



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P5164

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number

P5164-01
P5164-02
P5164-03
P5164-04
P5164-05
P5164-06

Client Sample Number

RE108D2-20241206
RE108D1-20241206
RE105D1-20241206
RE105D2-20241206
TB
FB-20241206

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: 12/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Chemtech Project # P5164

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 12/06/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RE108D2-20241206 [Terphenyl-d14 - 161%], RE108D1-20241206 [2-Fluorobiphenyl - 115%, Terphenyl-d14 - 161%], RE105D1-20241206 [Terphenyl-d14 - 178%], RE105D2-20241206 [Terphenyl-d14 - 166%], FB-20241206 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 174%], PB165497BL [Nitrobenzene-d5 - 113% and Terphenyl-d14 - 141%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.



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E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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: P5164

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for RE108D2-20241206 [Terphenyl-d14 - 161%], RE108D1-20241206 [2-Fluorobiphenyl - 115%, Terphenyl- d14 - 161%], RE105D1-20241206 [Terphenyl-d14 - 178%], RE105D2-20241206 [Terphenyl-d14 - 166%], FB-20241206 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 174%], PB165497BL [Nitrobenzene-d5 - 113% and Terphenyl-d14 - 141%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓

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

(CONTINUED)

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

ADDITIONAL COMMENTS:

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5164

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: 12/12/2024

LAB CHRONICLE

OrderID:	P5164	OrderDate:	12/6/2024 1:09:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5164-01	RE108D2-20241206	Water	SVOC-SIMGroup1	8270-Modified	12/06/24	12/09/24	12/09/24	12/06/24
P5164-02	RE108D1-20241206	Water	SVOC-SIMGroup1	8270-Modified	12/06/24	12/09/24	12/09/24	12/06/24
P5164-03	RE105D1-20241206	Water	SVOC-SIMGroup1	8270-Modified	12/06/24	12/09/24	12/09/24	12/06/24
P5164-04	RE105D2-20241206	Water	SVOC-SIMGroup1	8270-Modified	12/06/24	12/09/24	12/09/24	12/06/24
P5164-06	FB-20241206	Water	SVOC-SIMGroup1	8270-Modified	12/06/24	12/09/24	12/09/24	12/06/24



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Hit Summary Sheet SW-846

SDG No.: P5164
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE108D2-20241206									
P5164-01	RE108D2-20241206	WATER	1,4-Dioxane	2.500		0.07	0.2	0.2	ug/L
			Total Svoc :			2.50			
			Total Concentration:			2.50			
Client ID : RE108D1-20241206									
P5164-02	RE108D1-20241206	WATER	1,4-Dioxane	3.100		0.07	0.2	0.2	ug/L
			Total Svoc :			3.10			
			Total Concentration:			3.10			
Client ID : RE105D1-20241206									
P5164-03	RE105D1-20241206	WATER	1,4-Dioxane	4.900		0.07	0.21	0.21	ug/L
			Total Svoc :			4.90			
			Total Concentration:			4.90			
Client ID : RE105D2-20241206									
P5164-04	RE105D2-20241206	WATER	1,4-Dioxane	4.300		0.07	0.2	0.2	ug/L
			Total Svoc :			4.30			
			Total Concentration:			4.30			



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5164-01	RE108D2-20241206	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.64	161	*	58	132
P5164-02	RE108D1-20241206	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.64	161	*	58	132
P5164-03	RE105D1-20241206	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.71	178	*	58	132
P5164-04	RE105D2-20241206	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.67	166	*	58	132
P5164-06	FB-20241206	2-Methylnaphthalene-d10	0.4	0.41	101		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.45	111		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.70	174	*	58	132
PB165497BL	PB165497BL	2-Methylnaphthalene-d10	0.4	0.46	114		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
PB165497BS	PB165497BS	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB165497BSD	PB165497BSD	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.48	119		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035528.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165497BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165497BSD	1,4-Dioxane	0.4	0.35	ug/L	88	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165497BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5164

SAS No.: P5164 SDG NO.: P5164

Lab File ID: BN035511.D

Lab Sample ID: PB165497BL

Instrument ID: BNA_N

Date Extracted: 12/09/2024

Matrix: (soil/water) Water

Date Analyzed: 12/09/2024

Level: (low/med) LOW

Time Analyzed: 17:43

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE105D2-20241206	P5164-04	BN035514.D	12/09/2024
RE105D1-20241206	P5164-03	BN035515.D	12/09/2024
FB-20241206	P5164-06	BN035516.D	12/09/2024
PB165497BS	PB165497BS	BN035528.D	12/10/2024
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024
RE108D2-20241206	P5164-01	BN035512.D	12/09/2024
RE108D1-20241206	P5164-02	BN035513.D	12/09/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5164SDG NO.: P5164Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA_NDFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 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	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5164 SDG NO.: P5164Lab File ID: BN035509.DDFTPP Injection Date: 12/09/2024Instrument ID: BNA_NDFTPP Injection Time: 16:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	41.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	9.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035510.D	12/09/2024	17:07
PB165497BL	PB165497BL	BN035511.D	12/09/2024	17:43
RE108D2-20241206	P5164-01	BN035512.D	12/09/2024	18:19
RE108D1-20241206	P5164-02	BN035513.D	12/09/2024	18:55
RE105D2-20241206	P5164-04	BN035514.D	12/09/2024	19:31
RE105D1-20241206	P5164-03	BN035515.D	12/09/2024	20:07
FB-20241206	P5164-06	BN035516.D	12/09/2024	20:43
SSTDCCC0.4EC	SSTDCCC0.4	BN035523.D	12/10/2024	00:55



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5164 SDG NO.: P5164Lab File ID: BN035524.DDFTPP Injection Date: 12/10/2024Instrument ID: BNA_NDFTPP Injection Time: 08:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.2 (19.7) 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	BN035525.D	12/10/2024	09:33
PB165497BS	PB165497BS	BN035528.D	12/10/2024	11:21
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024	12:03
SSTDCCC0.4EC	SSTDCCC0.4	BN035530.D	12/10/2024	12:40

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	1975	7.3	5582	10.04	4021	13.96
UPPER LIMIT	3950	7.8	11164	10.541	8042	14.456
LOWER LIMIT	987.5	6.8	2791	9.541	2010.5	13.456
EPA SAMPLE NO.						
01 PB165497BL	1641	7.30	4578	10.05	3247	13.96
02 RE108D2-20241206	1616	7.30	4623	10.04	3281	13.96
03 RE108D1-20241206	1500	7.30	4288	10.04	3273	13.96
04 RE105D1-20241206	1526	7.30	4181	10.04	3189	13.96
05 RE105D2-20241206	1515	7.30	4180	10.04	3091	13.96
06 FB-20241206	1690	7.30	4712	10.04	3572	13.96

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.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	9077	16.723	8166	20.965	8385	23.059
UPPER LIMIT	18154	17.223	16332	21.465	16770	23.559
LOWER LIMIT	4538.5	16.223	4083	20.465	4192.5	22.559
EPA SAMPLE NO.						
01 PB165497BL	7570	16.74	6431	20.97	6251	23.07
02 RE108D2-20241206	7900	16.72	7073	20.97	7058	23.06
03 RE108D1-20241206	7859	16.72	6610	20.97	6392	23.06
04 RE105D1-20241206	7888	16.72	6613	20.97	6375	23.06
05 RE105D2-20241206	7600	16.72	6224	20.97	6145	23.06
06 FB-20241206	8431	16.72	7106	20.97	6618	23.06

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.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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	2237	7.293	6161	10.04	4478	13.96
UPPER LIMIT	4474	7.793	12322	10.541	8956	14.457
LOWER LIMIT	1118.5	6.793	3080.5	9.541	2239	13.457
EPA SAMPLE NO.						
01 PB165497BSD	1941	7.29	5150	10.04	3668	13.96
02 PB165497BS	1669	7.30	4431	10.04	3092	13.96

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.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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	11122	16.723	9383	20.965	8820	23.059
UPPER LIMIT	22244	17.223	18766	21.465	17640	23.559
LOWER LIMIT	5561	16.223	4691.5	20.465	4410	22.559
EPA SAMPLE NO.						
01 PB165497BSD	9298	16.72	7541	20.97	6738	23.06
02 PB165497BS	7959	16.72	6696	20.96	5945	23.06

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:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035512.D	1	12/09/24 11:27	12/09/24 18:19	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		161%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1620	7.301				
1146-65-2	Naphthalene-d8	4620	10.041				
15067-26-2	Acenaphthene-d10	3280	13.957				
1517-22-2	Phenanthrene-d10	7900	16.723				
1719-03-5	Chrysene-d12	7070	20.965				
1520-96-3	Perylene-d12	7060	23.059				

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\BN120924\
 Data File : BN035512.D
 Acq On : 09 Dec 2024 18:19
 Operator : RC/JU
 Sample : P5164-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE108D2-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:26:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1616	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4623	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3281	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7900	0.400	ng	-0.01
29) Chrysene-d12	20.965	240	7073	0.400	ng	0.00
35) Perylene-d12	23.059	264	7058	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	577	0.143	ng	-0.01
5) Phenol-d6	6.506	99	428	0.088	ng	0.00
8) Nitrobenzene-d5	8.429	82	1202m	0.426	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2800	0.387	ng	-0.01
14) 2,4,6-Tribromophenol	15.464	330	691	0.297	ng	-0.01
15) 2-Fluorobiphenyl	12.564	172	5236	0.422	ng	-0.01
27) Fluoranthene-d10	18.775	212	10250	0.458	ng	0.00
31) Terphenyl-d14	19.402	244	8977	0.643	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	3882	2.513	ng	97
6) bis(2-Chloroethyl)ether	6.752	93	215	0.053	ng	96
34) Bis(2-ethylhexyl)phtha...	20.920	149	745	0.076	ng	98

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

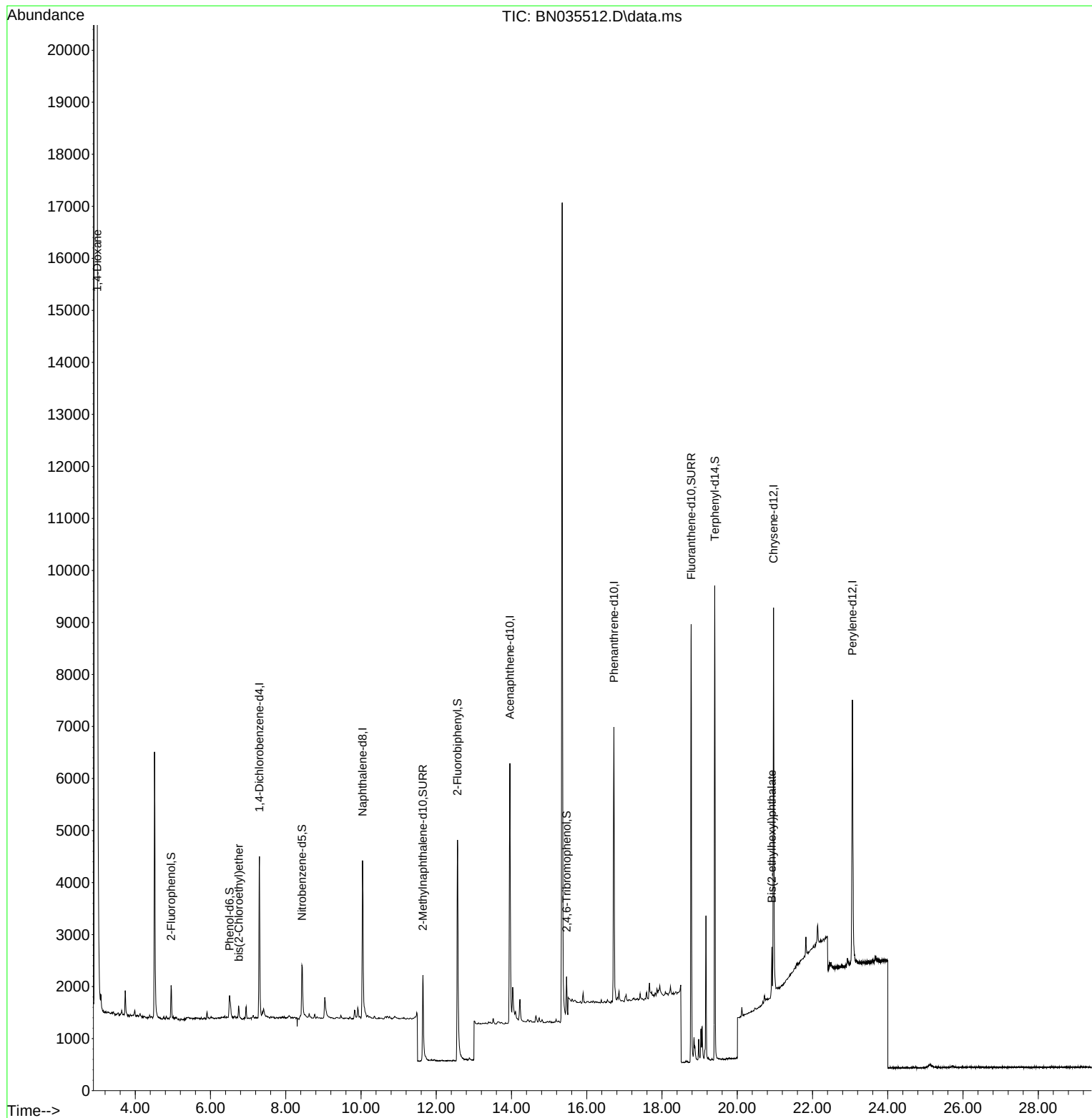
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Acq On : 09 Dec 2024 18:19
Operator : RC/JU
Sample : P5164-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

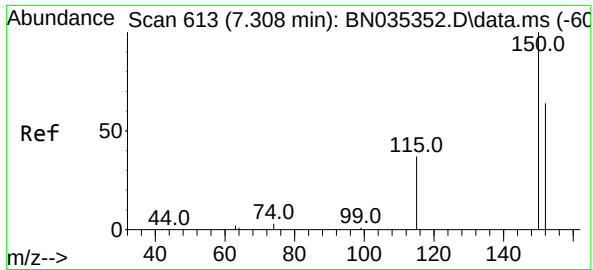
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

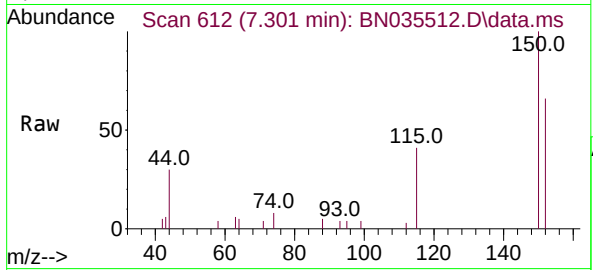
Quant Time: Dec 10 01:26:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

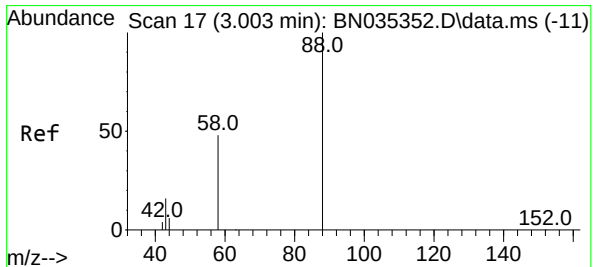
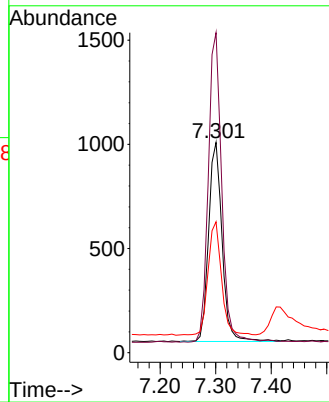
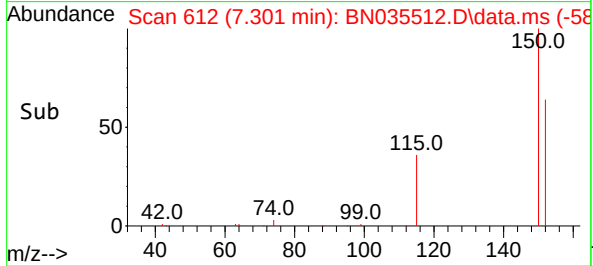
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206



Tgt Ion:152 Resp: 1610
Ion Ratio Lower Upper
152 100
150 152.2 124.0 186.0
115 62.2 49.6 74.4

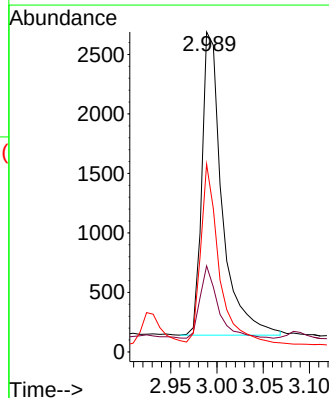
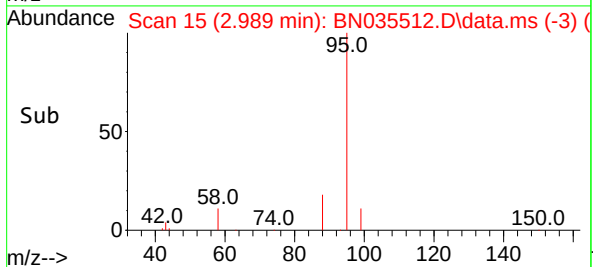
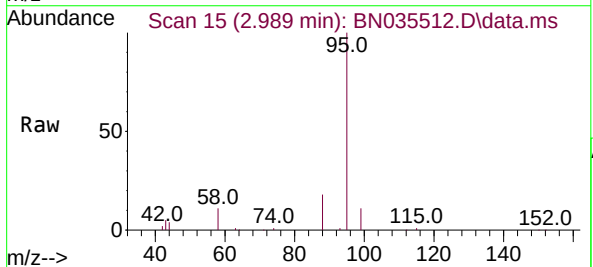
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

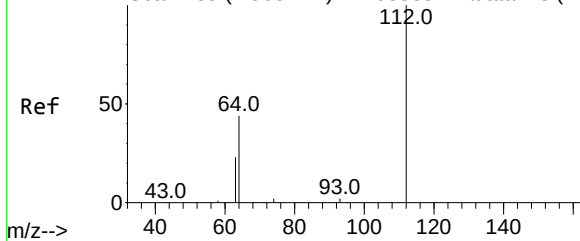


#2
1,4-Dioxane
Concen: 2.513 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion: 88 Resp: 3882
Ion Ratio Lower Upper
88 100
43 21.4 17.2 25.8
58 52.3 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.143 ng

RT: 4.953 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

Instrument :

BNA_N

ClientSampleId :

RE108D2-20241206

Tgt Ion:112 Resp: 57

Ion Ratio Lower Upper

112 100

64 53.7 39.8 59.8

63 27.6 21.0 31.6

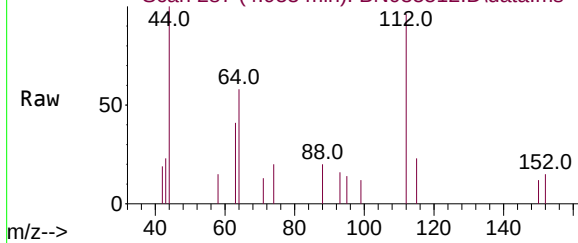
Manual Integrations

APPROVED

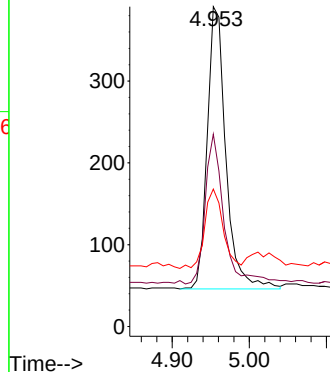
Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024

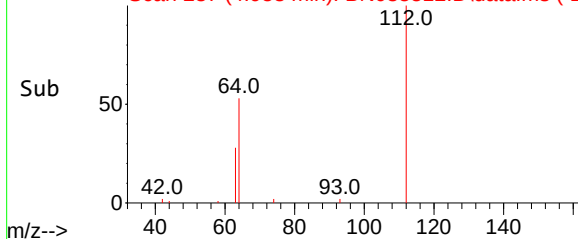
Abundance Scan 287 (4.953 min): BN035512.D\data.ms



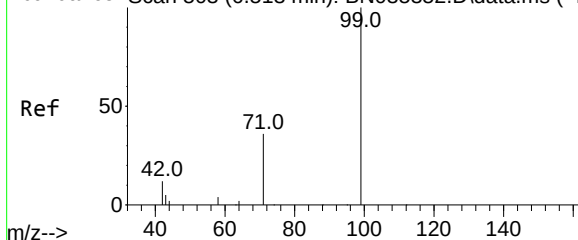
Abundance



Abundance Scan 287 (4.953 min): BN035512.D\data.ms (-26



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.088 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

Tgt Ion: 99 Resp: 428

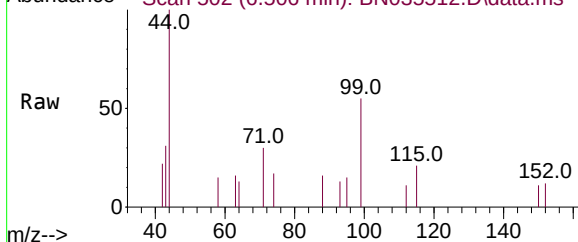
Ion Ratio Lower Upper

99 100

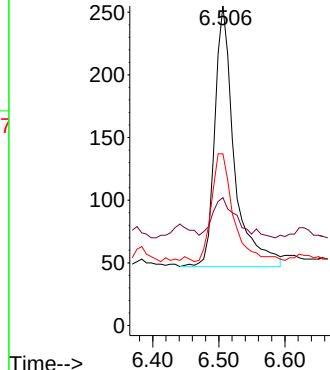
42 20.6 11.4 17.2#

71 46.3 29.3 43.9#

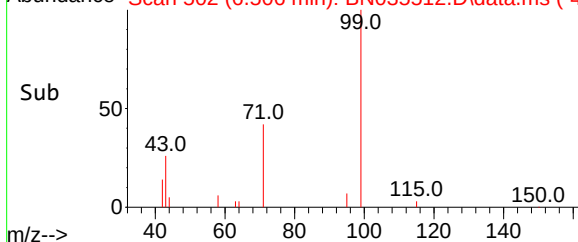
Abundance Scan 502 (6.506 min): BN035512.D\data.ms

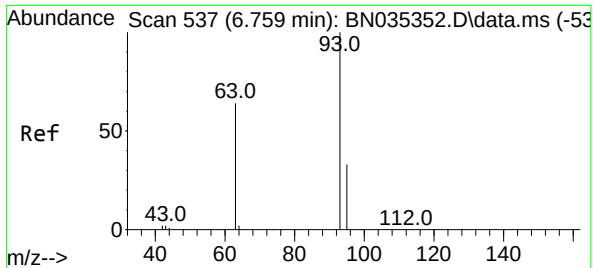


Abundance



Abundance Scan 502 (6.506 min): BN035512.D\data.ms (-47





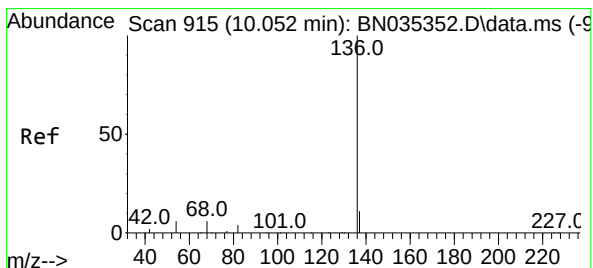
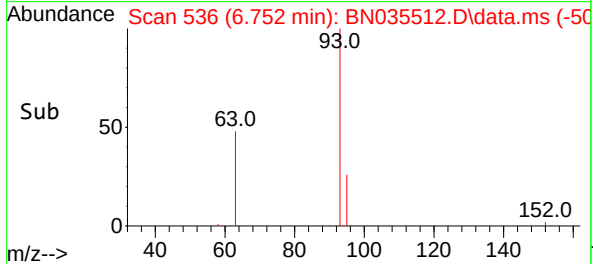
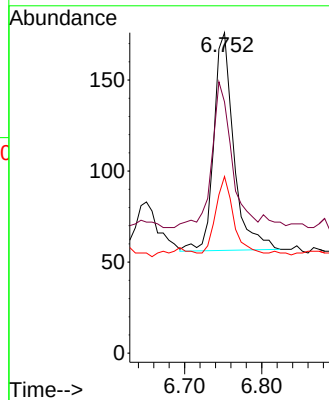
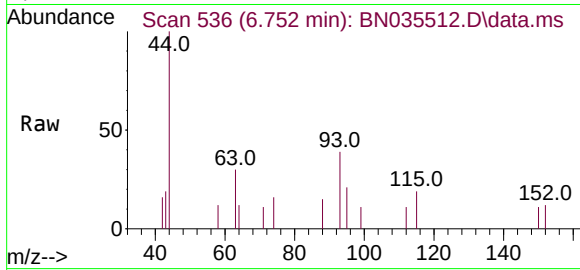
#6
bis(2-Chloroethyl)ether
Concen: 0.053 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

Tgt Ion: 93 Resp: 215
Ion Ratio Lower Upper
93 100
63 66.0 50.4 75.6
95 34.0 25.7 38.5

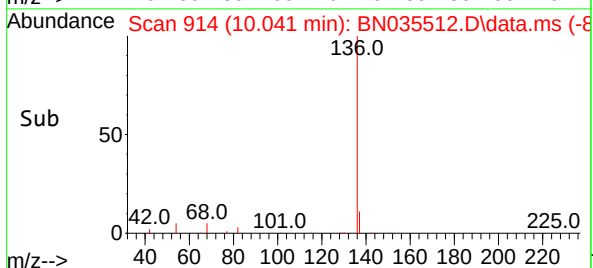
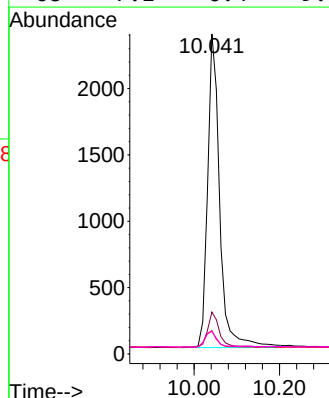
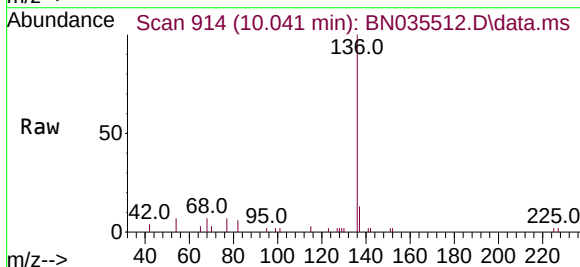
Manual Integrations
APPROVED

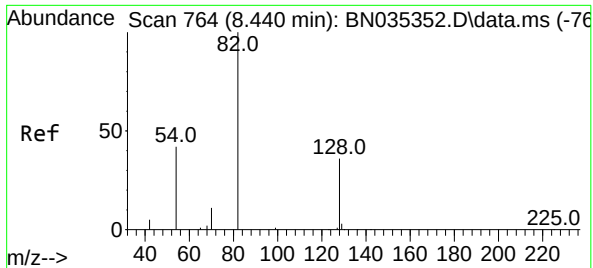
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion:136 Resp: 4623
Ion Ratio Lower Upper
136 100
137 13.1 10.2 15.2
54 7.3 6.1 9.1
68 7.1 6.4 9.6





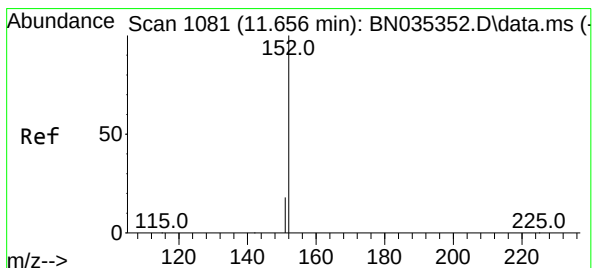
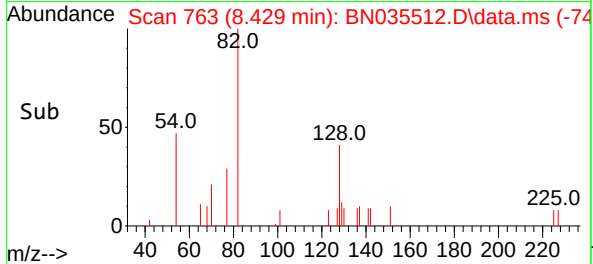
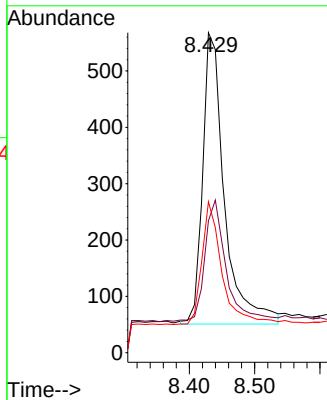
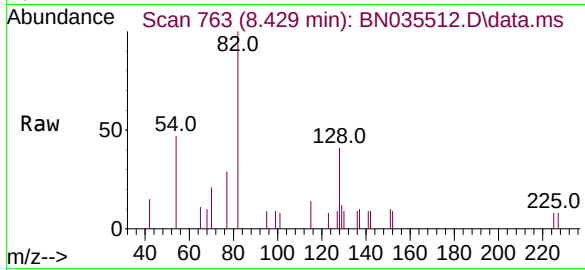
#8
Nitrobenzene-d5
Concen: 0.426 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

Tgt Ion: 82 Resp: 120
Ion Ratio Lower Upper
82 100
128 41.2 33.4 50.0
54 47.2 36.7 55.1

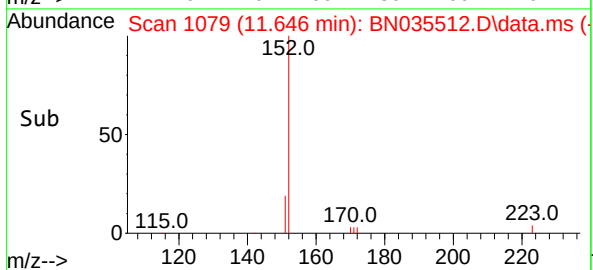
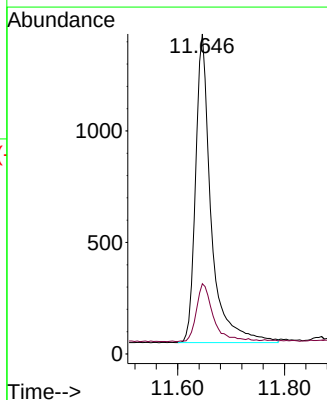
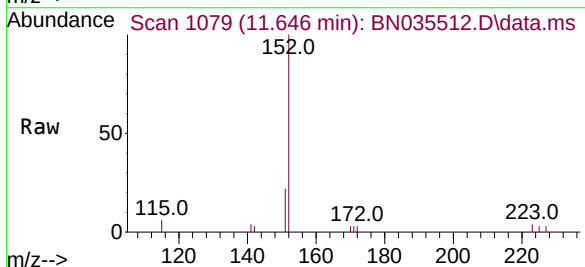
Manual Integrations
APPROVED

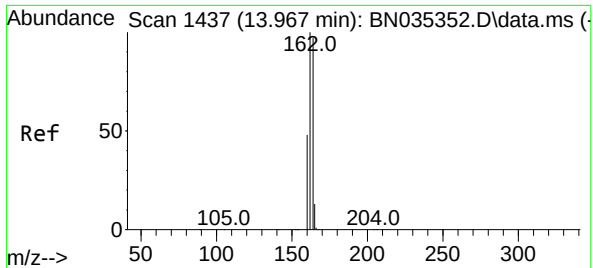
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#11
2-Methylnaphthalene-d10
Concen: 0.387 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

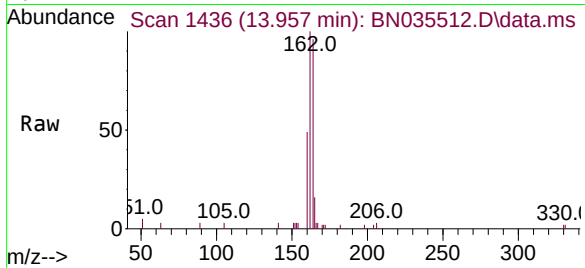
Tgt Ion:152 Resp: 2800
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

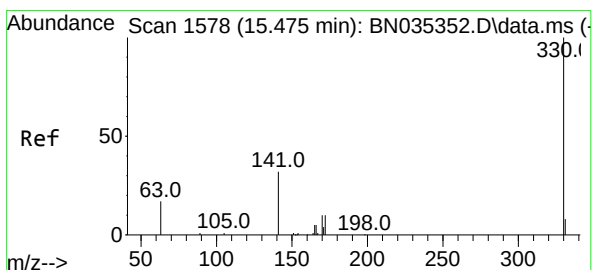
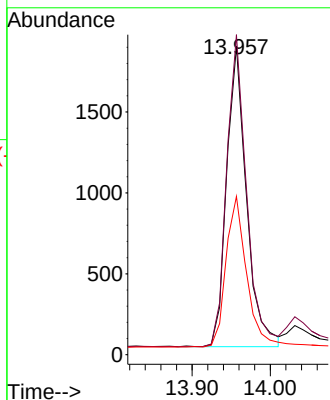
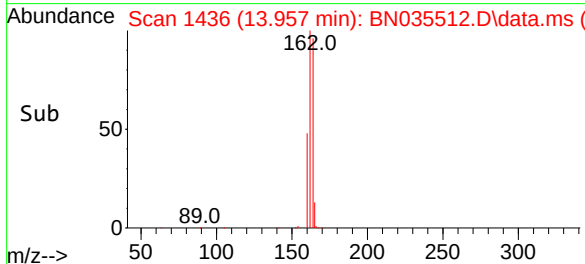
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206



Tgt Ion:164 Resp: 328
Ion Ratio Lower Upper
164 100
162 103.8 82.2 123.2
160 51.3 40.1 60.1

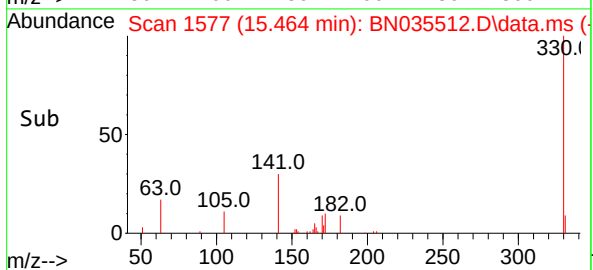
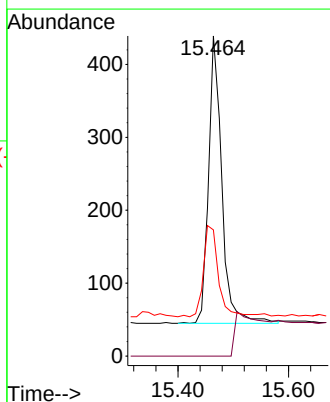
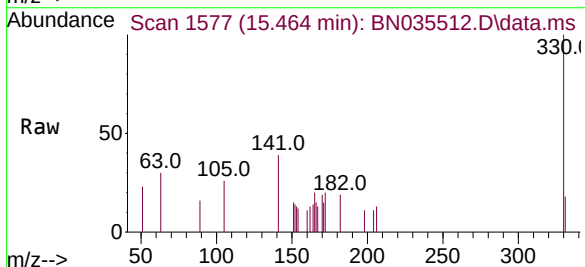
Manual Integrations
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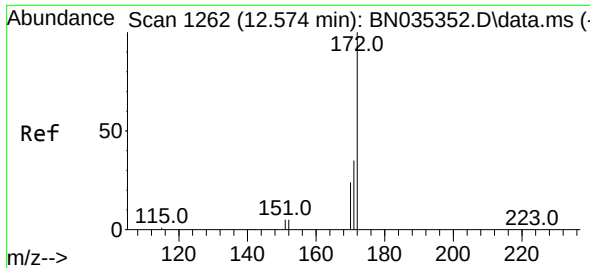
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.297 ng
RT: 15.464 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

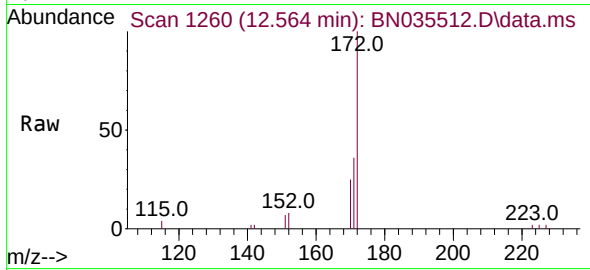
Tgt Ion:330 Resp: 691
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.8 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

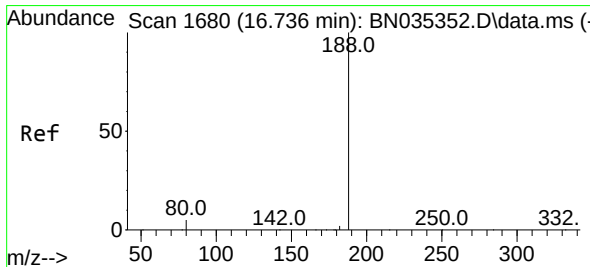
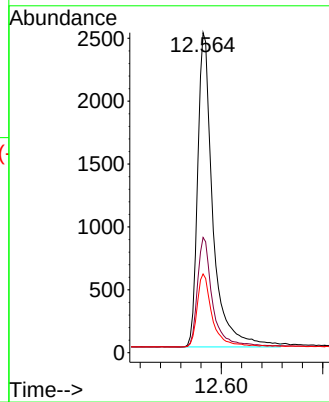
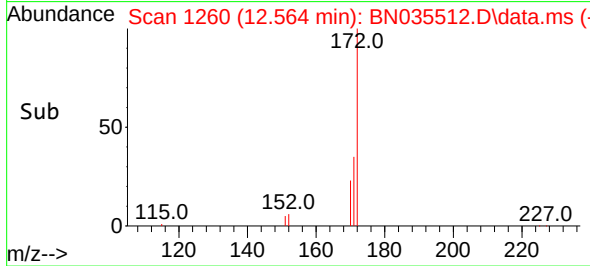
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206



Tgt Ion:172 Resp: 5230
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.6 19.8 29.8

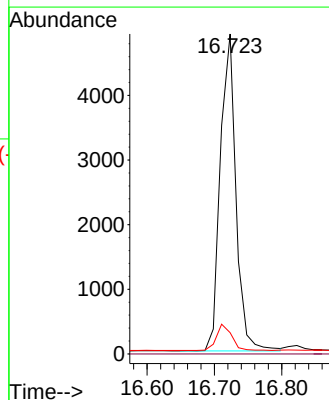
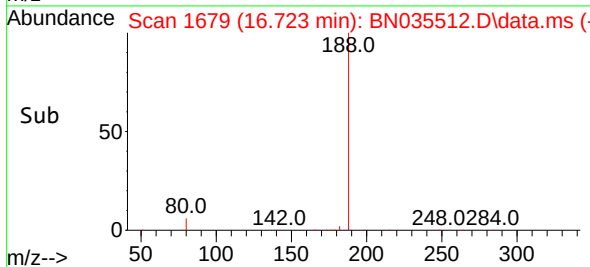
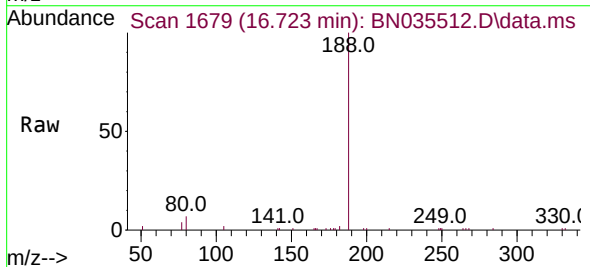
Manual Integrations
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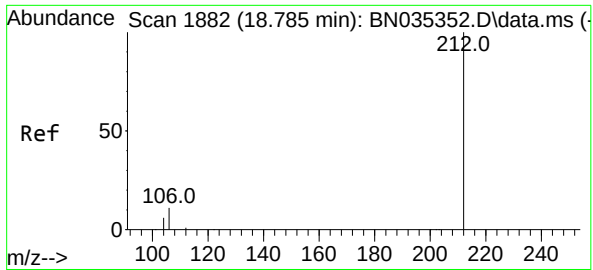
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion:188 Resp: 7900
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.6 4.6 6.8





#27

Fluoranthene-d10

Concen: 0.458 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

Instrument :

BNA_N

ClientSampleId :

RE108D2-20241206

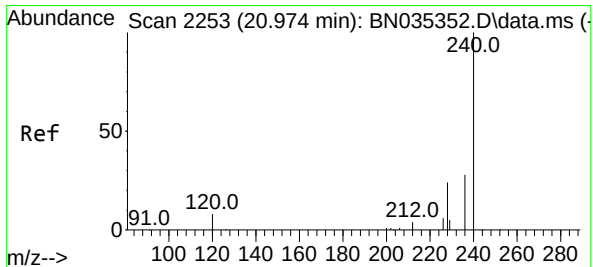
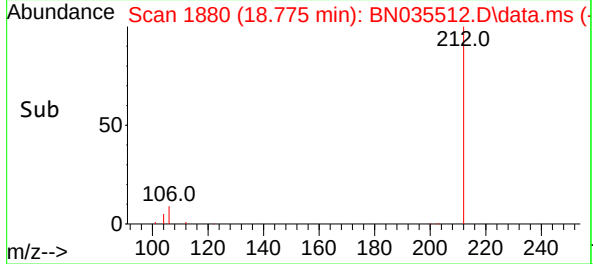
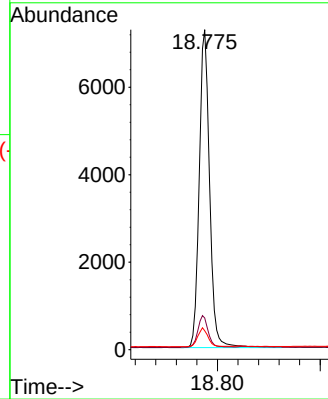
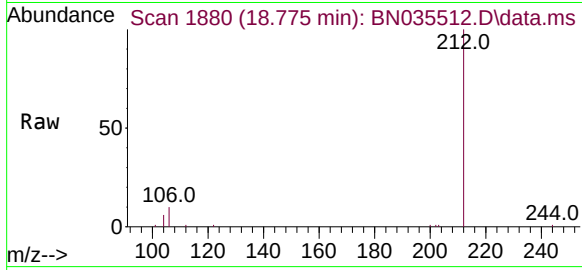
Tgt Ion:	212	Resp:	10250
Ion Ratio	Lower	Upper	
212	100		
106	9.9	9.2	13.8
104	5.9	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#29

Chrysene-d12

Concen: 0.400 ng

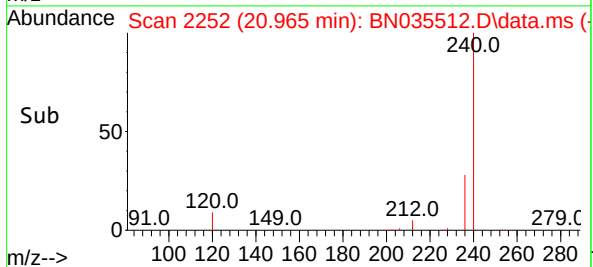
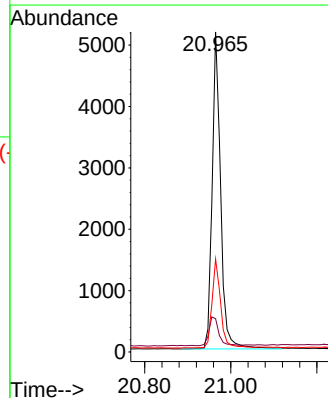
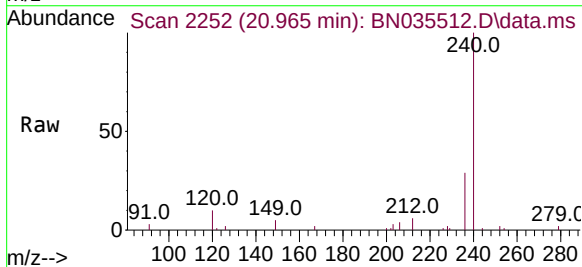
RT: 20.965 min Scan# 2252

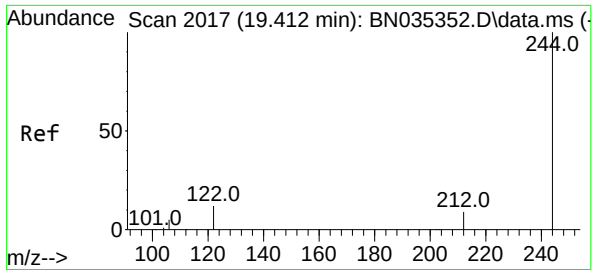
Delta R.T. -0.009 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

