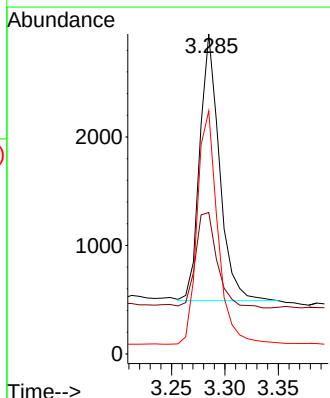
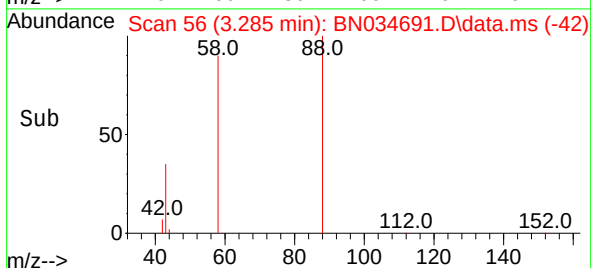
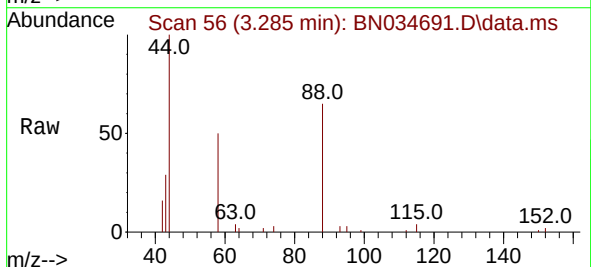


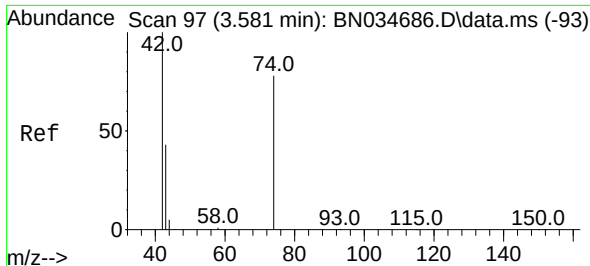
Tgt Ion:152 Resp: 6674
Ion Ratio Lower Upper
152 100
150 157.2 122.7 184.1
115 65.2 51.0 76.6



#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

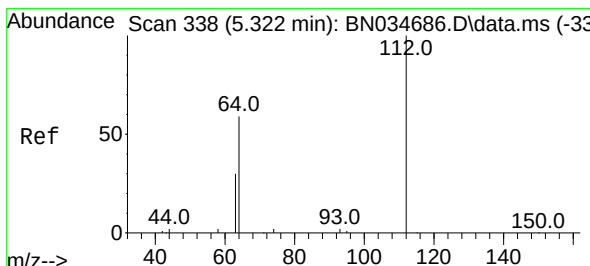
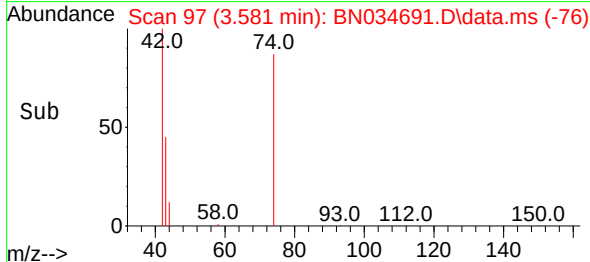
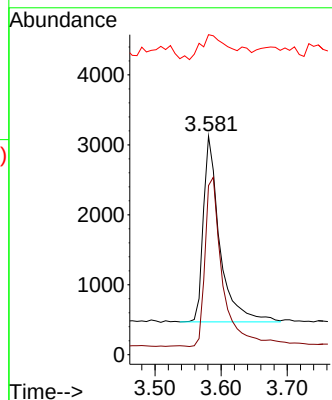
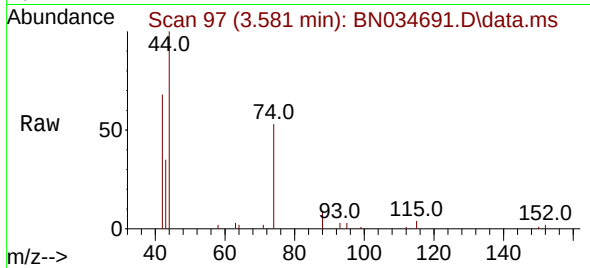




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.581 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

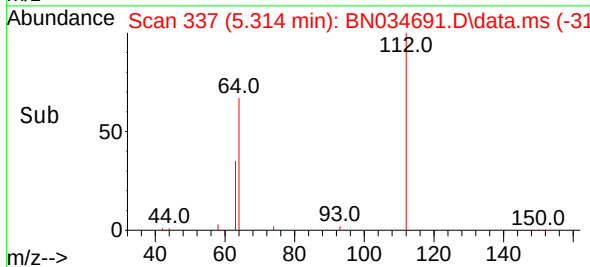
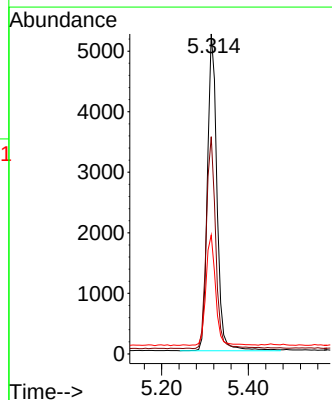
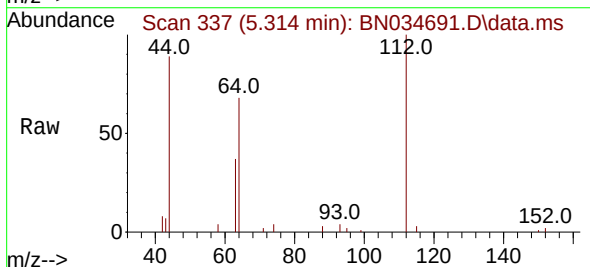
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

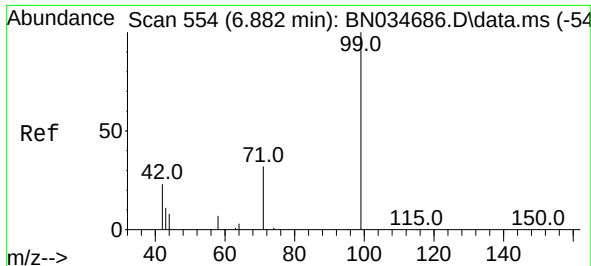
Tgt Ion: 42 Resp: 4576
Ion Ratio Lower Upper
42 100
74 98.6 77.2 115.8
44 20.5 13.4 20.2#



#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

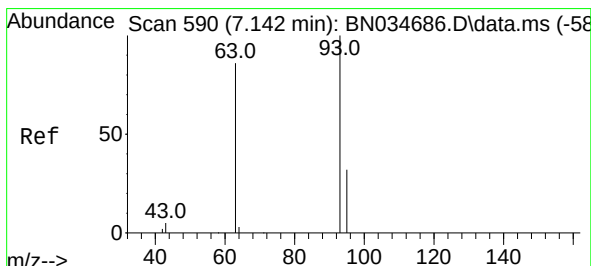
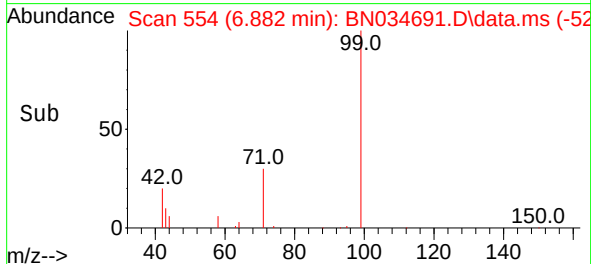
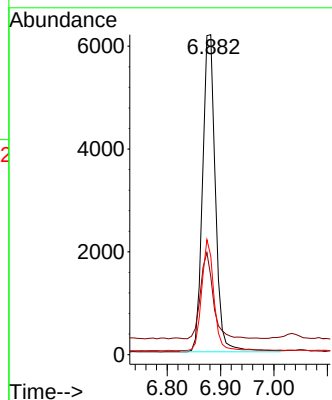
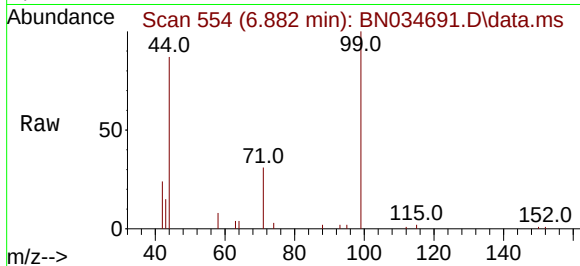




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.882 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

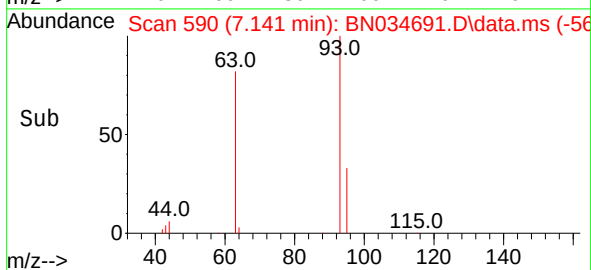
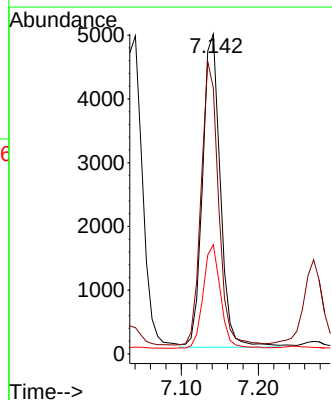
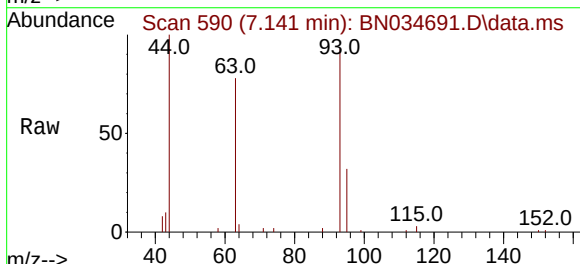
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

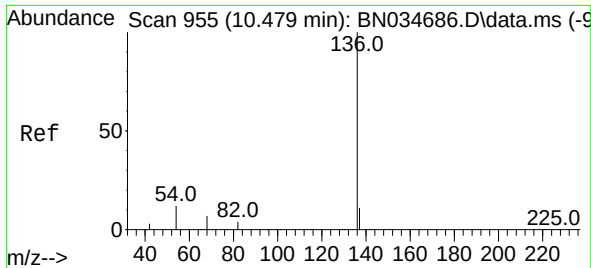
Tgt Ion: 99 Resp: 10366
Ion Ratio Lower Upper
99 100
42 27.0 21.8 32.8
71 33.3 26.6 40.0