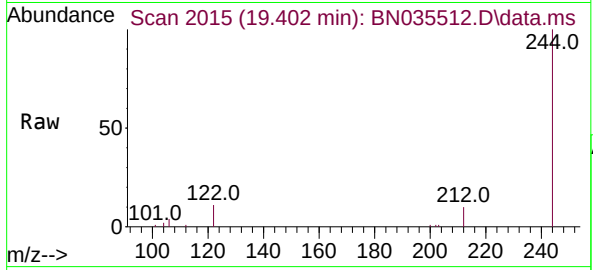
Tgt Ion:	240	Resp:	7073
Ion Ratio	Lower	Upper	
240	100		
120	10.4	7.9	11.9
236	29.1	22.9	34.3





#31
Terphenyl-d14
Concen: 0.643 ng
RT: 19.402 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

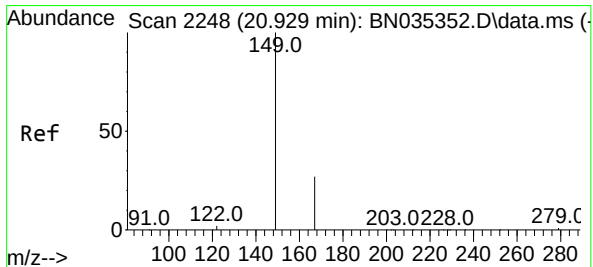
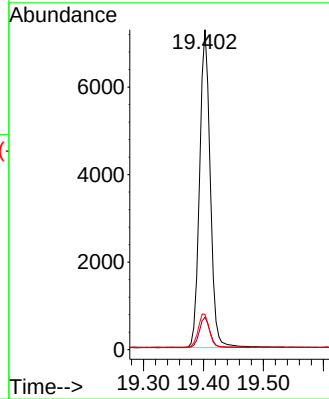
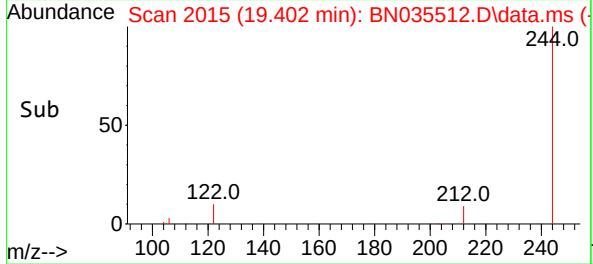
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206



Tgt Ion:244 Resp: 897
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 11.1 10.3 15.5

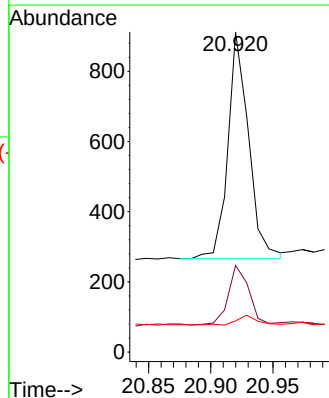
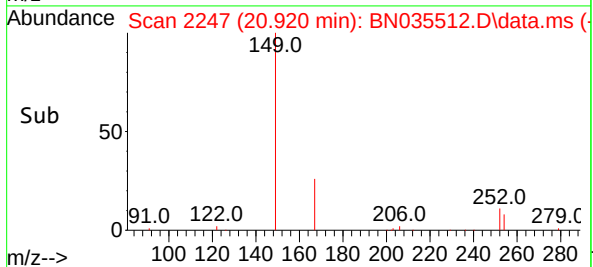
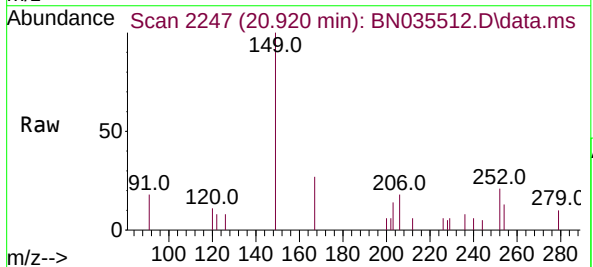
Manual Integrations
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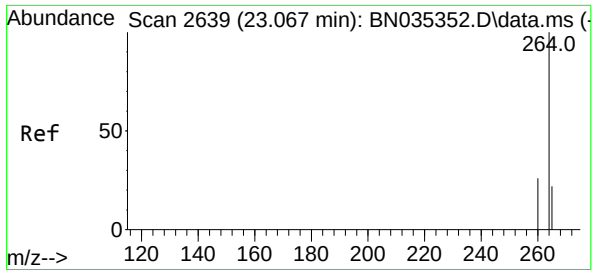
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.076 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion:149 Resp: 745
Ion Ratio Lower Upper
149 100
167 26.8 22.2 33.4
279 3.8 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.059 min Scan# 20

Delta R.T. -0.009 min

Lab File: BN035512.D

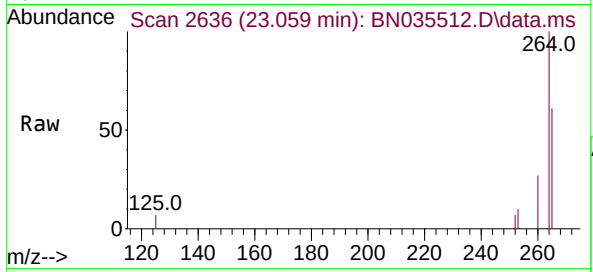
Acq: 09 Dec 2024 18:19

Instrument :

BNA_N

ClientSampleId :

RE108D2-20241206



Tgt Ion:264 Resp: 7058

Ion Ratio Lower Upper

264 100

260 26.6 21.4 32.2

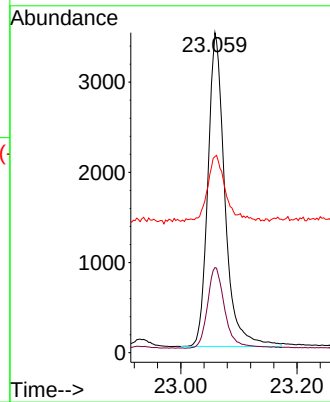
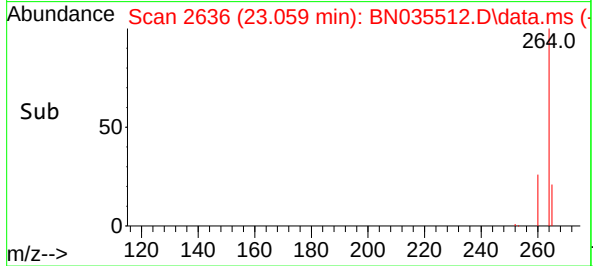
265 61.3 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035513.D	1	12/09/24 11:27	12/09/24 18:55	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		161%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1500	7.3				
1146-65-2	Naphthalene-d8	4290	10.041				
15067-26-2	Acenaphthene-d10	3270	13.956				
1517-22-2	Phenanthrene-d10	7860	16.723				
1719-03-5	Chrysene-d12	6610	20.965				
1520-96-3	Perylene-d12	6390	23.061				

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\BN120924\
 Data File : BN035513.D
 Acq On : 09 Dec 2024 18:55
 Operator : RC/JU
 Sample : P5164-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE108D1-20241206

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:27:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1500	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4288	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3273	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7859	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	6610	0.400	ng	# 0.00
35) Perylene-d12	23.061	264	6392	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	579	0.154	ng	0.00
5) Phenol-d6	6.506	99	378	0.084	ng	0.00
8) Nitrobenzene-d5	8.440	82	1089m	0.416	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2641	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	585	0.252	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5677	0.459	ng	0.00
27) Fluoranthene-d10	18.775	212	9091	0.408	ng	0.00
31) Terphenyl-d14	19.402	244	8386	0.643	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	4417	3.080	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	827	0.091	ng	# 92

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

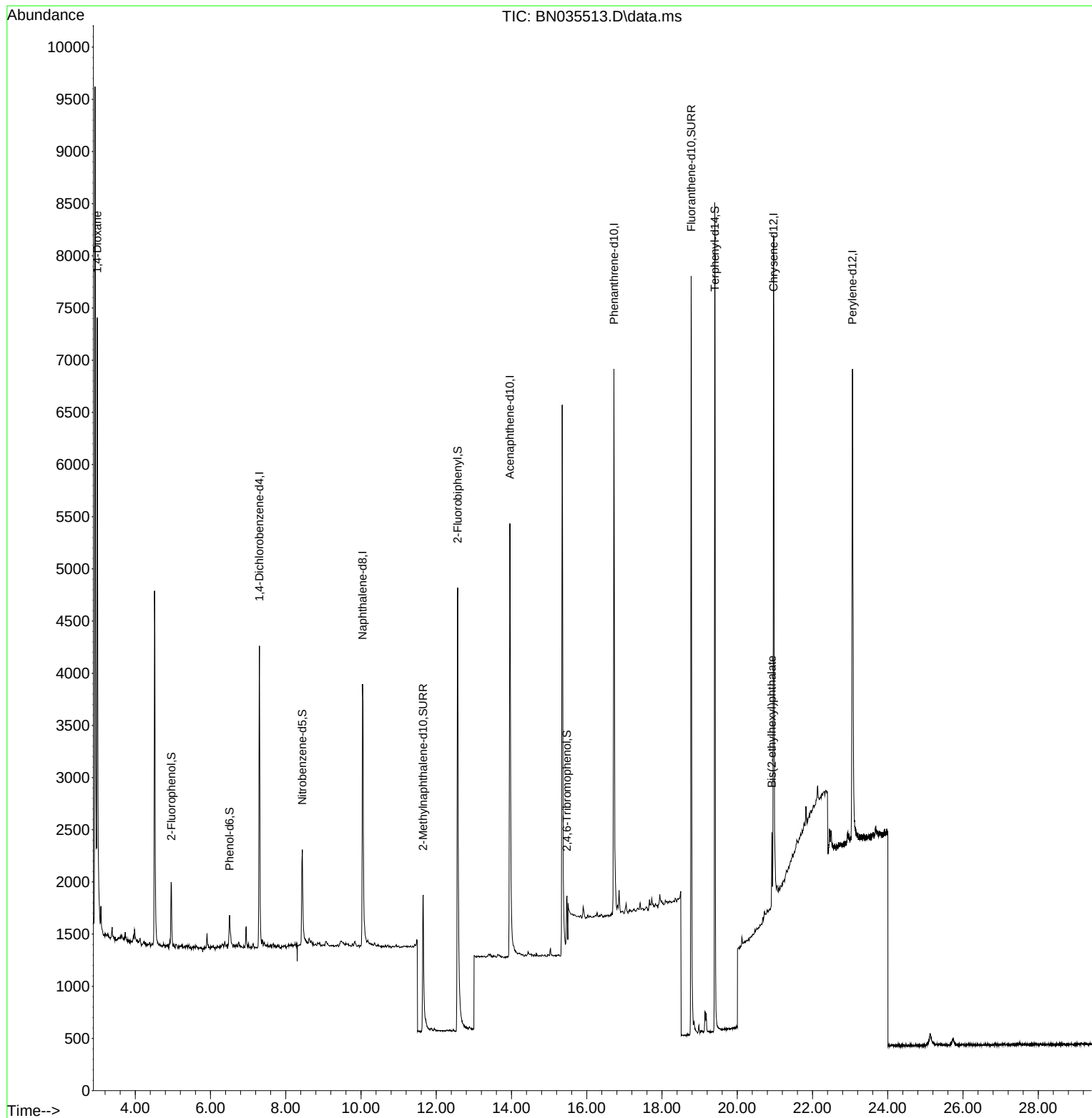
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035513.D
Acq On : 09 Dec 2024 18:55
Operator : RC/JU
Sample : P5164-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

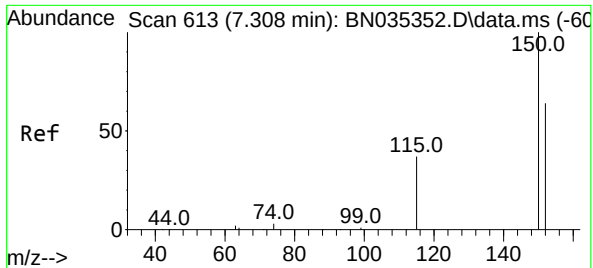
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

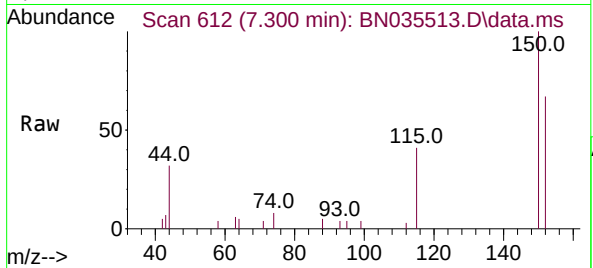
Quant Time: Dec 10 01:27:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

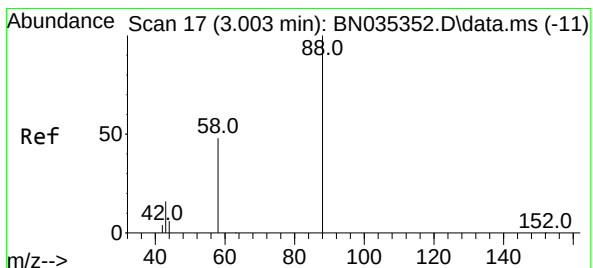
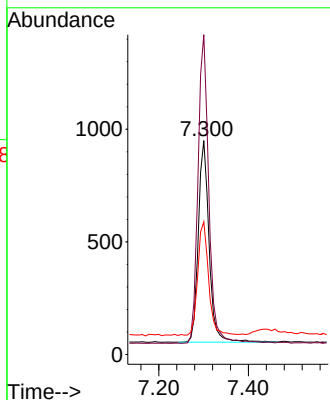
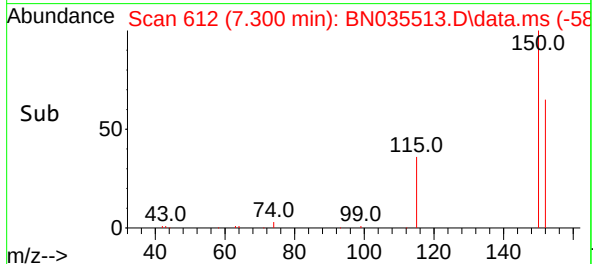
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion:152 Resp: 1500
Ion Ratio Lower Upper
152 100
150 149.5 124.0 186.0
115 62.0 49.6 74.4

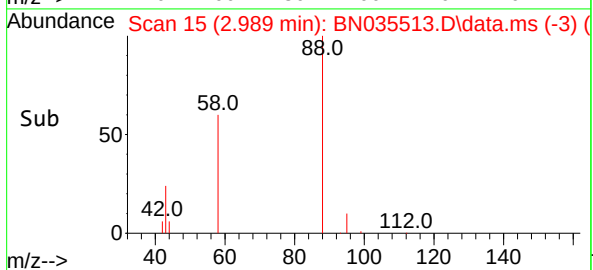
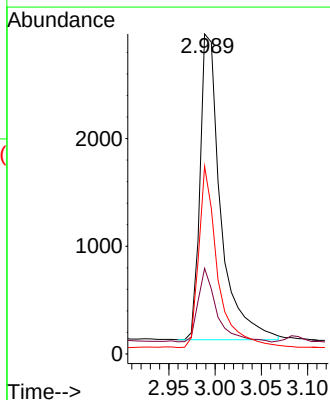
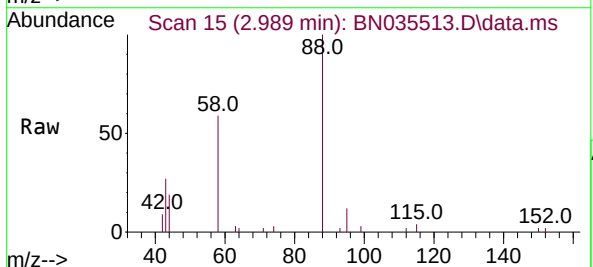
Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

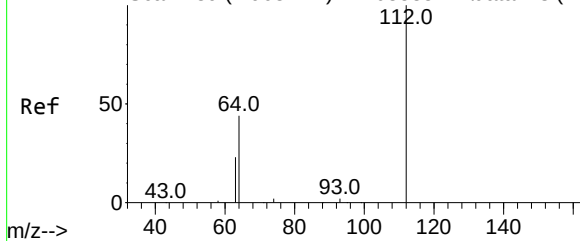


#2
1,4-Dioxane
Concen: 3.080 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

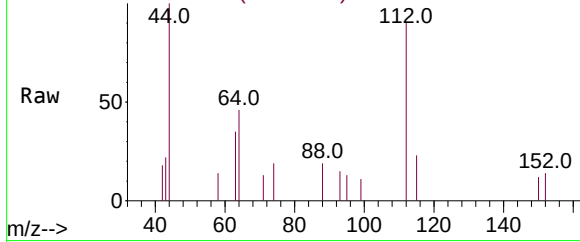
Tgt Ion: 88 Resp: 4417
Ion Ratio Lower Upper
88 100
43 21.6 17.2 25.8
58 54.2 44.5 66.7



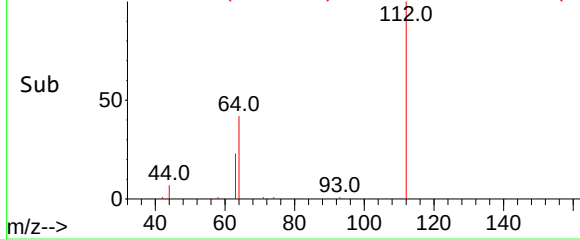
Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



Abundance Scan 288 (4.960 min): BN035513.D\data.ms



Abundance Scan 288 (4.960 min): BN035513.D\data.ms (-26



#4

2-Fluorophenol

Concen: 0.154 ng

RT: 4.960 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

Instrument :

BNA_N

ClientSampleId :

RE108D1-20241206

Tgt Ion: 112 Resp: 579

Ion Ratio Lower Upper

112 100

64 49.9 39.8 59.8

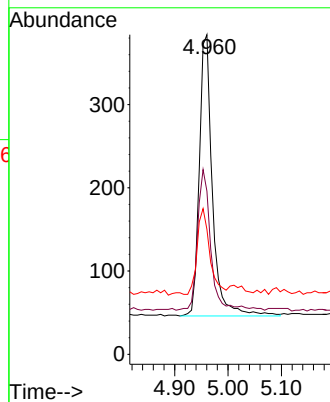
63 29.2 21.0 31.6

Manual Integrations

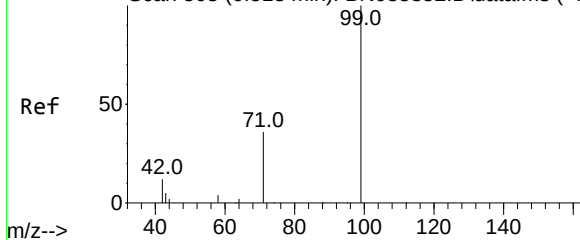
APPROVED

Reviewed By :Yogesh Patel 12/11/2024

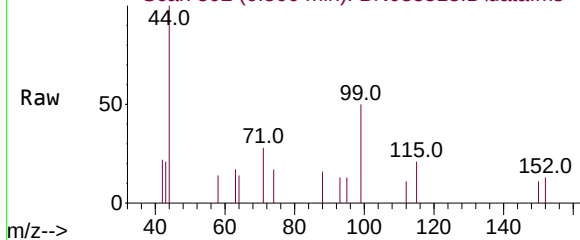
Supervised By :mohammad ahmed 12/11/2024



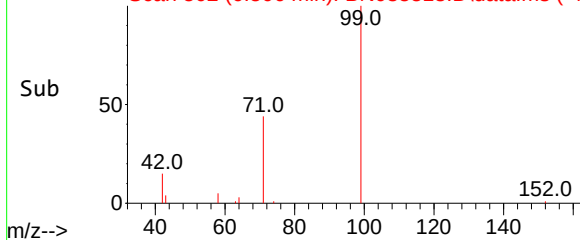
Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



Abundance Scan 502 (6.506 min): BN035513.D\data.ms



Abundance Scan 502 (6.506 min): BN035513.D\data.ms (-47



#5

Phenol-d6

Concen: 0.084 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

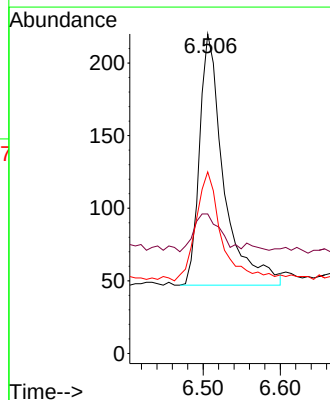
Tgt Ion: 99 Resp: 378

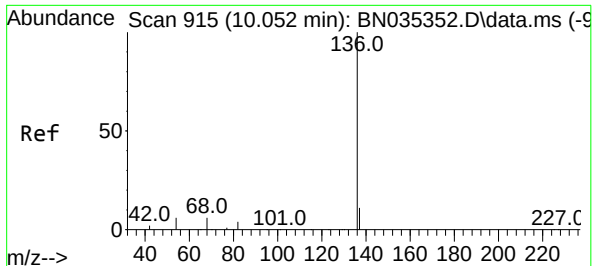
Ion Ratio Lower Upper

99 100

42 16.4 11.4 17.2

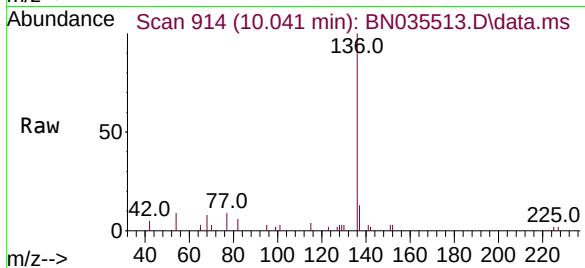
71 48.1 29.3 43.9#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

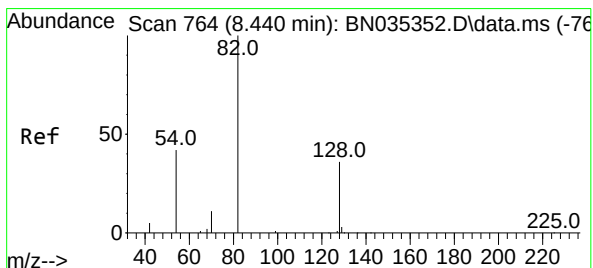
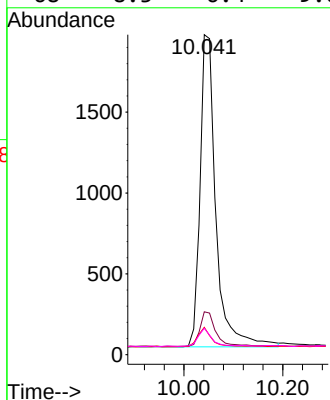
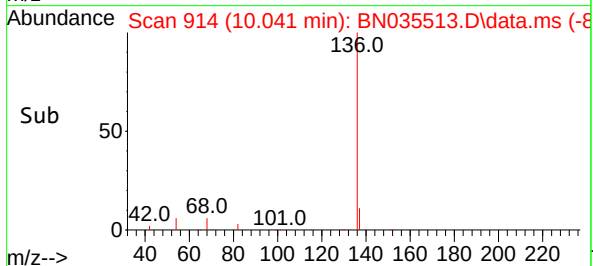
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion: 136 Resp: 428
Ion Ratio Lower Upper
136 100
137 13.4 10.2 15.2
54 8.6 6.1 9.1
68 8.3 6.4 9.6

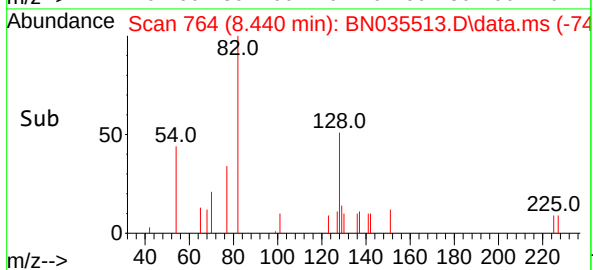
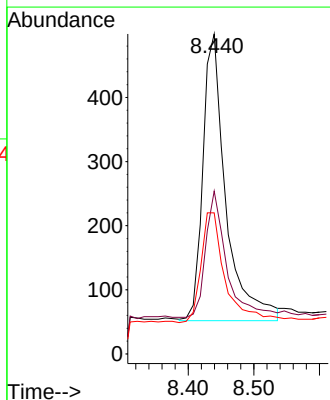
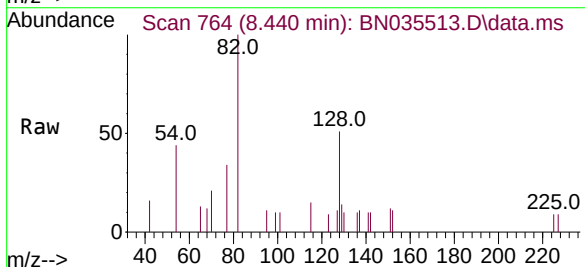
Manual Integrations
APPROVED

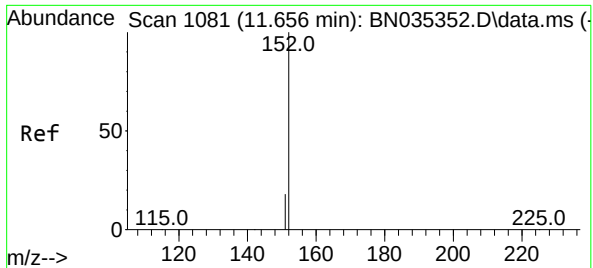
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.416 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

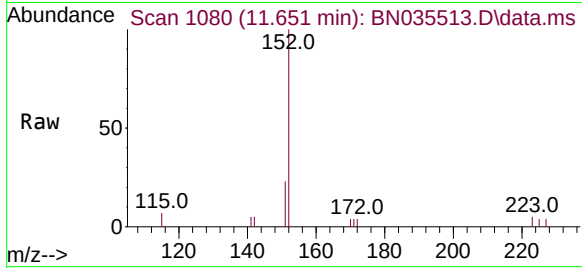
Tgt Ion: 82 Resp: 1089
Ion Ratio Lower Upper
82 100
128 50.9 33.4 50.0#
54 44.1 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

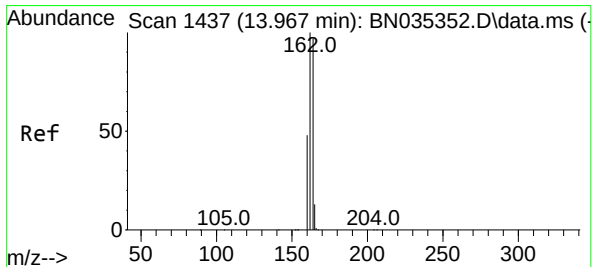
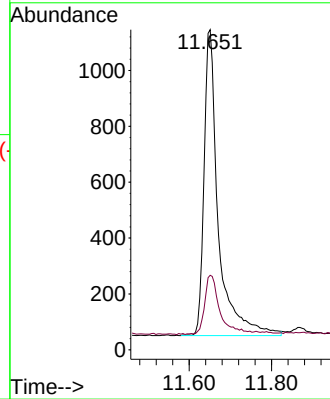
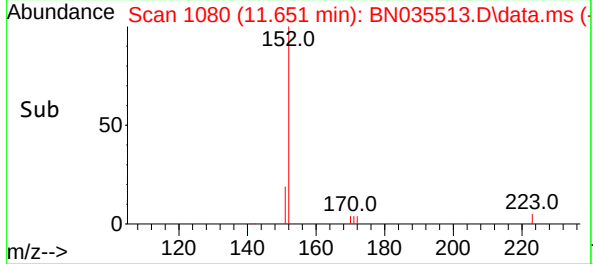
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion:152 Resp: 264
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

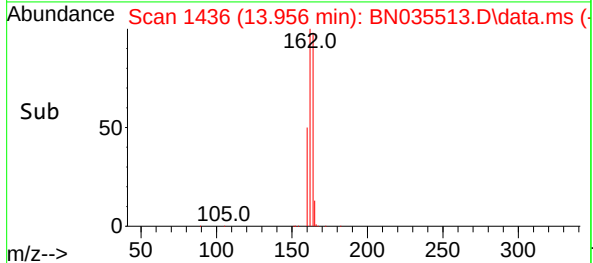
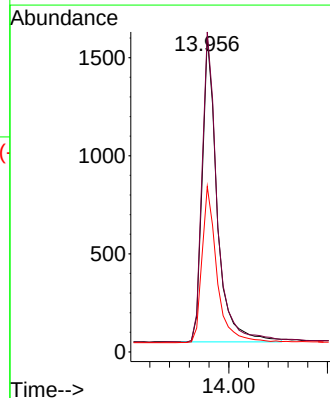
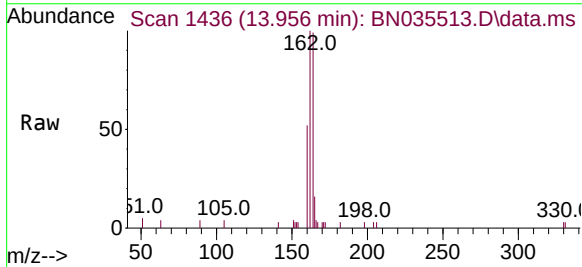
Manual Integrations
APPROVED

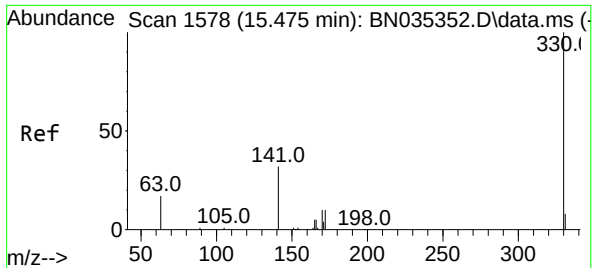
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

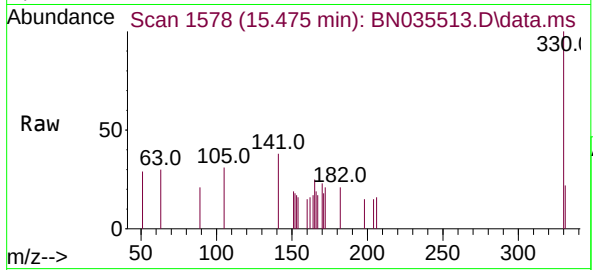
Tgt Ion:164 Resp: 3273
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 52.5 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.475 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

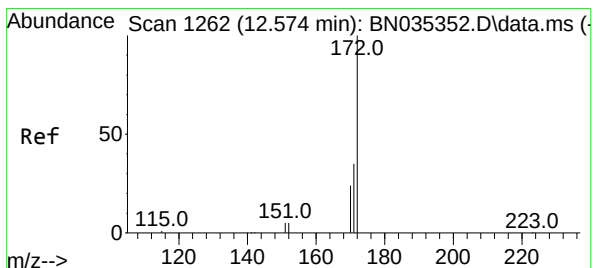
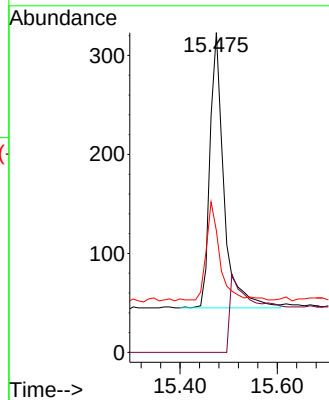
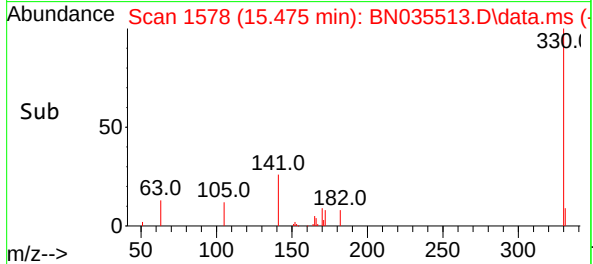
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion: 330 Resp: 58
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0

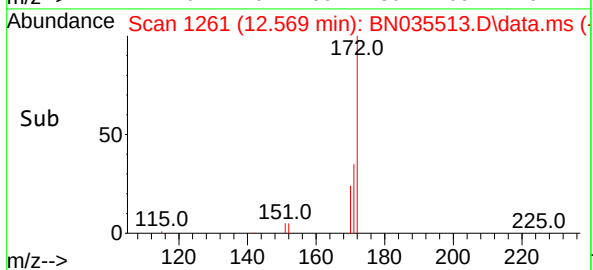
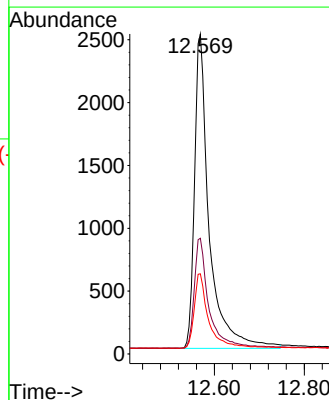
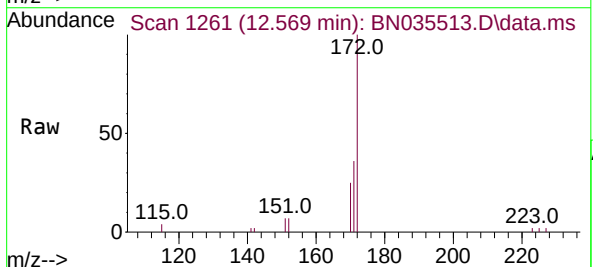
Manual Integrations
APPROVED

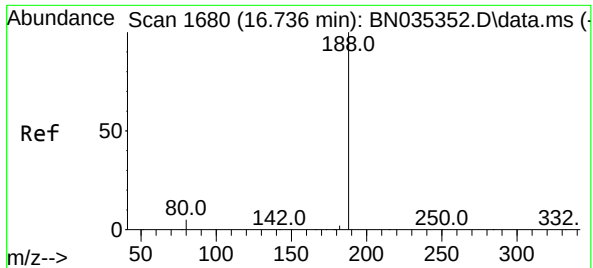
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#15
2-Fluorobiphenyl
Concen: 0.459 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

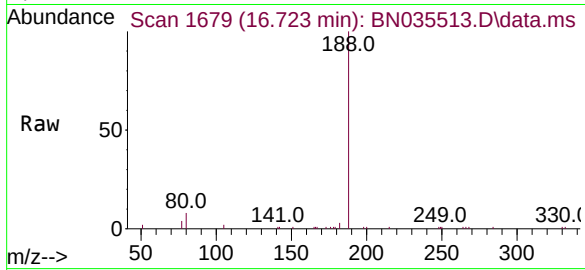
Tgt Ion: 172 Resp: 5677
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 25.1 19.8 29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.013 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

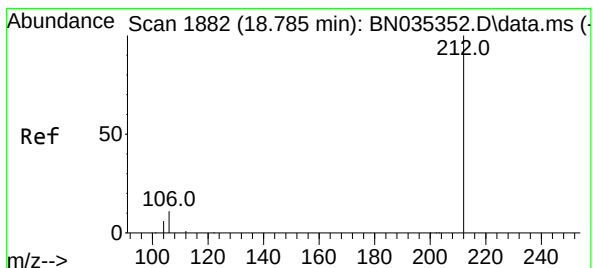
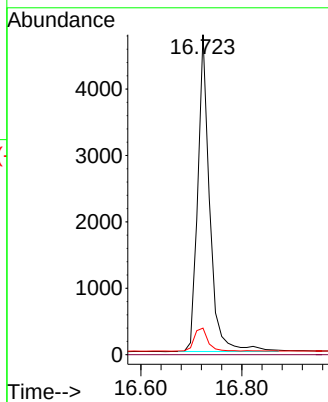
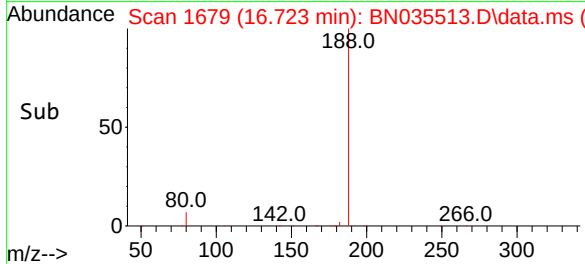
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion:188 Resp: 7859
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8

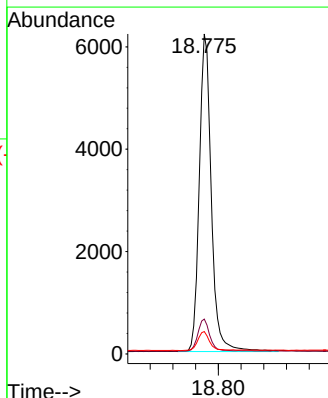
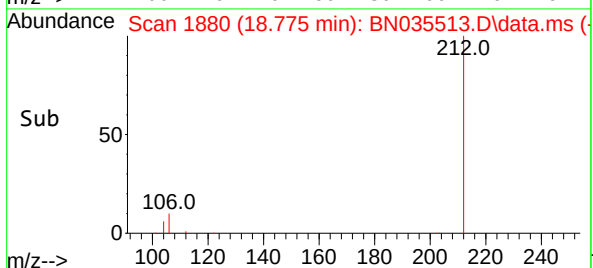
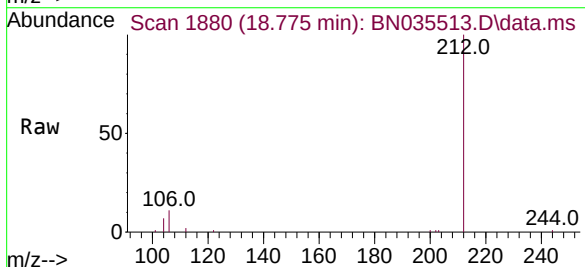
Manual Integrations
APPROVED

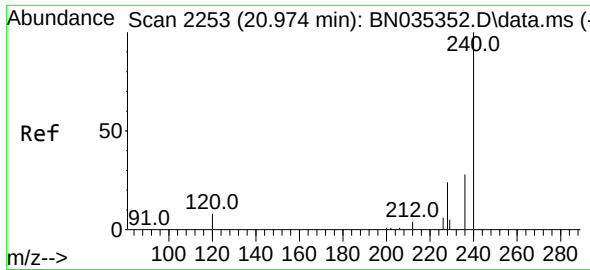
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:212 Resp: 9091
Ion Ratio Lower Upper
212 100
106 9.9 9.2 13.8
104 6.0 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

Instrument :

BNA_N

ClientSampleId :

RE108D1-20241206

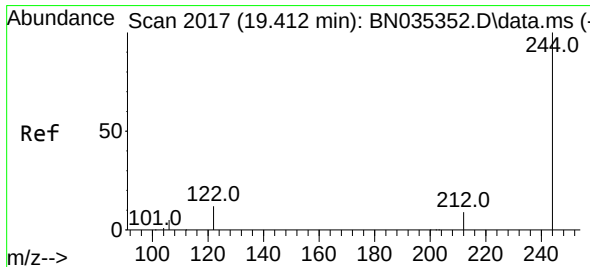
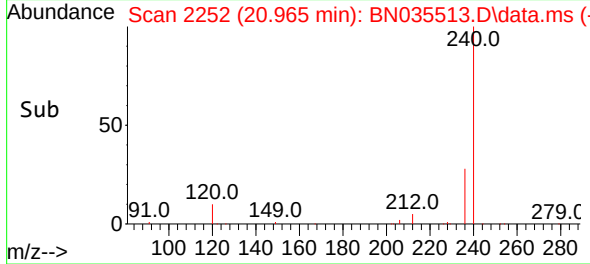
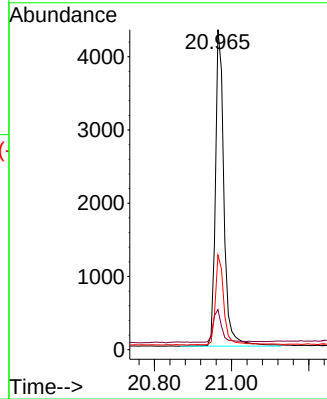
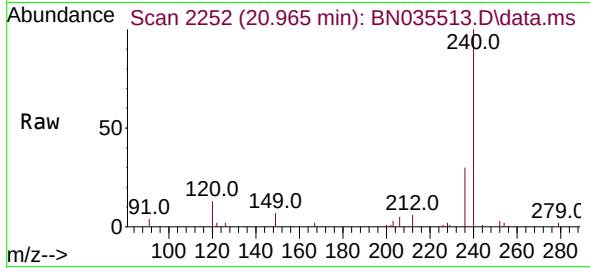
Tgt Ion:240	Resp:	6610
Ion Ratio	Lower	Upper
240	100	
120	12.6	7.9 11.9
236	29.6	22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#31

Terphenyl-d14

Concen: 0.643 ng

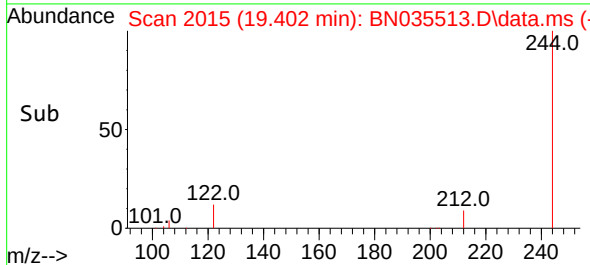
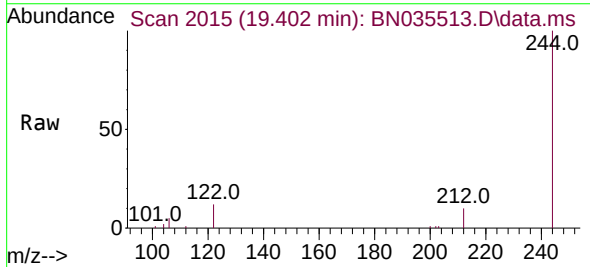
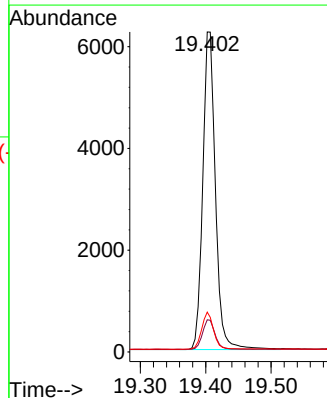
RT: 19.402 min Scan# 2015

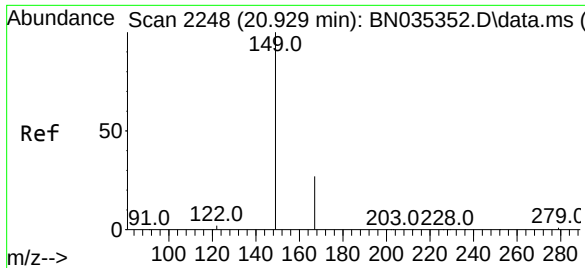
Delta R.T. -0.009 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

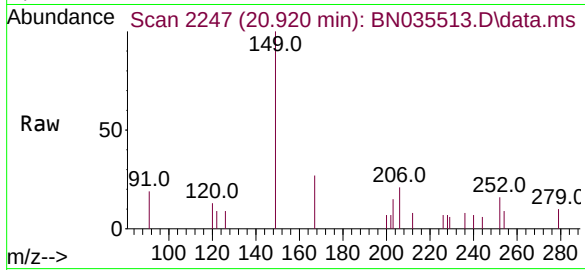
Tgt Ion:244	Resp:	8386
Ion Ratio	Lower	Upper
244	100	
212	10.0	8.1 12.1
122	12.5	10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.920 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

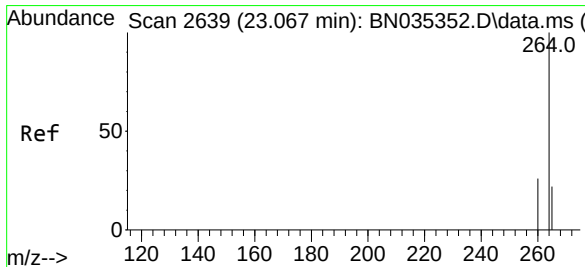
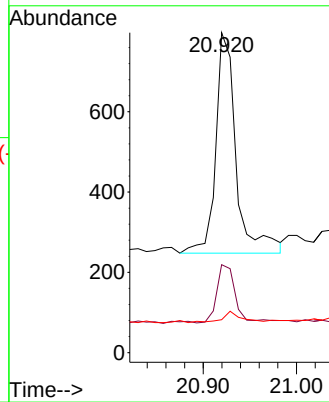
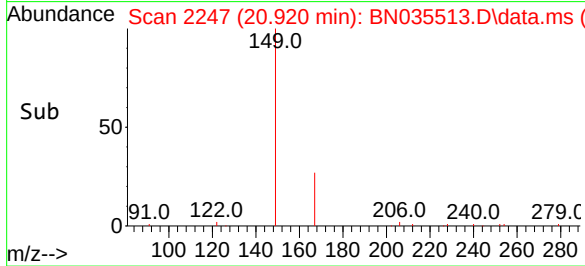
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206



Tgt Ion:149 Resp: 82
Ion Ratio Lower Upper
149 100
167 23.3 22.2 33.4
279 4.8 2.7 4.1

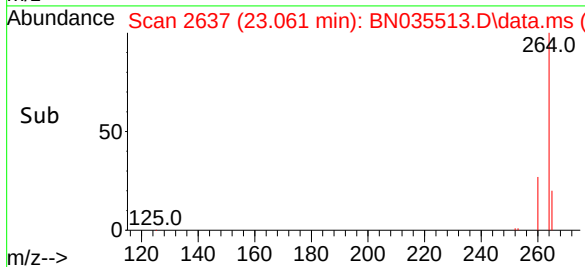
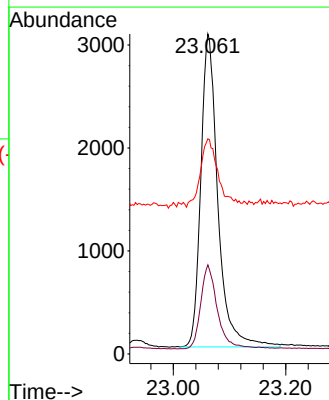
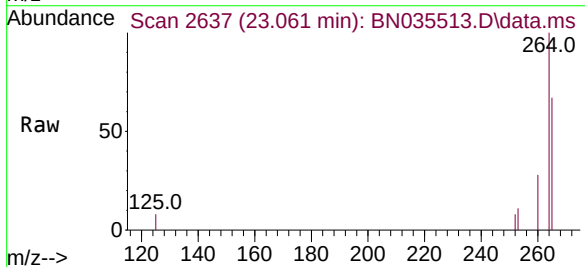
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.061 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:264 Resp: 6392
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 67.2 40.2 60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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
BN035515.D	1	12/09/24 11:27	12/09/24 20:07	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.71	*	58 - 132		178%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.301				
1146-65-2	Naphthalene-d8	4180	10.041				
15067-26-2	Acenaphthene-d10	3190	13.957				
1517-22-2	Phenanthrene-d10	7890	16.723				
1719-03-5	Chrysene-d12	6610	20.965				
1520-96-3	Perylene-d12	6380	23.062				

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\BN120924\
 Data File : BN035515.D
 Acq On : 09 Dec 2024 20:07
 Operator : RC/JU
 Sample : P5164-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE105D1-20241206

Quant Time: Dec 10 01:27:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

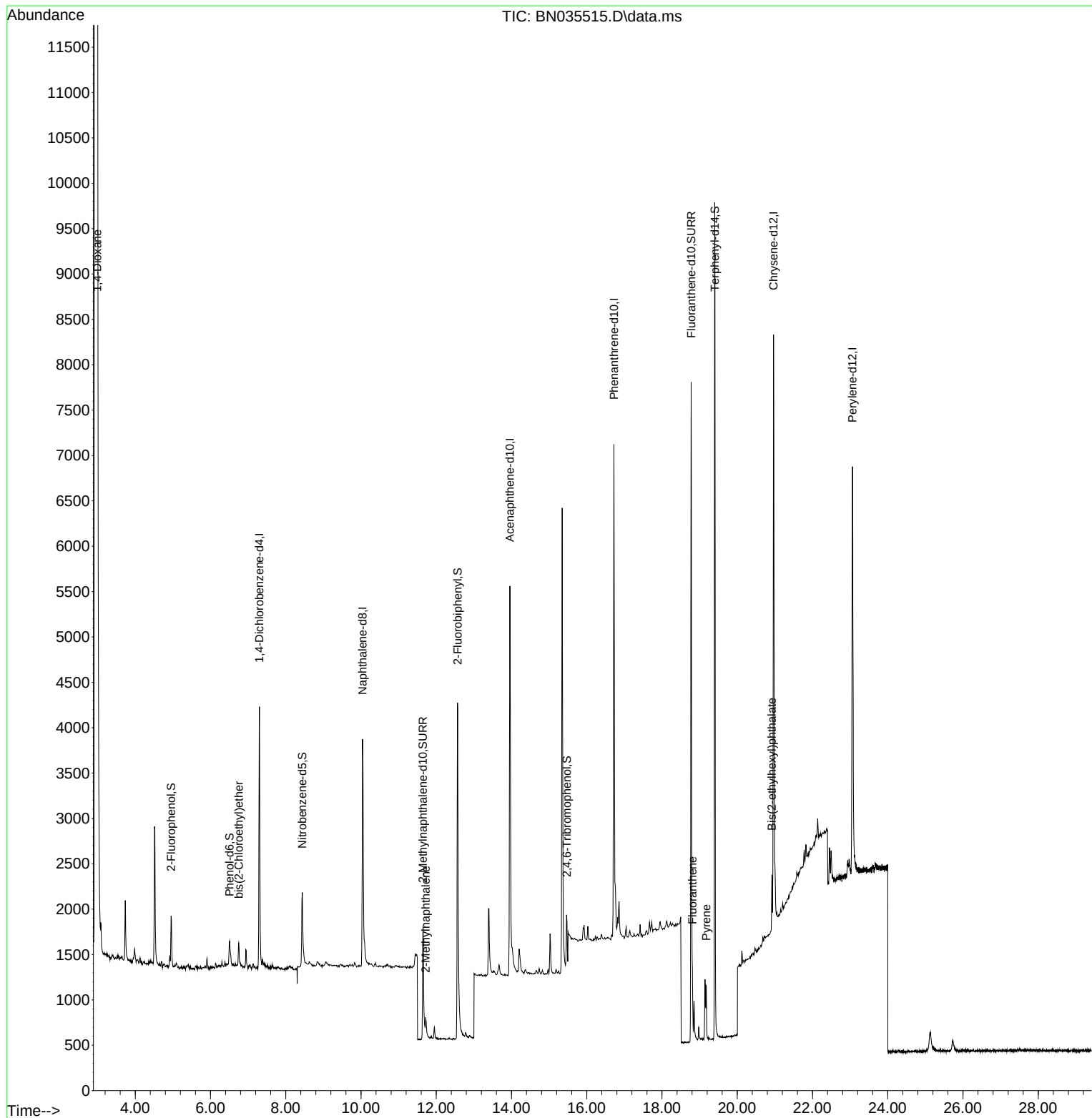
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1526	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4181	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3189	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7888	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	6613	0.400	ng	# 0.00
35) Perylene-d12	23.062	264	6375	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	515	0.135	ng	-0.01
5) Phenol-d6	6.506	99	362	0.079	ng	0.00
8) Nitrobenzene-d5	8.440	82	974	0.381	ng	0.00
11) 2-Methylnaphthalene-d10	11.646	152	2393	0.366	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	624	0.276	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4693	0.389	ng	0.00
27) Fluoranthene-d10	18.775	212	8943	0.400	ng	0.00
31) Terphenyl-d14	19.403	244	9308	0.714	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	6848	4.694	ng	96
6) bis(2-Chloroethyl)ether	6.752	93	214	0.055	ng	93
12) 2-Methylnaphthalene	11.722	142	170	0.022	ng	# 80
28) Fluoranthene	18.808	202	623	0.021	ng	# 91
30) Pyrene	19.175	202	530	0.022	ng	97
34) Bis(2-ethylhexyl)phtha...	20.920	149	701	0.077	ng	97

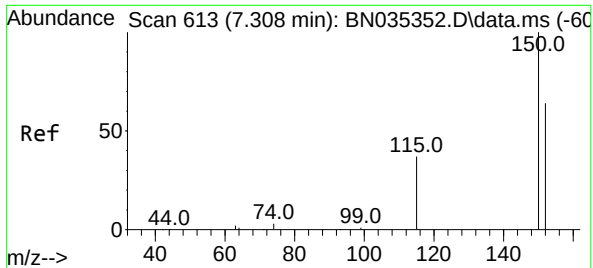
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035515.D
Acq On : 09 Dec 2024 20:07
Operator : RC/JU
Sample : P5164-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

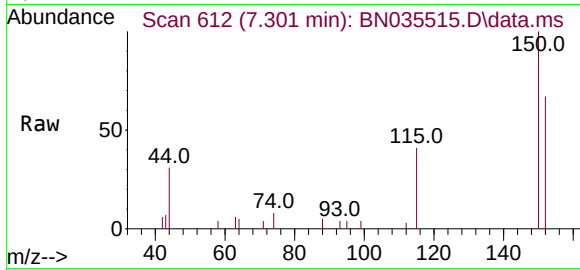
Quant Time: Dec 10 01:27:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



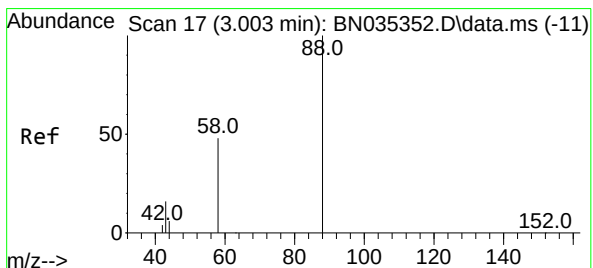
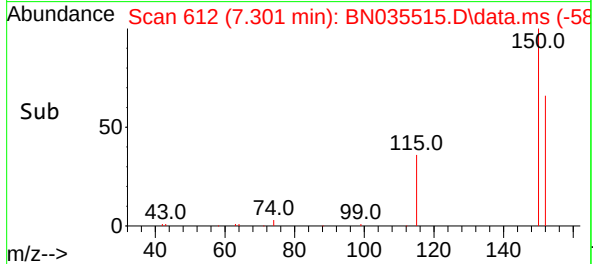
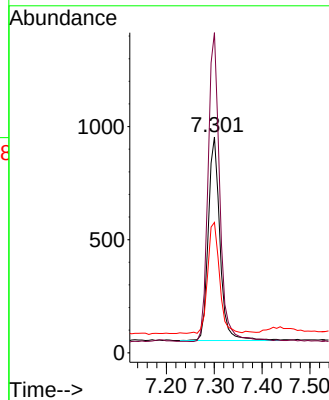


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

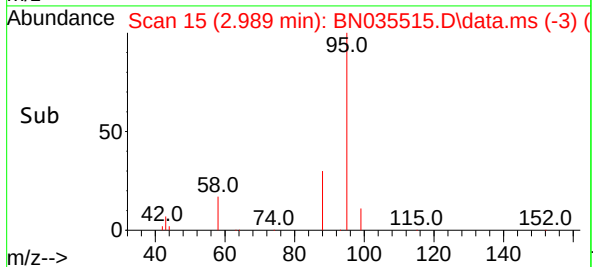
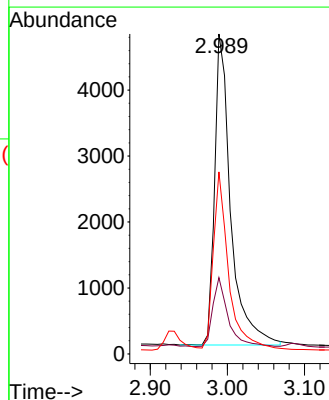
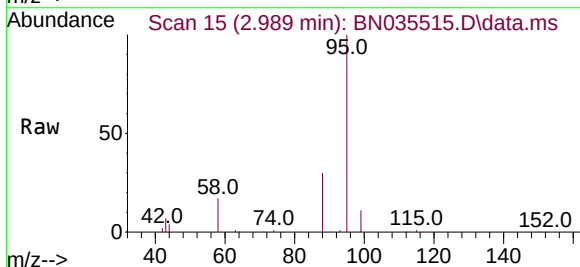


Tgt Ion:152 Resp: 1526
Ion Ratio Lower Upper
152 100
150 148.3 124.0 186.0
115 60.4 49.6 74.4

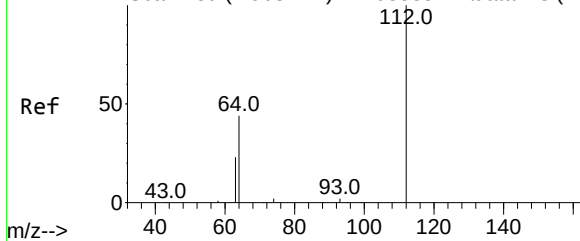


#2
1,4-Dioxane
Concen: 4.694 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion: 88 Resp: 6848
Ion Ratio Lower Upper
88 100
43 20.7 17.2 25.8
58 52.3 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.135 ng

RT: 4.953 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035515.D

Acq: 09 Dec 2024 20:07

Instrument :

BNA_N

ClientSampleId :

RE105D1-20241206

Tgt Ion:112 Resp: 515

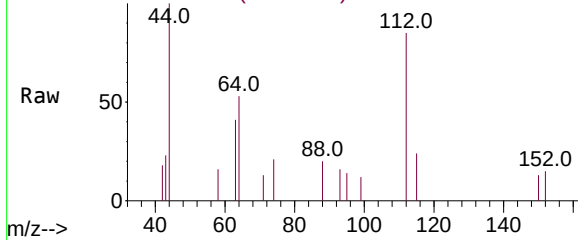
Ion Ratio Lower Upper

112 100

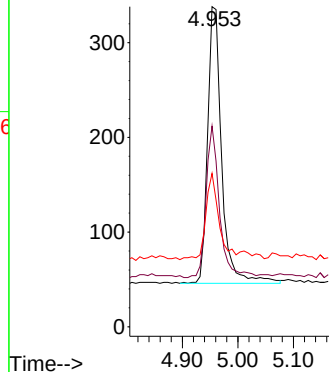
64 52.0 39.8 59.8

63 28.7 21.0 31.6

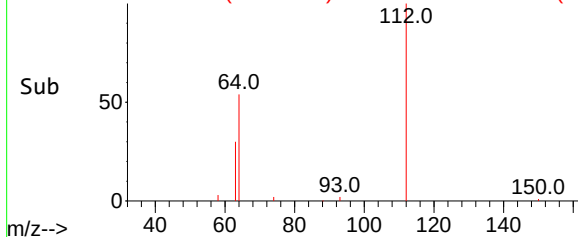
Abundance Scan 287 (4.953 min): BN035515.D\data.ms



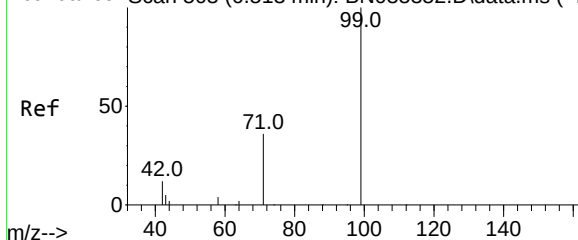
Abundance



Abundance Scan 287 (4.953 min): BN035515.D\data.ms (-26



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.079 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035515.D

Acq: 09 Dec 2024 20:07

Tgt Ion: 99 Resp: 362

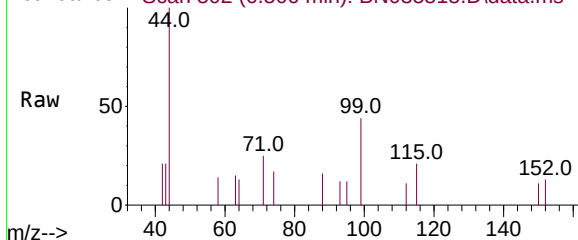
Ion Ratio Lower Upper

99 100

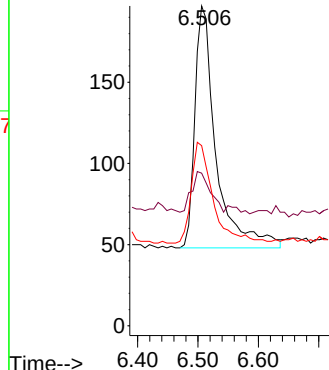
42 14.4 11.4 17.2

71 42.8 29.3 43.9

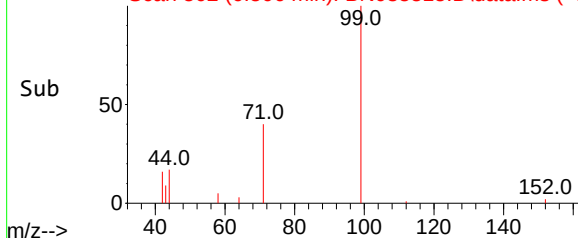
Abundance Scan 502 (6.506 min): BN035515.D\data.ms

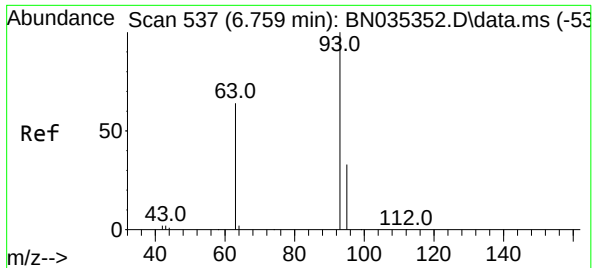


Abundance



Abundance Scan 502 (6.506 min): BN035515.D\data.ms (-47

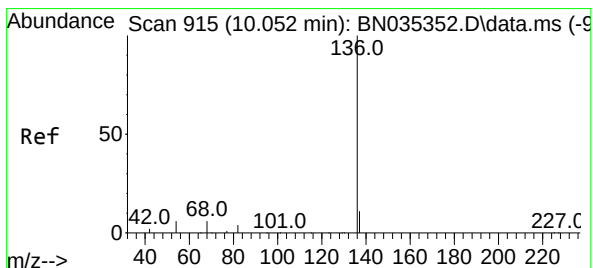
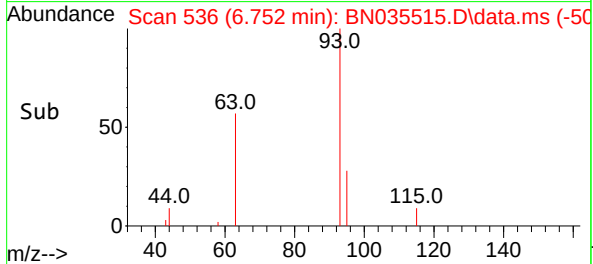
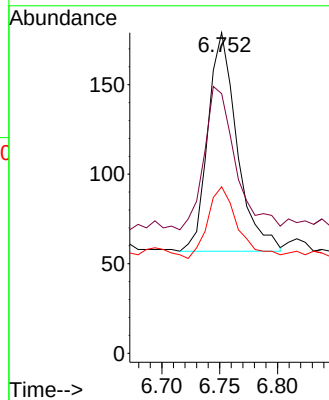
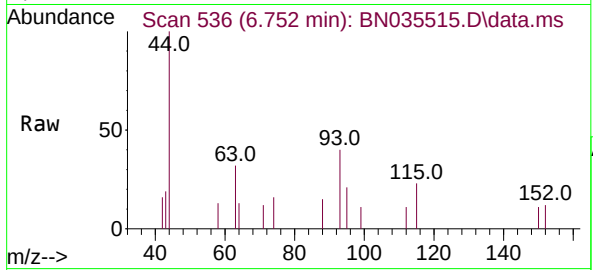




#6
bis(2-Chloroethyl)ether
Concen: 0.055 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

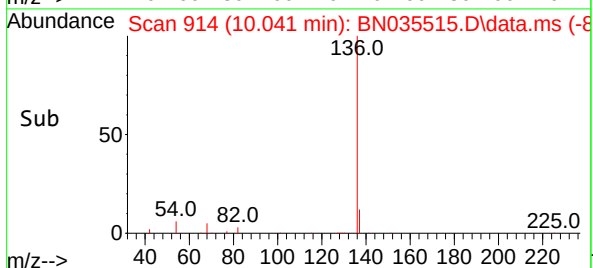
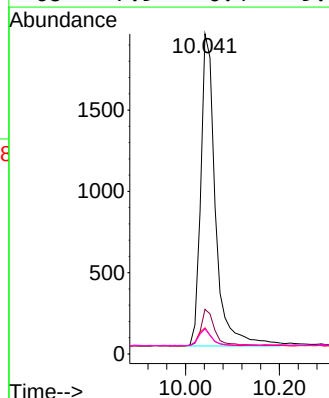
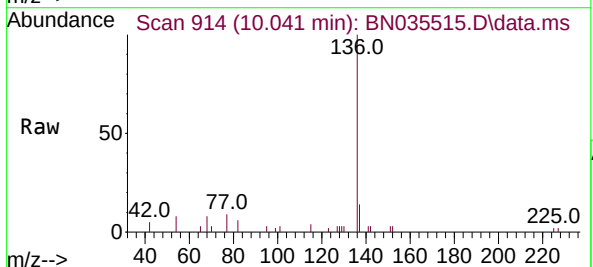
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

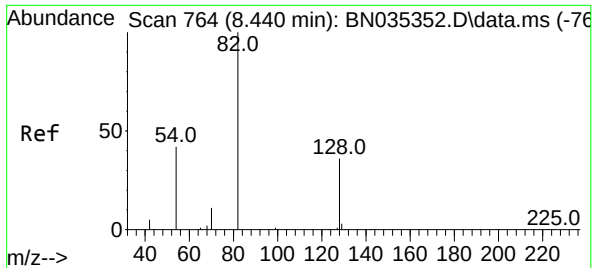
Tgt Ion: 93 Resp: 214
Ion Ratio Lower Upper
93 100
63 70.1 50.4 75.6
95 34.1 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion: 136 Resp: 4181
Ion Ratio Lower Upper
136 100
137 14.0 10.2 15.2
54 8.1 6.1 9.1
68 7.9 6.4 9.6

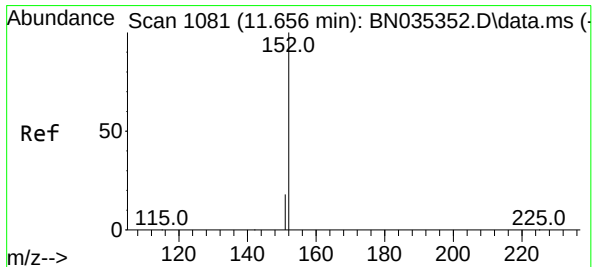
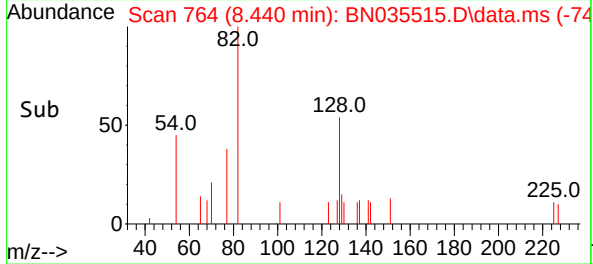
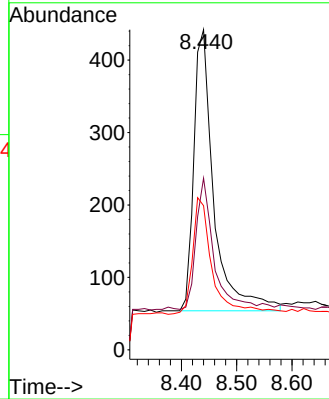
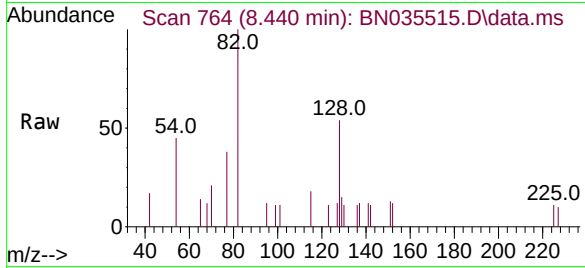




#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

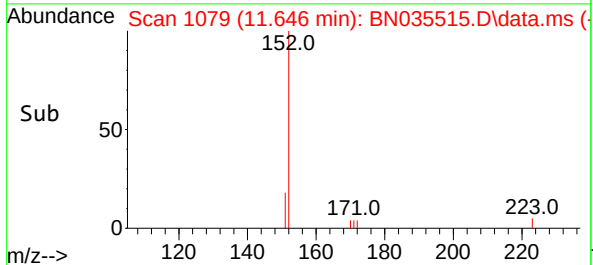
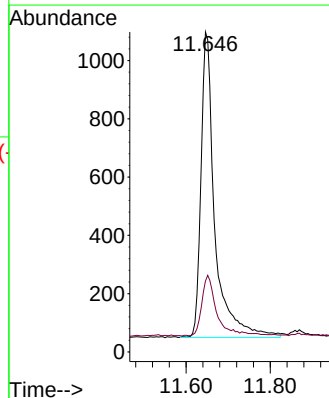
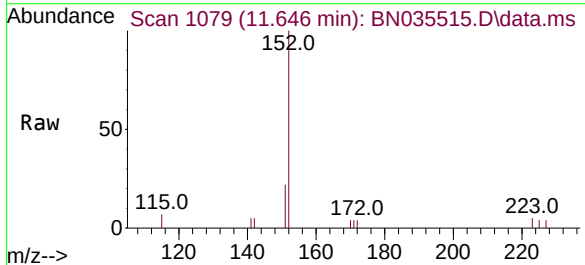
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

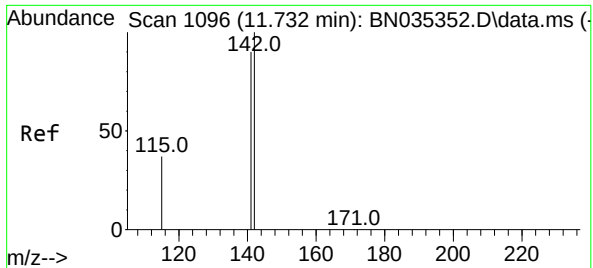
Tgt Ion: 82 Resp: 974
Ion Ratio Lower Upper
82 100
128 53.6 33.4 50.0#
54 45.0 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion: 152 Resp: 2393
Ion Ratio Lower Upper
152 100
151 20.0 16.6 25.0

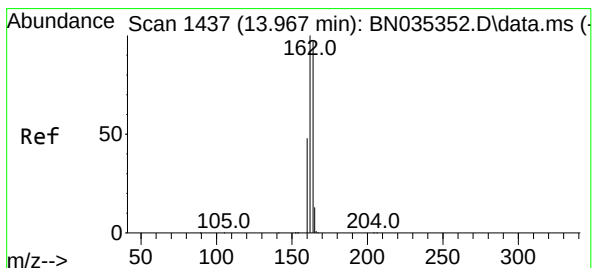
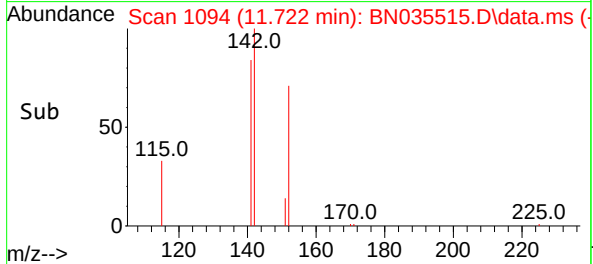
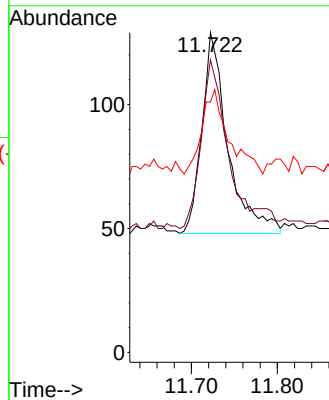
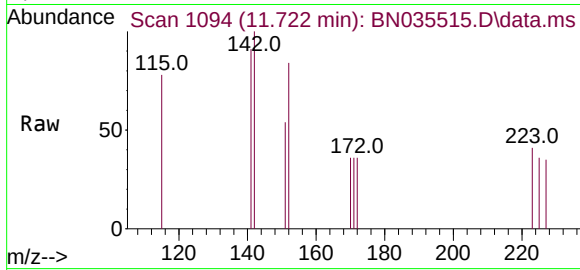




#12
2-Methylnaphthalene
Concen: 0.022 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

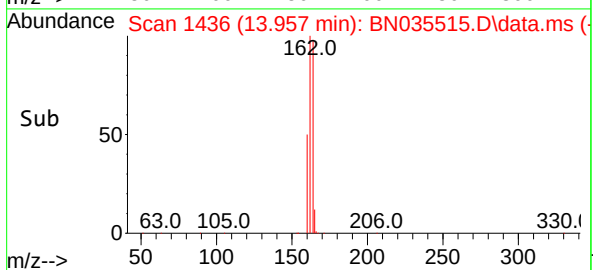
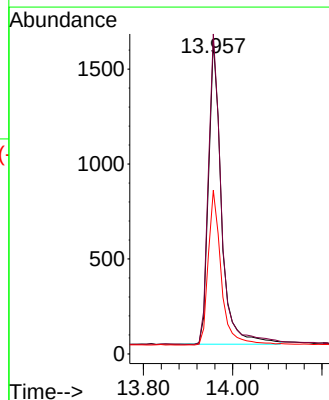
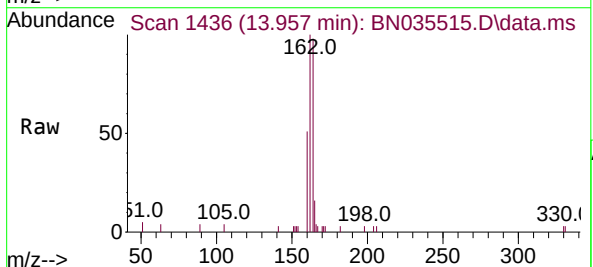
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

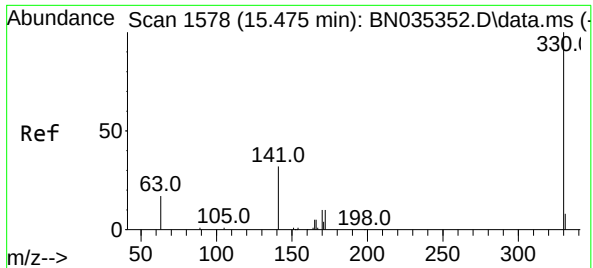
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	72.2	108.4
115	78.3	31.4	47.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	52.3	40.1	60.1

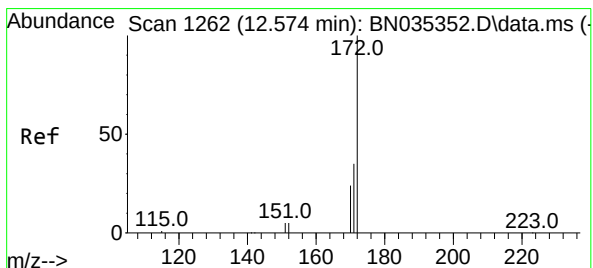
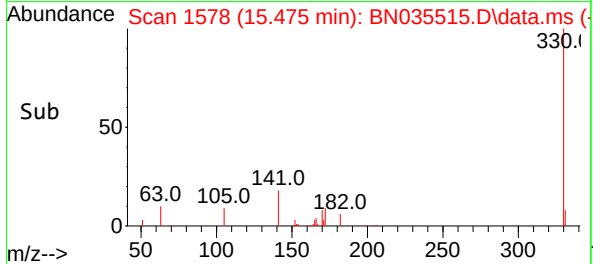
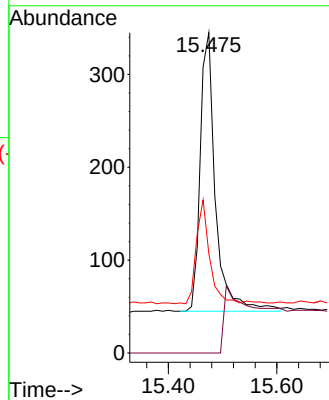
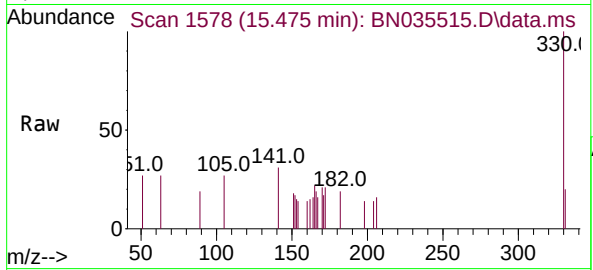




#14
2,4,6-Tribromophenol
Concen: 0.276 ng
RT: 15.475 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

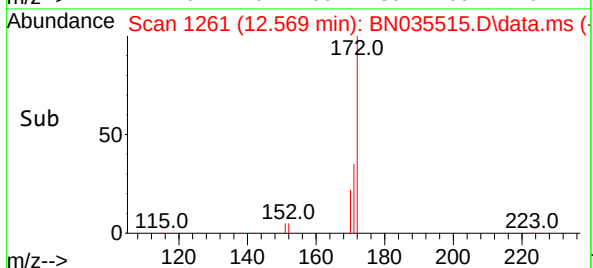
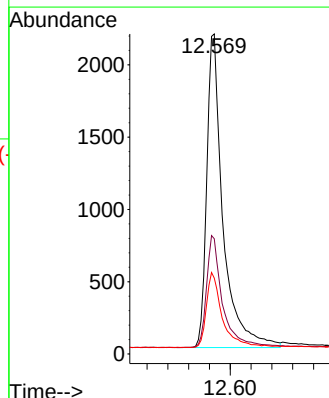
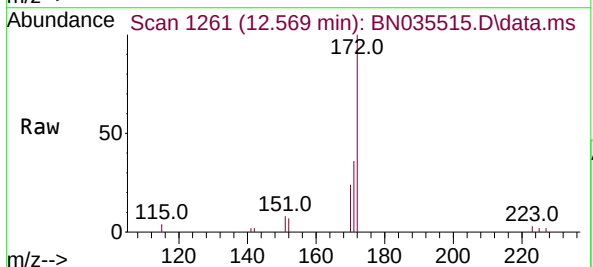
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

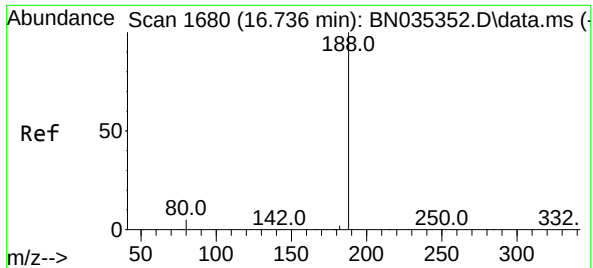
Tgt Ion:330 Resp: 624
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.1 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion:172 Resp: 4693
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 23.7 19.8 29.8

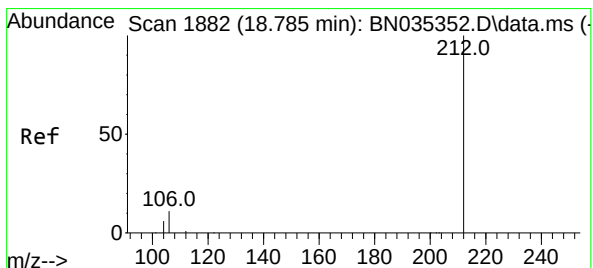
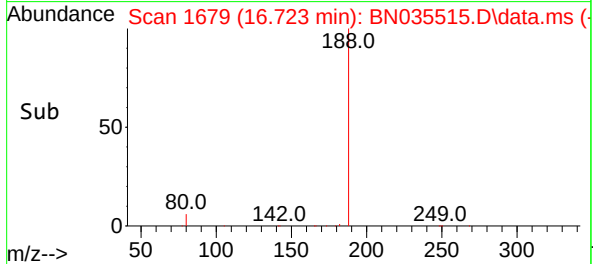
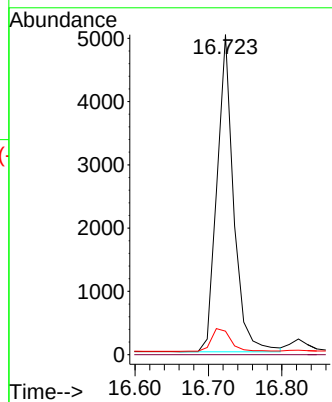
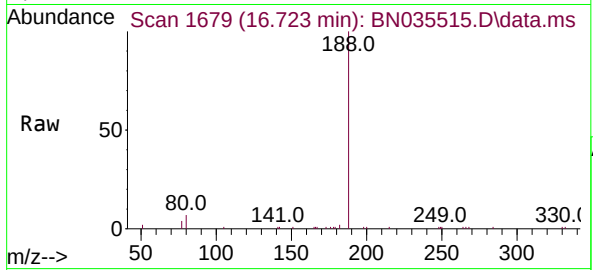




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

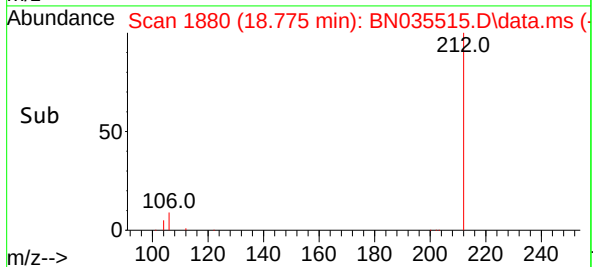
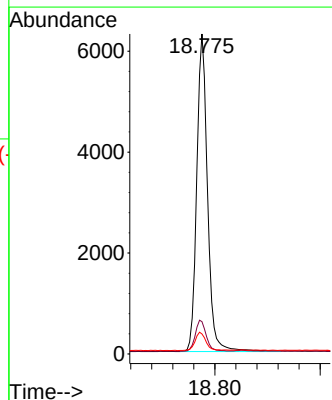
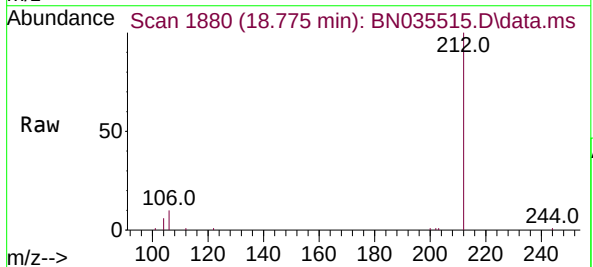
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

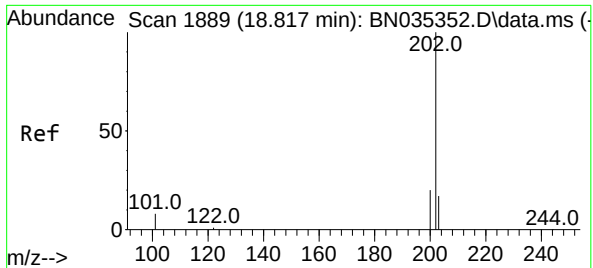
Tgt Ion:188 Resp: 7888
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.4 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion:212 Resp: 8943
Ion Ratio Lower Upper
212 100
106 9.8 9.2 13.8
104 5.7 5.3 7.9

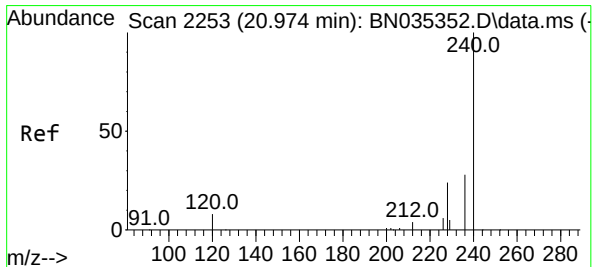
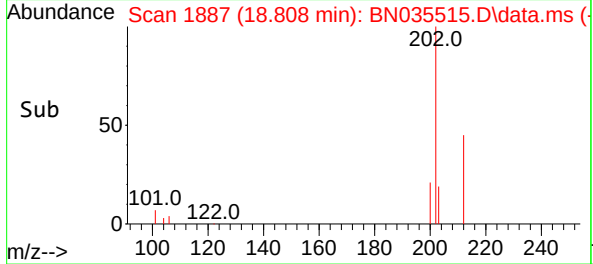
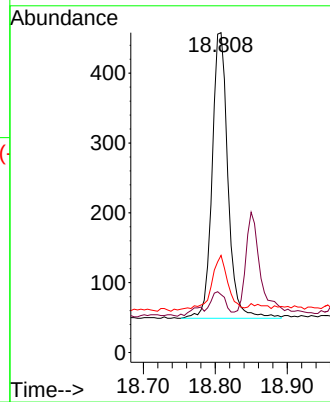
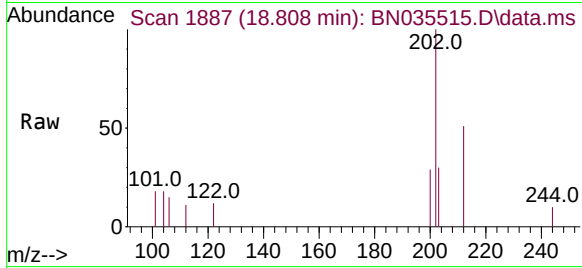




#28
Fluoranthene
Concen: 0.021 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

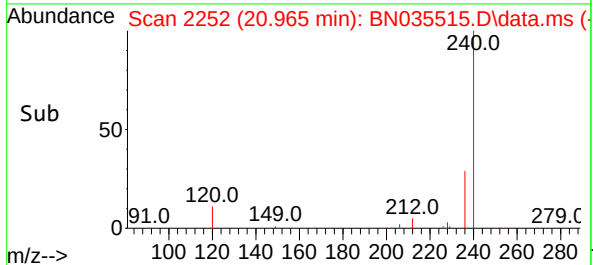
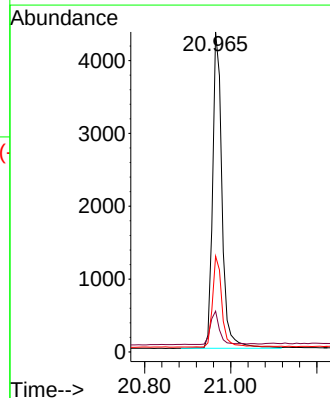
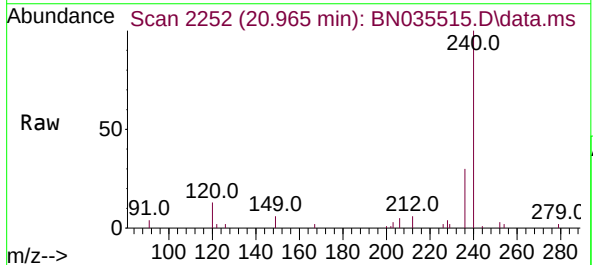
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

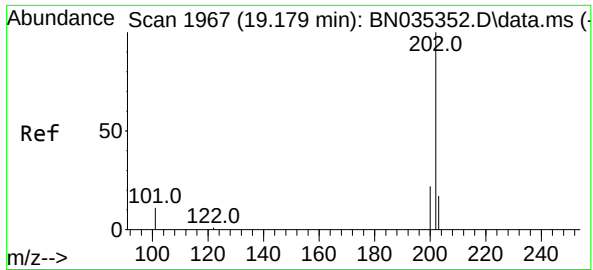
Tgt Ion:202 Resp: 623
Ion Ratio Lower Upper
202 100
101 6.9 7.4 11.0#
203 21.5 13.7 20.5#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion:240 Resp: 6613
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 29.9 22.9 34.3

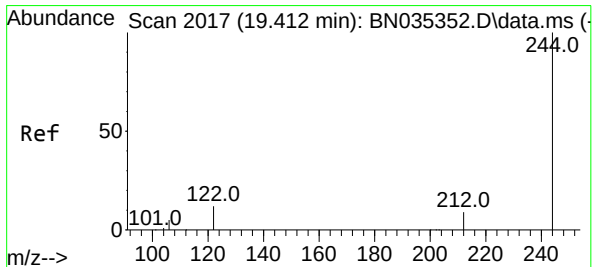
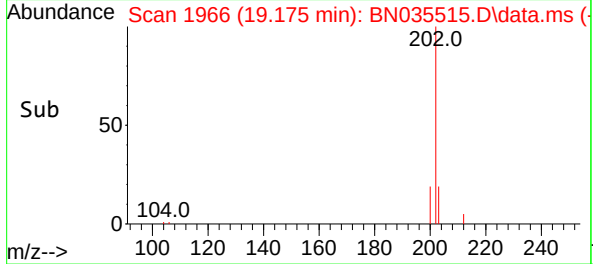
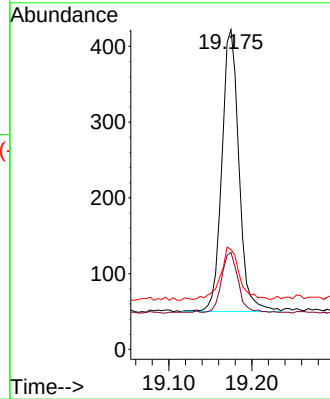
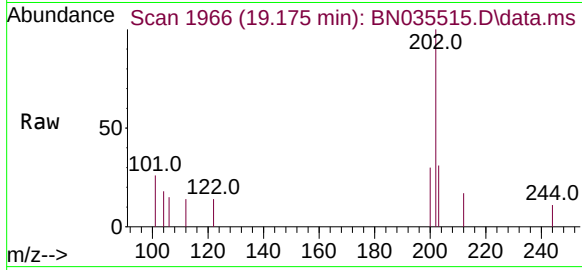