#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

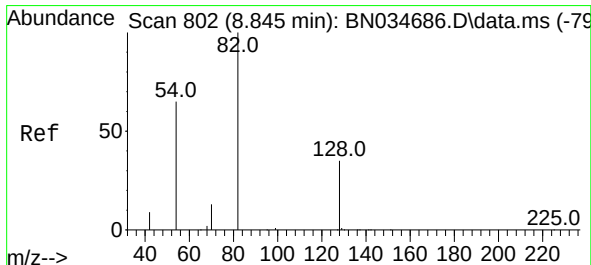
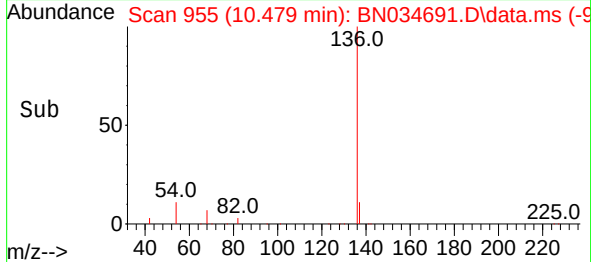
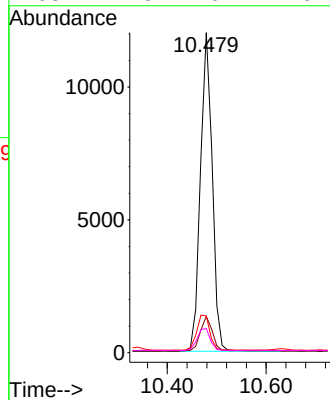
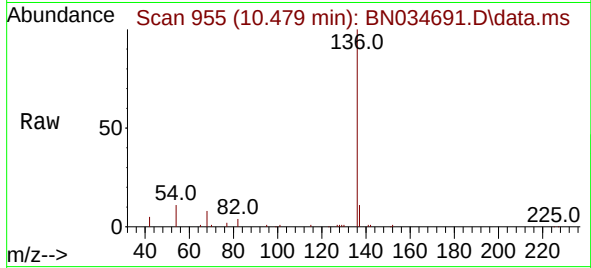




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.479 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

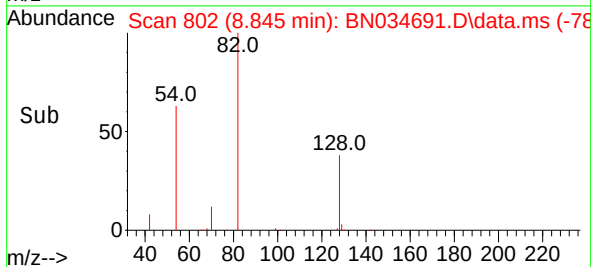
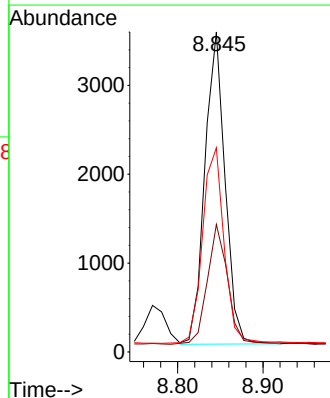
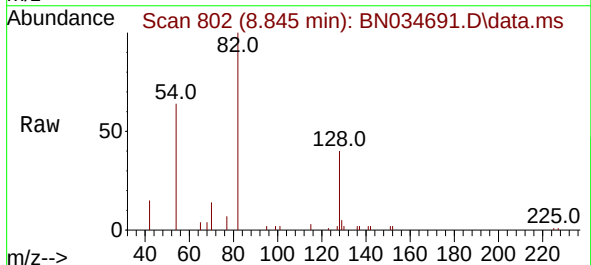
Instrument :
BNA_N
ClientSampleId :
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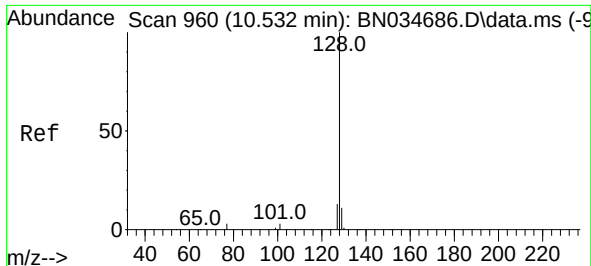
Tgt Ion:	136	Resp:	19848
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	11.4	9.8	14.8
68	7.5	6.4	9.6



#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

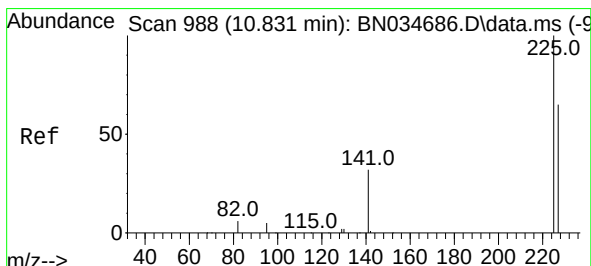
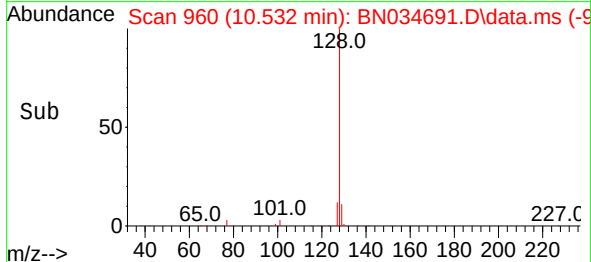
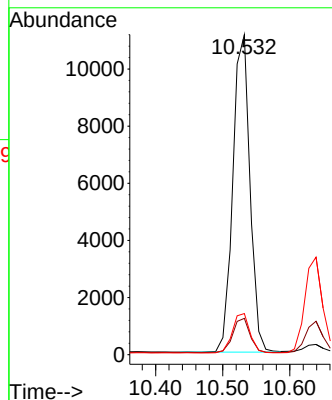
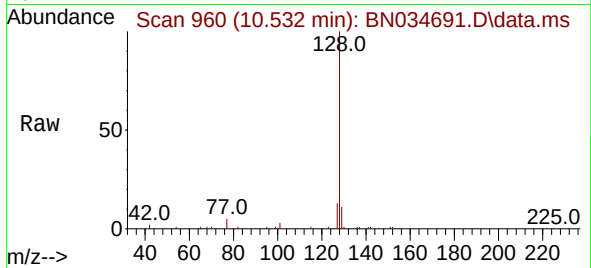




#9
Naphthalene
Concen: 0.358 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

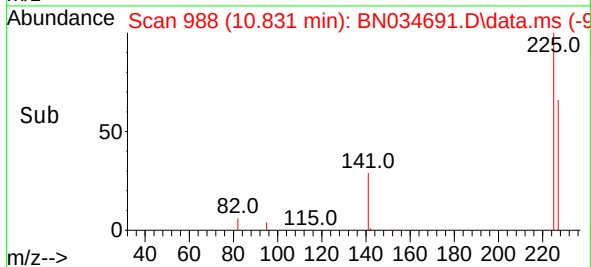
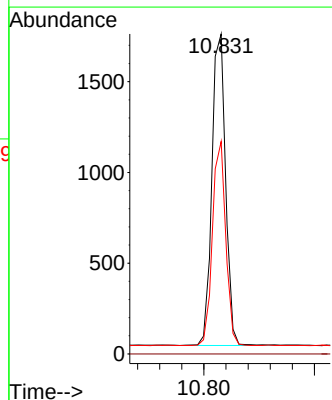
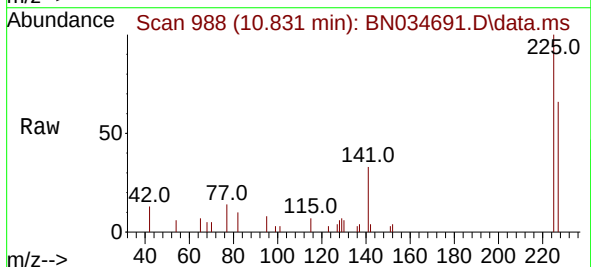
Instrument :
BNA_N
ClientSampleId :
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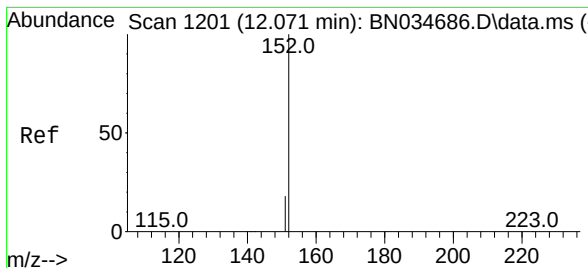
Tgt Ion:128 Resp: 19666
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 12.8 10.5 15.7



#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

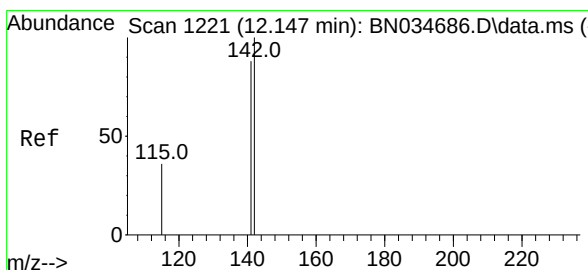
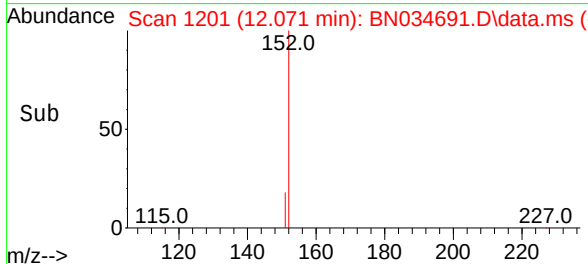
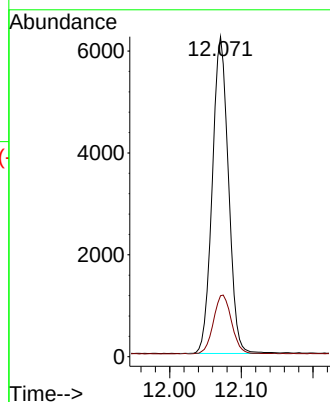
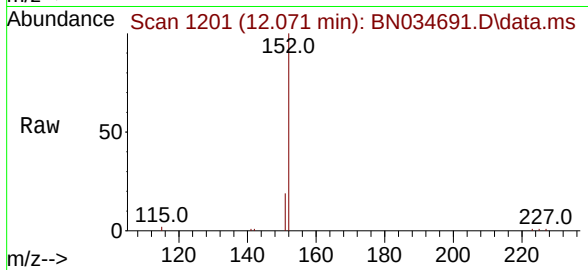