#30
Pyrene
Concen: 0.022 ng
RT: 19.175 min Scan# 1967
Delta R.T. -0.005 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

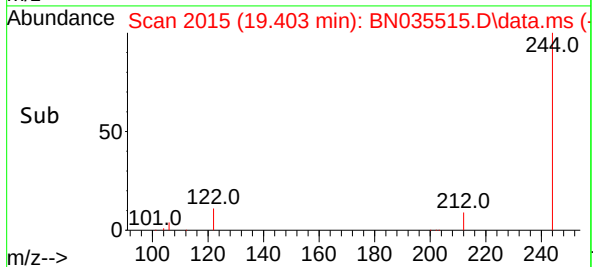
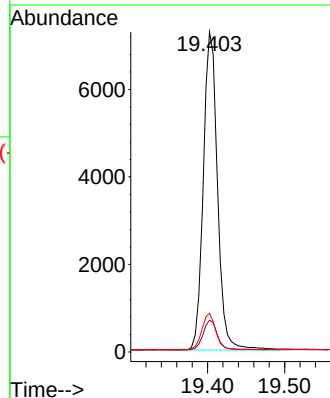
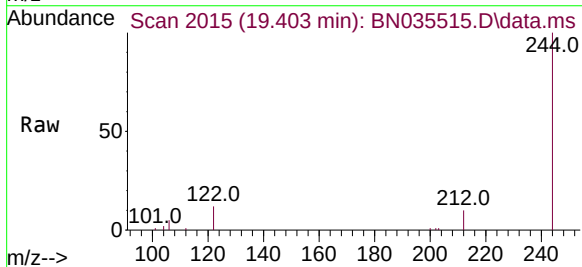
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

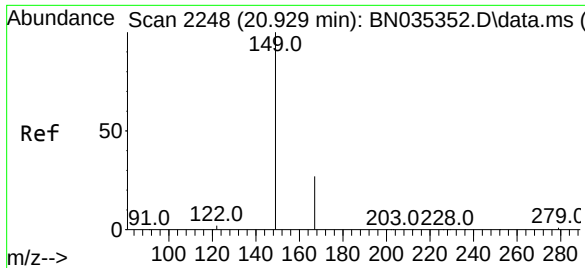
Tgt Ion:202	Resp:	530
Ion	Ratio	Lower Upper
202	100	
200	21.5	17.0 25.4
203	20.0	14.3 21.5



#31
Terphenyl-d14
Concen: 0.714 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion:244	Resp:	9308
Ion	Ratio	Lower Upper
244	100	
212	9.9	8.1 12.1
122	12.1	10.3 15.5

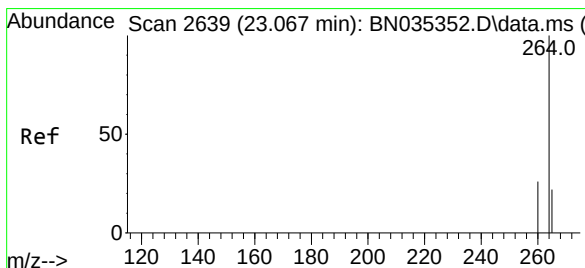
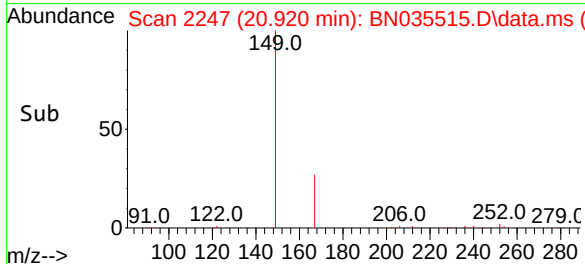
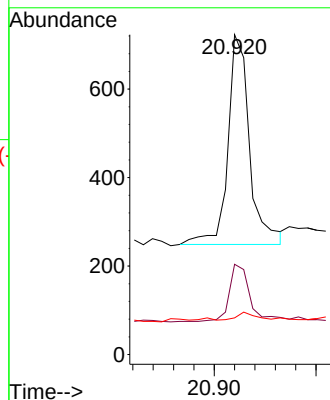
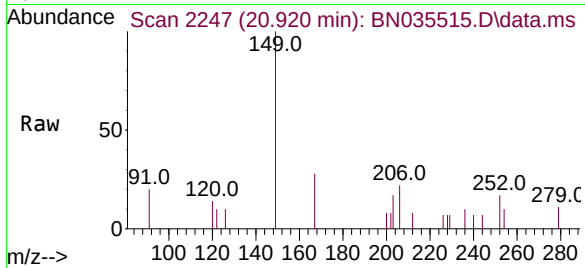




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.920 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

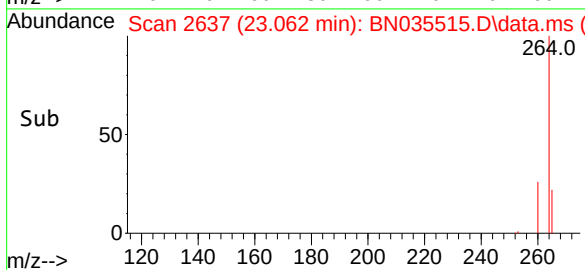
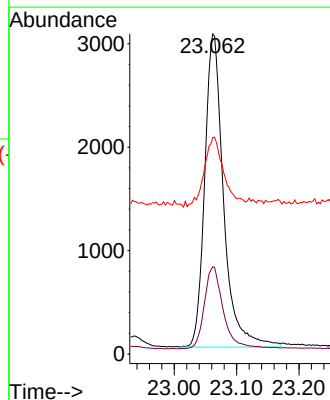
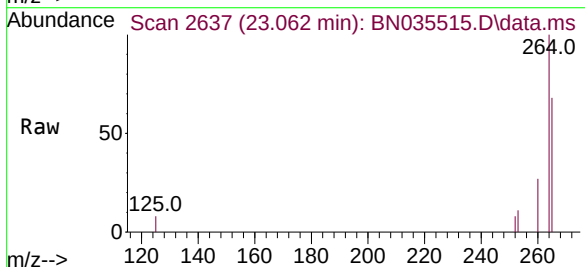
Instrument :
BNA_N
ClientSampleId :
RE105D1-20241206

Tgt Ion:149 Resp: 701
Ion Ratio Lower Upper
149 100
167 25.8 22.2 33.4
279 3.7 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035515.D
Acq: 09 Dec 2024 20:07

Tgt Ion:264 Resp: 6375
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 67.6 40.2 60.4#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035514.D	1	12/09/24 11:27	12/09/24 19:31	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.67	*	58 - 132		166%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.3				
1146-65-2	Naphthalene-d8	4180	10.041				
15067-26-2	Acenaphthene-d10	3090	13.956				
1517-22-2	Phenanthrene-d10	7600	16.723				
1719-03-5	Chrysene-d12	6220	20.965				
1520-96-3	Perylene-d12	6150	23.061				

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\BN120924\
 Data File : BN035514.D
 Acq On : 09 Dec 2024 19:31
 Operator : RC/JU
 Sample : P5164-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE105D2-20241206

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:27:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

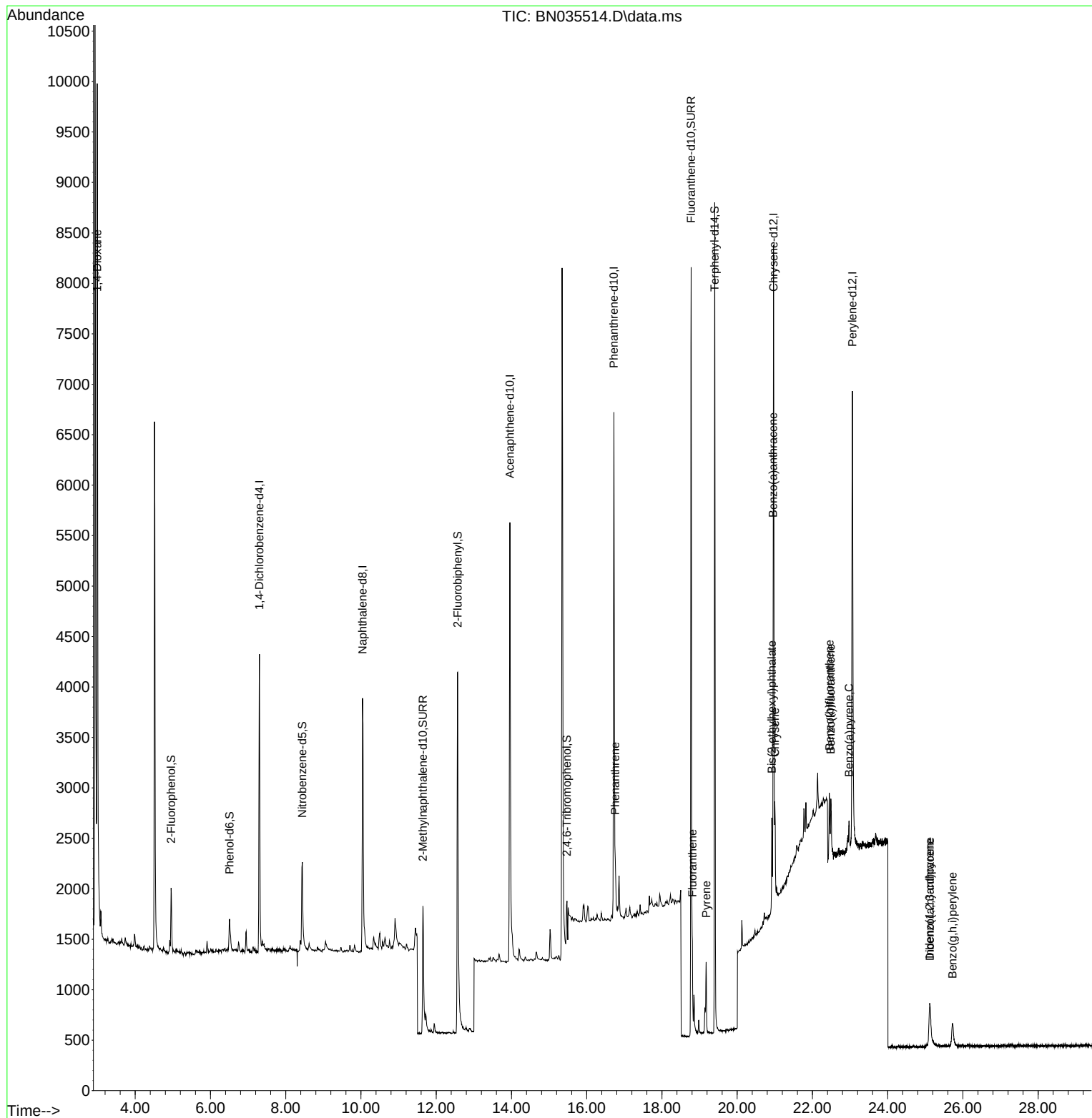
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1515	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4180	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3091	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7600	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	6224	0.400	ng	0.00
35) Perylene-d12	23.061	264	6145	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	573	0.151	ng	-0.01
5) Phenol-d6	6.506	99	418	0.092	ng	0.00
8) Nitrobenzene-d5	8.440	82	1055m	0.413	ng	0.00
11) 2-Methylnaphthalene-d10	11.646	152	2519	0.385	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	562	0.256	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4789	0.410	ng	0.00
27) Fluoranthene-d10	18.775	212	9287	0.431	ng	0.00
31) Terphenyl-d14	19.402	244	8183	0.666	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	6196	4.278	ng	99
25) Phenanthrene	16.760	178	430	0.021	ng	97
28) Fluoranthene	18.808	202	717	0.025	ng	# 96
30) Pyrene	19.175	202	646	0.028	ng	99
32) Benzo(a)anthracene	20.956	228	618	0.028	ng	# 85
33) Chrysene	21.000	228	757	0.034	ng	# 87
34) Bis(2-ethylhexyl)phtha...	20.920	149	882	0.103	ng	97
36) Indeno(1,2,3-cd)pyrene	25.117	276	670	0.028	ng	# 83
37) Benzo(b)fluoranthene	22.450	252	920	0.041	ng	# 31
38) Benzo(k)fluoranthene	22.488	252	733	0.033	ng	# 20
39) Benzo(a)pyrene	22.971	252	393	0.021	ng	# 1
40) Dibenzo(a,h)anthracene	25.123	278	465	0.025	ng	# 8
41) Benzo(g,h,i)perylene	25.722	276	580	0.029	ng	# 50

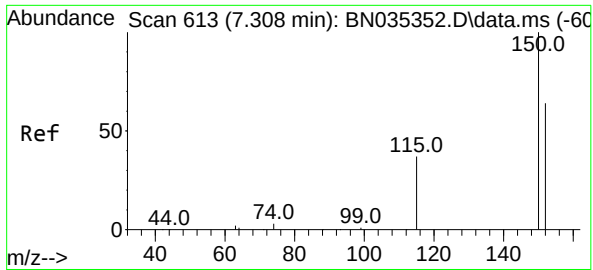
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

Manual Integrations

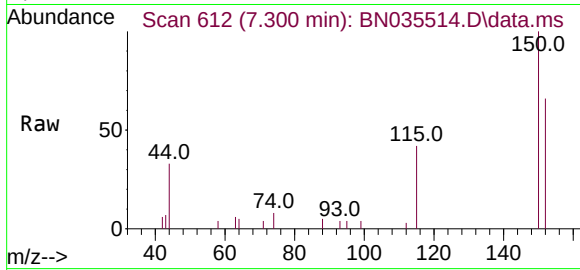
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

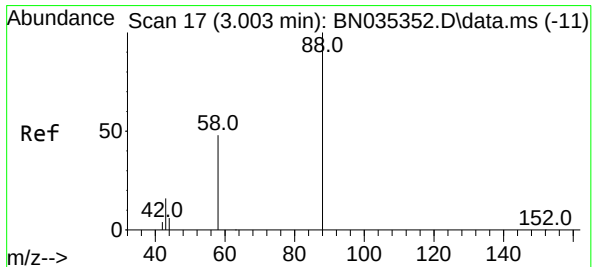
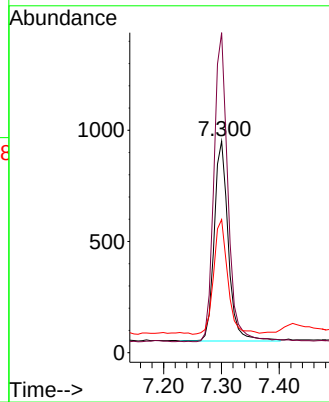
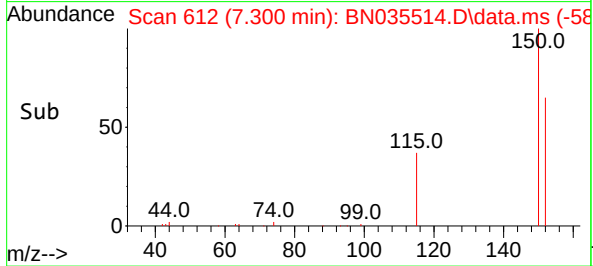
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:152 Resp: 151
Ion Ratio Lower Upper
152 100
150 151.3 124.0 186.0
115 63.0 49.6 74.4

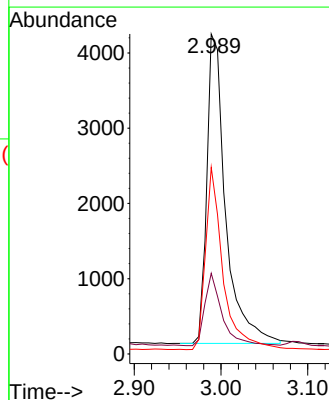
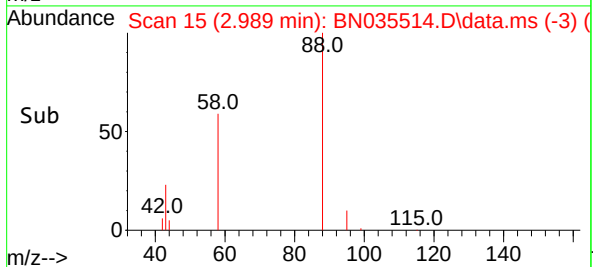
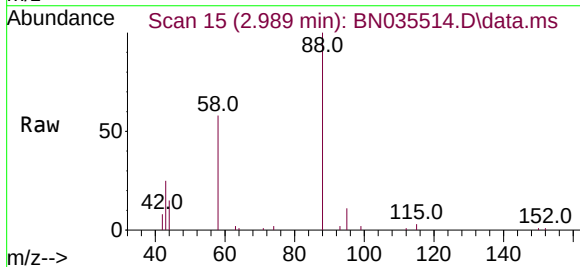
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

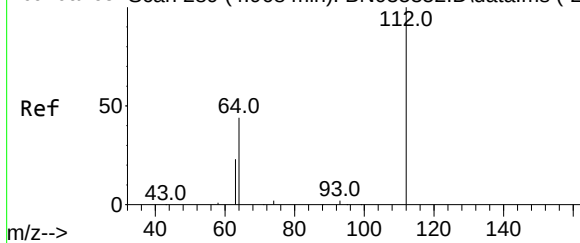


#2
1,4-Dioxane
Concen: 4.278 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion: 88 Resp: 6196
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 54.7 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.151 ng

RT: 4.953 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

Tgt Ion:	112	Resp:	57
Ion	Ratio	Lower	Upper
112	100		
64	52.2	39.8	59.8
63	29.1	21.0	31.6

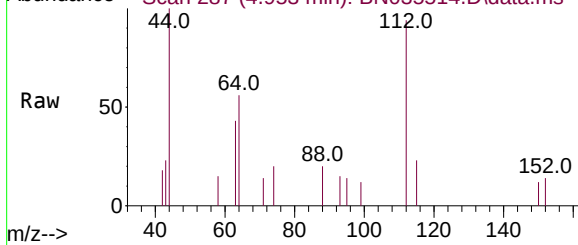
Manual Integrations

APPROVED

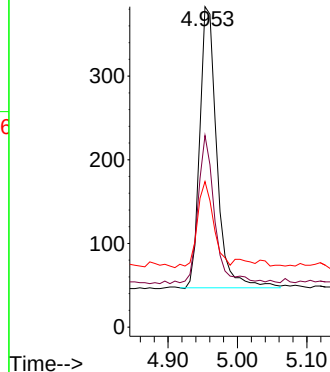
Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024

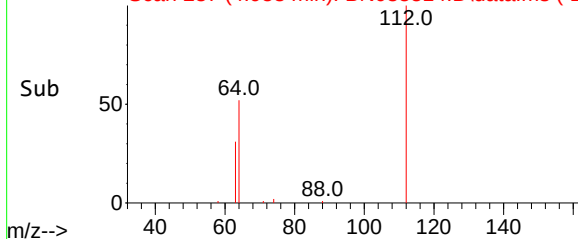
Abundance Scan 287 (4.953 min): BN035514.D\data.ms



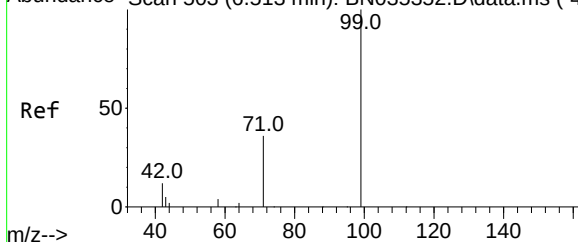
Abundance



Abundance Scan 287 (4.953 min): BN035514.D\data.ms (-26



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.092 ng

RT: 6.506 min Scan# 502

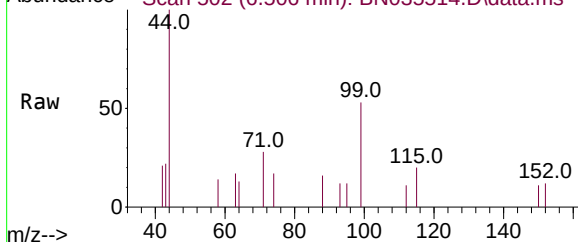
Delta R.T. -0.007 min

Lab File: BN035514.D

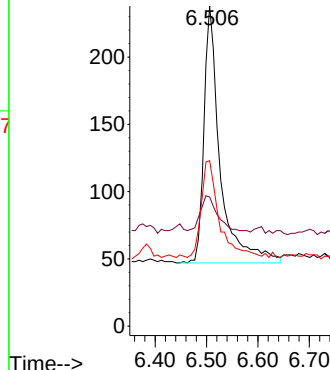
Acq: 09 Dec 2024 19:31

Tgt Ion:	99	Resp:	418
Ion	Ratio	Lower	Upper
99	100		
42	17.0	11.4	17.2
71	41.4	29.3	43.9

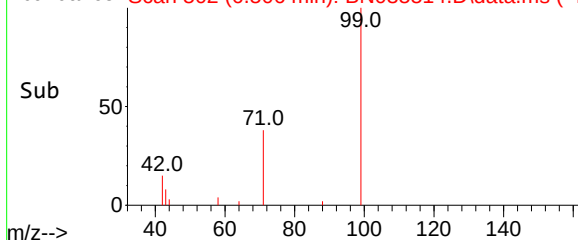
Abundance Scan 502 (6.506 min): BN035514.D\data.ms

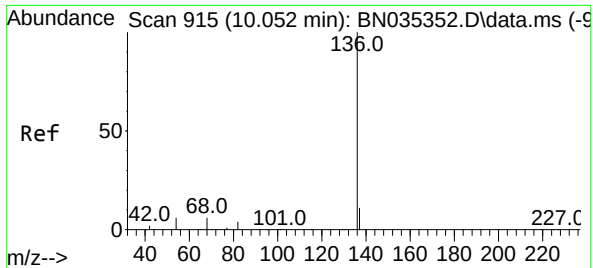


Abundance



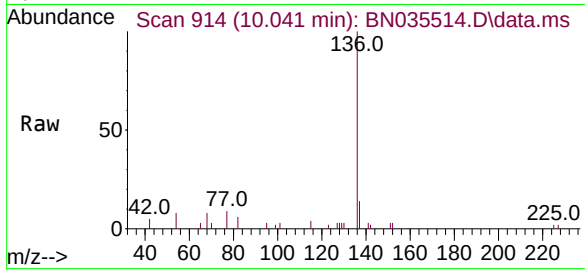
Abundance Scan 502 (6.506 min): BN035514.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

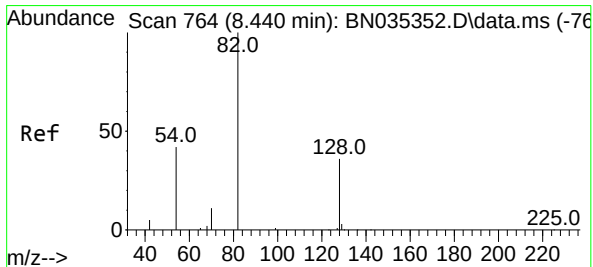
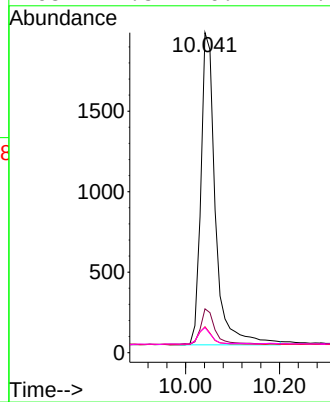
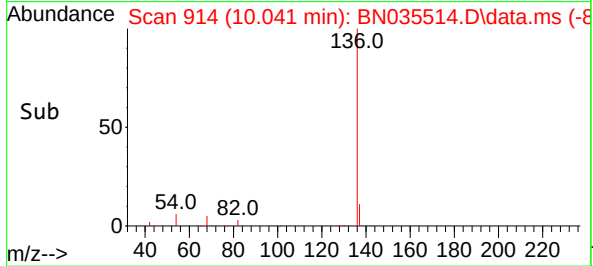
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:136 Resp: 4180
Ion Ratio Lower Upper
136 100
137 13.7 10.2 15.2
54 8.1 6.1 9.1
68 7.8 6.4 9.6

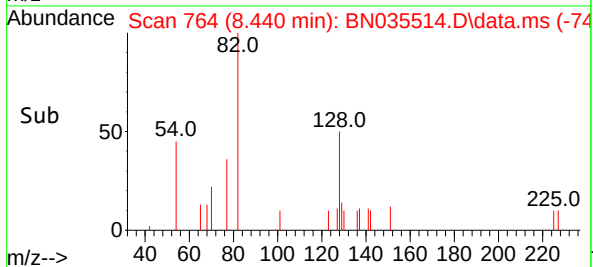
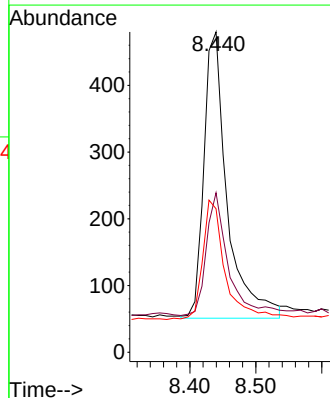
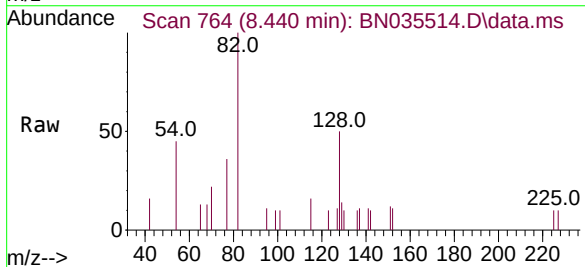
Manual Integrations
APPROVED

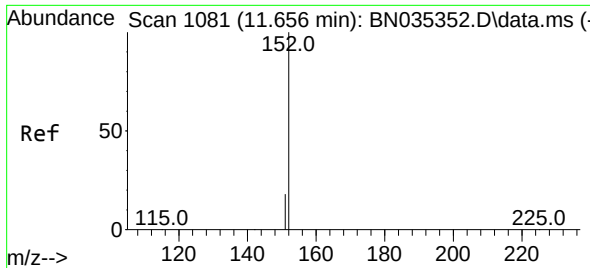
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.413 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

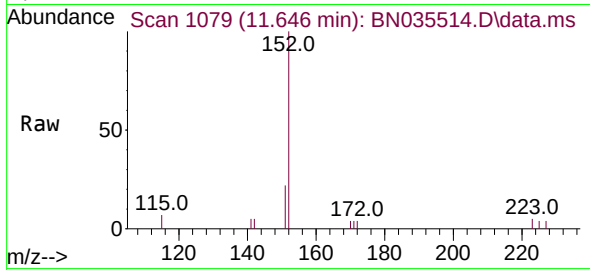
Tgt Ion: 82 Resp: 1055
Ion Ratio Lower Upper
82 100
128 49.8 33.4 50.0
54 44.8 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.646 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

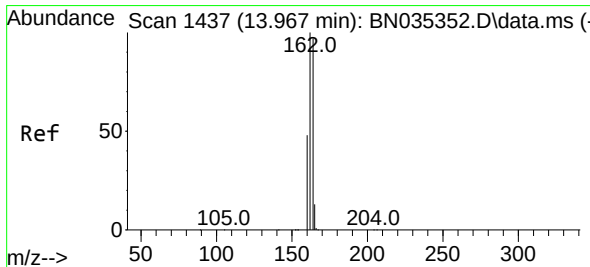
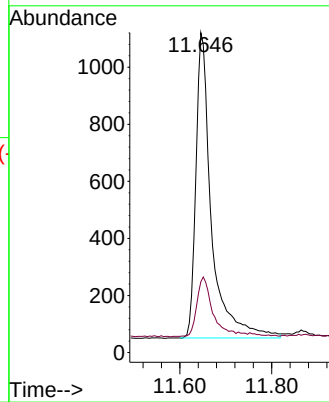
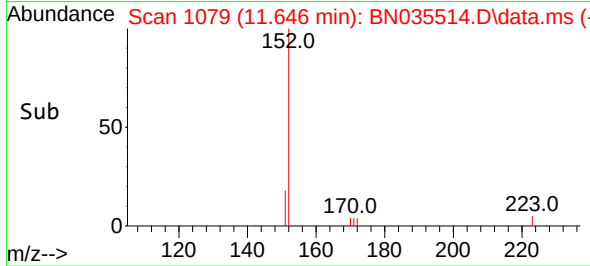
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:152 Resp: 2519
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

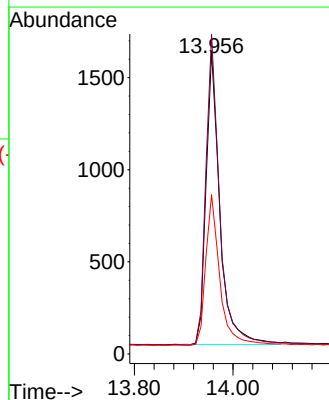
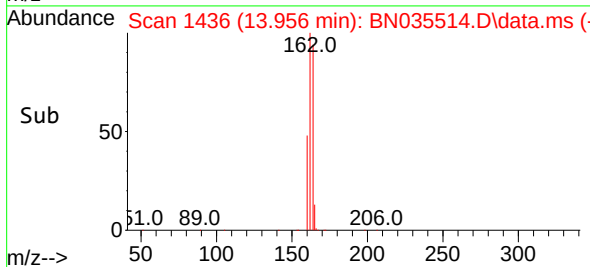
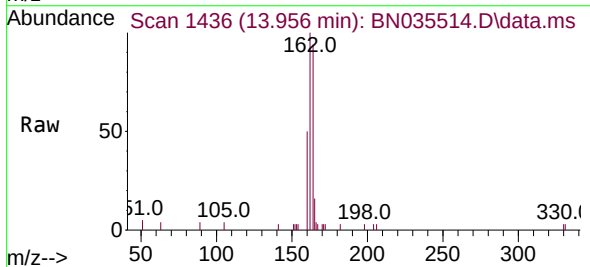
Manual Integrations
APPROVED

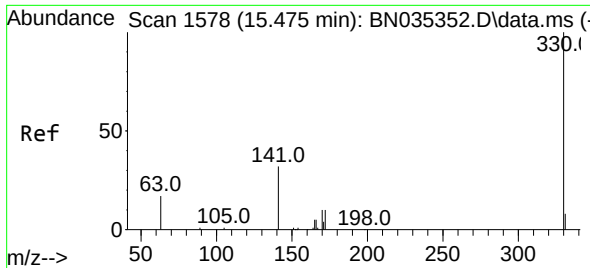
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

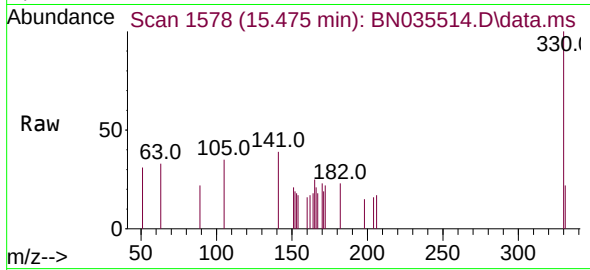
Tgt Ion:164 Resp: 3091
Ion Ratio Lower Upper
164 100
162 105.9 82.2 123.2
160 52.7 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.256 ng
RT: 15.475 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

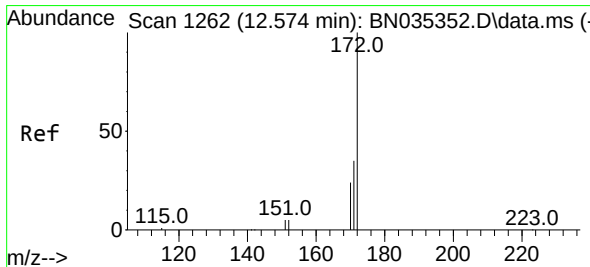
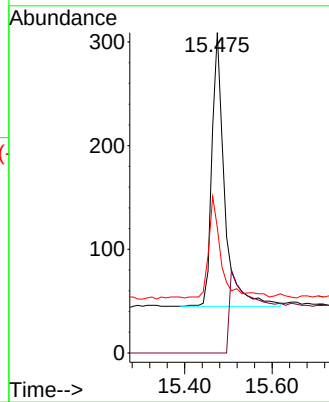
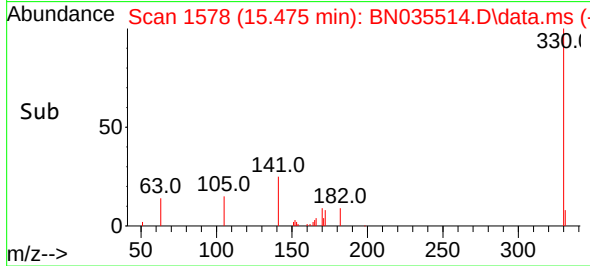
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:330 Resp: 562
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.5 26.6 40.0

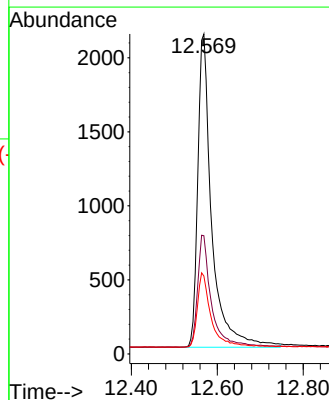
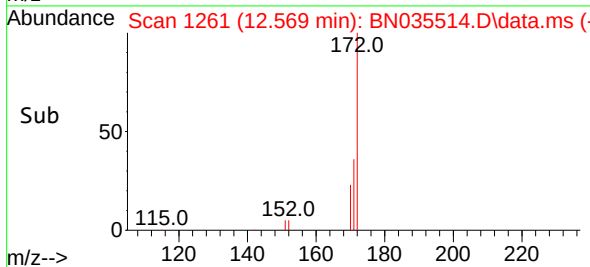
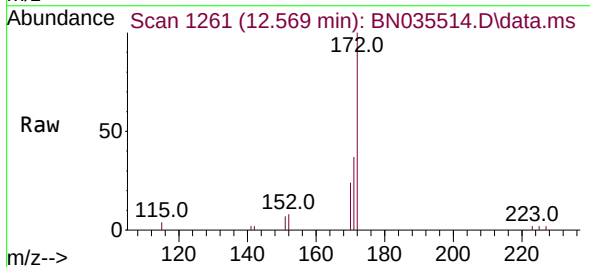
Manual Integrations
APPROVED

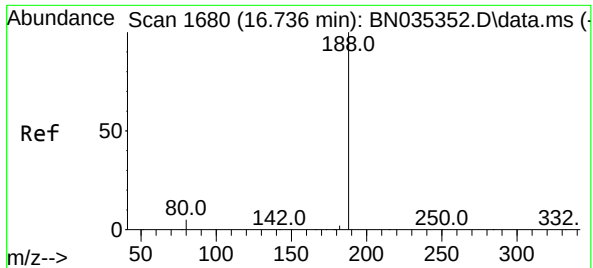
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:172 Resp: 4789
Ion Ratio Lower Upper
172 100
171 36.9 29.0 43.4
170 24.3 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1679

Delta R.T. -0.012 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

Tgt Ion:188 Resp: 7600

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

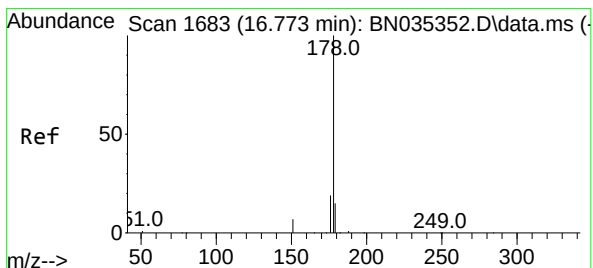
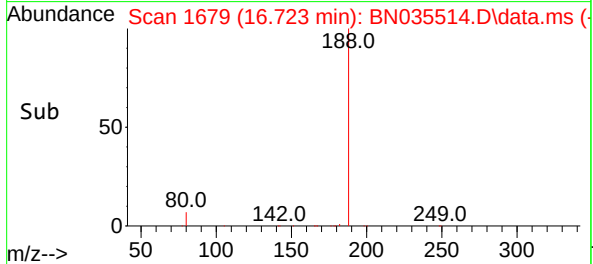
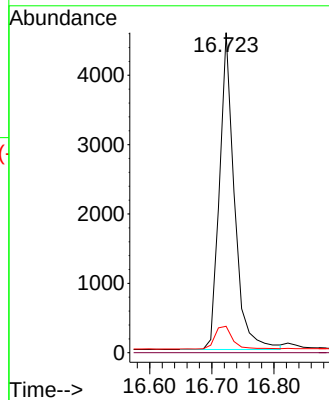
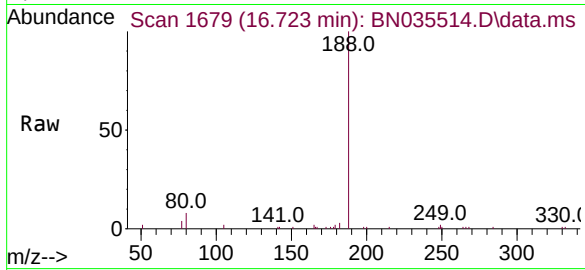
80 8.3 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#25

Phenanthrene

Concen: 0.021 ng

RT: 16.760 min Scan# 1682

Delta R.T. -0.013 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

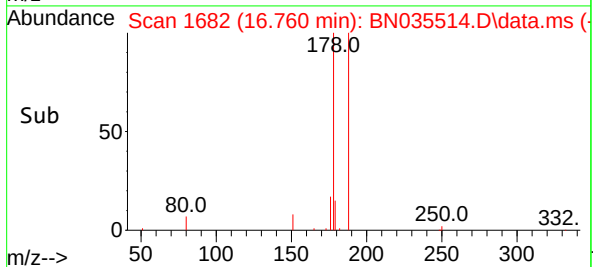
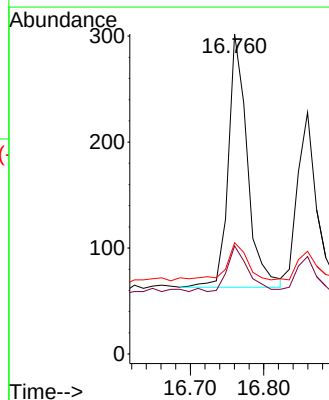
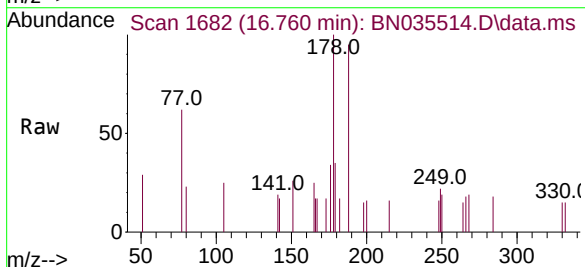
Tgt Ion:178 Resp: 430

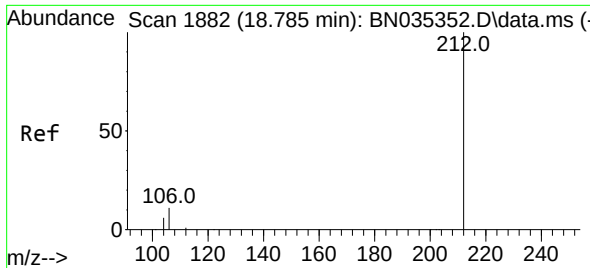
Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.2

179 17.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.431 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

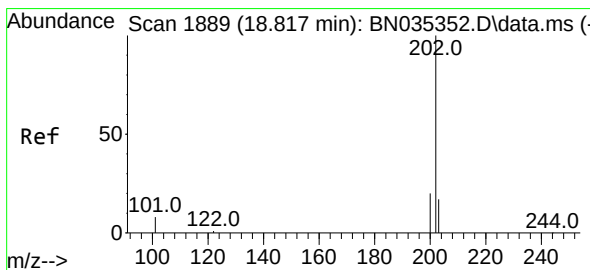
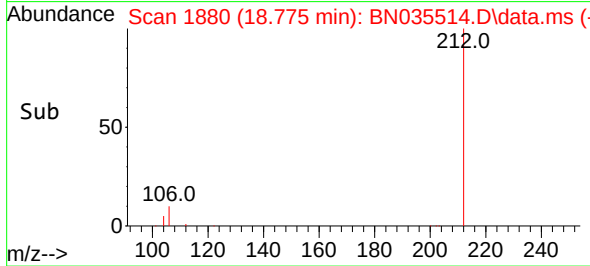
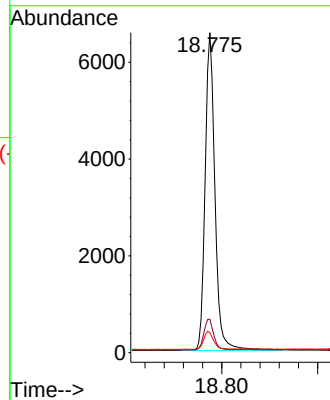
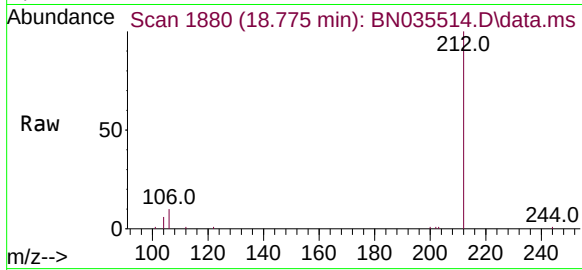
Tgt Ion:	212	Resp:	928
Ion Ratio	Lower	Upper	
212	100		
106	9.7	9.2	13.8
104	5.6	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#28

Fluoranthene

Concen: 0.025 ng

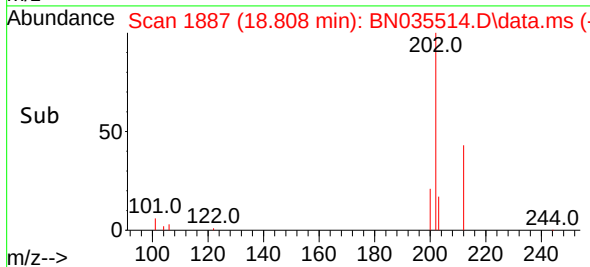
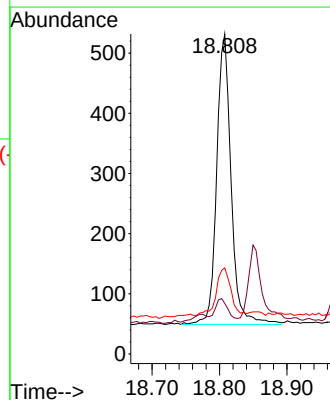
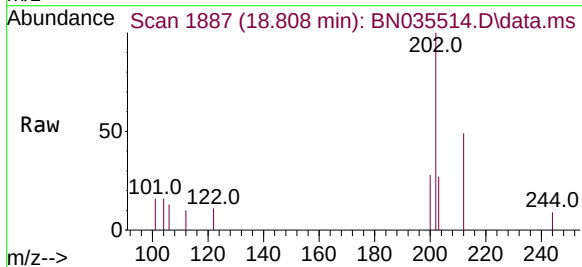
RT: 18.808 min Scan# 1887

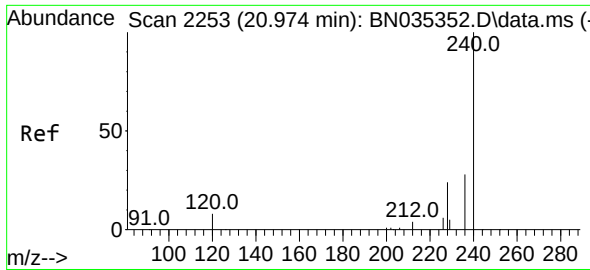
Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

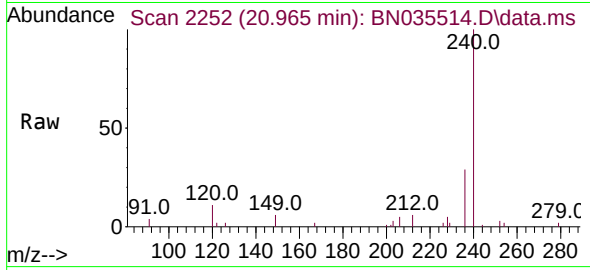
Tgt Ion:	202	Resp:	717
Ion Ratio	Lower	Upper	
202	100		
101	6.4	7.4	11.0#
203	17.7	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