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

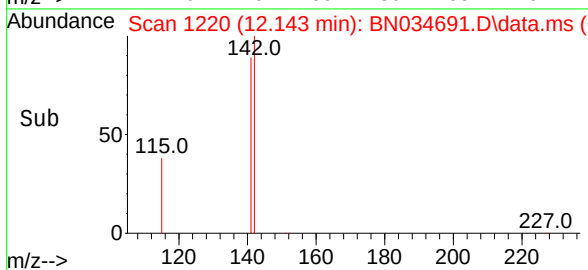
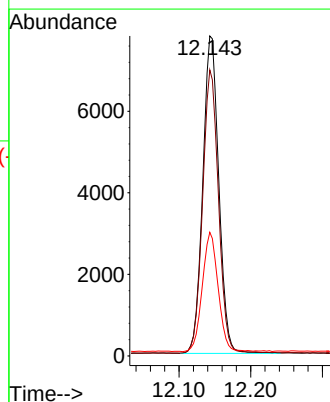
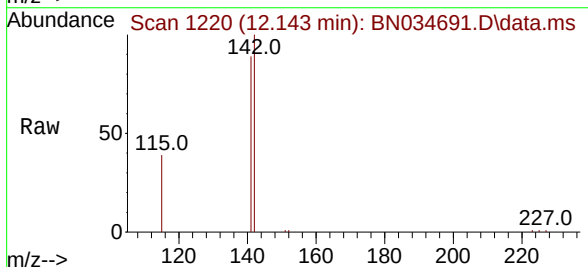
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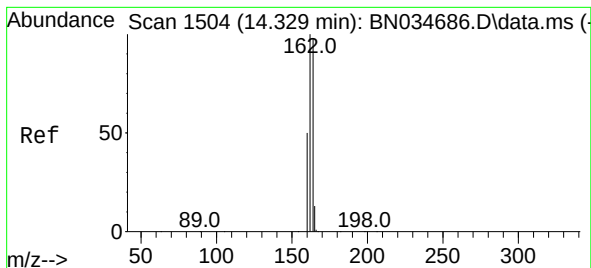
Tgt Ion:152 Resp: 9741
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#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

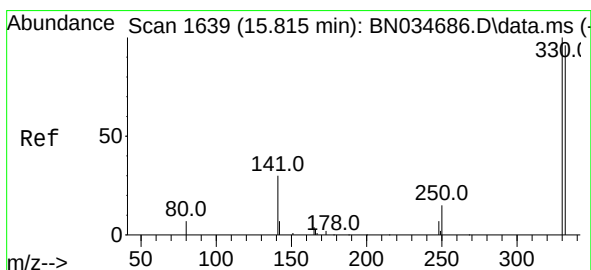
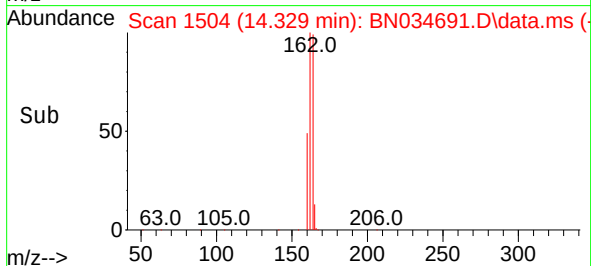
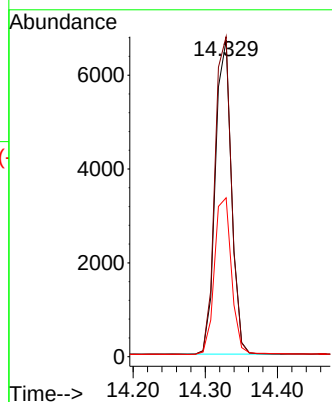
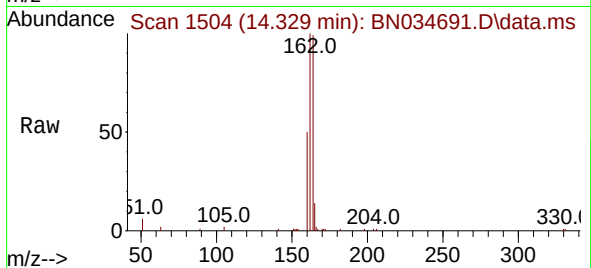
Tgt Ion:164 Resp: 10372

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

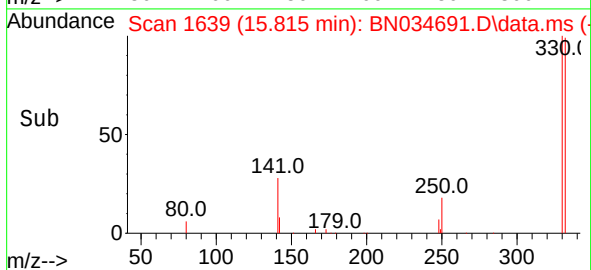
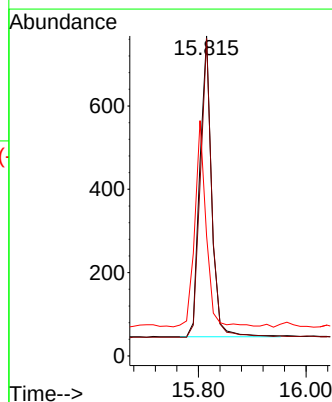
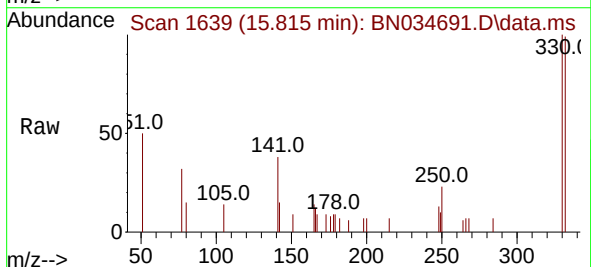
Tgt Ion:330 Resp: 1099

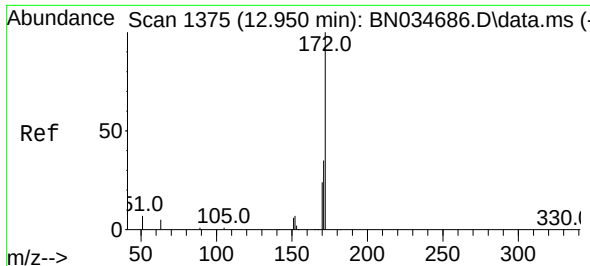
Ion Ratio Lower Upper

330 100

332 96.5 76.6 115.0

141 66.2 54.6 81.8

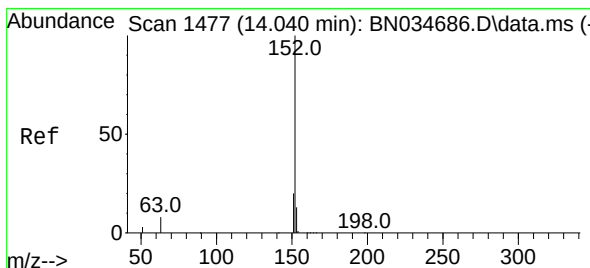
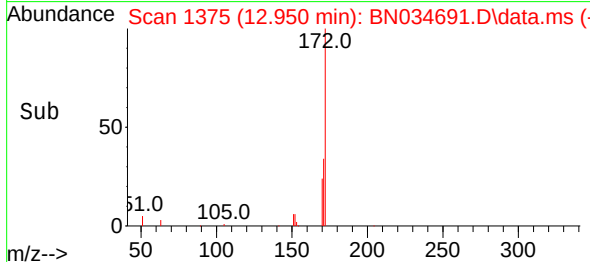
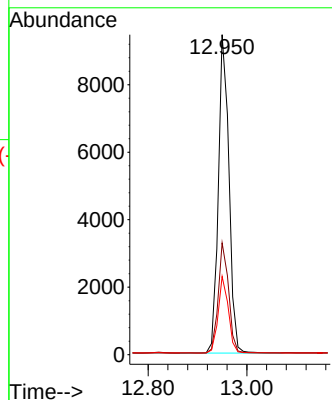
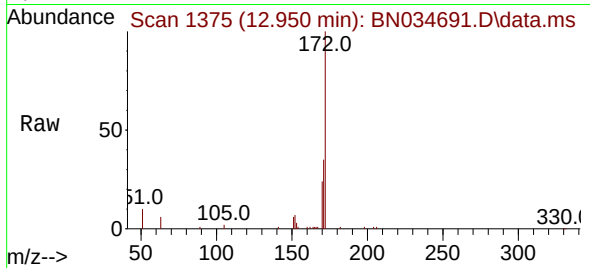




#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 12.950 min Scan# 1375
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

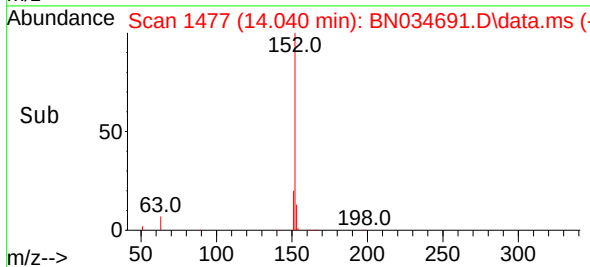
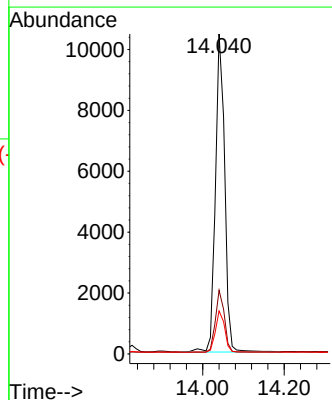
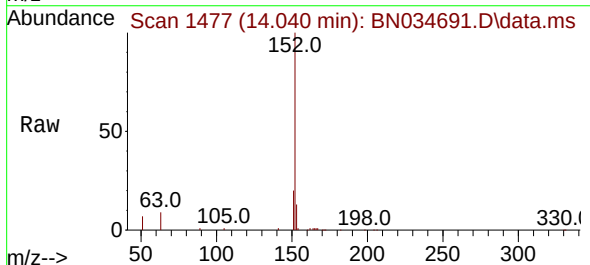
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

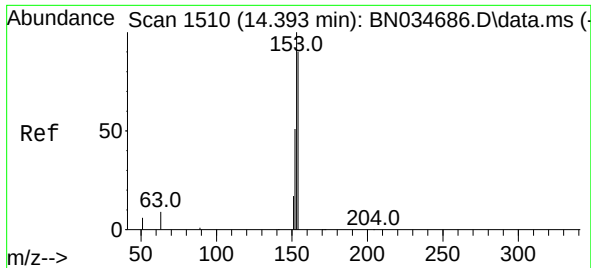
Tgt Ion:172 Resp: 14035
Ion Ratio Lower Upper
172 100
171 35.0 28.3 42.5
170 24.5 19.8 29.6



#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

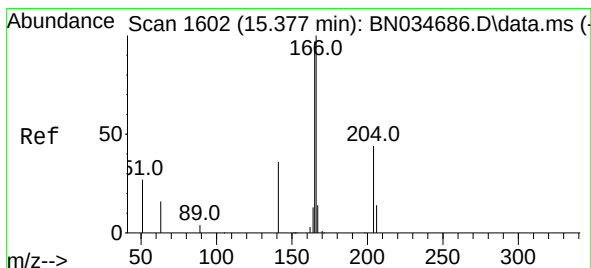
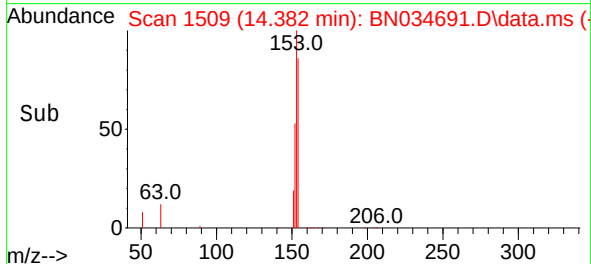
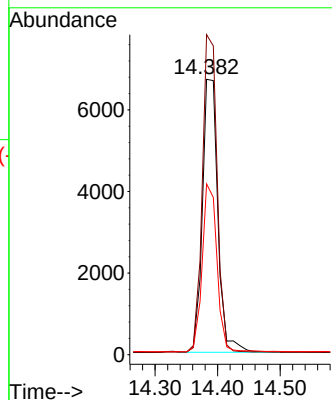
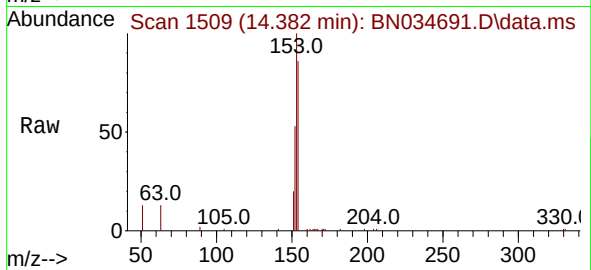




#17
Acenaphthene
Concen: 0.335 ng
RT: 14.382 min Scan# 1509
Delta R.T. -0.011 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

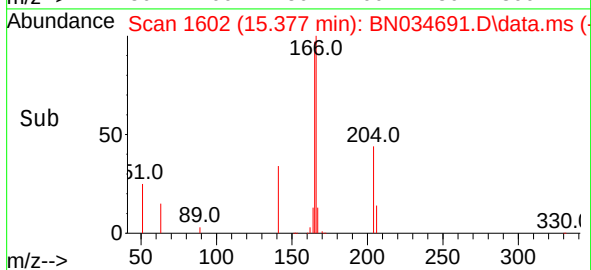
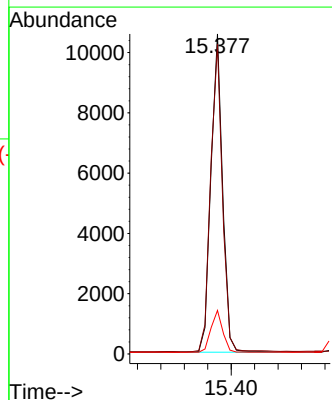
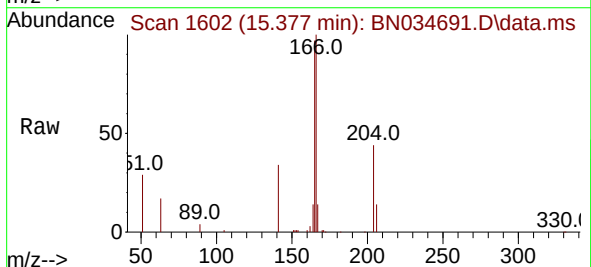
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

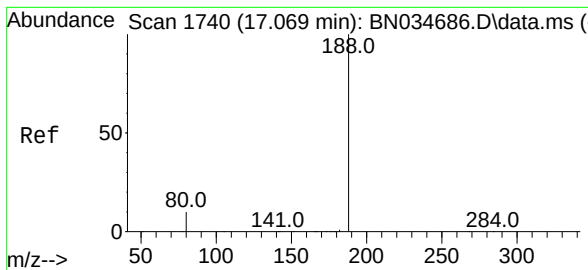
Tgt Ion:154 Resp: 11510
Ion Ratio Lower Upper
154 100
153 111.6 88.2 132.2
152 58.6 46.9 70.3



#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

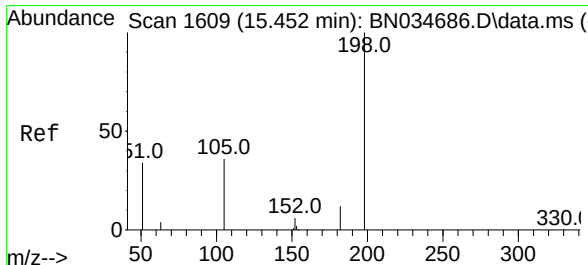
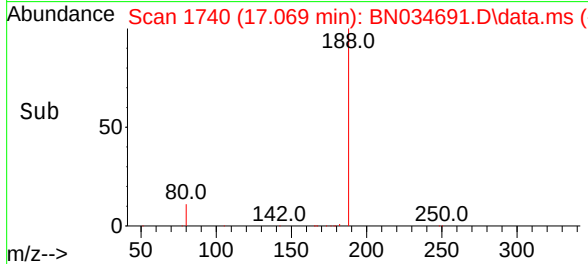
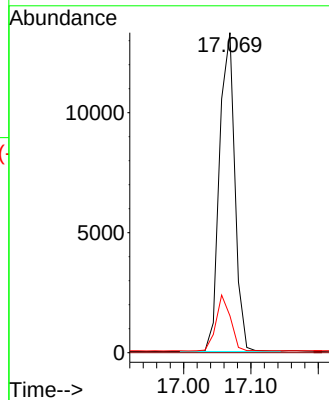
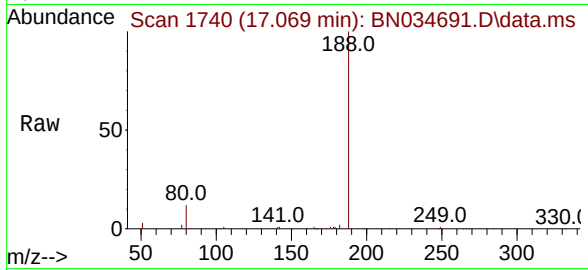




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.069 min Scan# 1740
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

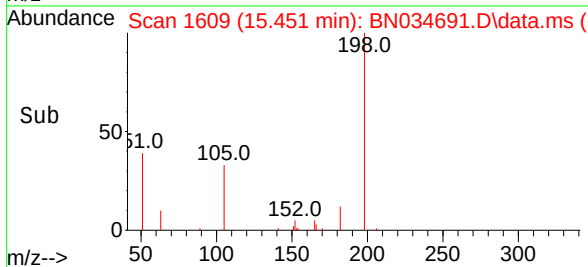
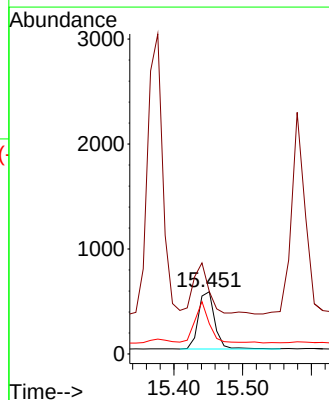
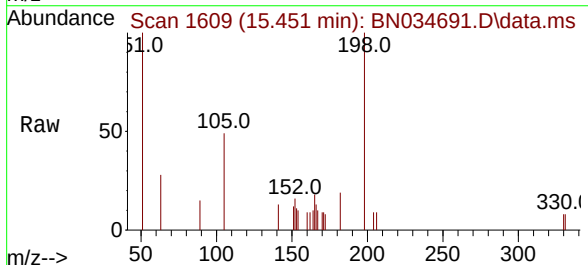
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

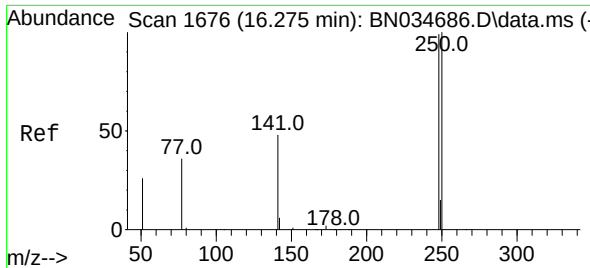
Tgt Ion:188 Resp: 21015
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 8.9 13.3



#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

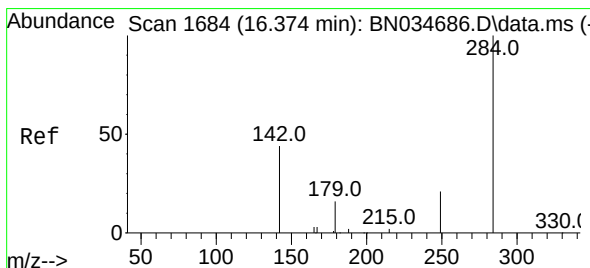
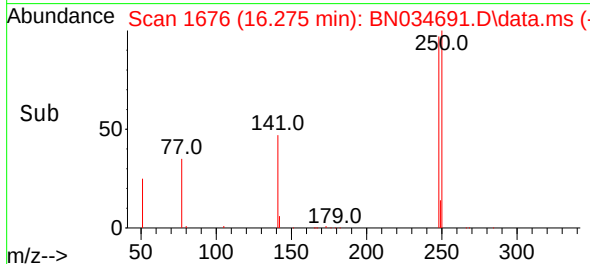
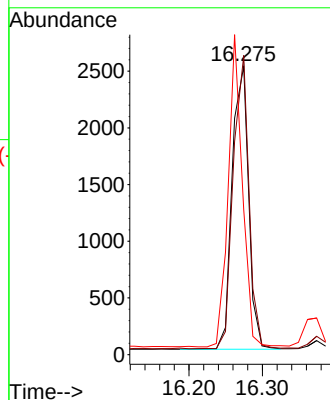
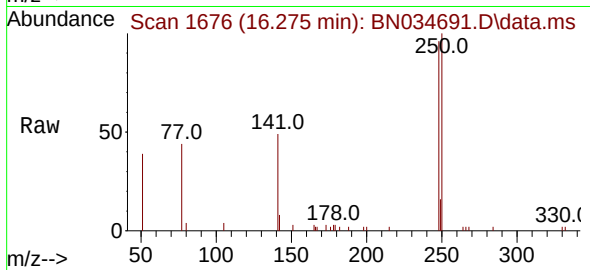