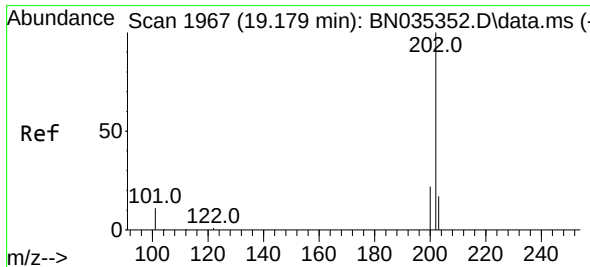
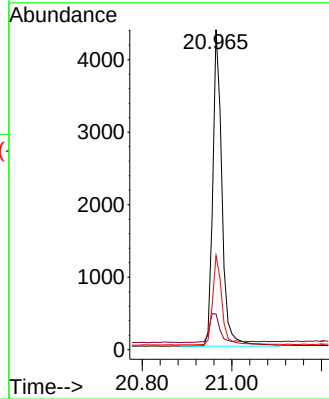
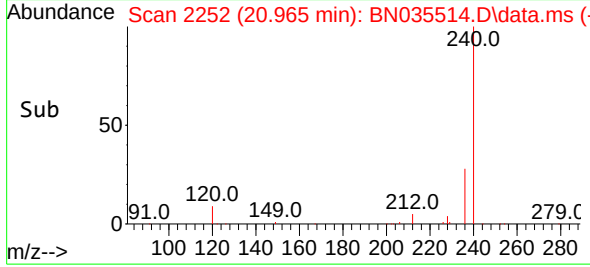
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:240 Resp: 6224
Ion Ratio Lower Upper
240 100
120 11.2 7.9 11.9
236 29.4 22.9 34.3

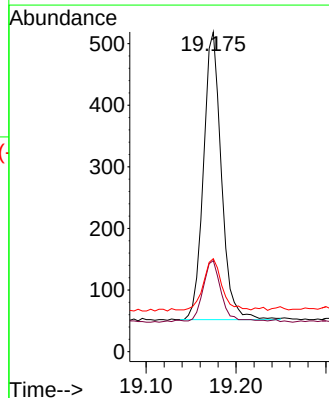
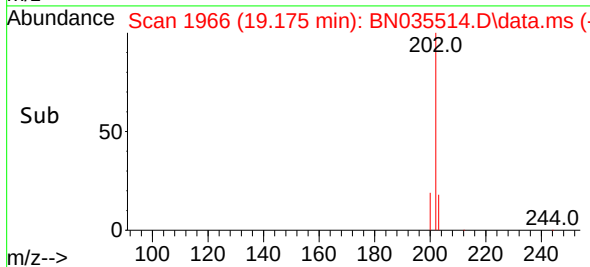
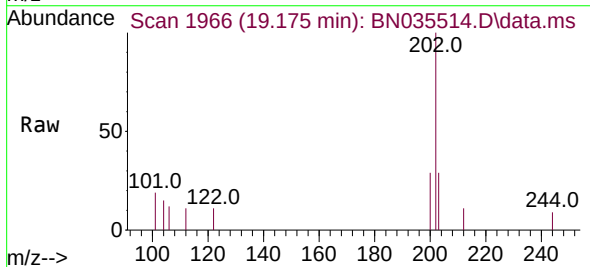
Manual Integrations
APPROVED

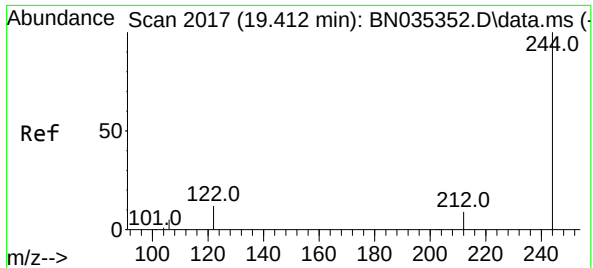
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#30
Pyrene
Concen: 0.028 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

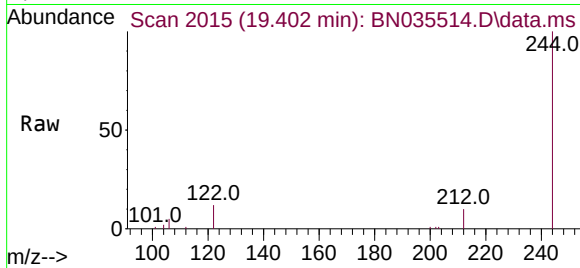
Tgt Ion:202 Resp: 646
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 18.6 14.3 21.5





#31
Terphenyl-d14
Concen: 0.666 ng
RT: 19.402 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

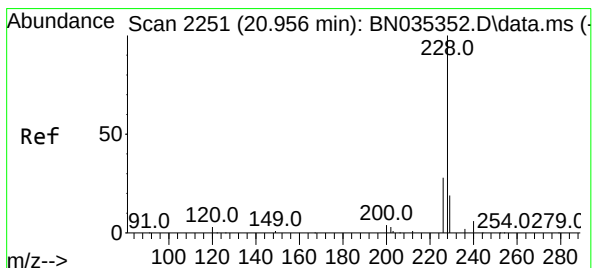
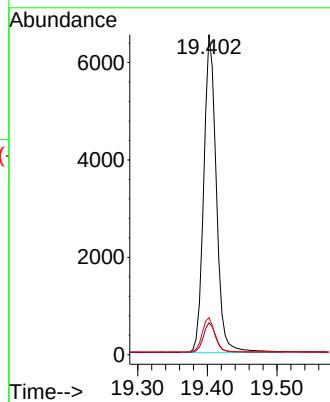
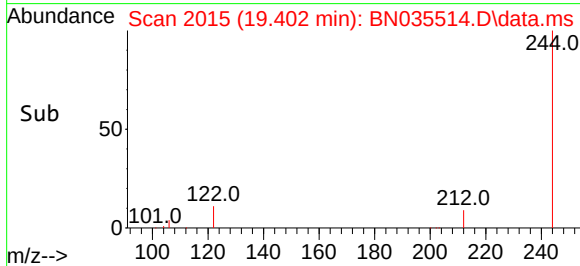
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:244 Resp: 818
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 11.5 10.3 15.5

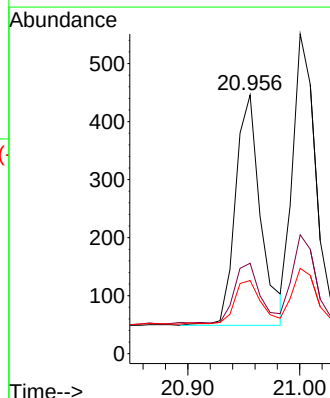
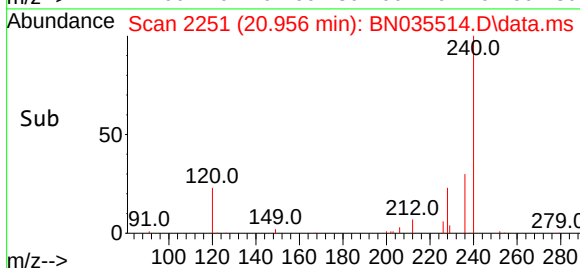
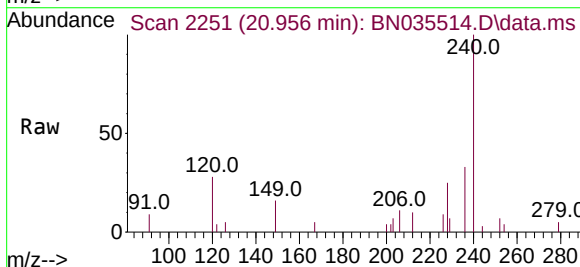
Manual Integrations
APPROVED

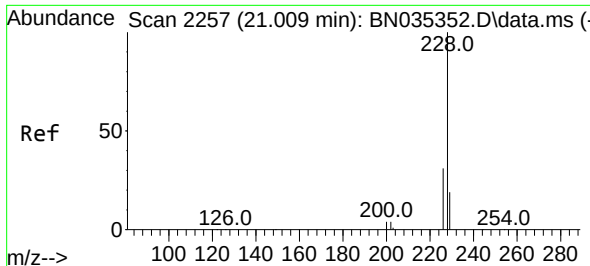
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.028 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:228 Resp: 618
Ion Ratio Lower Upper
228 100
226 35.0 22.5 33.7#
229 28.3 15.8 23.8#





#33

Chrysene

Concen: 0.034 ng

RT: 21.000 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

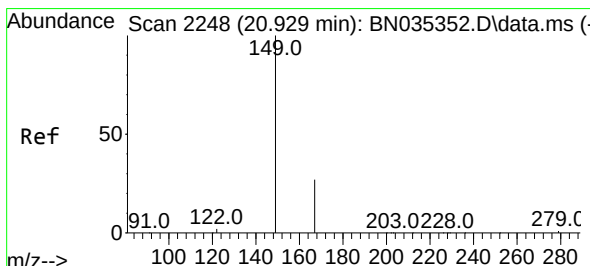
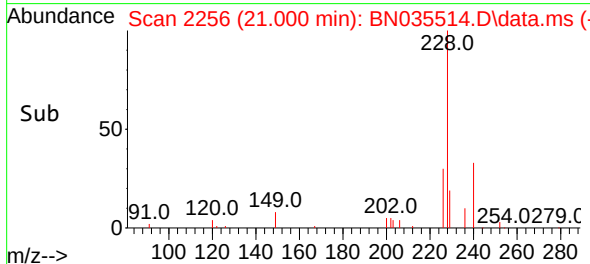
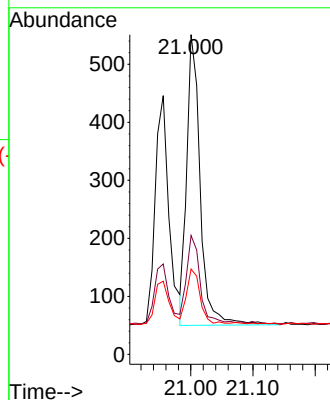
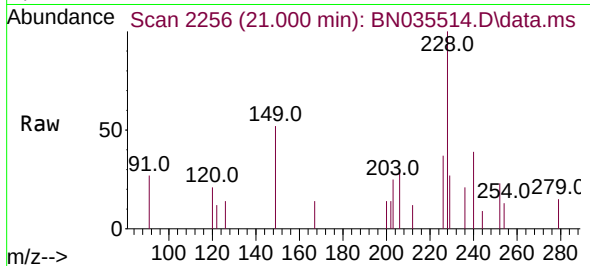
Tgt Ion:	228	Resp:	75
Ion Ratio	Lower	Upper	
228	100		
226	37.2	24.6	37.0
229	26.7	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

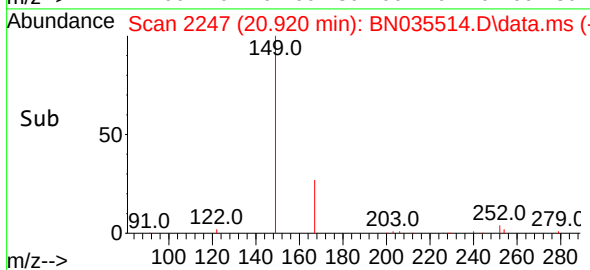
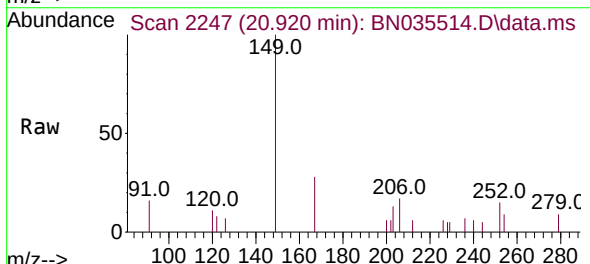
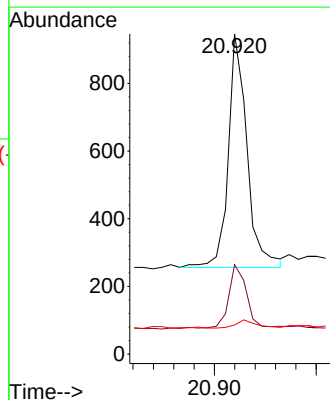
RT: 20.920 min Scan# 2247

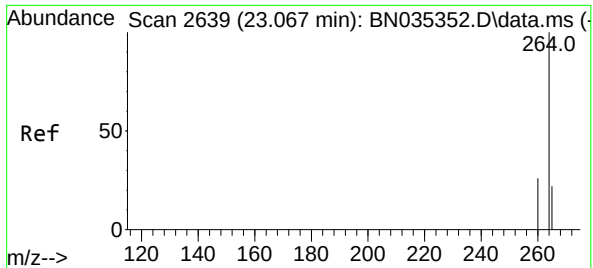
Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

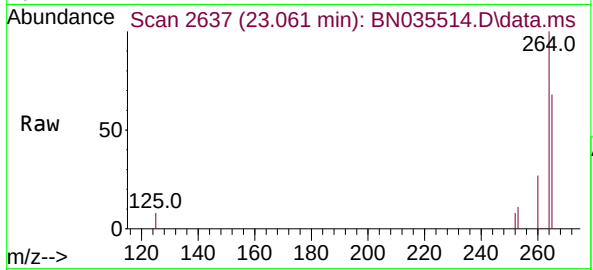
Tgt Ion:	149	Resp:	882
Ion Ratio	Lower	Upper	
149	100		
167	25.9	22.2	33.4
279	3.7	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.061 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

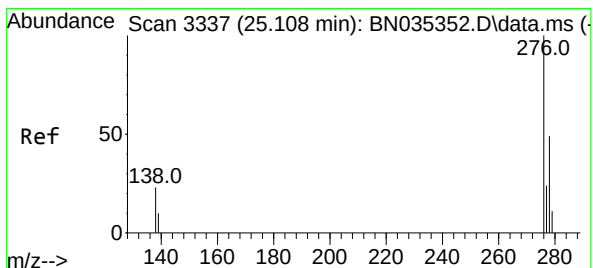
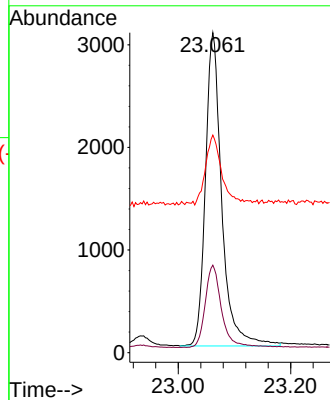
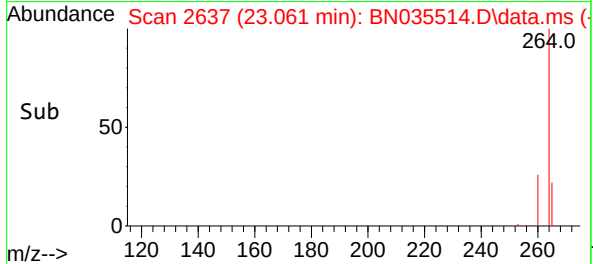
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:264 Resp: 614
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 68.0 40.2 60.4

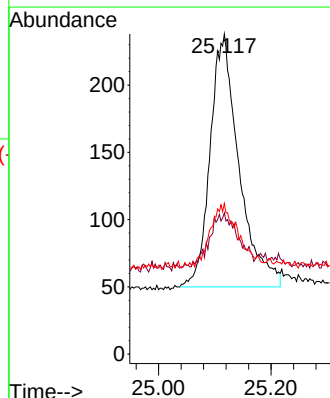
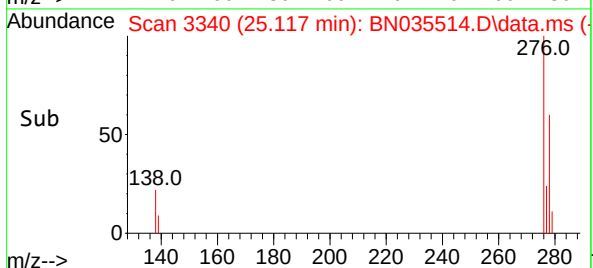
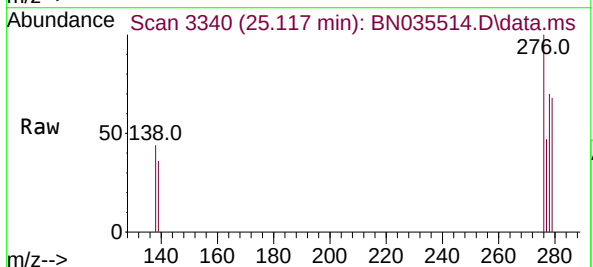
Manual Integrations
APPROVED

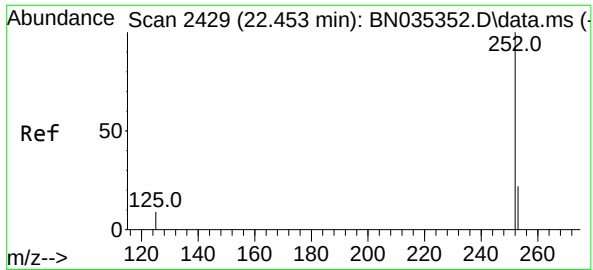
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.028 ng
RT: 25.117 min Scan# 3340
Delta R.T. 0.009 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:276 Resp: 670
Ion Ratio Lower Upper
276 100
138 8.7 19.4 29.0#
277 23.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.041 ng

RT: 22.450 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

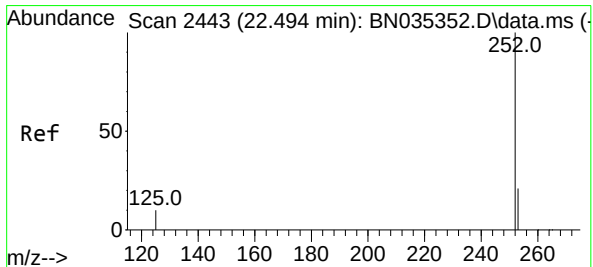
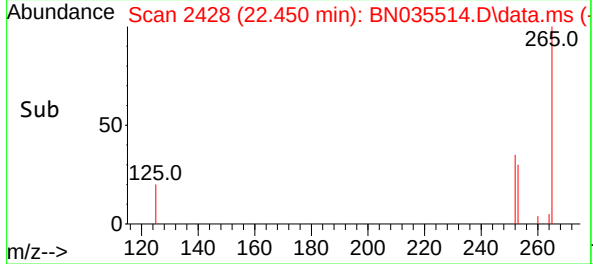
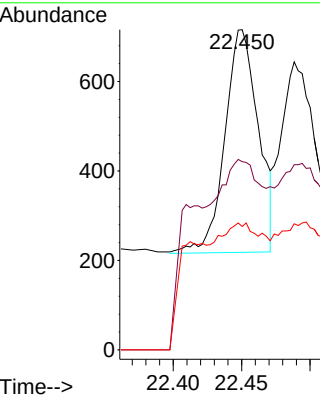
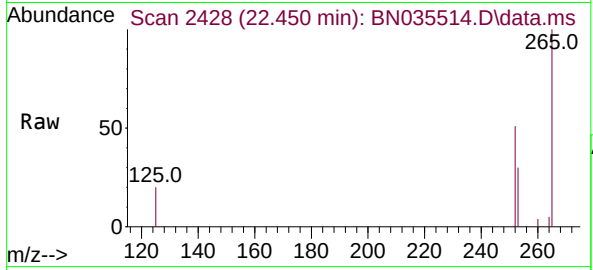
Tgt Ion:	252	Resp:	920
Ion	Ratio	Lower	Upper
252	100		
253	58.8	19.6	29.4
125	38.5	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.033 ng

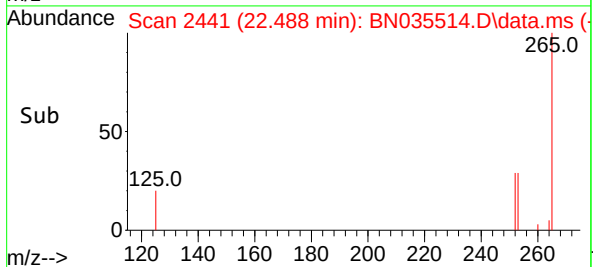
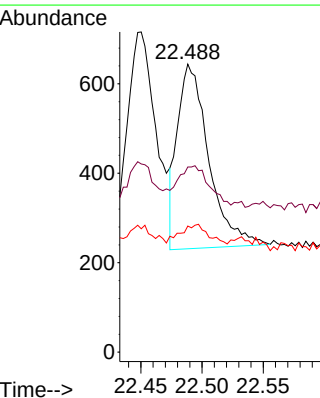
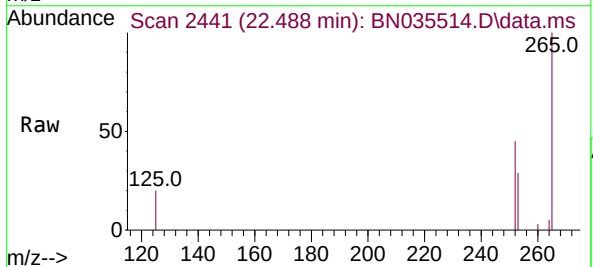
RT: 22.488 min Scan# 2441

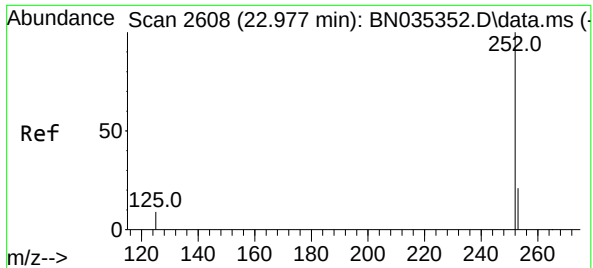
Delta R.T. -0.006 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Tgt Ion:	252	Resp:	733
Ion	Ratio	Lower	Upper
252	100		
253	64.3	19.5	29.3
125	43.8	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.021 ng

RT: 22.971 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BN035514.D

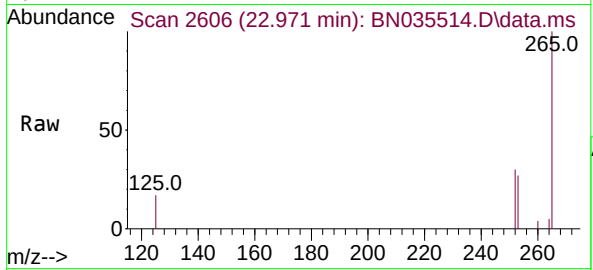
Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206



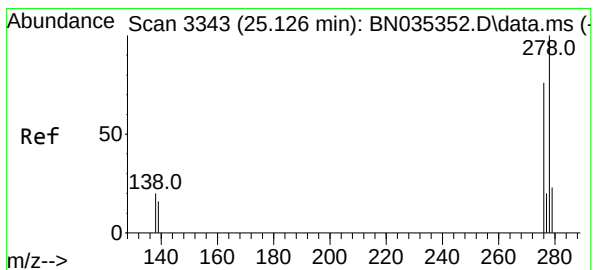
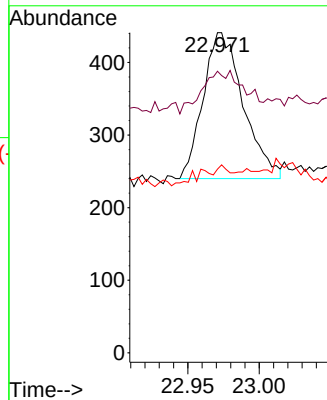
Tgt Ion:	252	Resp:	39
Ion Ratio	Lower	Upper	
252	100		
253	88.0	20.2	30.4
125	57.4	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

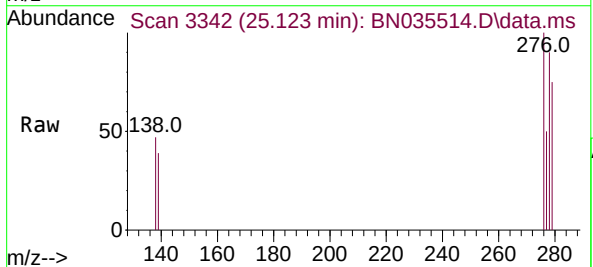
Concen: 0.025 ng

RT: 25.123 min Scan# 3342

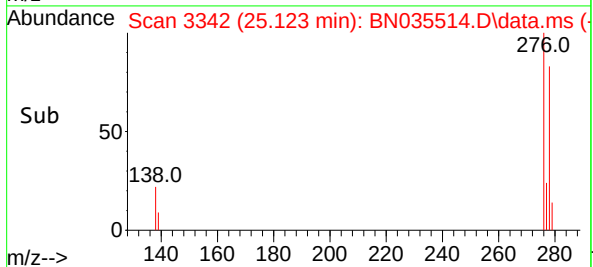
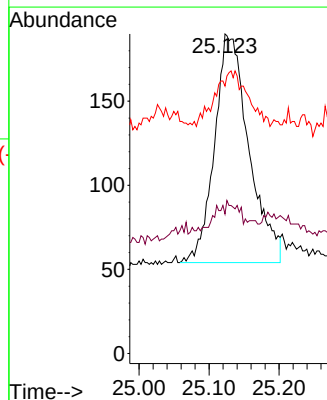
Delta R.T. -0.003 min

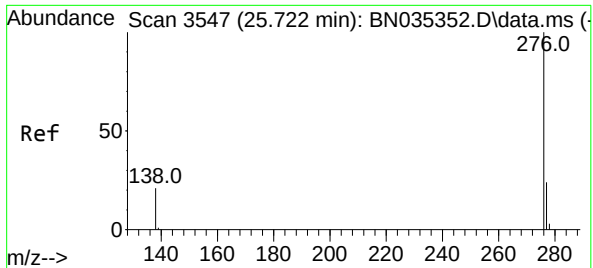
Lab File: BN035514.D

Acq: 09 Dec 2024 19:31



Tgt Ion:	278	Resp:	465
Ion Ratio	Lower	Upper	
278	100		
139	43.7	14.2	21.4
279	83.7	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.029 ng

RT: 25.722 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035514.D

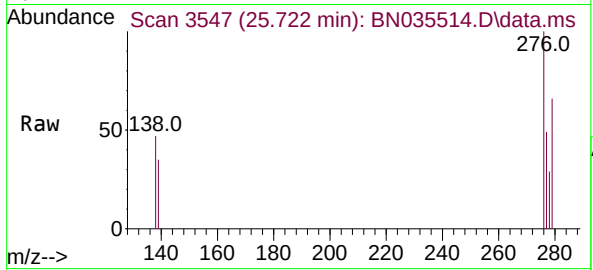
Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206



Tgt Ion: 276 Resp: 580

Ion Ratio Lower Upper

276 100

277 49.3 19.9 29.9

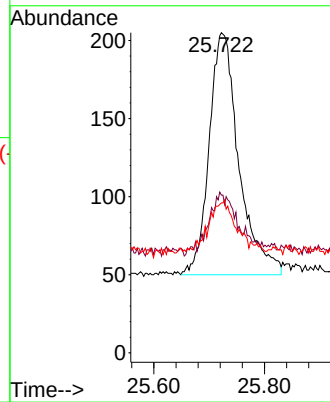
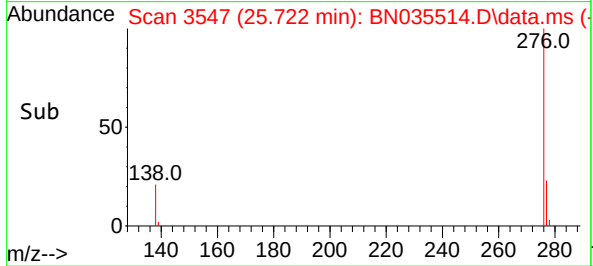
138 46.8 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	FB-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-06	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
BN035516.D	1	12/09/24 11:27	12/09/24 20:43	PB165497

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	0.41		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.70	*	58 - 132		174%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1690	7.301				
1146-65-2	Naphthalene-d8	4710	10.041				
15067-26-2	Acenaphthene-d10	3570	13.957				
1517-22-2	Phenanthrene-d10	8430	16.723				
1719-03-5	Chrysene-d12	7110	20.965				
1520-96-3	Perylene-d12	6620	23.062				

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\BN120924\
 Data File : BN035516.D
 Acq On : 09 Dec 2024 20:43
 Operator : RC/JU
 Sample : P5164-06
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 FB-20241206

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1690	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4712	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3572	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8431	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7106	0.400	ng	0.00
35) Perylene-d12	23.062	264	6618	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	643	0.152	ng	-0.01
5) Phenol-d6	6.506	99	490	0.096	ng	0.00
8) Nitrobenzene-d5	8.429	82	1282m	0.445	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2985	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	642	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5951	0.441	ng	0.00
27) Fluoranthene-d10	18.775	212	10625	0.445	ng	0.00
31) Terphenyl-d14	19.403	244	9767	0.697	ng	0.00
Target Compounds						Qvalue
21) 4-Bromophenyl-phenylether	15.929	248	135	0.027	ng	# 78
24) Pentachlorophenol	16.388	266	160	0.064	ng	95
25) Phenanthrene	16.761	178	619	0.027	ng	99
28) Fluoranthene	18.808	202	879	0.028	ng	97
30) Pyrene	19.175	202	751	0.029	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	772	0.079	ng	# 97

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

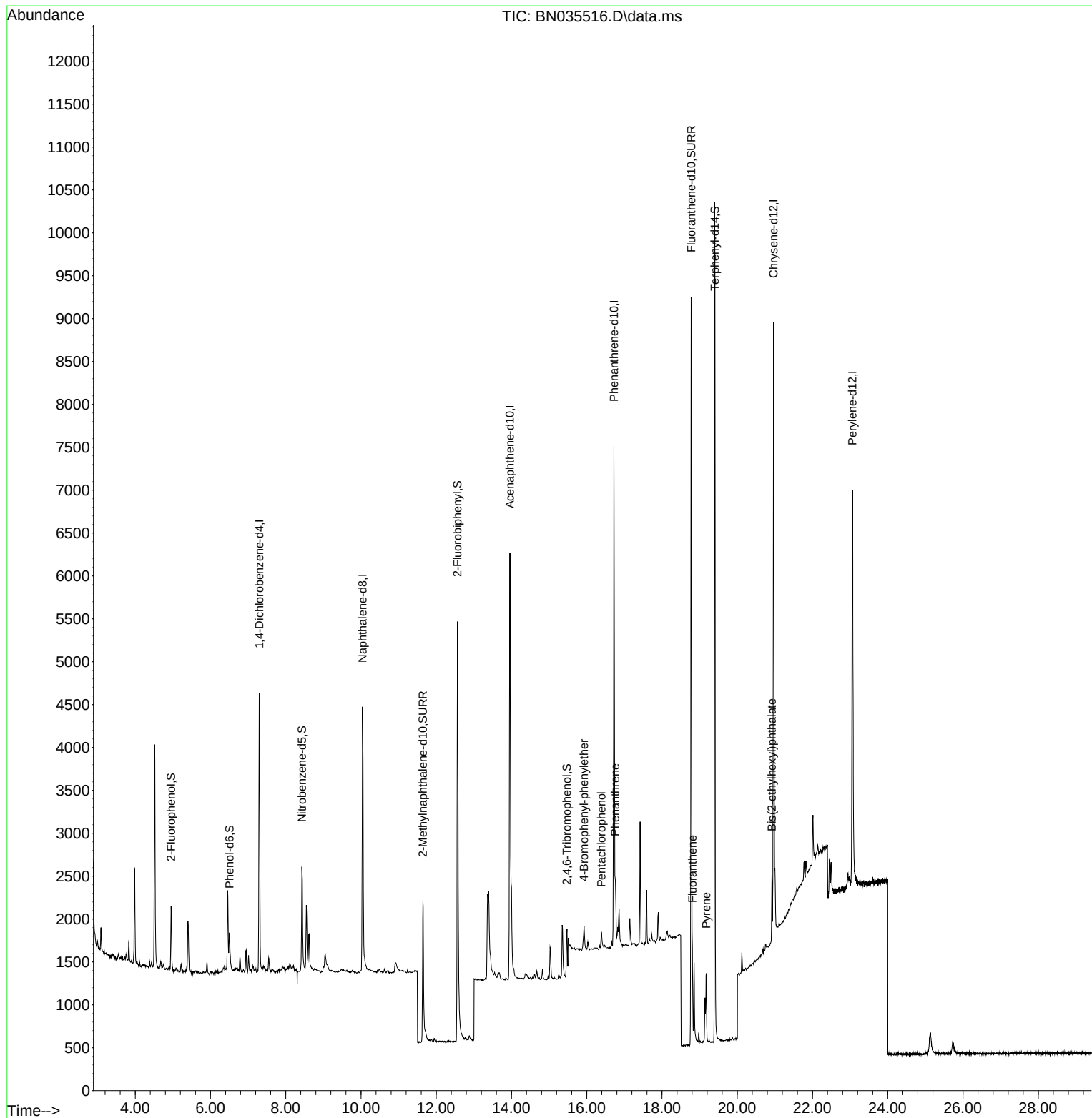
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Data File : BN035516.D
Acq On : 09 Dec 2024 20:43
Operator : RC/JU
Sample : P5164-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

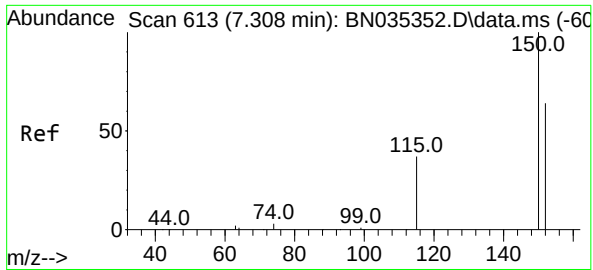
Instrument :
BNA_N
ClientSampleId :
FB-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

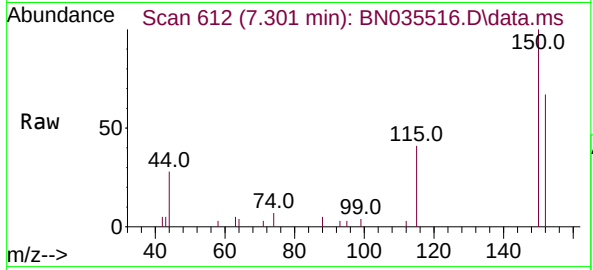
Quant Time: Dec 10 01:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 613
Delta R.T. -0.007 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

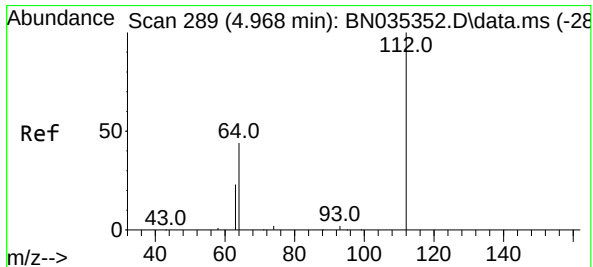
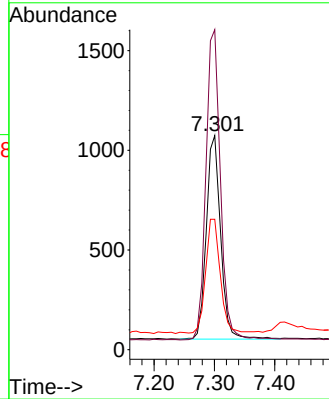
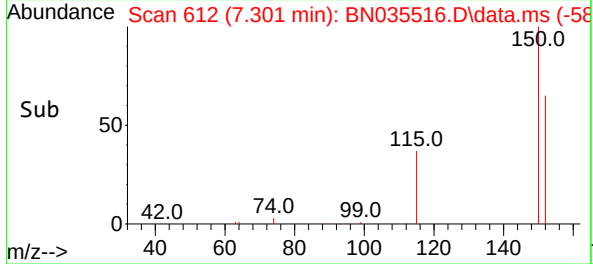
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:152 Resp: 1690
Ion Ratio Lower Upper
152 100
150 149.4 124.0 186.0
115 60.9 49.6 74.4

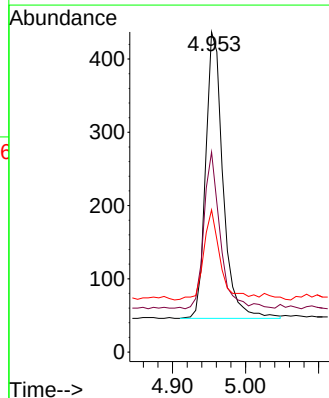
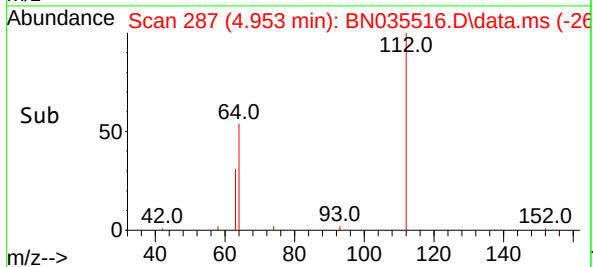
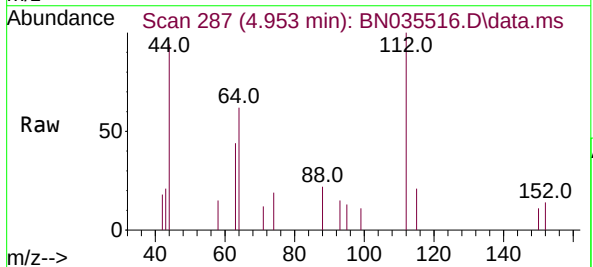
Manual Integrations
APPROVED

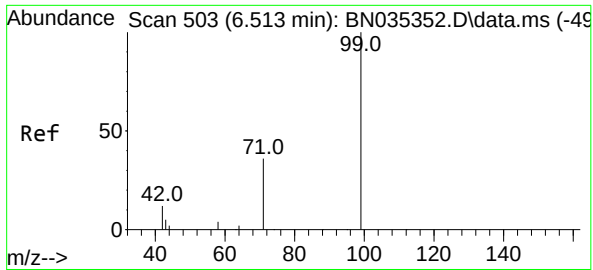
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.152 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

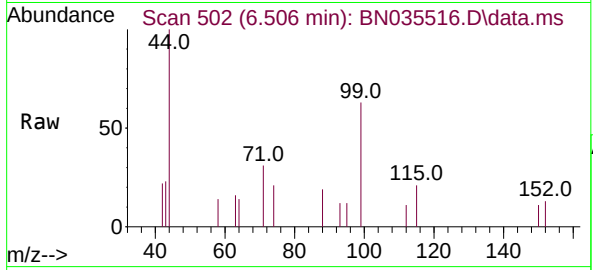
Tgt Ion:112 Resp: 643
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 30.3 21.0 31.6





#5
Phenol-d6
Concen: 0.096 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

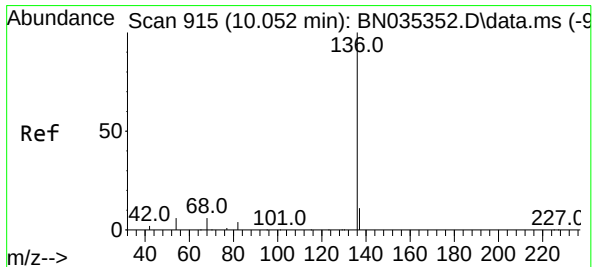
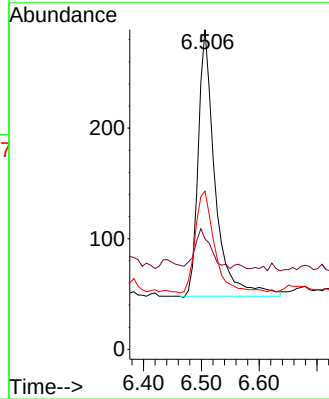
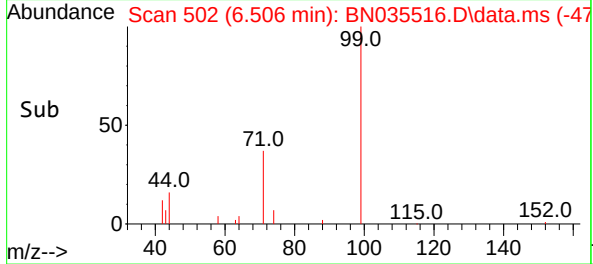
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion: 99 Resp: 490
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 43.9 29.3 43.9

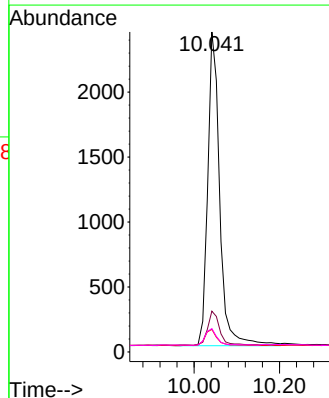
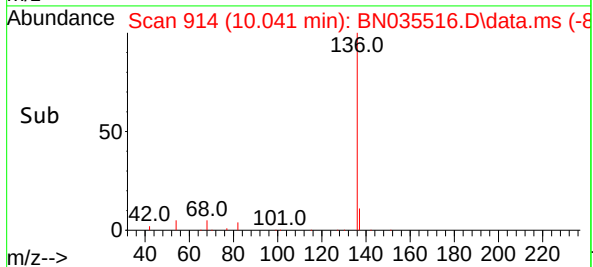
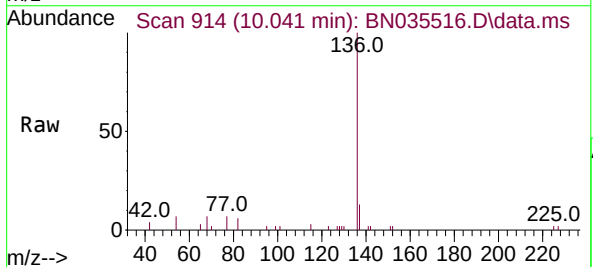
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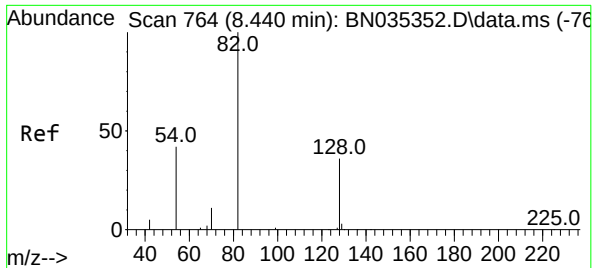
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:136 Resp: 4712
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 7.1 6.1 9.1
68 7.3 6.4 9.6





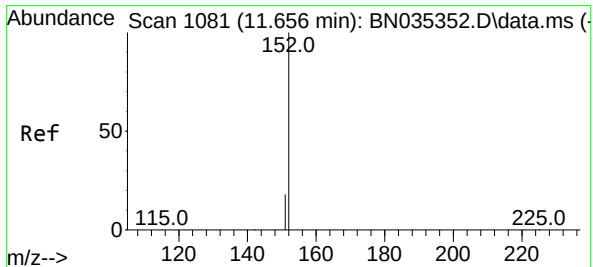
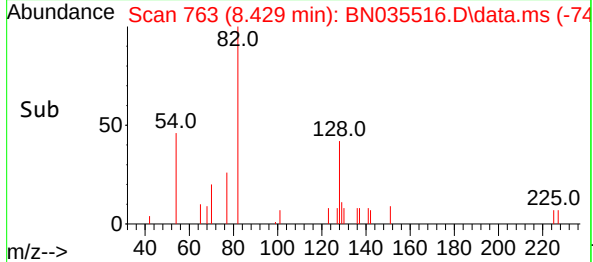
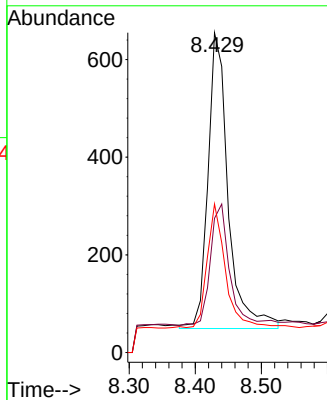
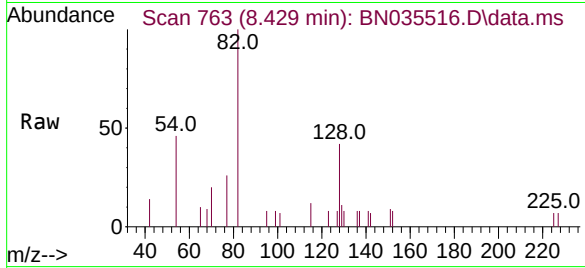
#8
Nitrobenzene-d5
Concen: 0.445 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Instrument :
BNA_N
ClientSampleId :
FB-20241206

Tgt Ion:	82	Resp:	128
Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.4	50.0
54	46.4	36.7	55.1

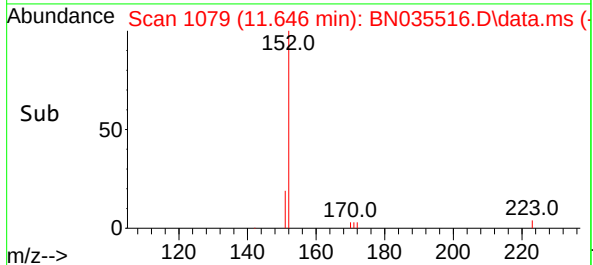
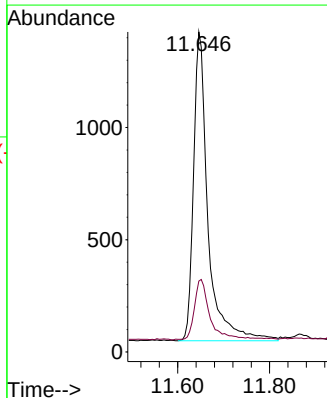
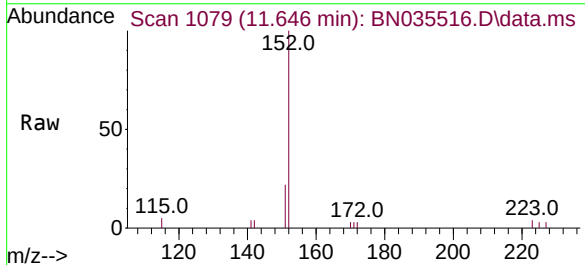
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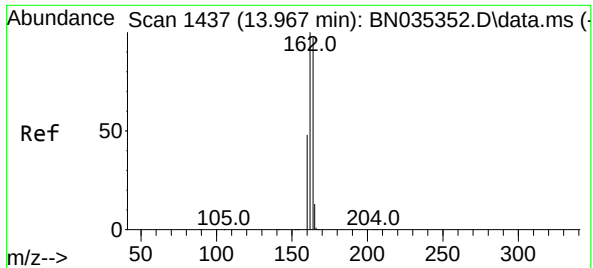
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

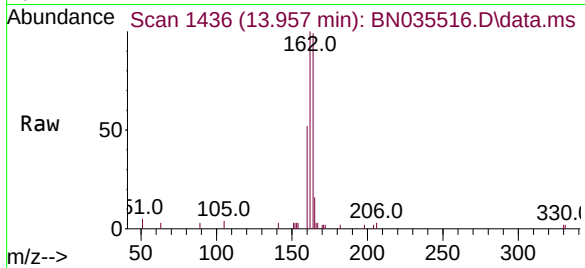
Tgt Ion:	152	Resp:	2985
Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

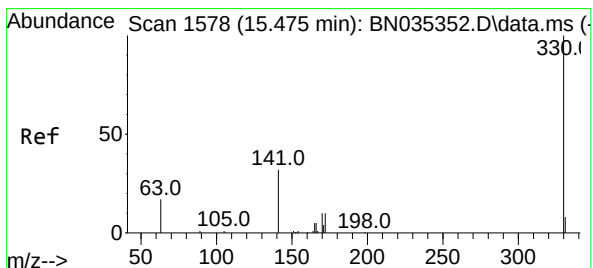
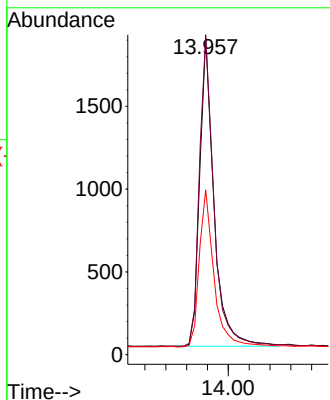
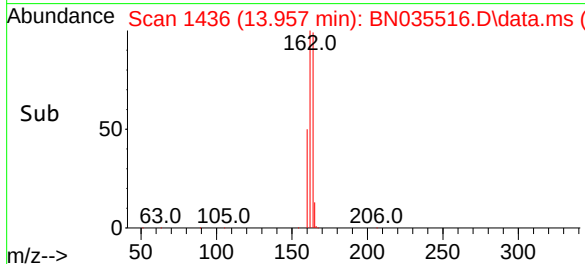
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:164 Resp: 3572
Ion Ratio Lower Upper
164 100
162 101.0 82.2 123.2
160 52.0 40.1 60.1

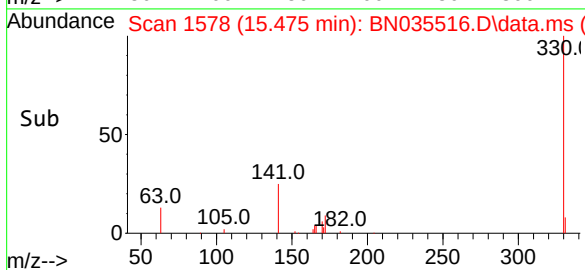
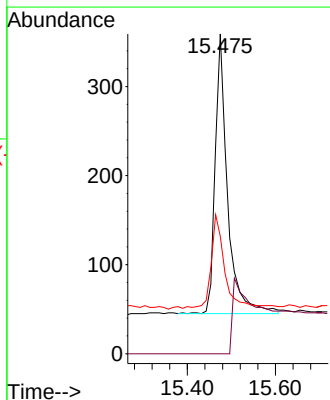
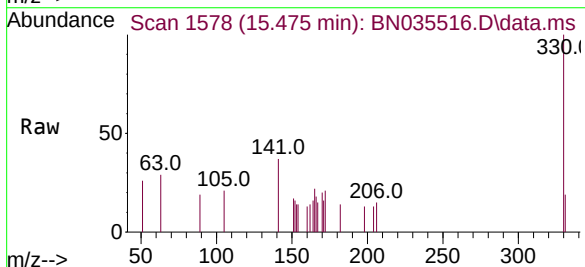
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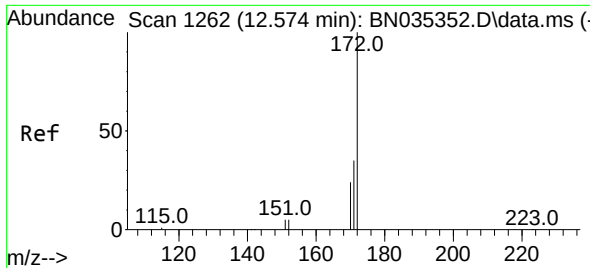
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:330 Resp: 642
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 38.0 26.6 40.0





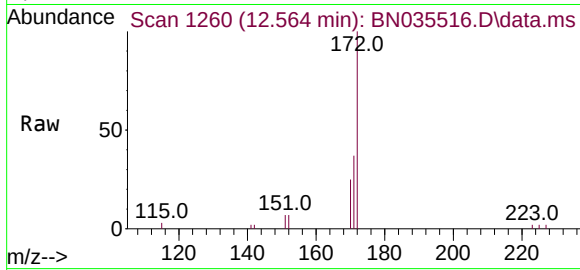
#15
2-Fluorobiphenyl
Concen: 0.441 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Instrument :

BNA_N

ClientSampleId :

FB-20241206



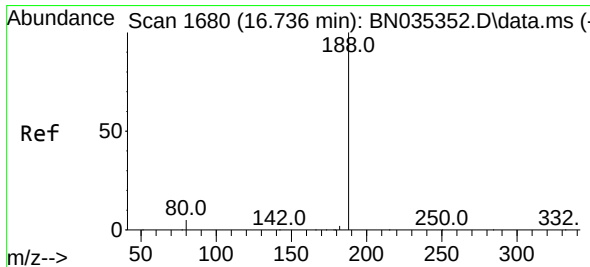
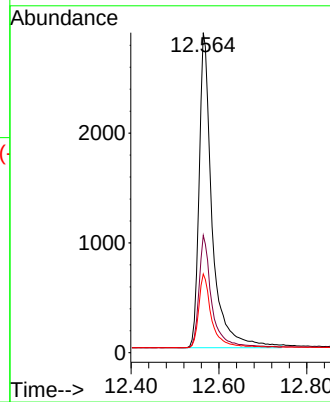
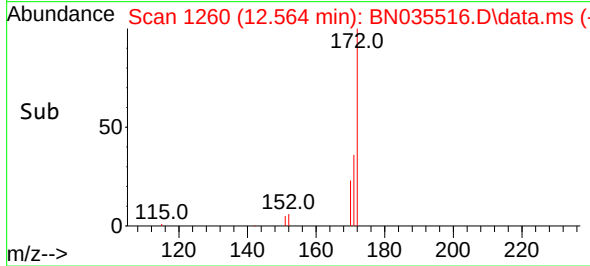
Tgt Ion:172 Resp: 595
Ion Ratio Lower Upper
172 100
171 36.6 29.0 43.4
170 24.6 19.8 29.8

Manual Integrations

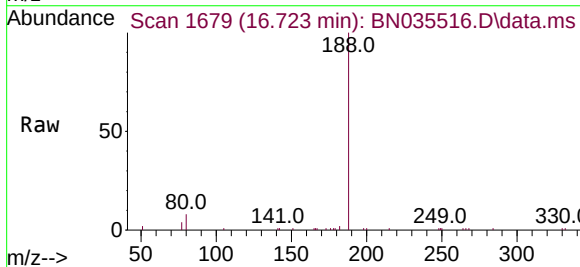
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Reviewed By :Yogesh Patel 12/11/2024

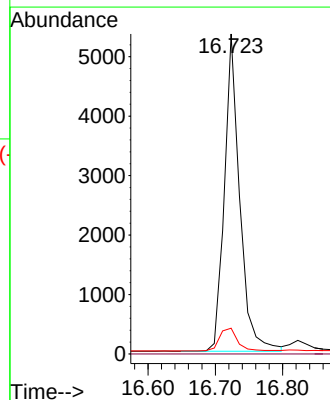
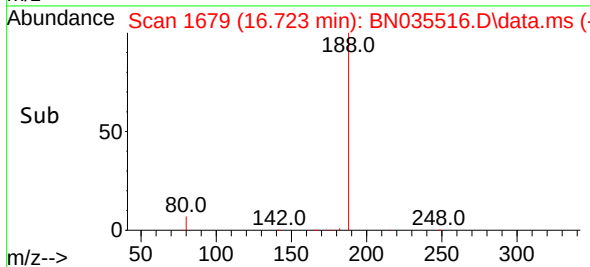
Supervised By :mohammad ahmed 12/11/2024

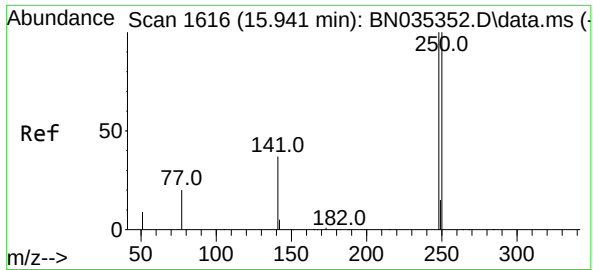


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43



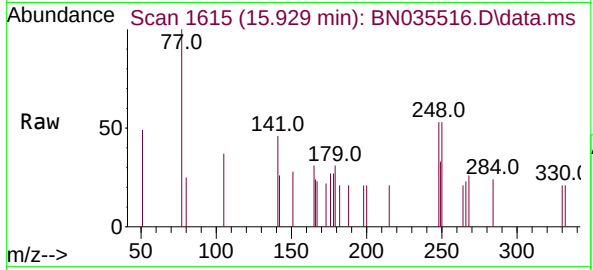
Tgt Ion:188 Resp: 8431
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.1 4.6 6.8





#21
4-Bromophenyl-phenylether
Concen: 0.027 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

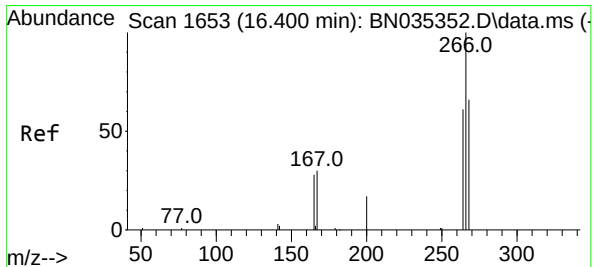
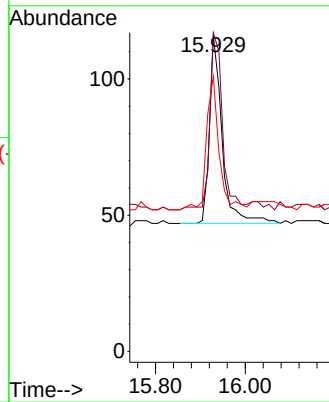
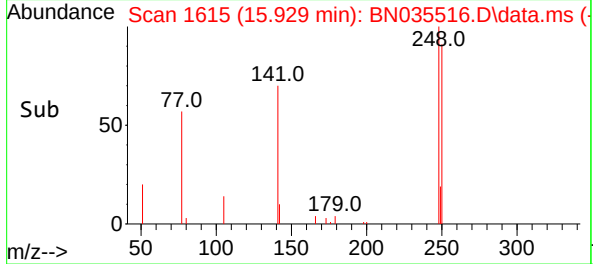
Instrument :
BNA_N
ClientSampleId :
FB-20241206



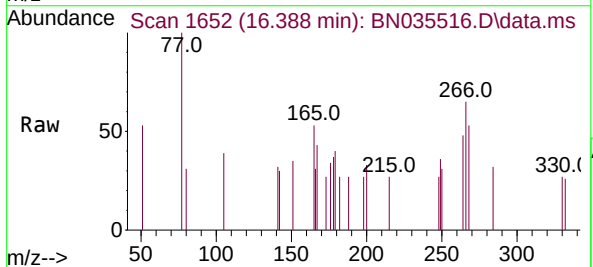
Tgt Ion:248 Resp: 135
Ion Ratio Lower Upper
248 100
250 100.9 80.6 120.8
141 87.1 31.5 47.3

Manual Integrations
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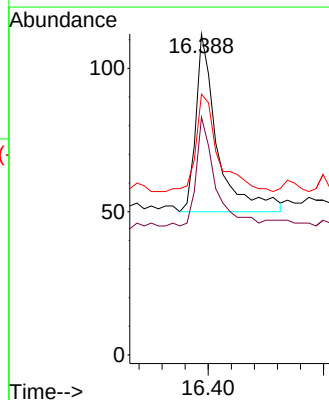
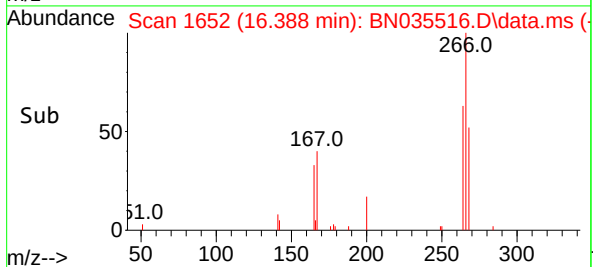
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

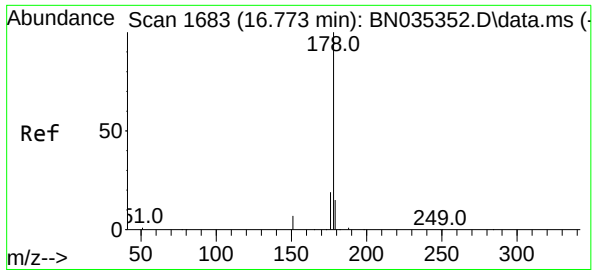


#24
Pentachlorophenol
Concen: 0.064 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43



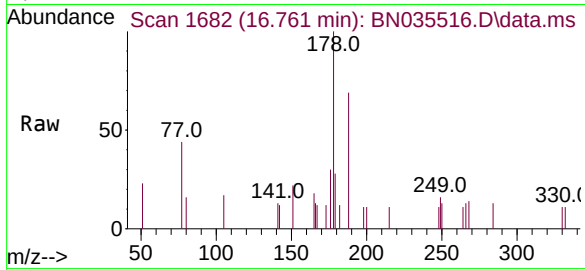
Tgt Ion:266 Resp: 160
Ion Ratio Lower Upper
266 100
264 53.8 42.3 63.5
268 60.0 43.3 64.9





#25
Phenanthrene
Concen: 0.027 ng
RT: 16.761 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

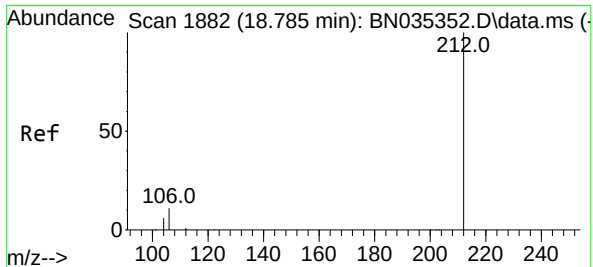
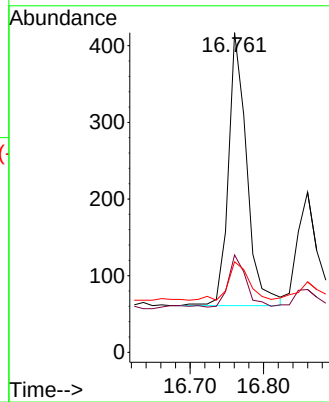
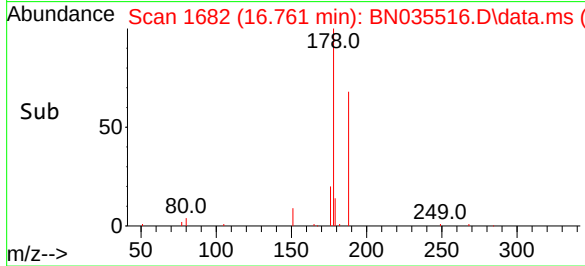
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:178 Resp: 619
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.5 12.3 18.5

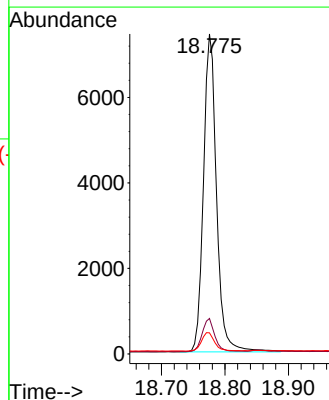
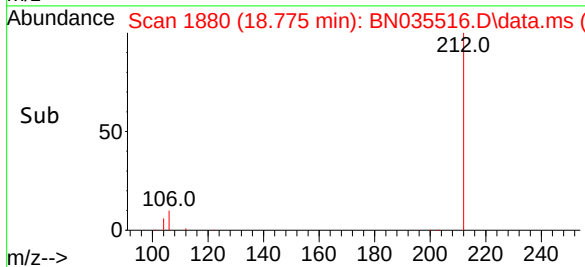
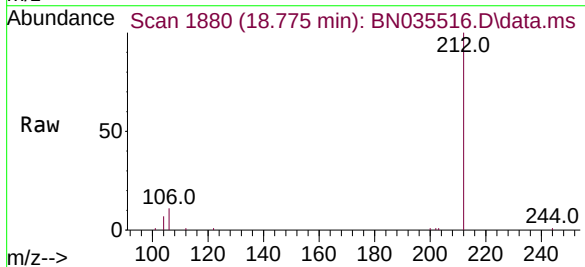
Manual Integrations
APPROVED

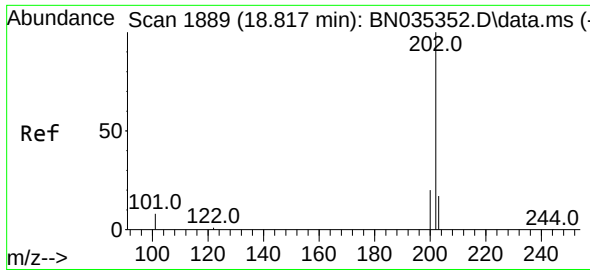
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

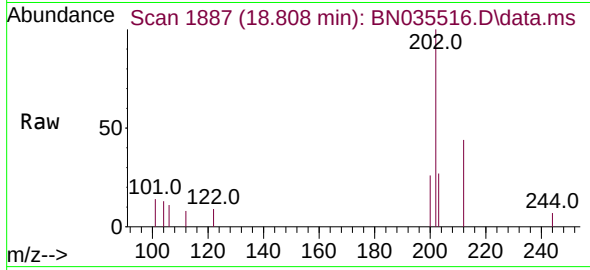
Tgt Ion:212 Resp: 10625
Ion Ratio Lower Upper
212 100
106 10.1 9.2 13.8
104 5.9 5.3 7.9





#28
Fluoranthene
Concen: 0.028 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

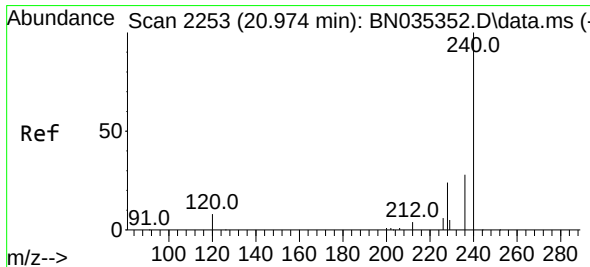
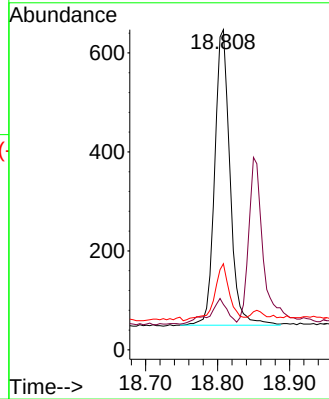
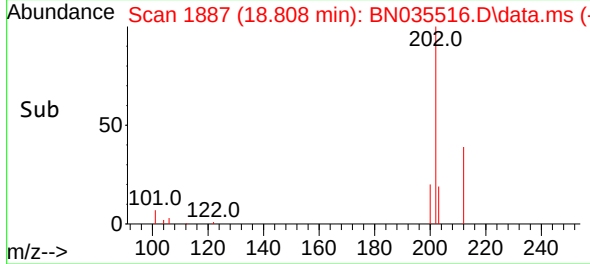
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:202 Resp: 879
Ion Ratio Lower Upper
202 100
101 10.0 7.4 11.0
203 18.9 13.7 20.5

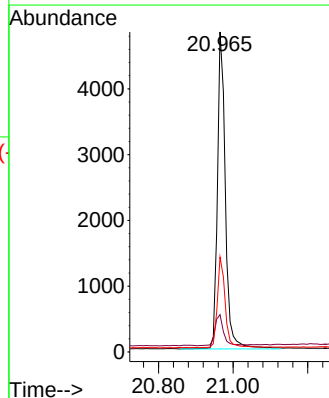
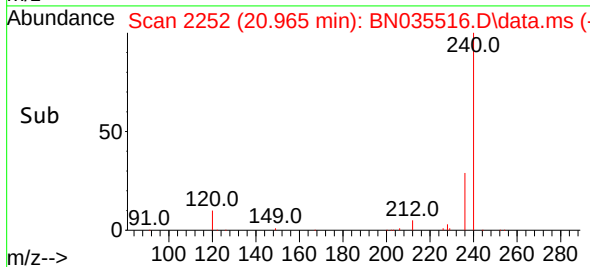
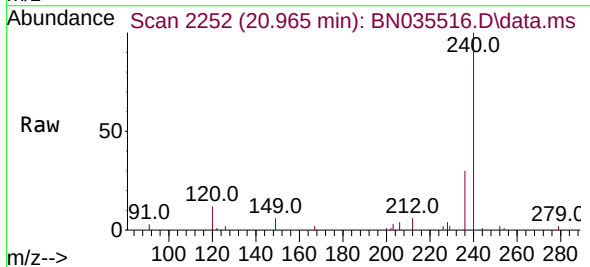
Manual Integrations
APPROVED

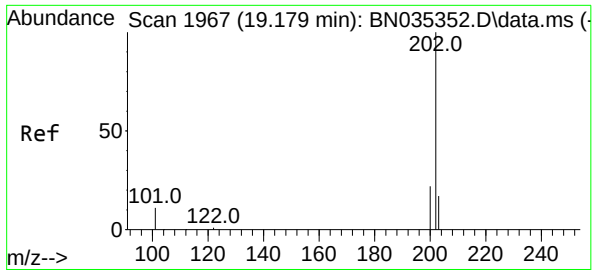
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

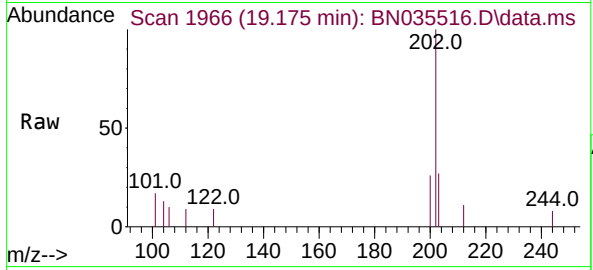
Tgt Ion:240 Resp: 7106
Ion Ratio Lower Upper
240 100
120 11.7 7.9 11.9
236 29.6 22.9 34.3





#30
Pyrene
Concen: 0.029 ng
RT: 19.175 min Scan# 1967
Delta R.T. -0.005 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

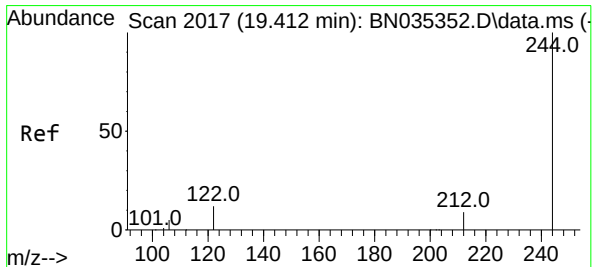
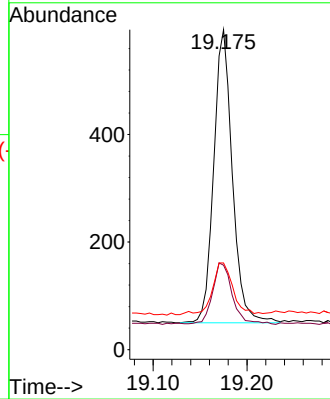
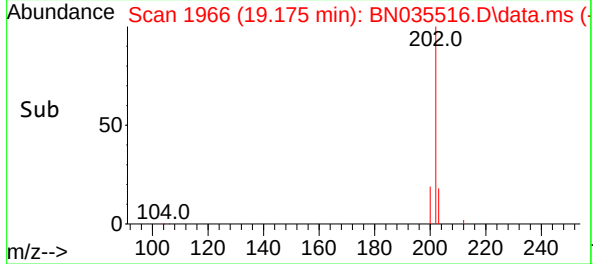
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:202 Resp: 75
Ion Ratio Lower Upper
202 100
200 22.2 17.0 25.4
203 18.1 14.3 21.5

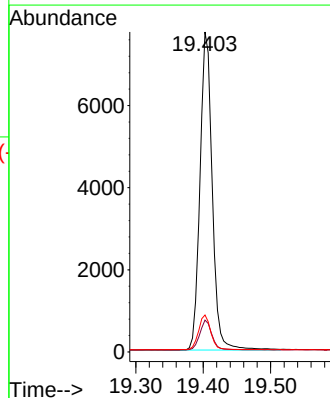
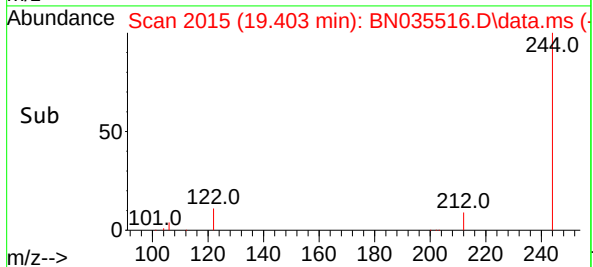
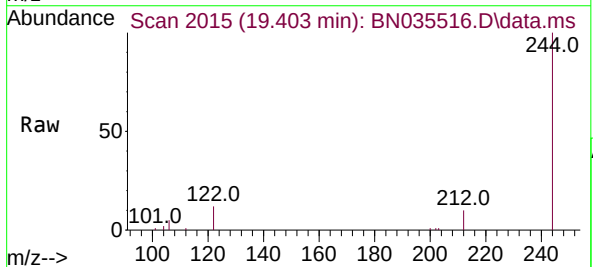
Manual Integrations
APPROVED

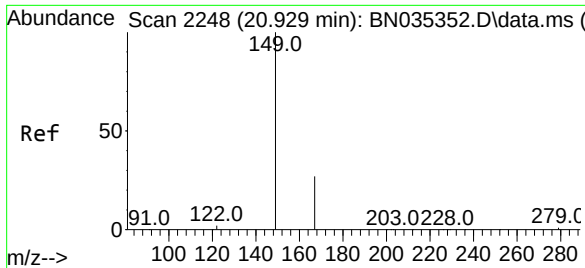
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#31
Terphenyl-d14
Concen: 0.697 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

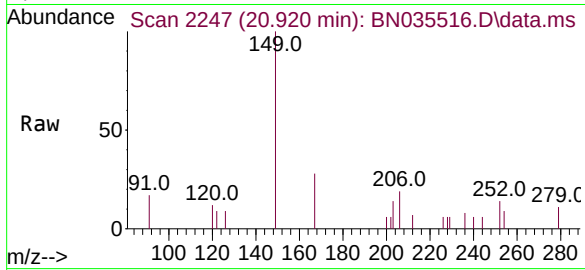
Tgt Ion:244 Resp: 9767
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 11.5 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.079 ng
RT: 20.920 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

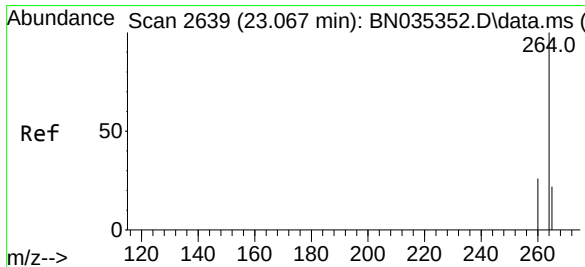
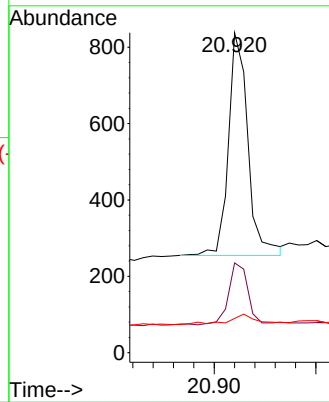
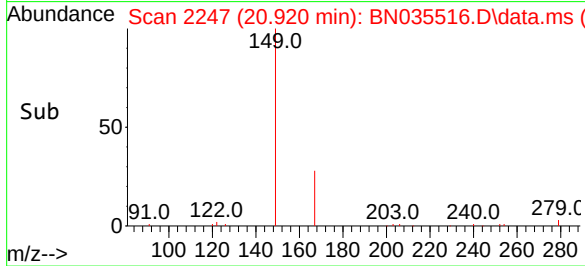
Instrument :
BNA_N
ClientSampleId :
FB-20241206



Tgt Ion:149 Resp: 772
Ion Ratio Lower Upper
149 100
167 26.6 22.2 33.4
279 5.1 2.7 4.1

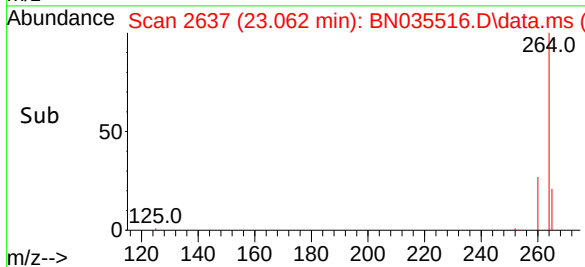
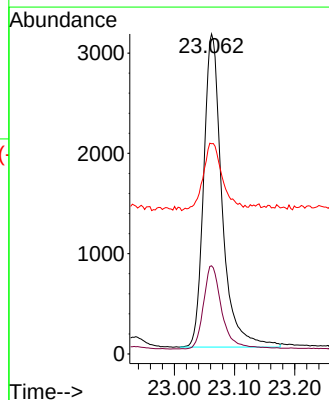
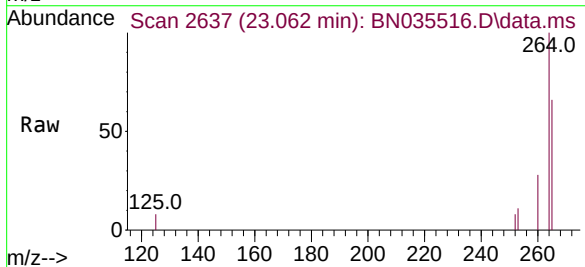
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:264 Resp: 6618
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 65.7 40.2 60.4





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 27 23:03:24 2024
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)	n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4) S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5) S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)	bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)	Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)	Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11) SURR2	Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)	2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15) S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)	Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)	Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)	Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)	4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)	Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)	Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)	Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)	Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)	Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27) SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)	Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31) S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)	Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)	Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)	Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN112724.M

36)	Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)	Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)	Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39) C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)	Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)	Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035350.D
 Acq On : 27 Nov 2024 15:34
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng	0.00
35) Perylene-d12	23.067	264	13004	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	573	0.101	ng	0.00
5) Phenol-d6	6.513	99	686	0.096	ng	0.00
8) Nitrobenzene-d5	8.450	82	327m	0.065	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng	0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng	0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	# 87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	# 90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng	98
9) Naphthalene	10.105	128	1527	0.102	ng	# 91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	# 97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng	96
16) Acenaphthylene	13.679	152	1675	0.096	ng	100
17) Acenaphthene	14.031	154	1143	0.100	ng	99
18) Fluorene	15.026	166	1620	0.096	ng	98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	# 29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	# 94
22) Hexachlorobenzene	16.041	284	720	0.100	ng	97
23) Atrazine	16.227	200	421	0.068	ng	# 86
24) Pentachlorophenol	16.401	266	381	0.114	ng	90
25) Phenanthrene	16.773	178	2963	0.104	ng	99
26) Anthracene	16.860	178	2617	0.100	ng	98
28) Fluoranthene	18.817	202	4173	0.106	ng	99
30) Pyrene	19.184	202	4461	0.119	ng	100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng	99
33) Chrysene	21.010	228	4123	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng	97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	# 82
38) Benzo(k)fluoranthene	22.494	252	4695m	0.107	ng	
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	# 69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	# 86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	# 93

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

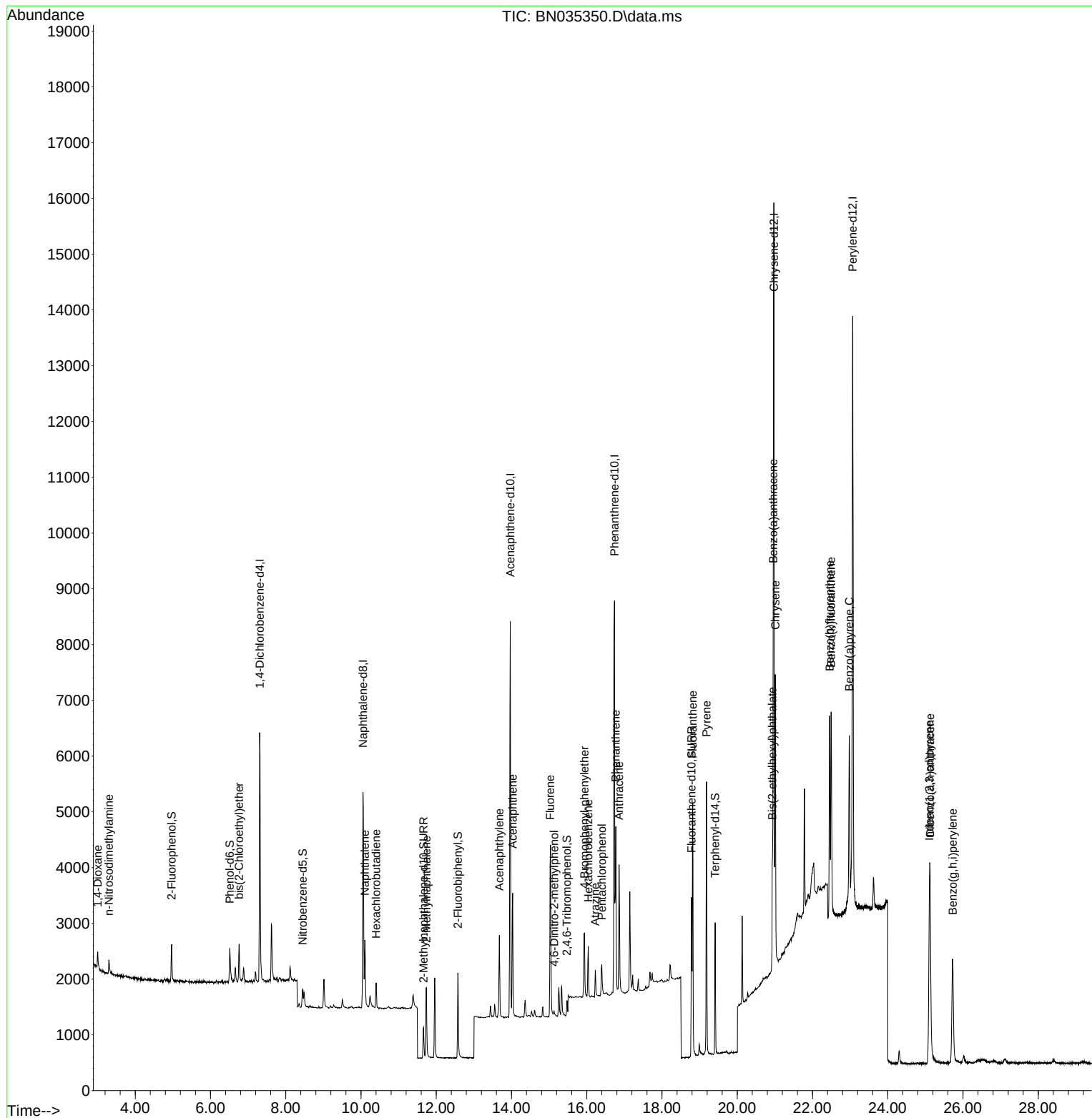
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

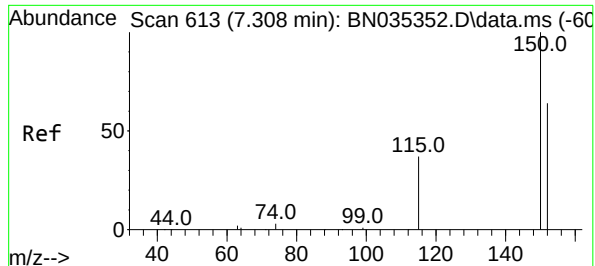
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

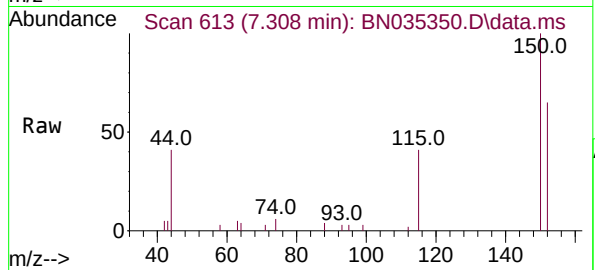
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

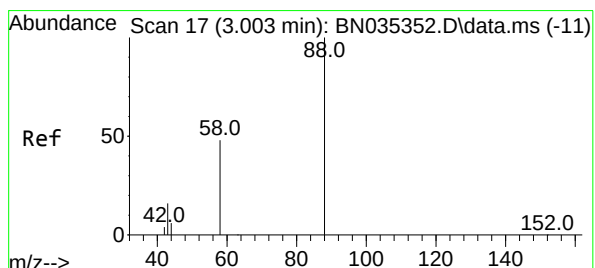
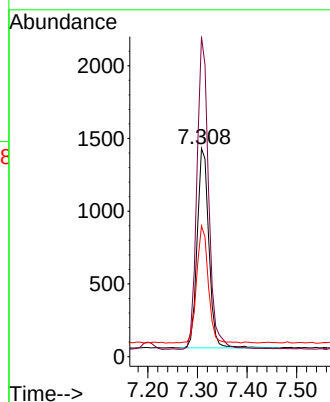
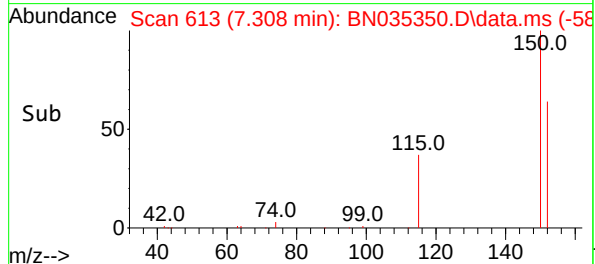
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 223
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

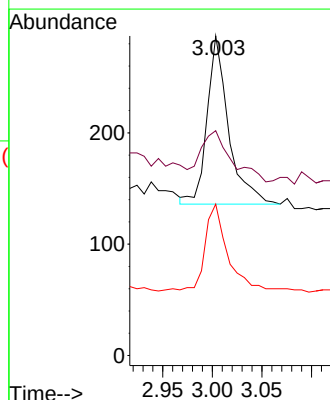
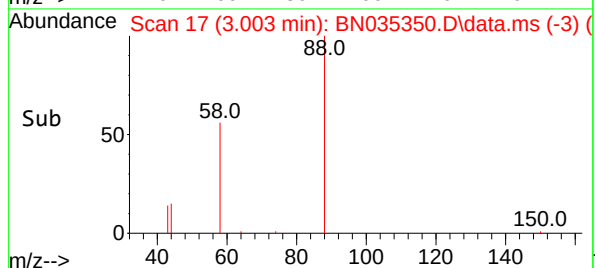
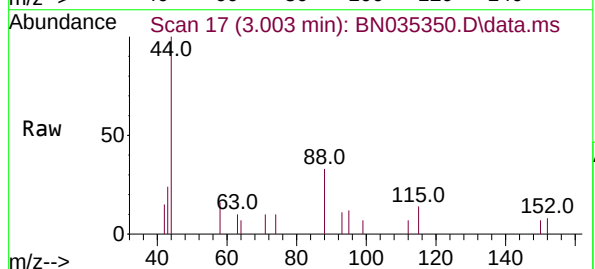
Manual Integrations
APPROVED

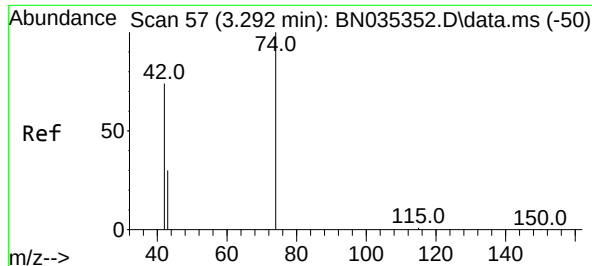
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

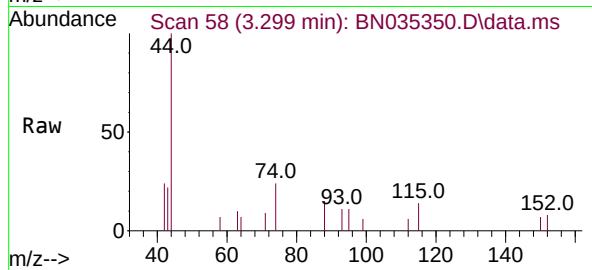
Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

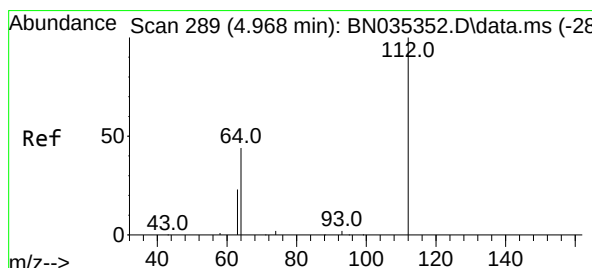
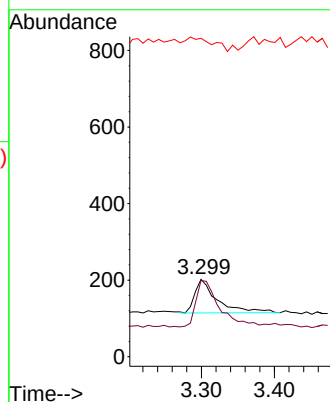
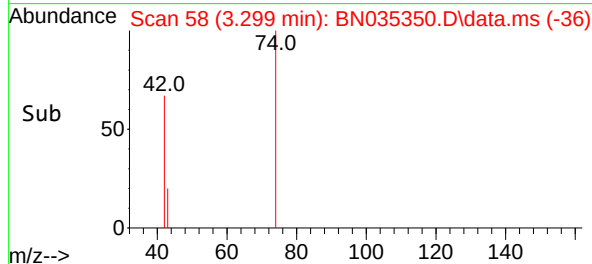
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 42 Resp: 187
Ion Ratio Lower Upper
42 100
74 146.5 124.9 187.3
44 51.9 2.2 3.4