#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

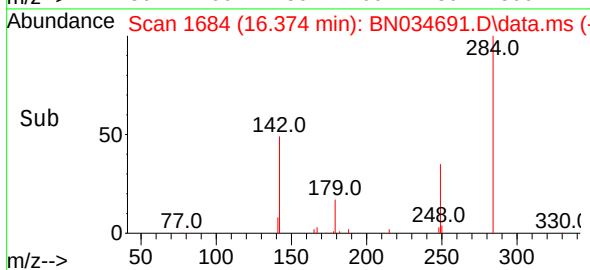
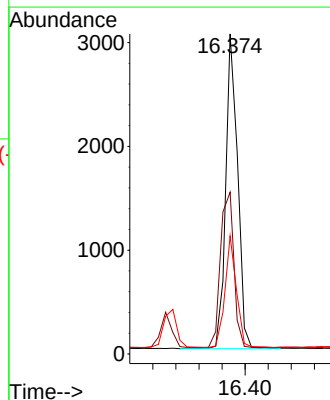
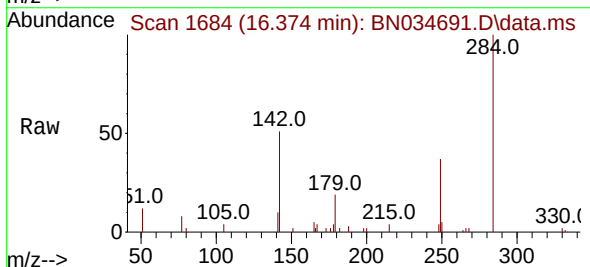
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

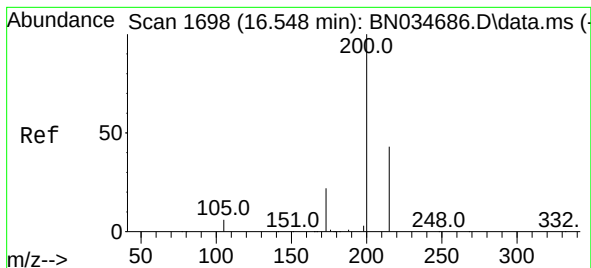
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.8	80.9	121.3
141	50.3	40.5	60.7



#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	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

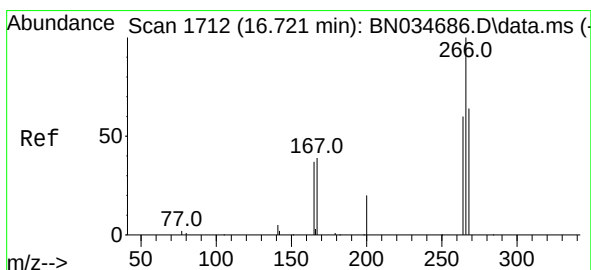
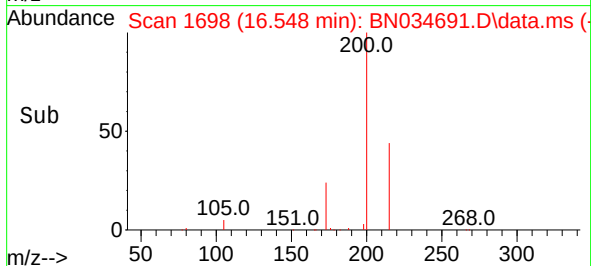
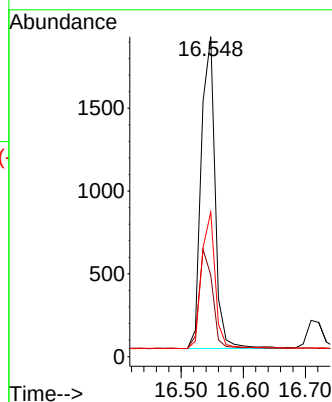
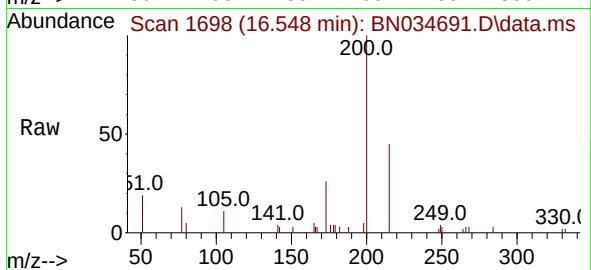
Tgt Ion:200 Resp: 2928

Ion Ratio Lower Upper

200 100

173 25.5 19.7 29.5

215 45.1 35.7 53.5



#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

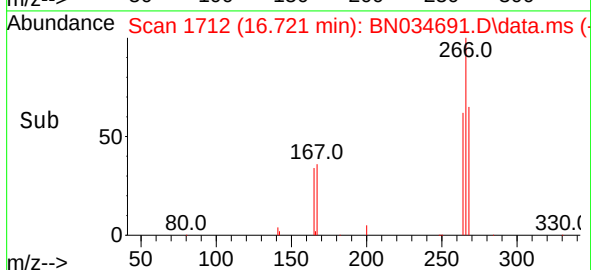
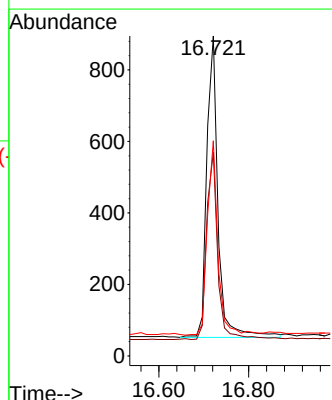
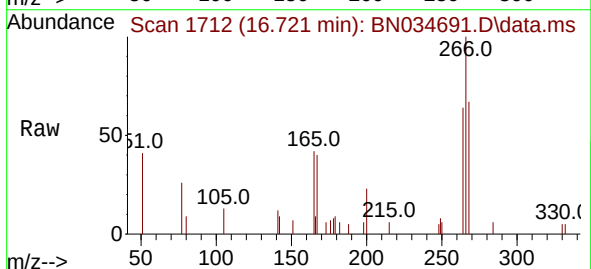
Tgt Ion:266 Resp: 1463

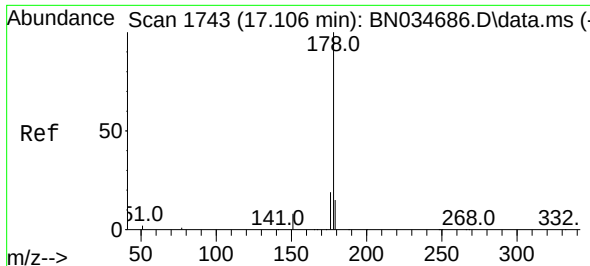
Ion Ratio Lower Upper

266 100

264 61.6 49.4 74.2

268 61.0 50.5 75.7

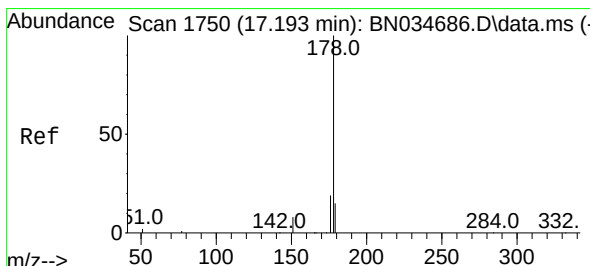
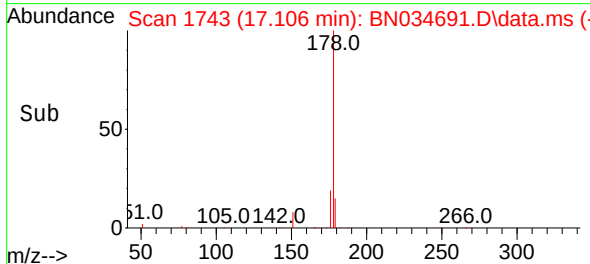
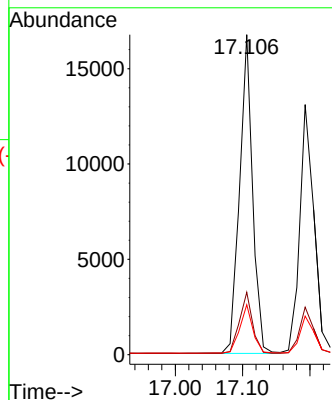
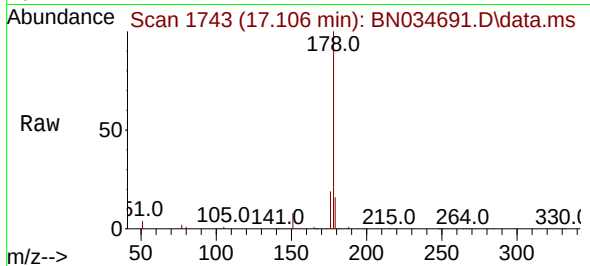




#25
Phenanthrene
Concen: 0.357 ng
RT: 17.106 min Scan# 1743
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

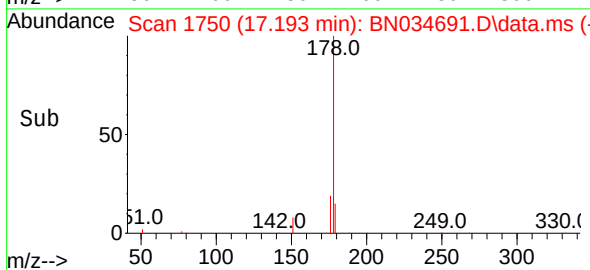
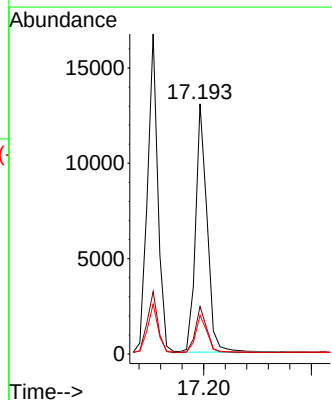
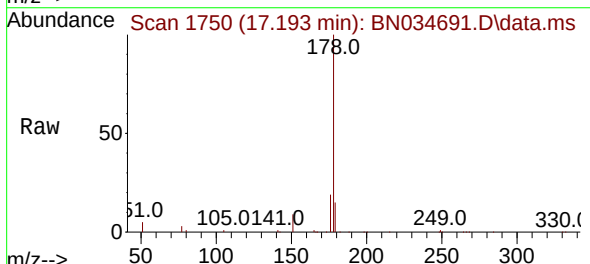
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