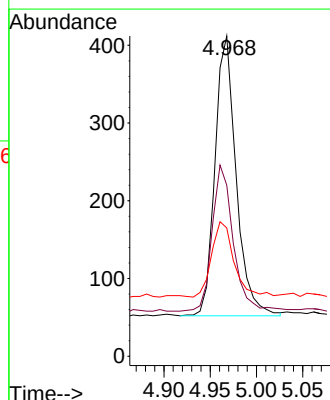
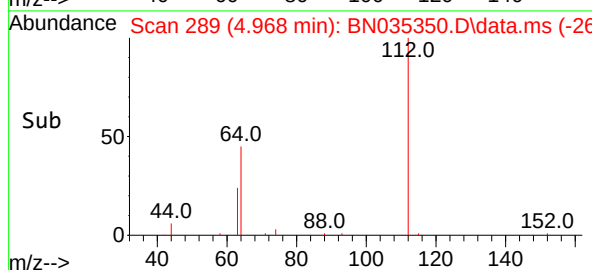
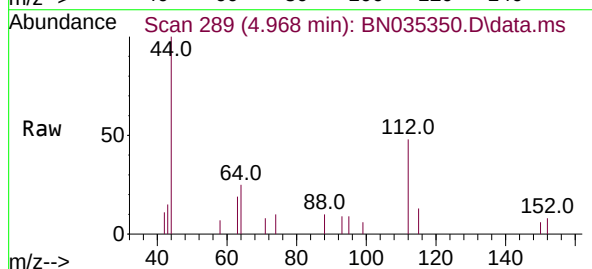
Manual Integrations
APPROVED

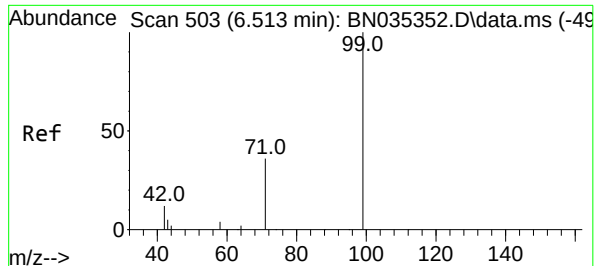
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 28.8 21.0 31.6





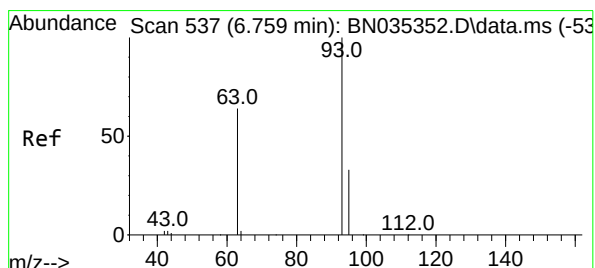
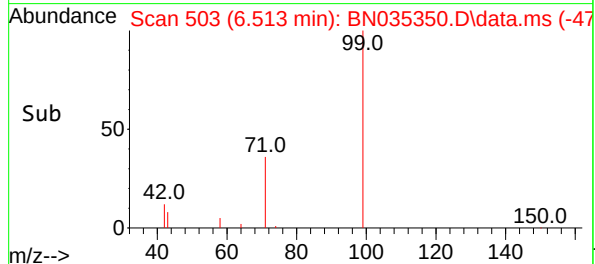
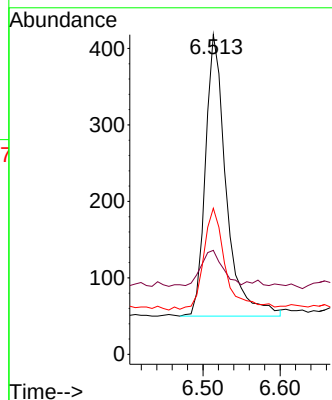
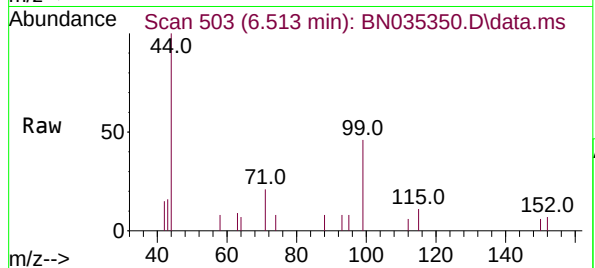
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 680
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9

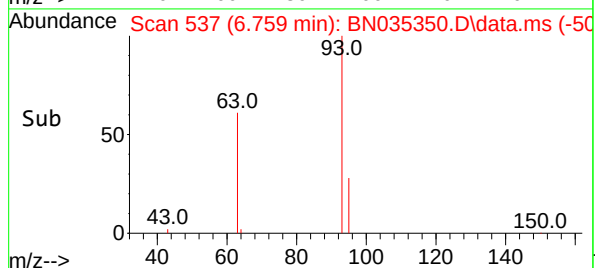
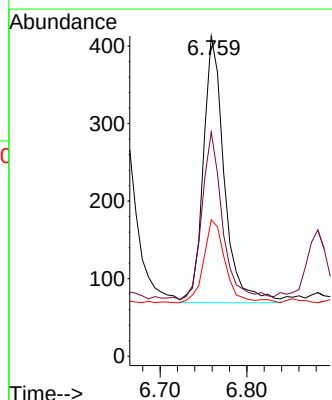
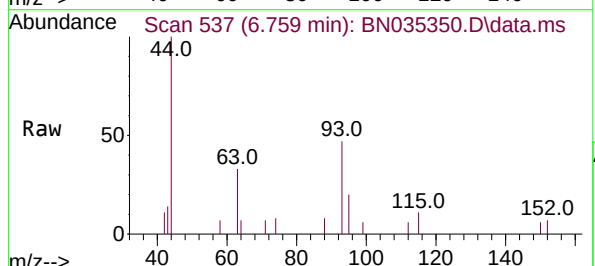
Manual Integrations
APPROVED

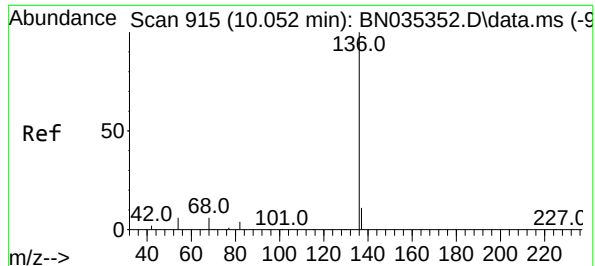
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

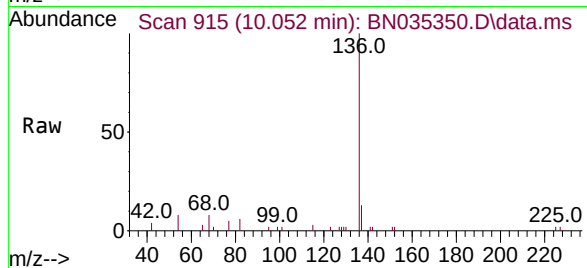
Tgt Ion: 93 Resp: 579
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.3 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

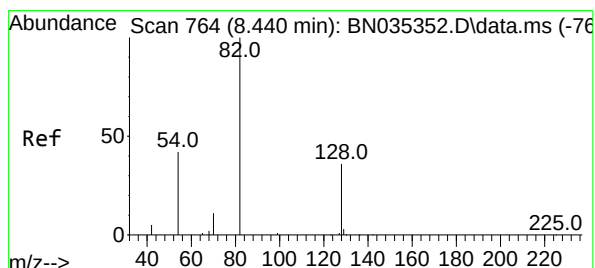
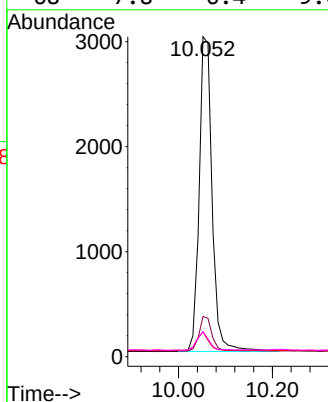
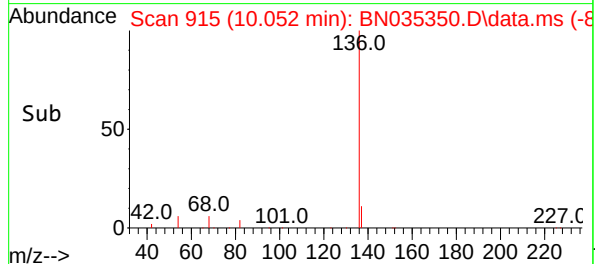
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

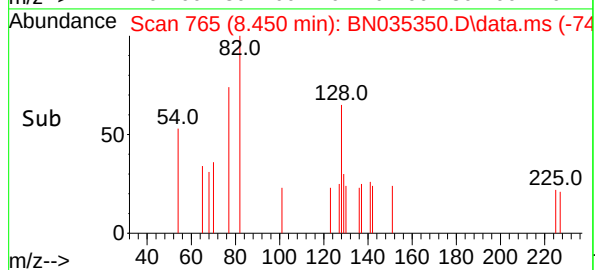
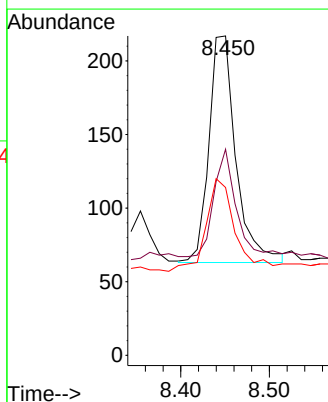
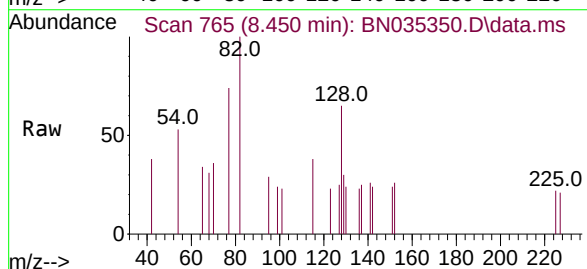
Manual Integrations
APPROVED

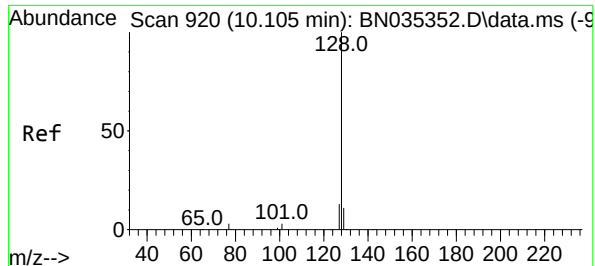
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1





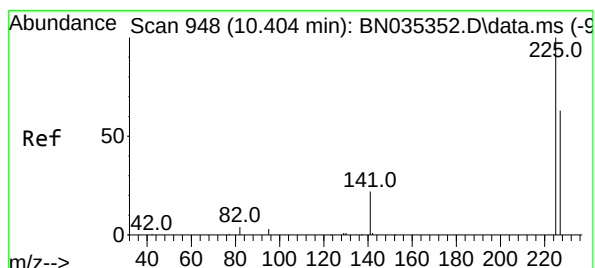
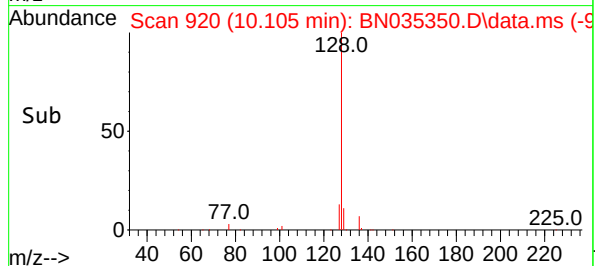
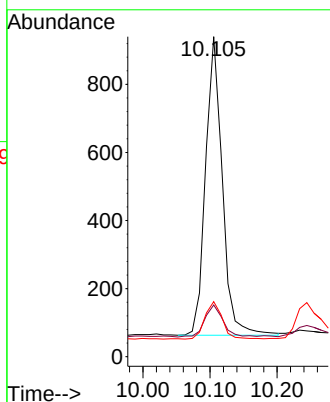
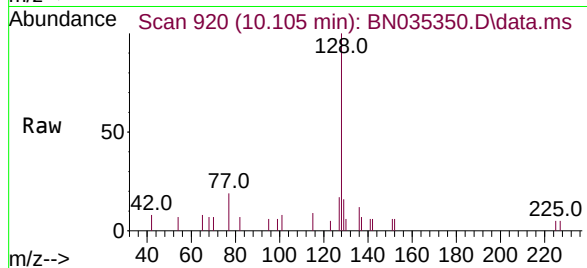
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 152
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6
127 17.2 11.4 17.2

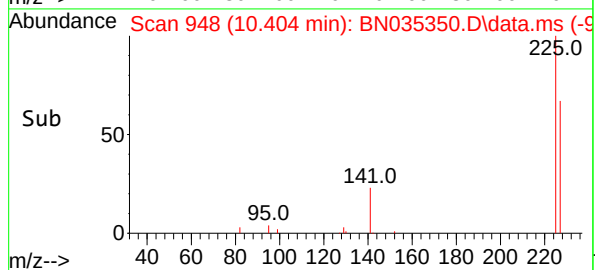
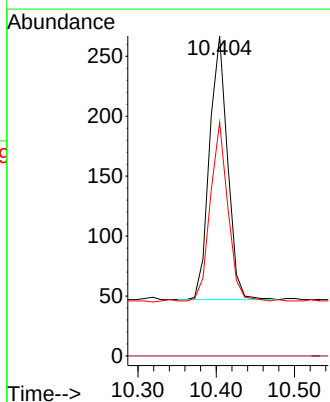
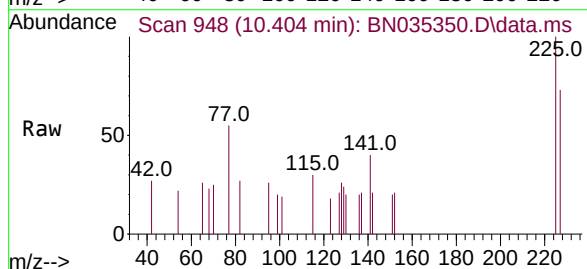
Manual Integrations
APPROVED

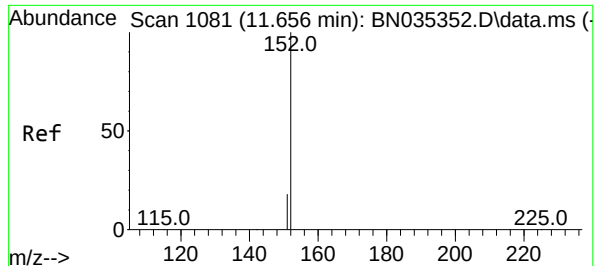
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

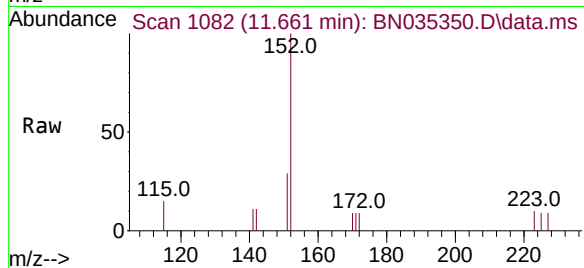
Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

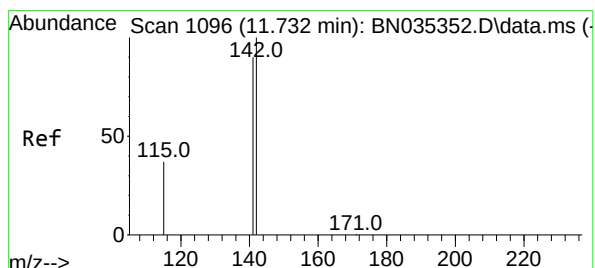
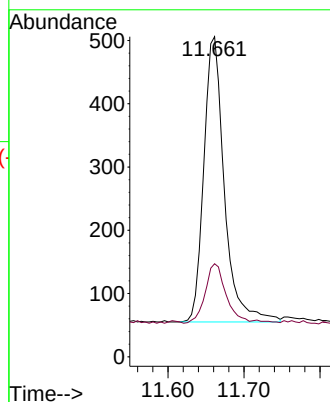
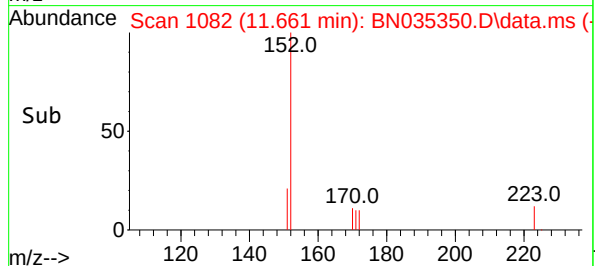
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

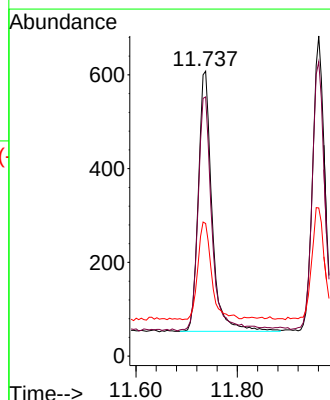
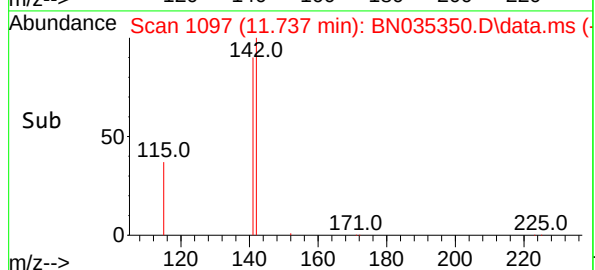
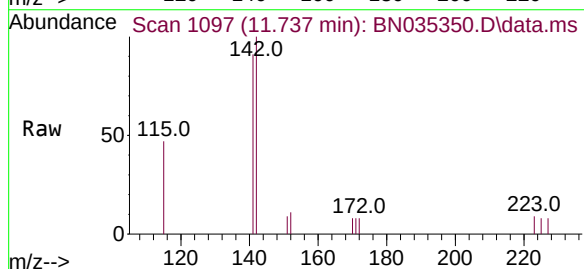
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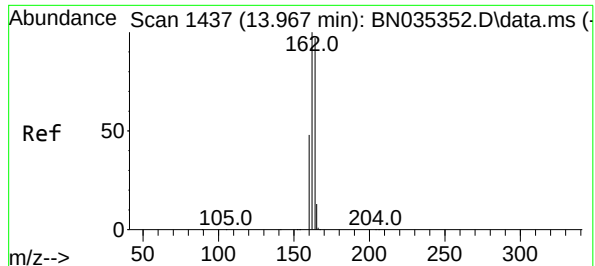
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

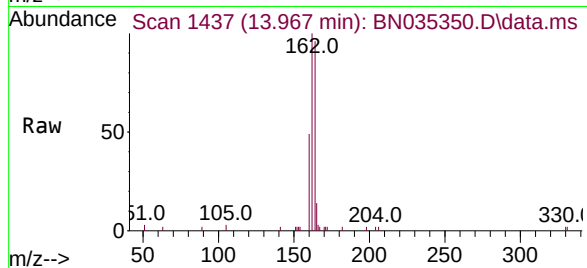
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

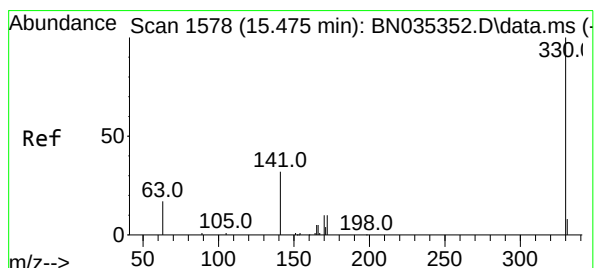
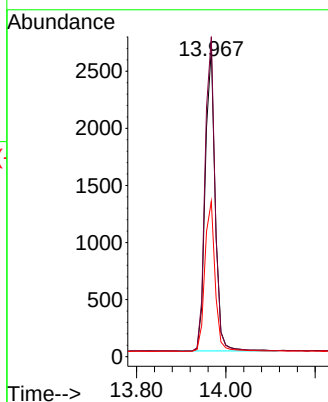
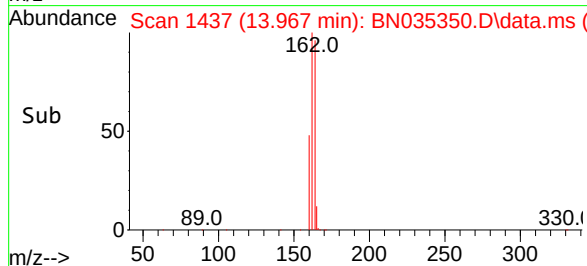
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



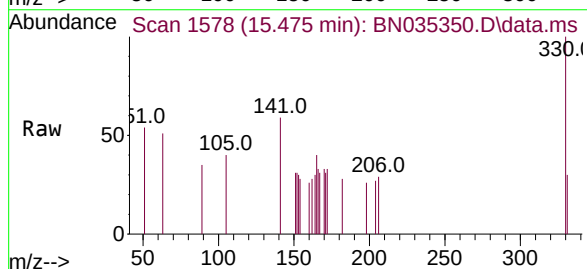
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1

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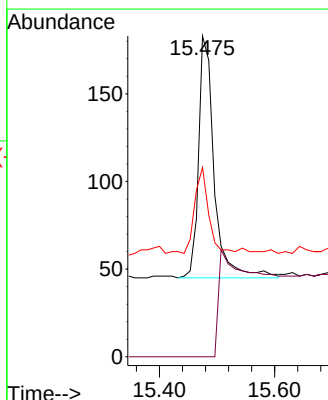
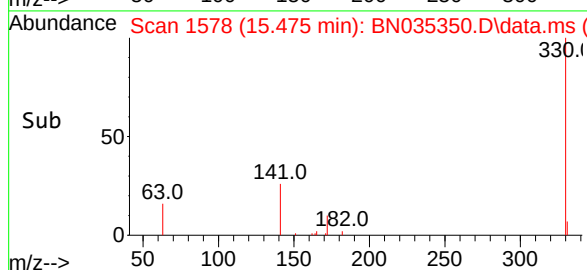
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

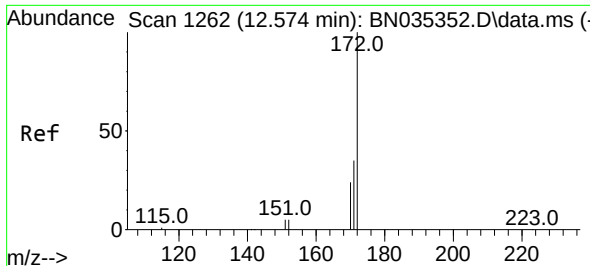


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



Tgt Ion:330 Resp: 278
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035350.D

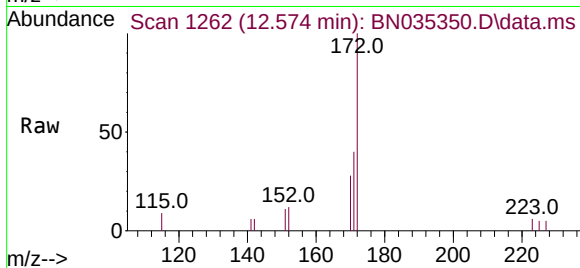
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



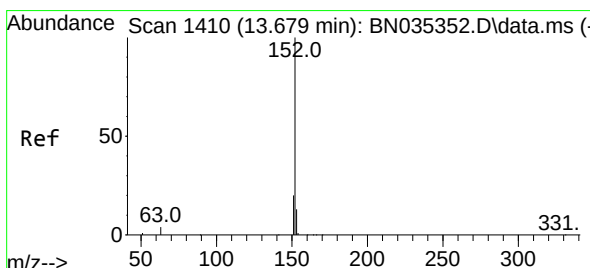
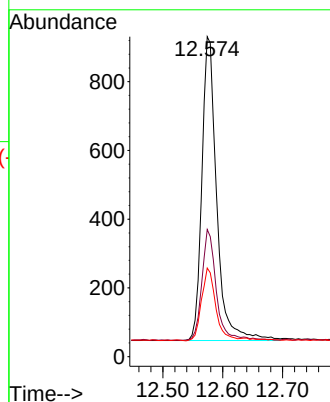
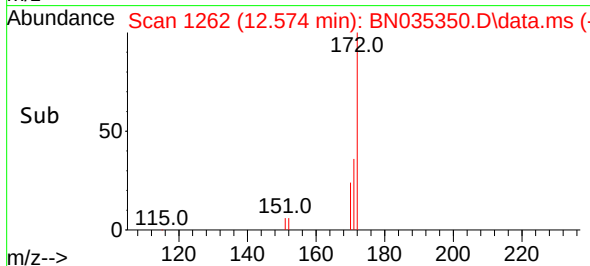
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

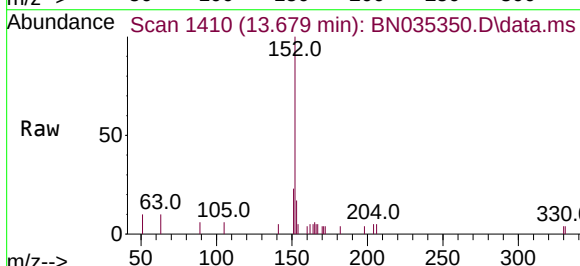
Concen: 0.096 ng

RT: 13.679 min Scan# 1410

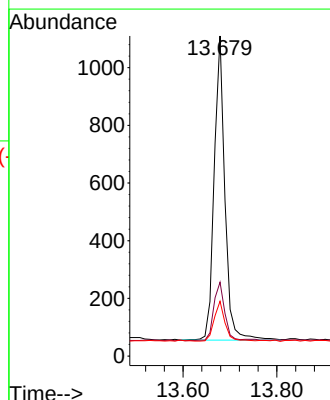
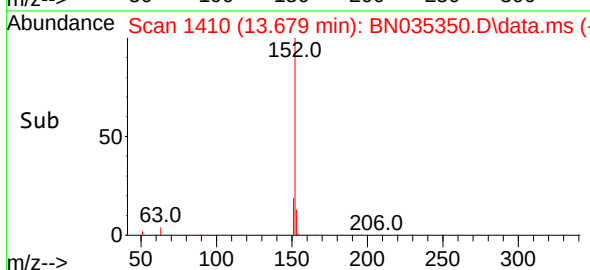
Delta R.T. 0.000 min

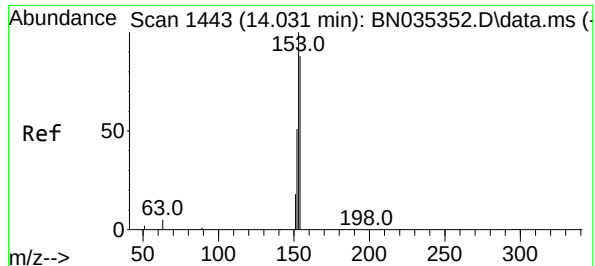
Lab File: BN035350.D

Acq: 27 Nov 2024 15:34



Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6





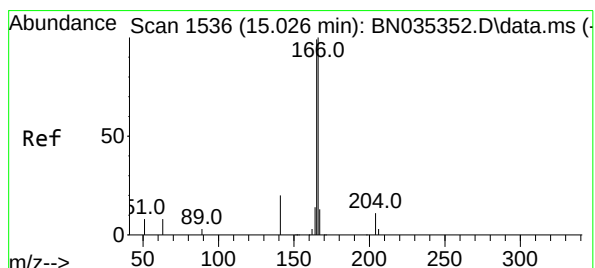
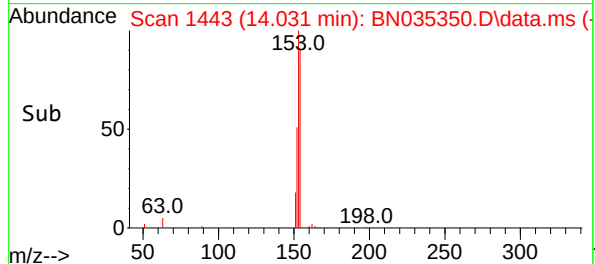
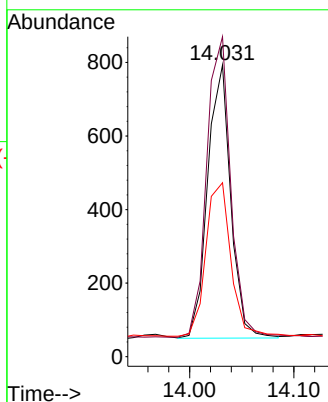
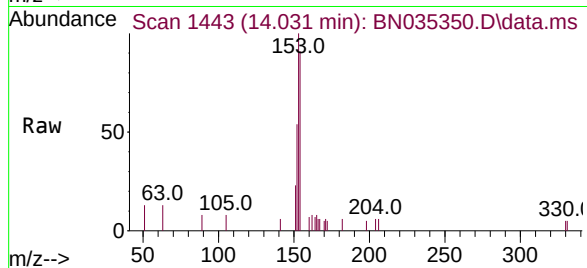
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 114.0
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6

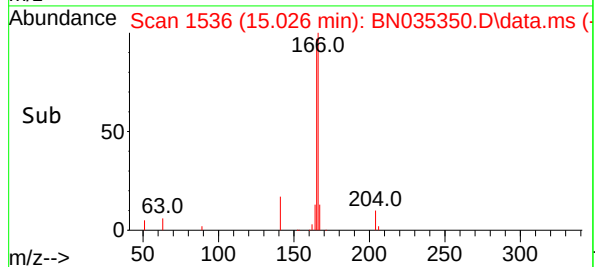
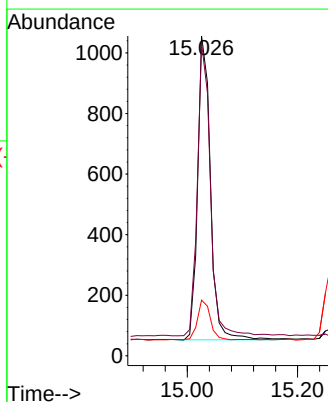
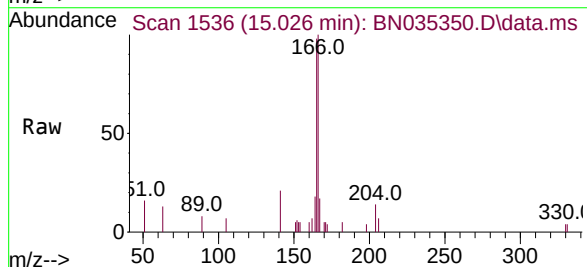
Manual Integrations
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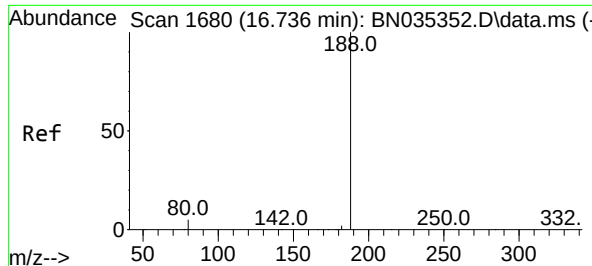
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620
Ion Ratio Lower Upper
166 100
165 97.7 79.7 119.5
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1680

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

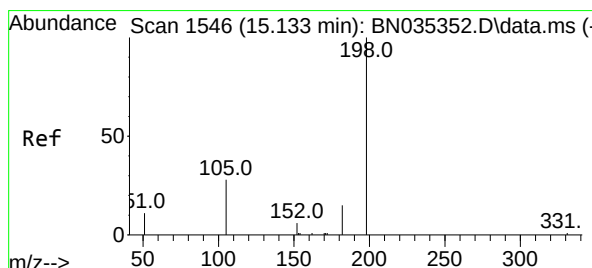
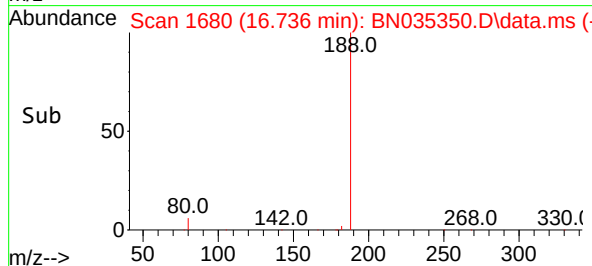
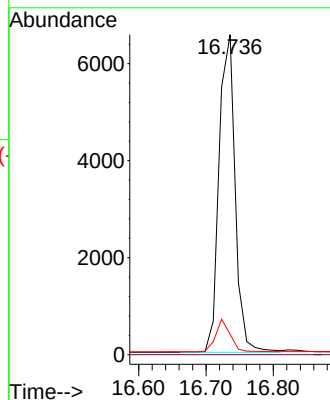
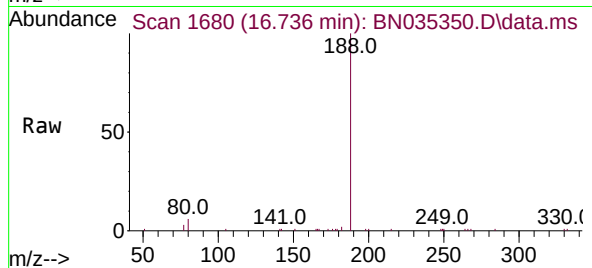
Tgt Ion:188	Resp:	1085
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.4	6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

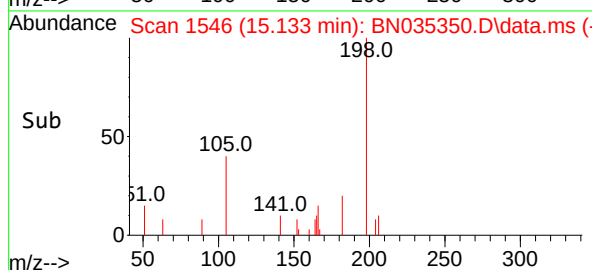
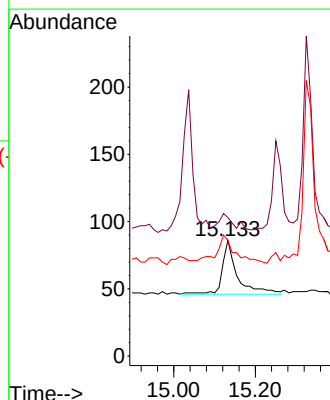
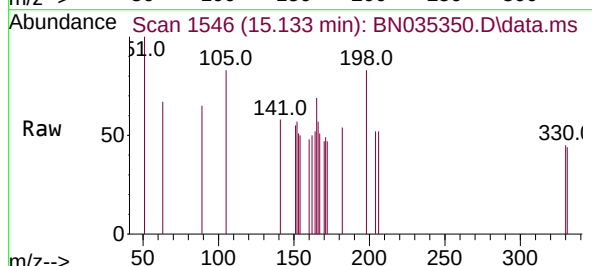
RT: 15.133 min Scan# 1546

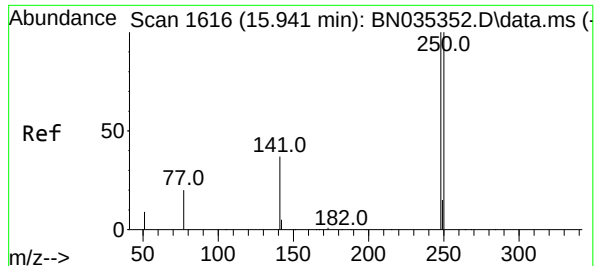
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:198	Resp:	103
Ion Ratio	Lower	Upper
198	100	
51	119.8	46.5
105	100.0	45.3





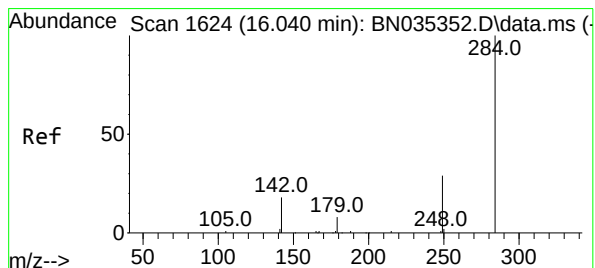
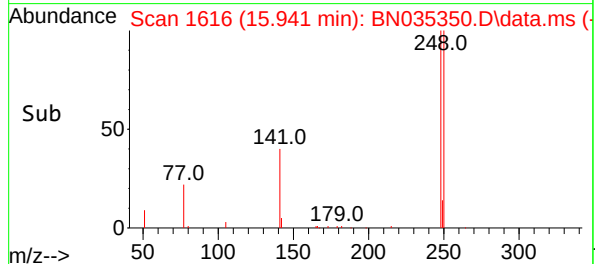
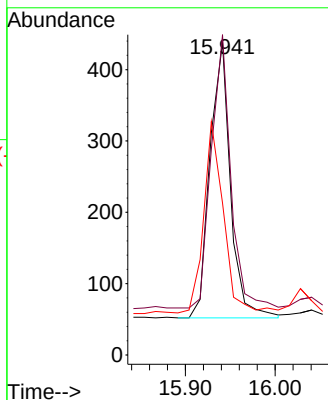
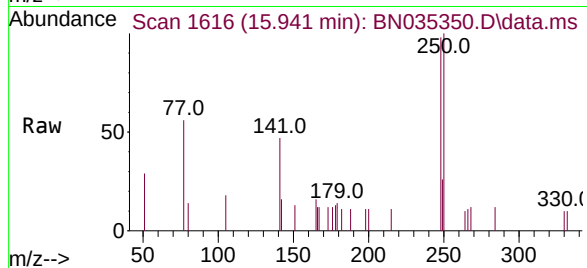
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3

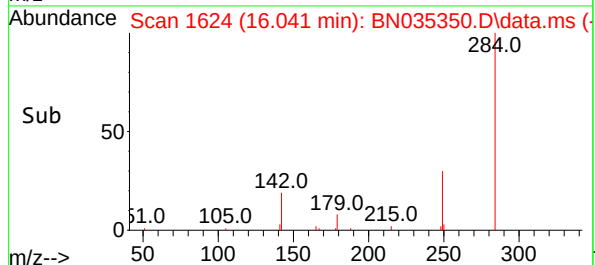
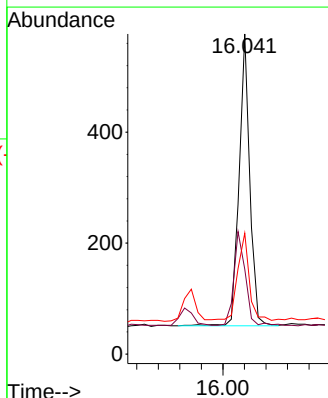
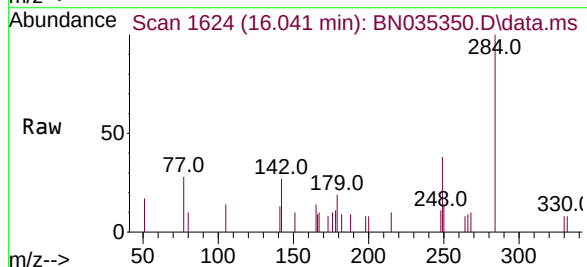
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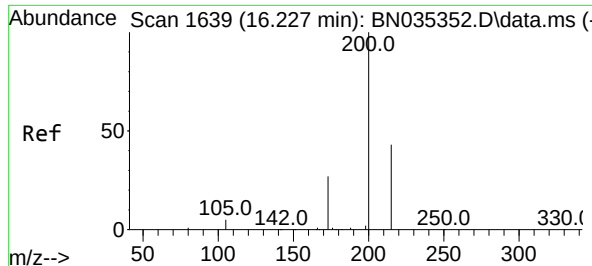
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

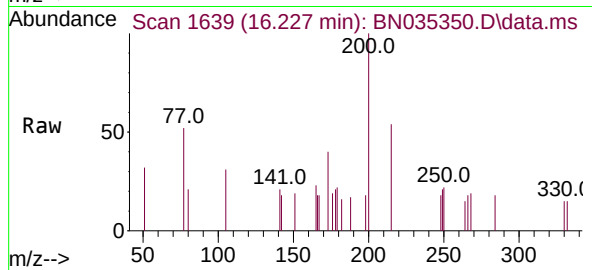
Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8





#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

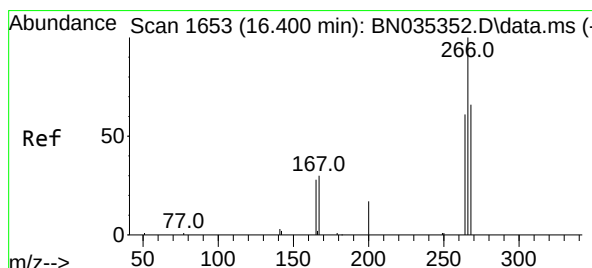
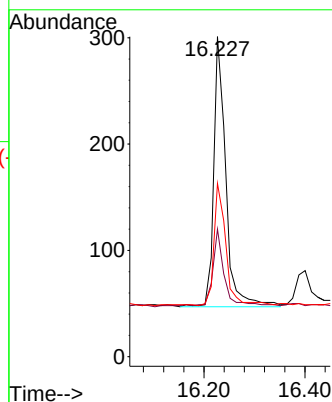
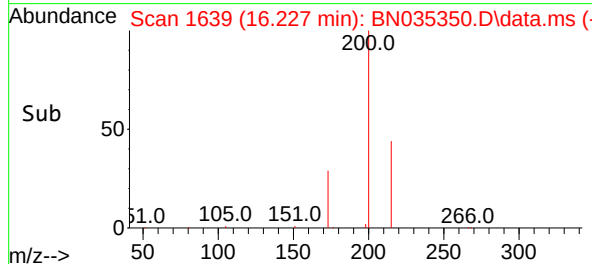
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:200 Resp: 42.1
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1
215 54.2 36.9 55.3

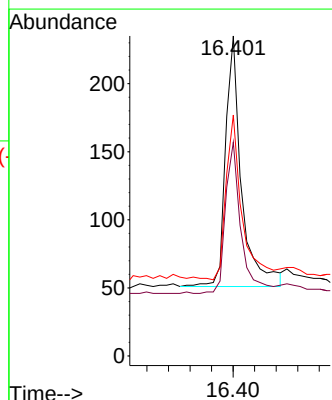
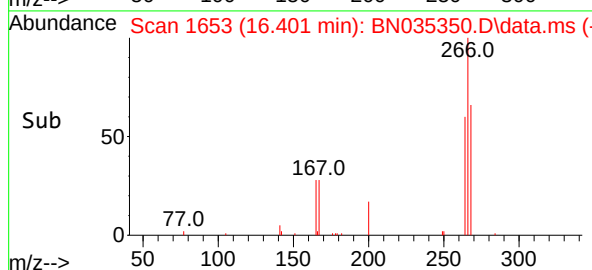
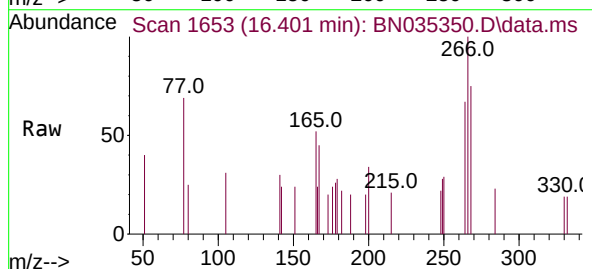
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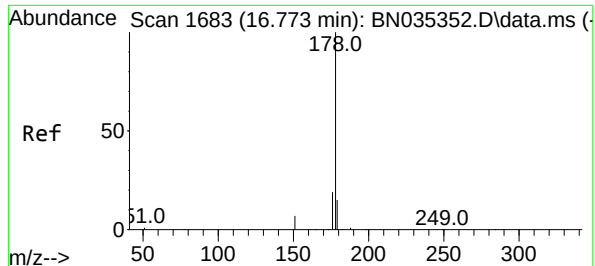
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381
Ion Ratio Lower Upper
266 100
264 58.3 42.3 63.5
268 63.3 43.3 64.9