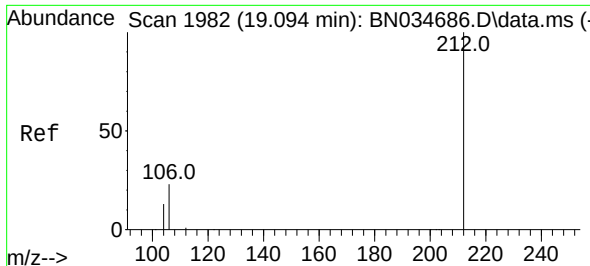
Tgt Ion:178 Resp: 22550
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.2 18.4



#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

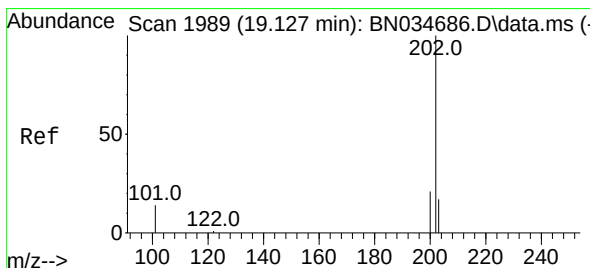
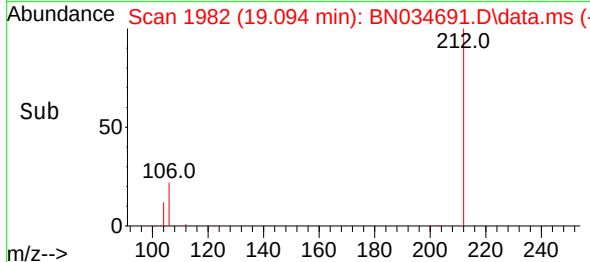
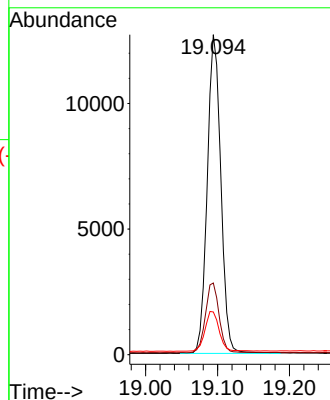
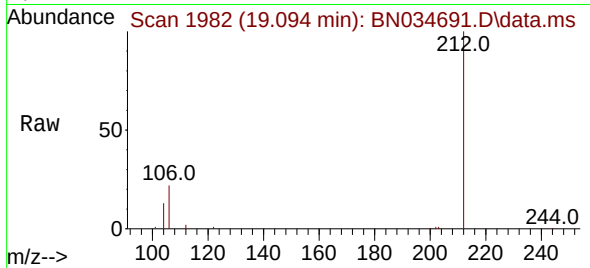




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.094 min Scan# 1982
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

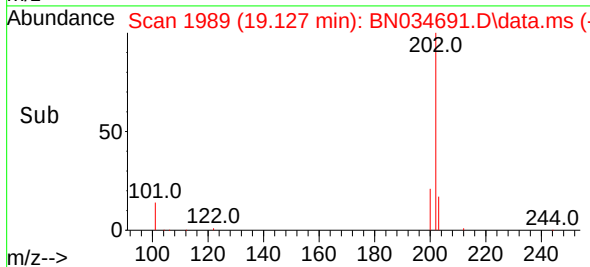
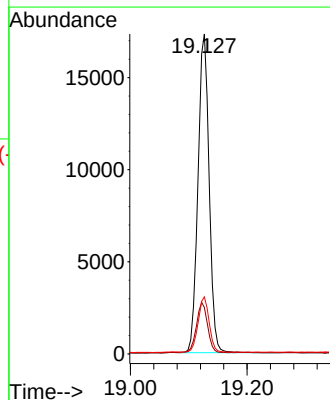
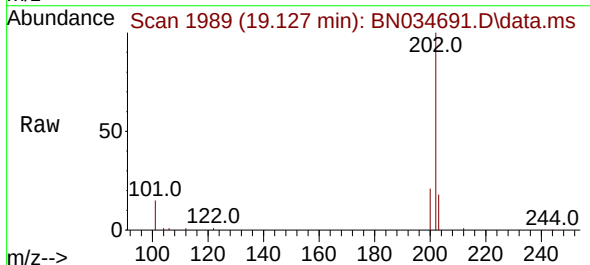
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

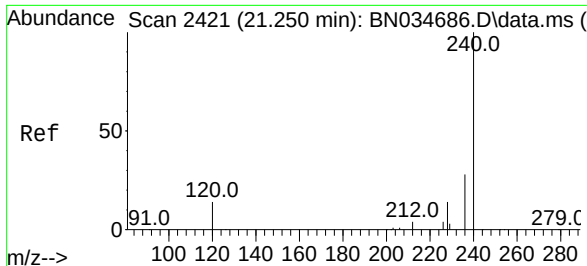
Tgt Ion:212 Resp: 16566
Ion Ratio Lower Upper
212 100
106 22.2 17.8 26.8
104 13.1 10.2 15.4



#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

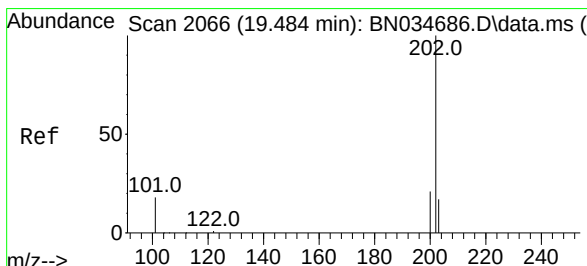
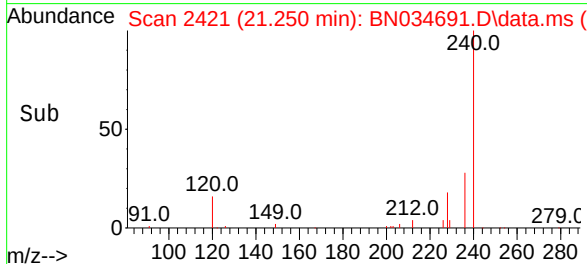
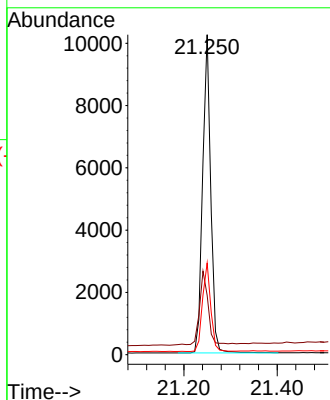
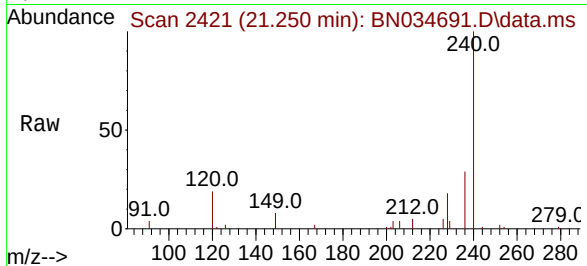




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.250 min Scan# 2421
Delta R.T. -0.000 min
Lab File: BN034691.D
Acq: 24 Oct 2024 14:14

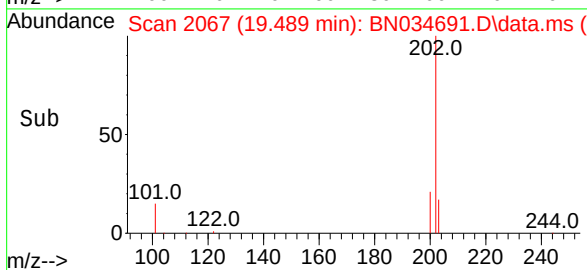
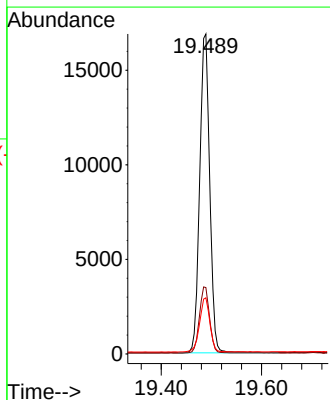
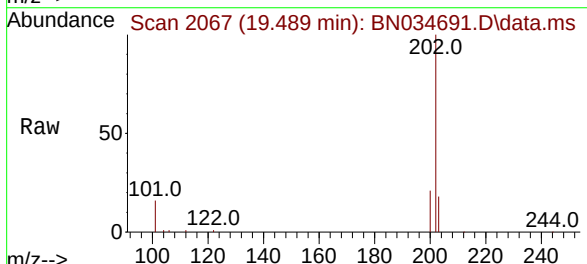
Instrument :
BNA_N
ClientSampleId :
ICVBN102424

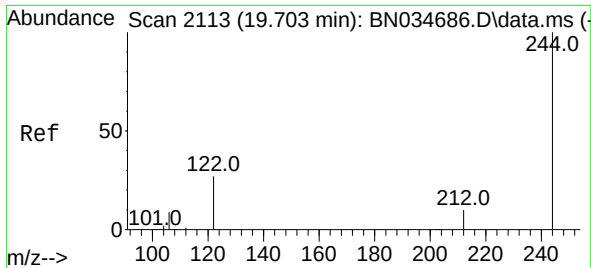
Tgt Ion:240 Resp: 12401
Ion Ratio Lower Upper
240 100
120 18.6 14.2 21.2
236 28.6 23.1 34.7



#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

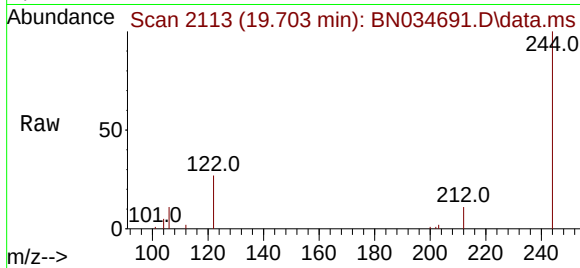
Tgt Ion:202 Resp: 23297
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.7 14.2 21.4



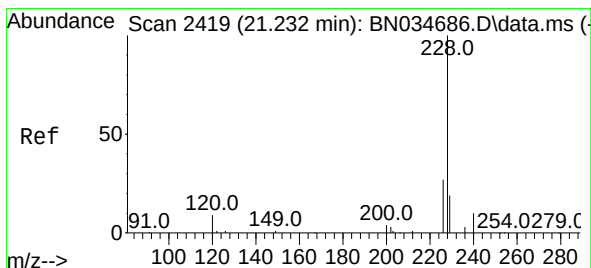
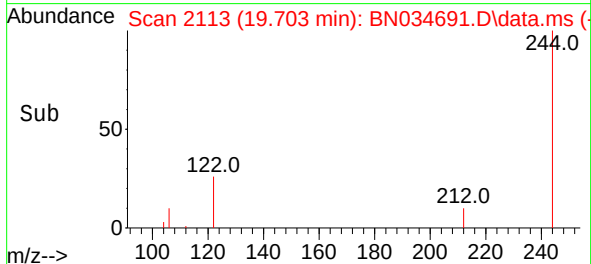
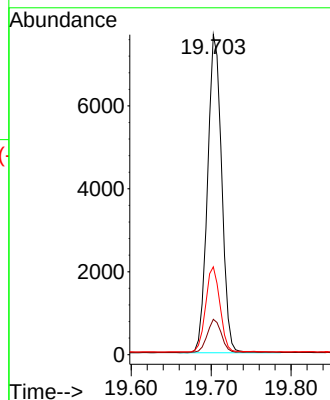


#31
 Terphenyl-d14
 Concen: 0.371 ng
 RT: 19.703 min Scan# 2113
 Delta R.T. -0.000 min
 Lab File: BN034691.D
 Acq: 24 Oct 2024 14:14

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102424

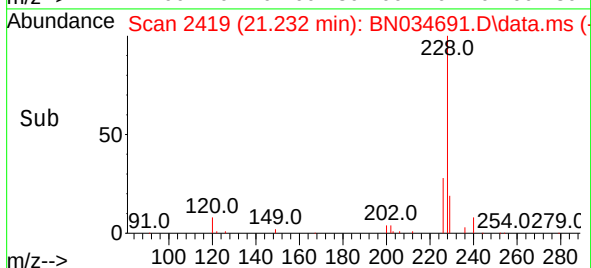
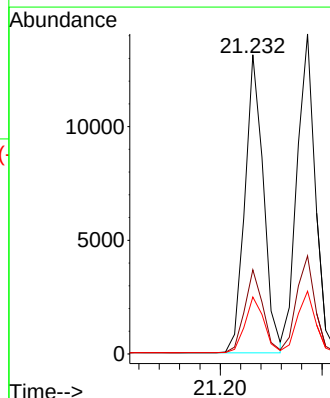
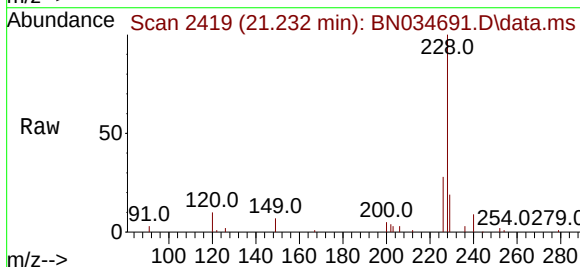


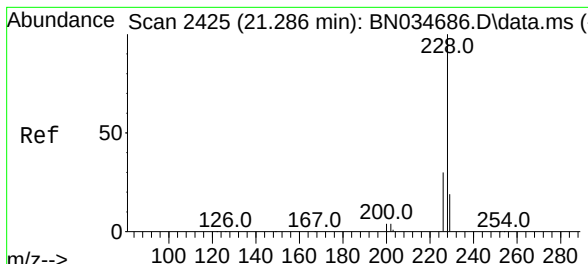
Tgt Ion:244 Resp: 9400
 Ion Ratio Lower Upper
 244 100
 212 11.1 8.6 13.0
 122 27.4 22.3 33.5



#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

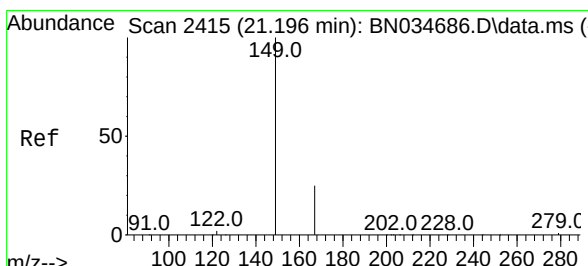
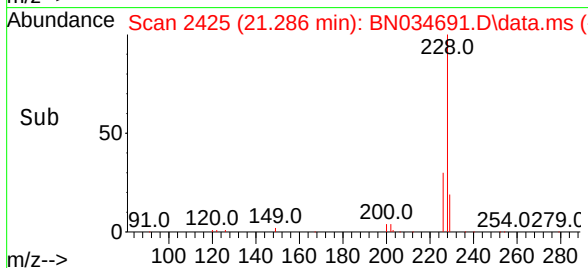
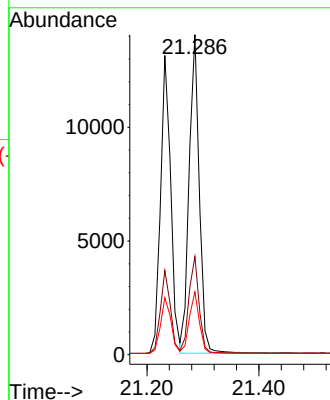
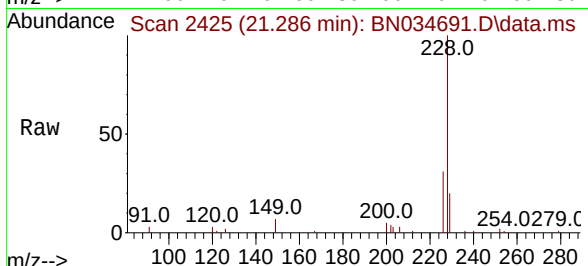
Tgt Ion:228 Resp: 17696

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

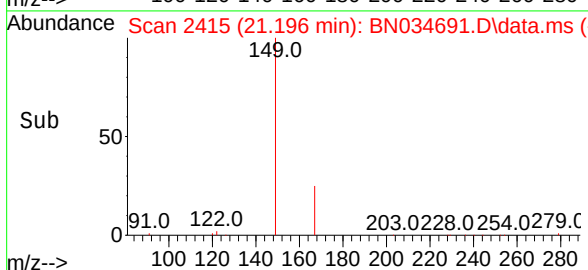
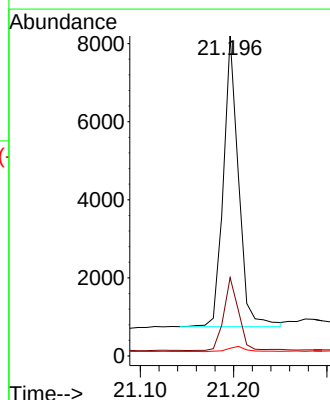
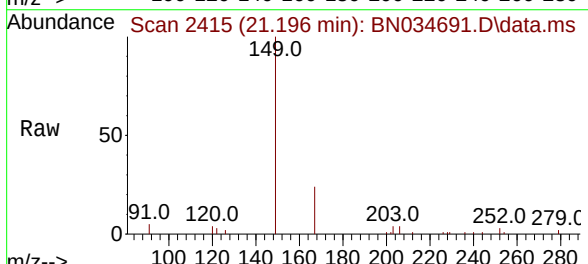
Tgt Ion:149 Resp: 8375

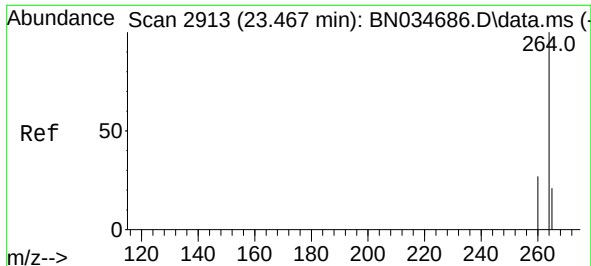
Ion Ratio Lower Upper

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

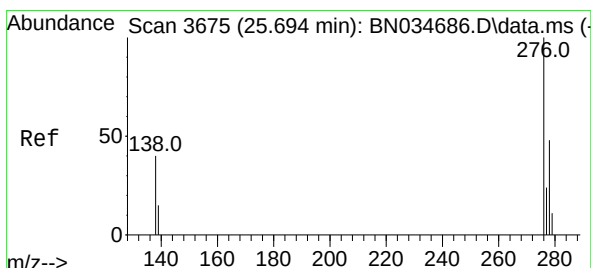
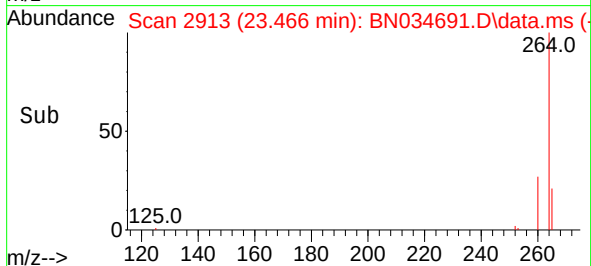
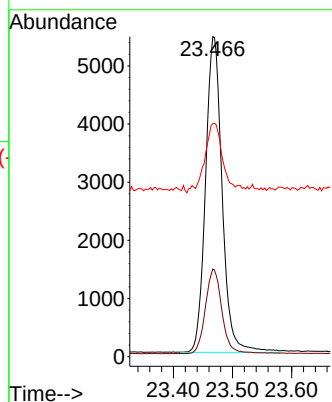
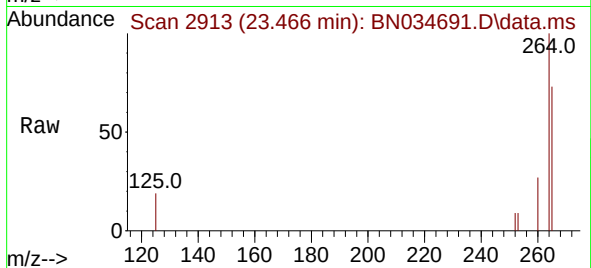
Tgt Ion:264 Resp: 10594

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

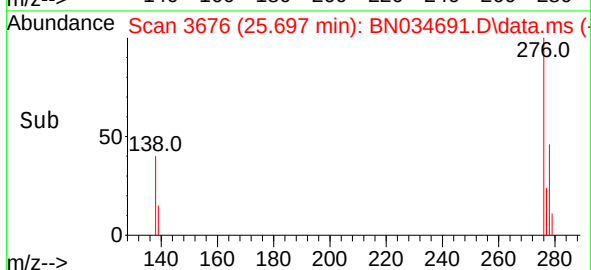
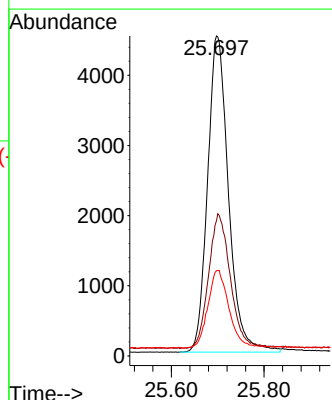
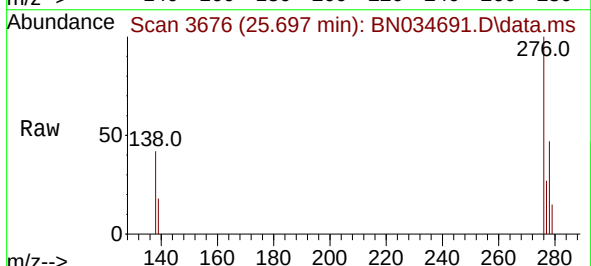
Tgt Ion:276 Resp: 14157

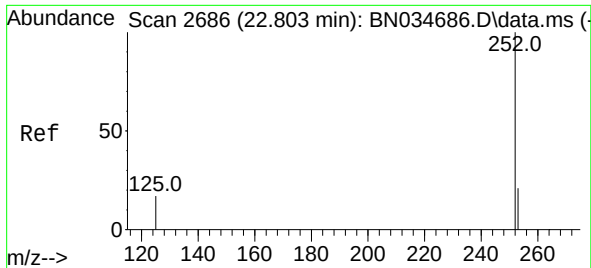
Ion Ratio Lower Upper

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

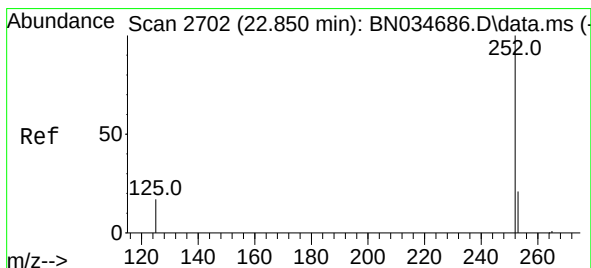
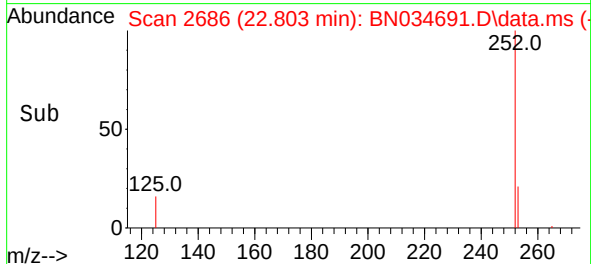
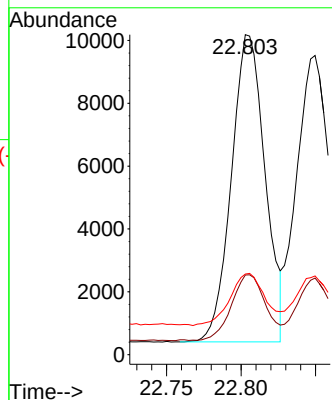
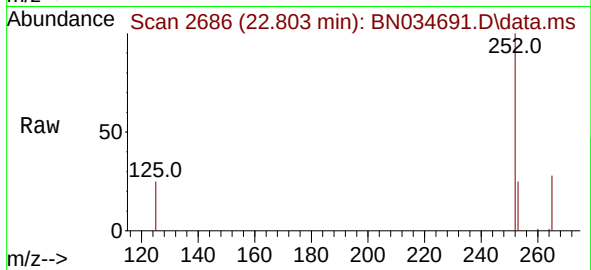
Tgt Ion:252 Resp: 15350

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

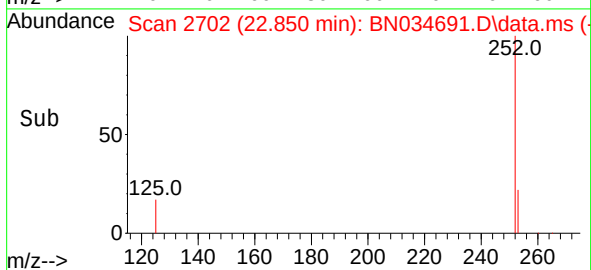
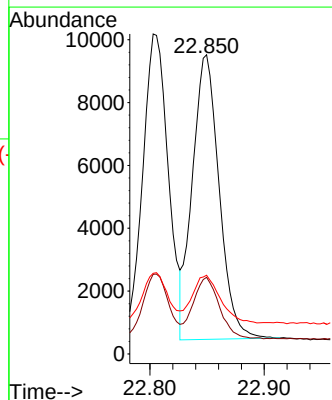
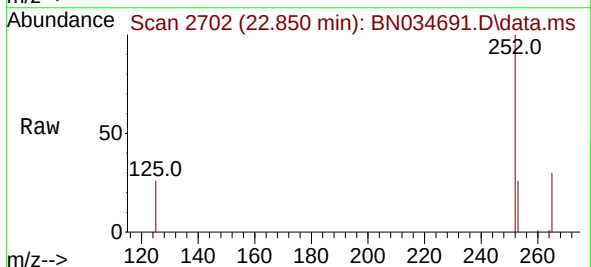
Tgt Ion:252 Resp: 14742

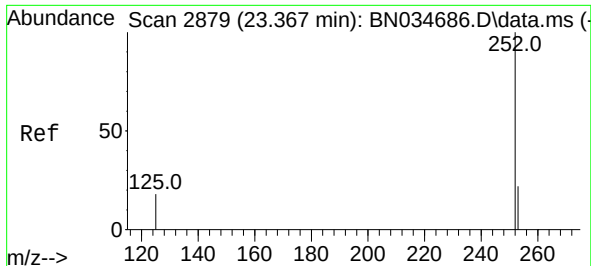
Ion Ratio Lower Upper

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

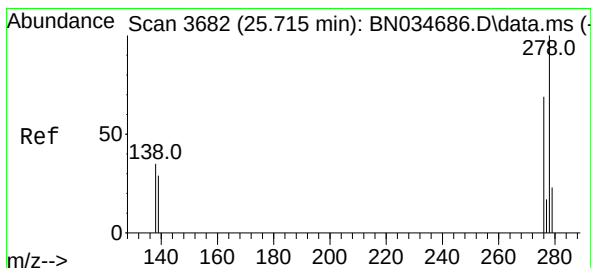
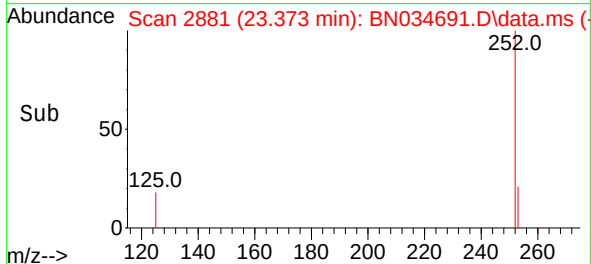
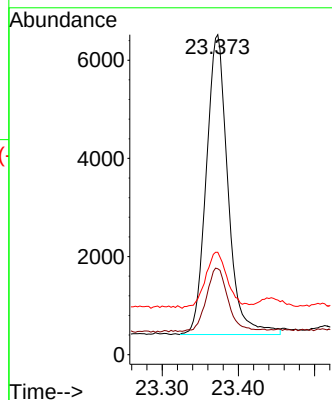
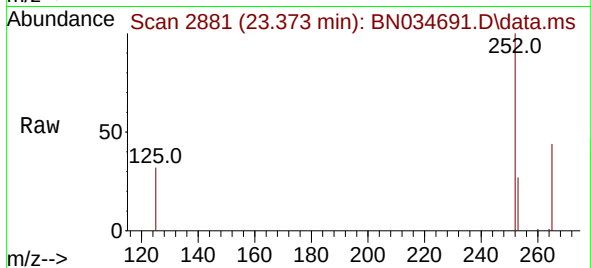
Tgt Ion:252 Resp: 12054

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

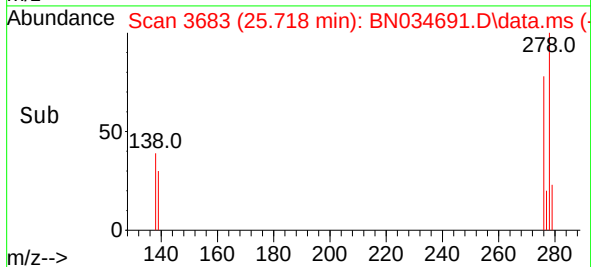
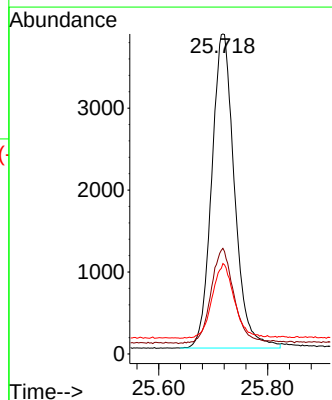
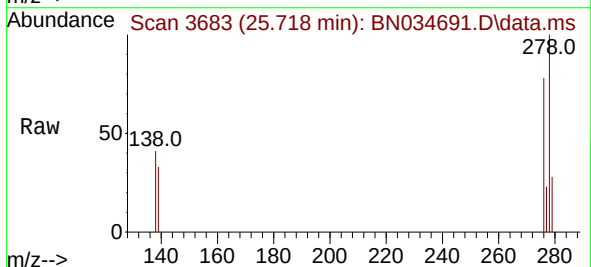
Tgt Ion:278 Resp: 11142

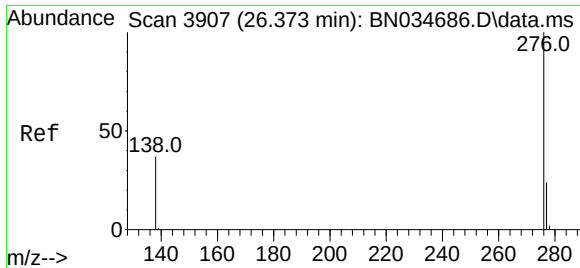
Ion Ratio Lower Upper

278 100

139 33.0 25.4 38.2

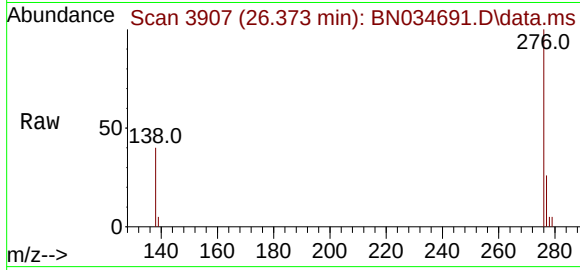
279 28.2 22.4 33.6





#41
Benzo(g,h,i)perylene
Concen: 0.354 ng
RT: 26.373 min Scan# 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: 12576
Ion Ratio Lower Upper
276 100
277 25.5 21.3 31.9
138 40.2 31.9 47.9