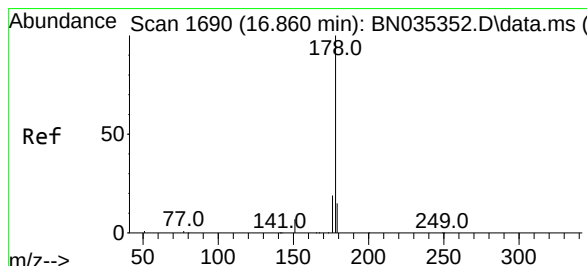
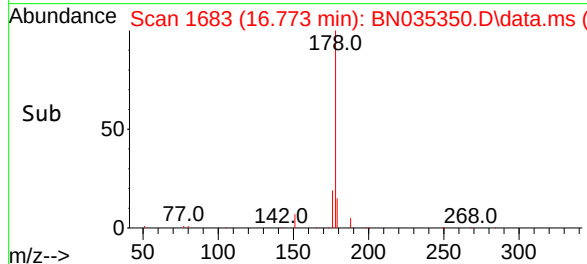
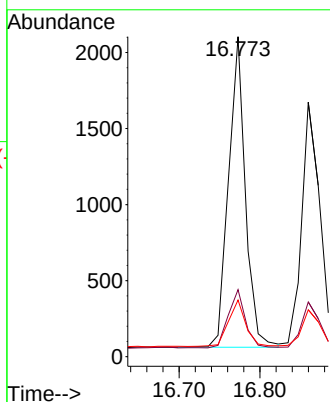
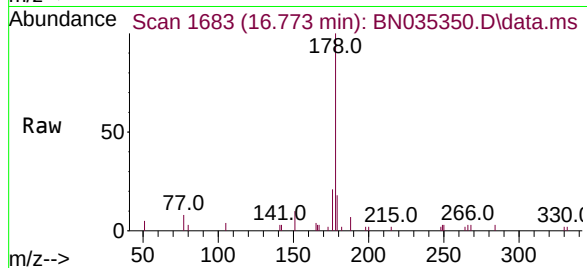
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 296
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5

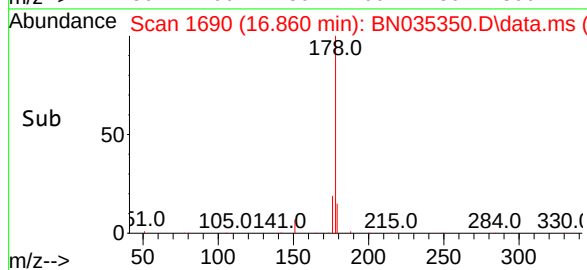
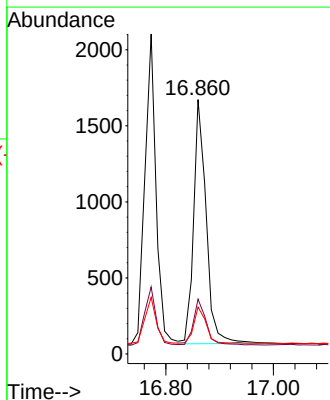
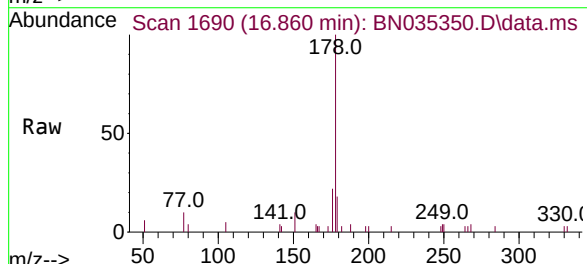
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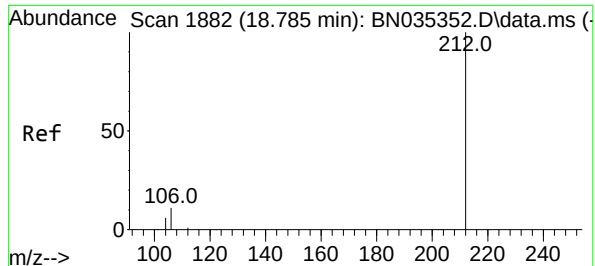
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 14.3 12.6 18.8





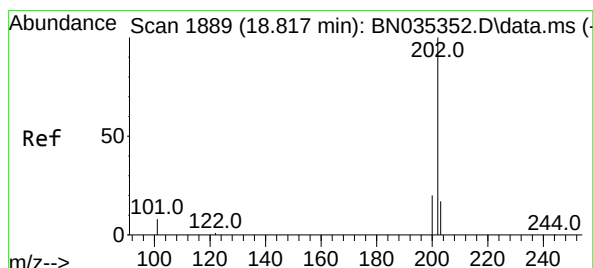
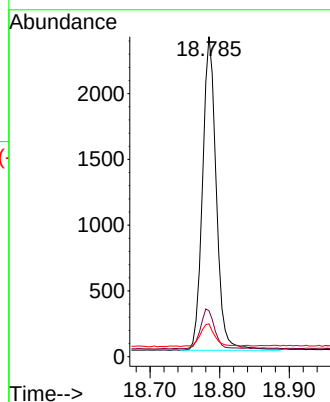
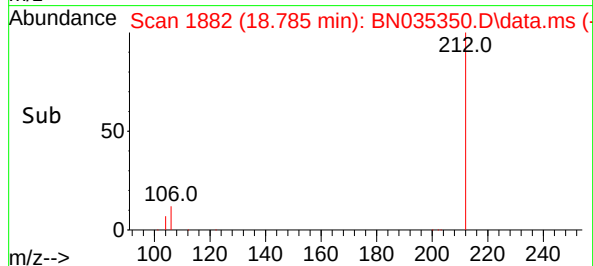
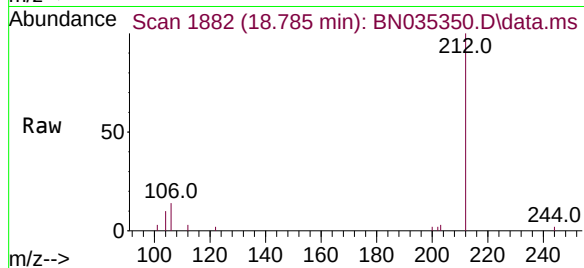
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 326
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9

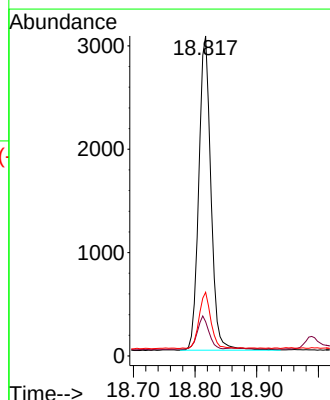
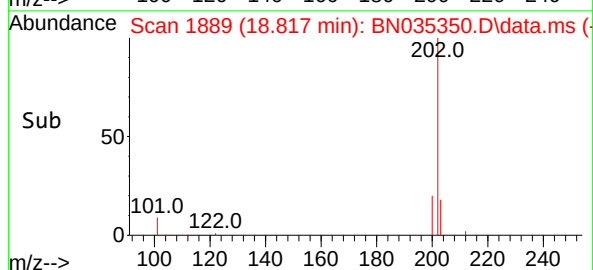
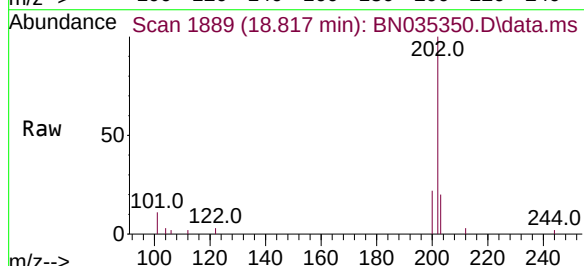
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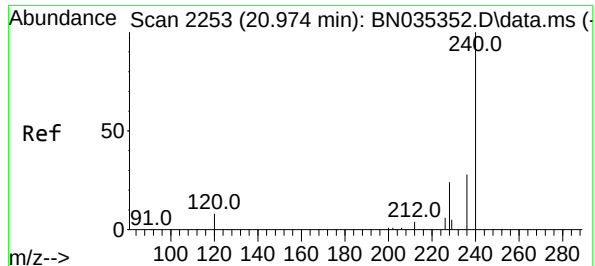
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173
Ion Ratio Lower Upper
202 100
101 10.2 7.4 11.0
203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

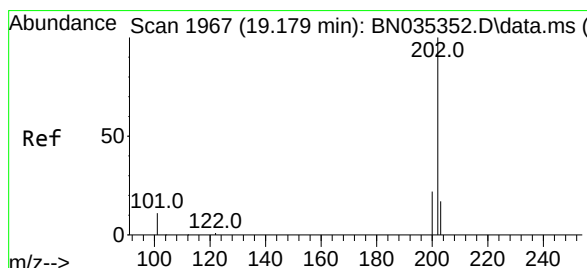
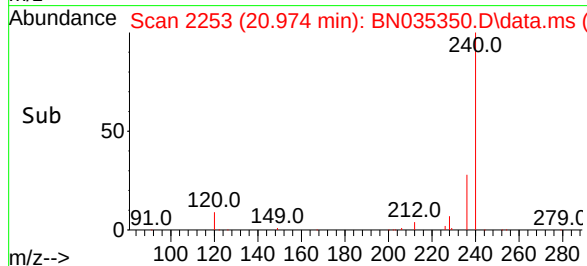
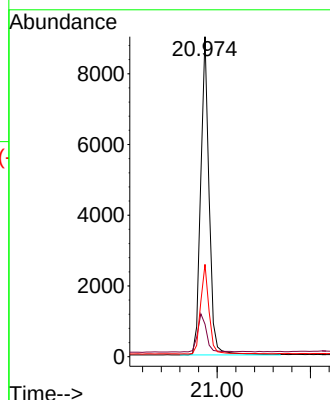
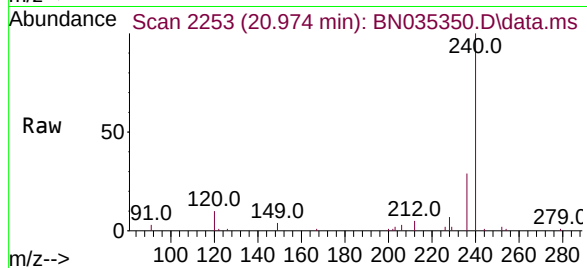
SSTDICC0.1

Tgt Ion:240	Resp:	11269
Ion Ratio	Lower	Upper
240	100	
120	10.1	7.9 11.9
236	28.8	22.9 34.3

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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.119 ng

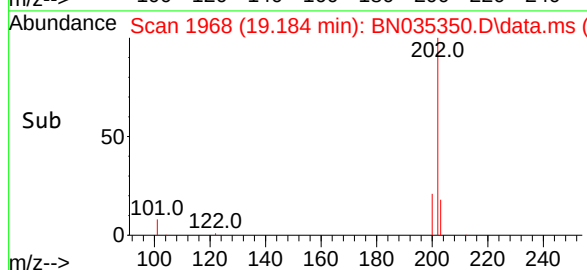
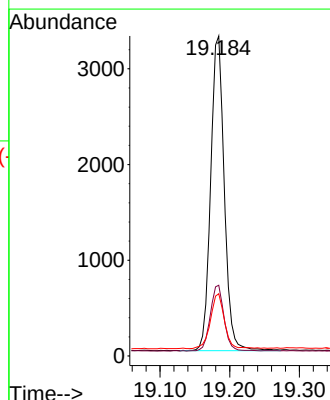
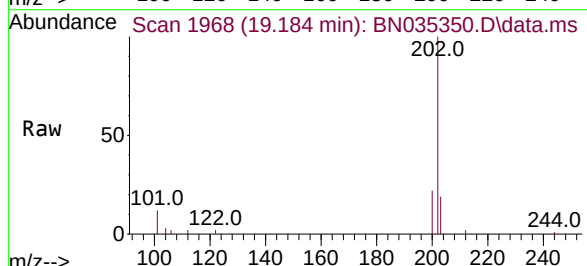
RT: 19.184 min Scan# 1968

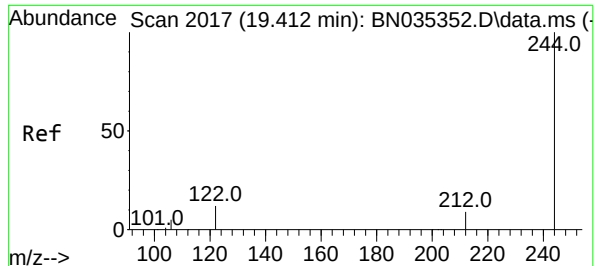
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

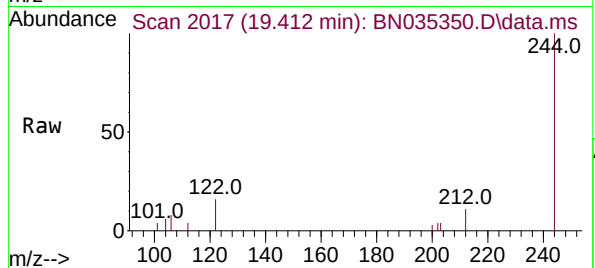
Tgt Ion:202	Resp:	4461
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.0 25.4
203	18.0	14.3 21.5





#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

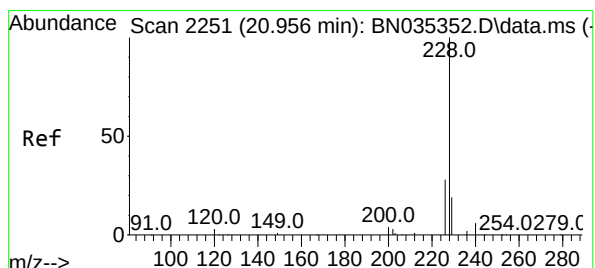
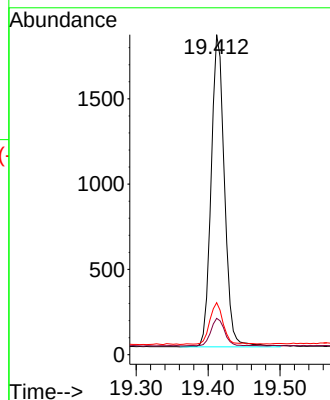
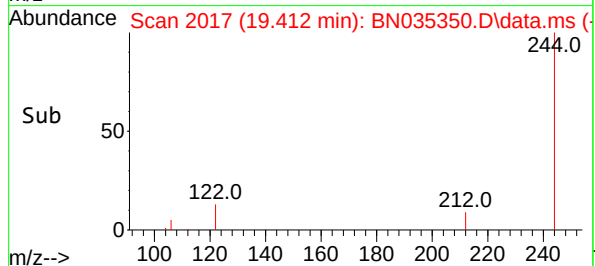
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 2344
Ion Ratio Lower Upper
244 100
212 11.4 8.1 12.1
122 16.3 10.3 15.5

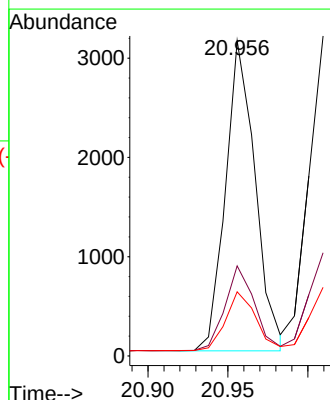
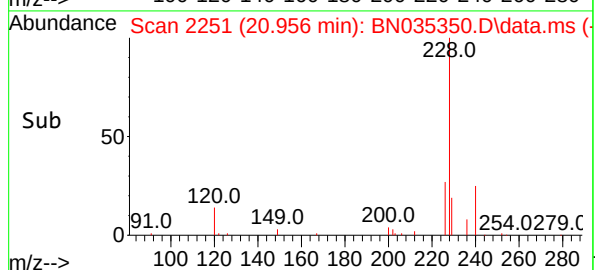
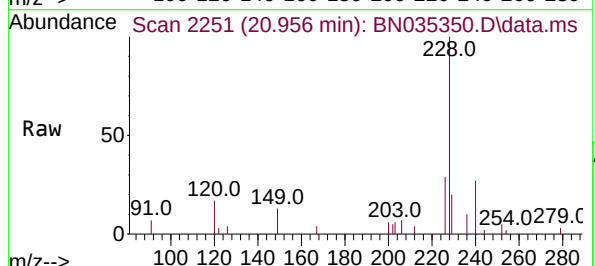
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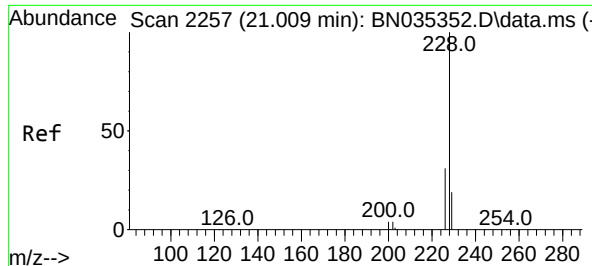
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

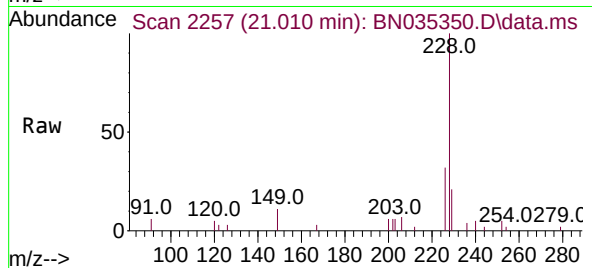
Tgt Ion:228 Resp: 4031
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 20.4 15.8 23.8





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

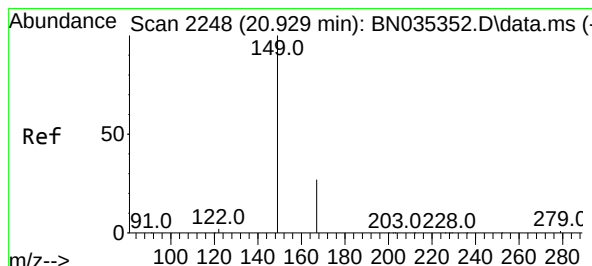
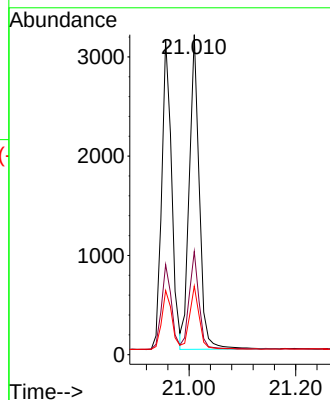
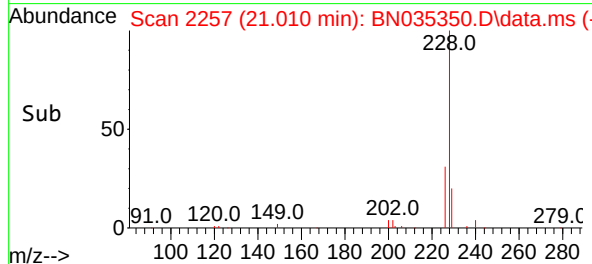
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 412
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9

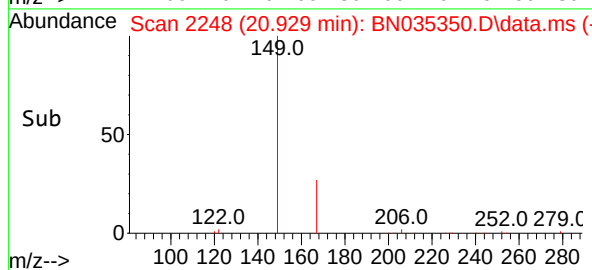
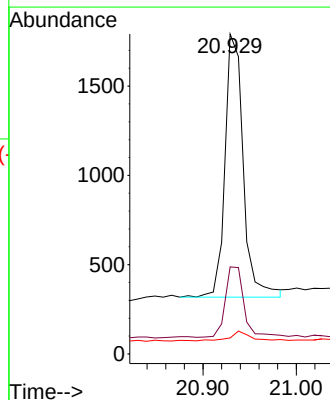
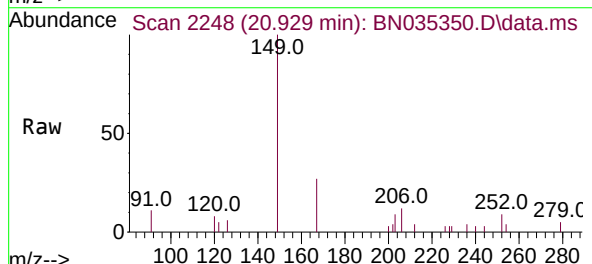
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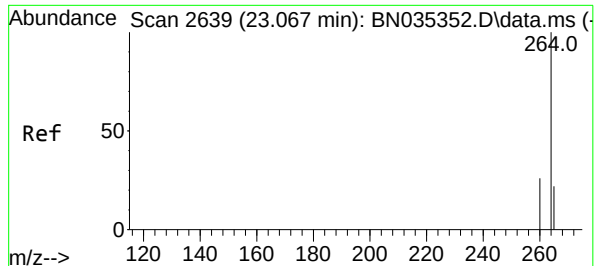
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

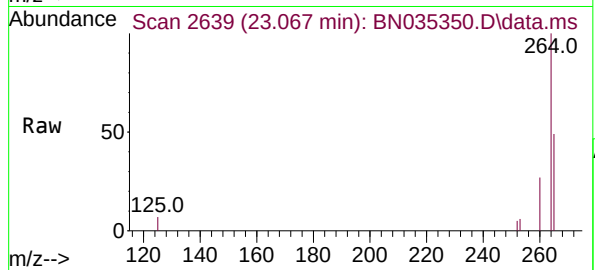
Tgt Ion:149 Resp: 1999
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.6 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

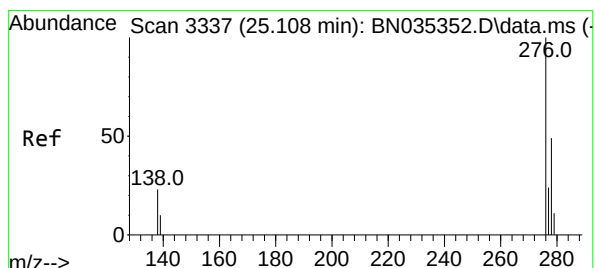
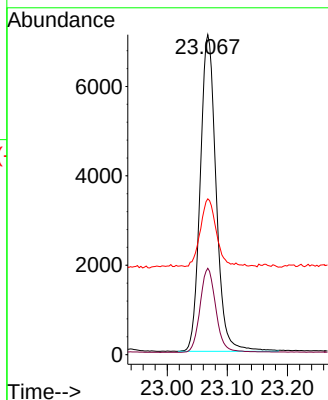
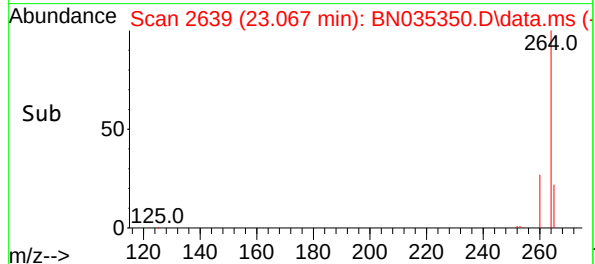
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:264 Resp: 13004
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 48.7 40.2 60.4

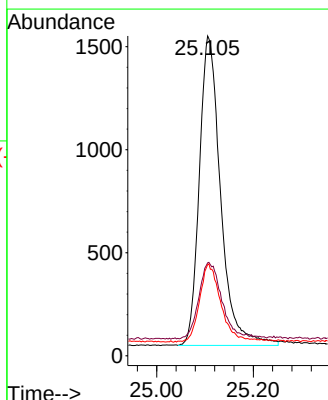
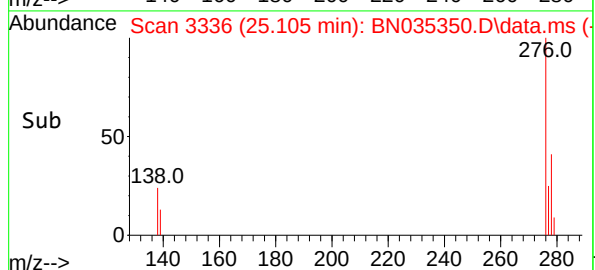
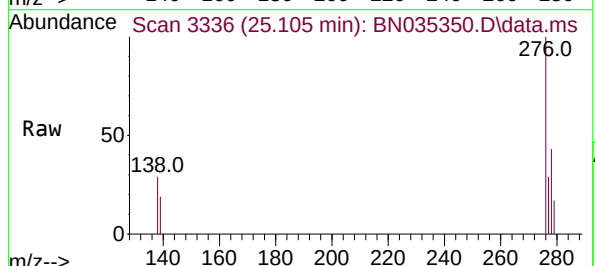
Manual Integrations
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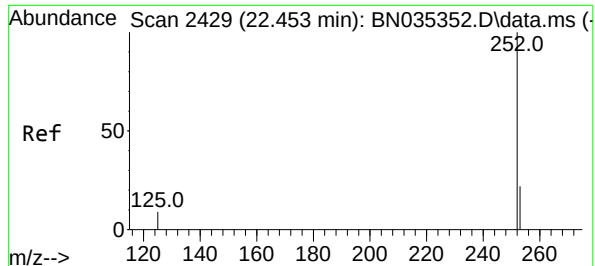
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586
Ion Ratio Lower Upper
276 100
138 26.2 19.4 29.0
277 25.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 22.456 min Scan# 2429

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

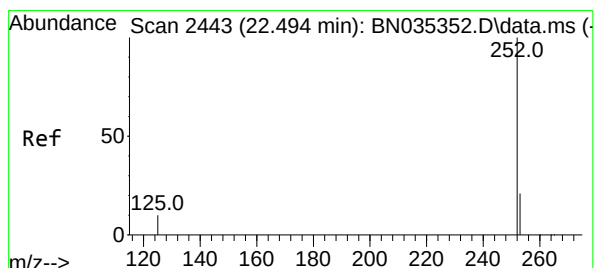
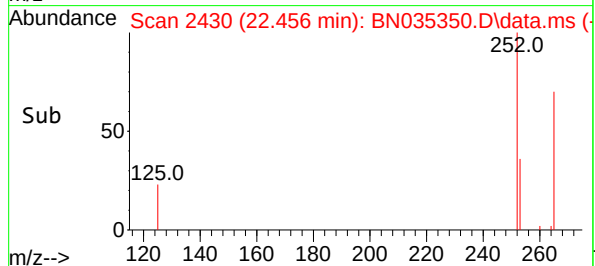
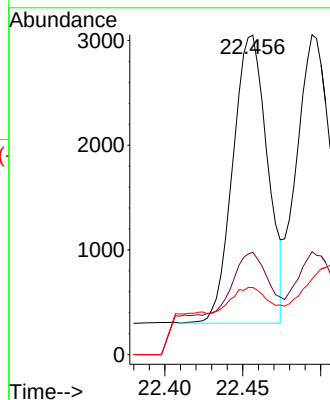
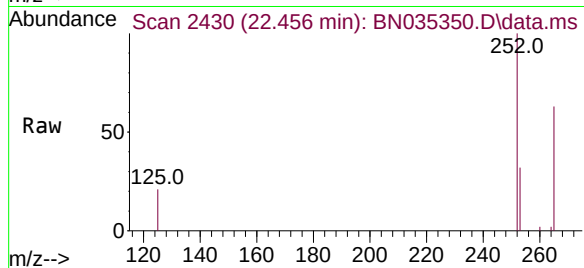
SSTDICC0.1

Tgt Ion:252	Resp:	424
Ion Ratio	Lower	Upper
252	100	
253	32.1	19.6 29.4
125	21.0	9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.107 ng m

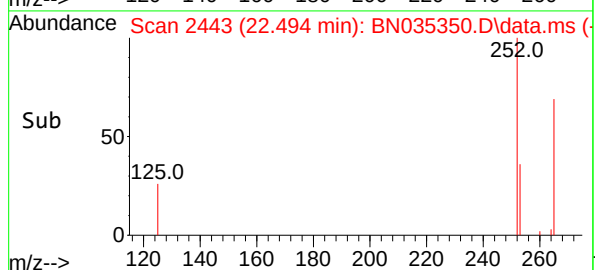
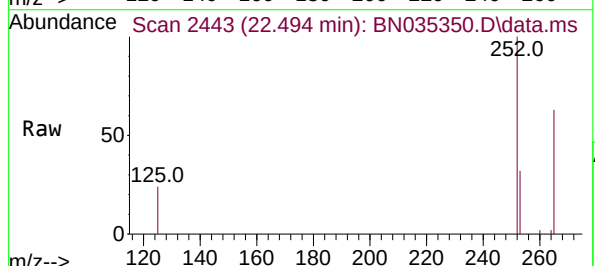
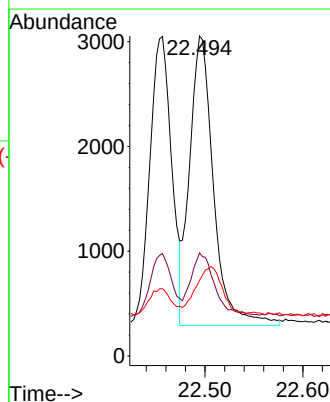
RT: 22.494 min Scan# 2443

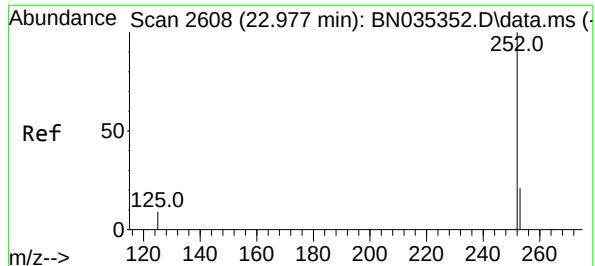
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:252	Resp:	4695
Ion Ratio	Lower	Upper
252	100	
253	32.2	19.5 29.3
125	23.7	10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

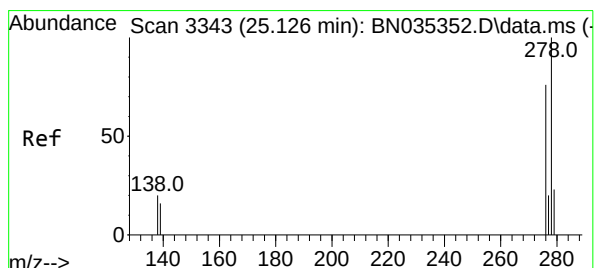
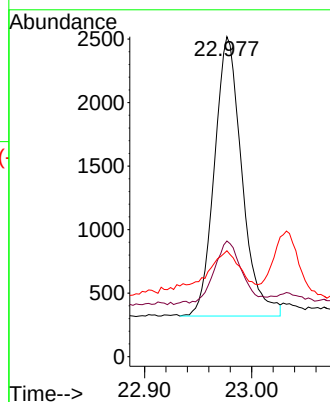
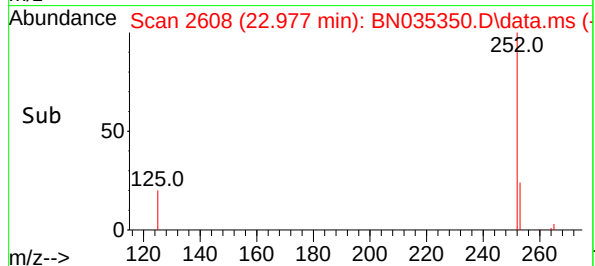
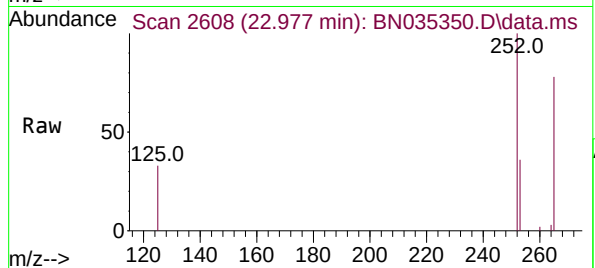
Tgt Ion:	252	Resp:	391
Ion Ratio	Lower	Upper	
252	100		
253	36.1	20.2	30.4
125	33.1	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

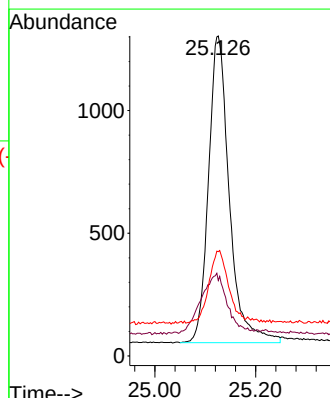
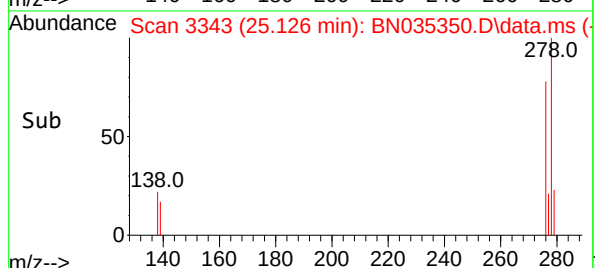
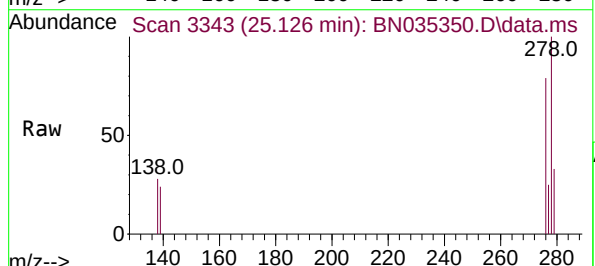
RT: 25.126 min Scan# 3343

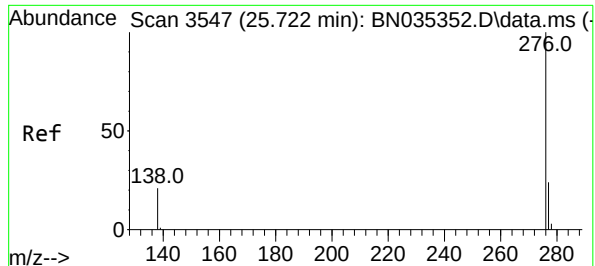
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:	278	Resp:	3588
Ion Ratio	Lower	Upper	
278	100		
139	23.6	14.2	21.4
279	32.6	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035350.D

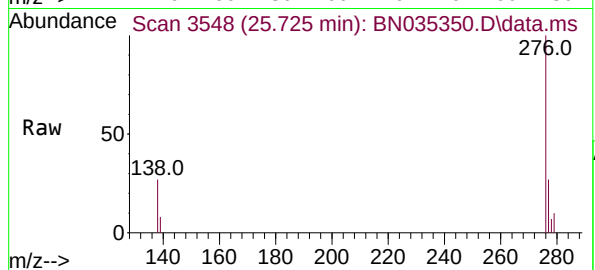
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

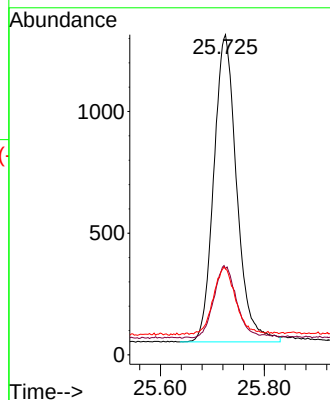
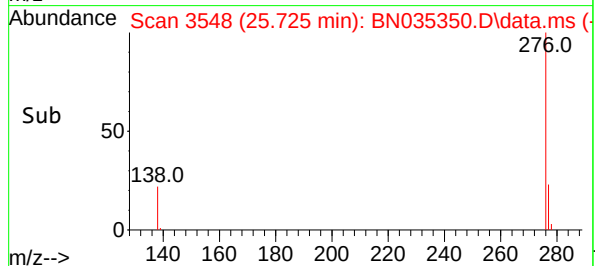
138 26.8 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035351.D
 Acq On : 27 Nov 2024 16:10
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:33 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 22:48:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	7675m	0.204	ng	
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

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

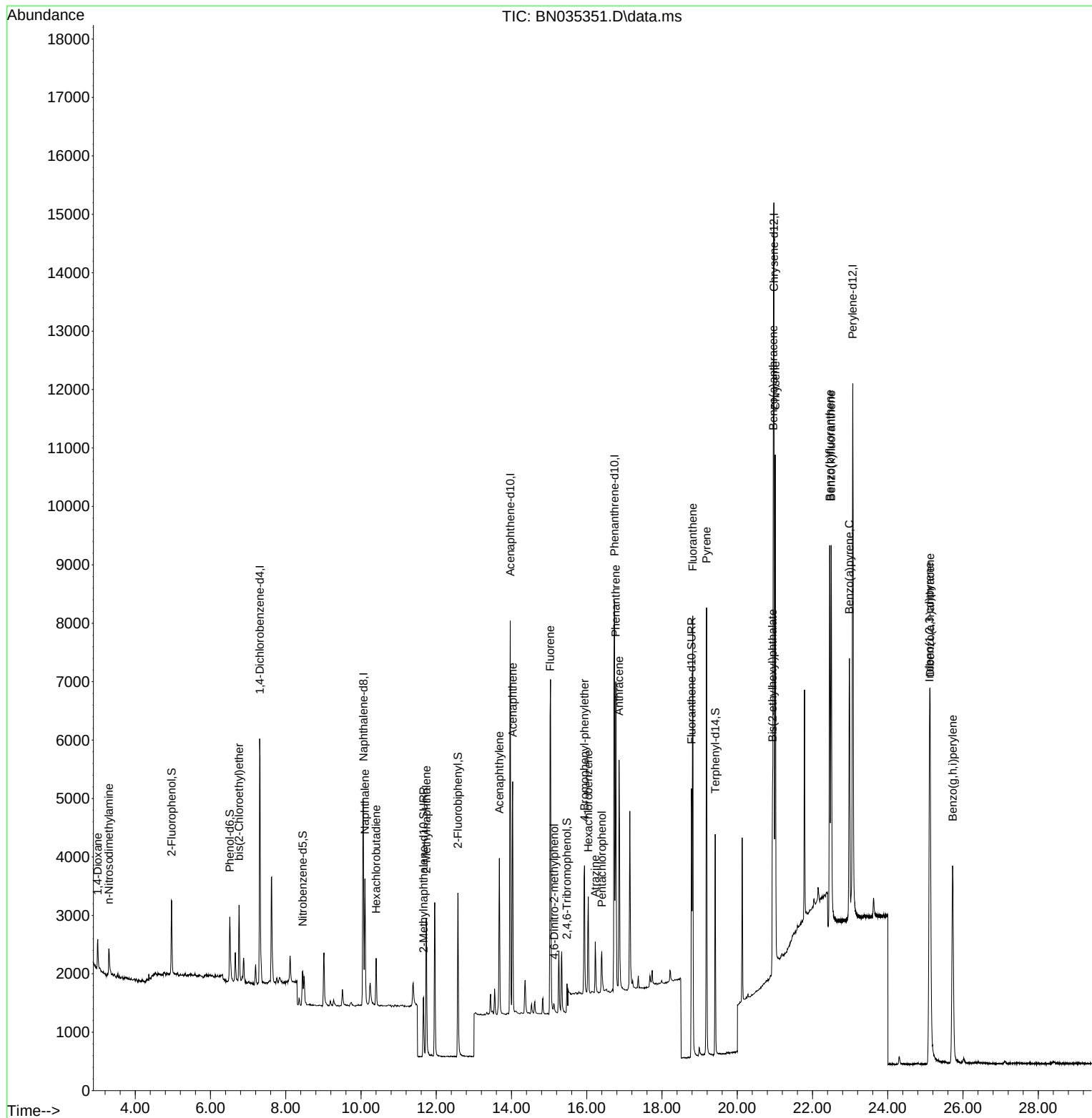
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

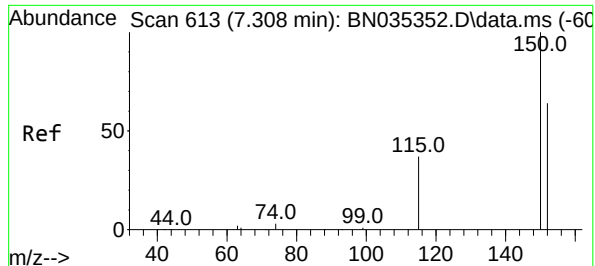
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

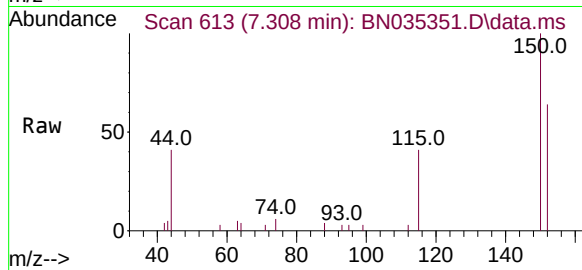
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

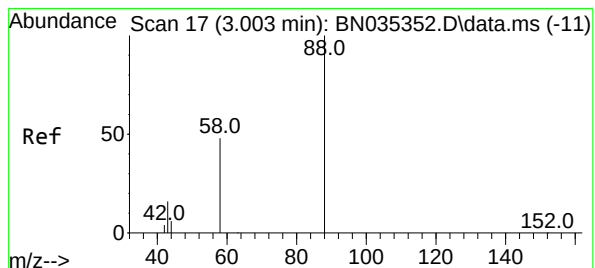
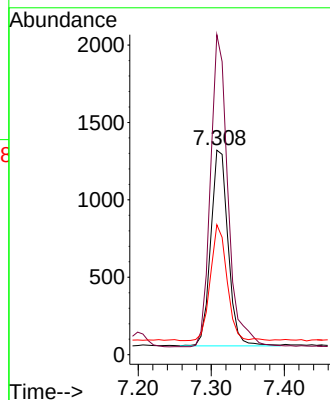
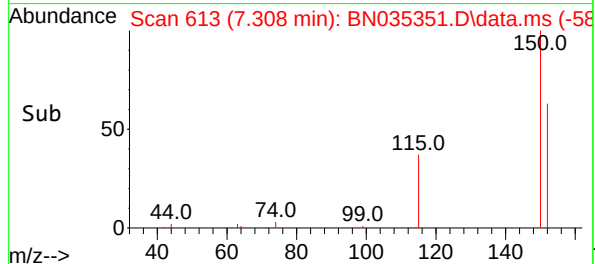
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2084
Ion Ratio Lower Upper
152 100
150 156.5 124.0 186.0
115 63.5 49.6 74.4

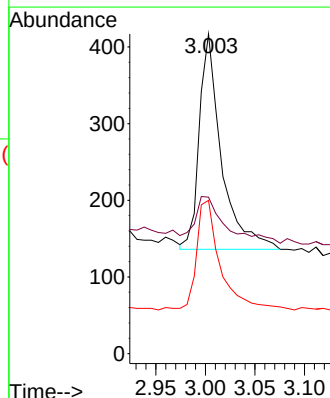
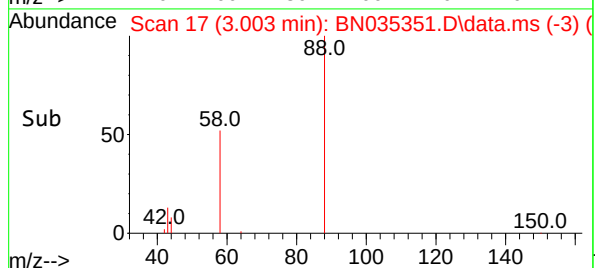
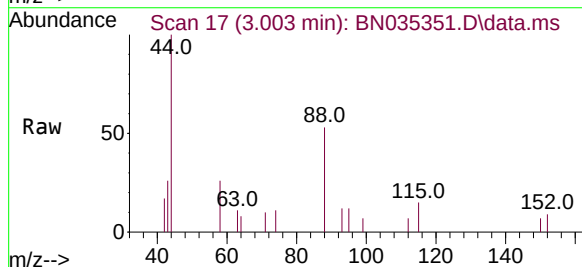
Manual Integrations
APPROVED

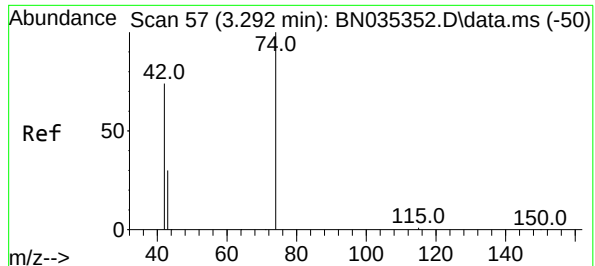
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

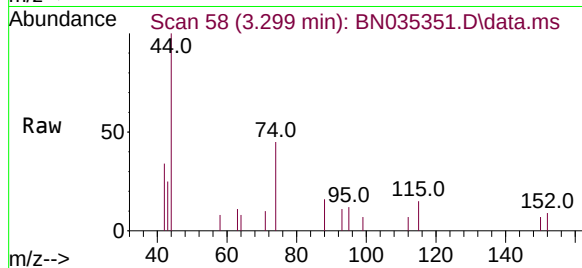
Tgt Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 29.9 17.2 25.8#
58 55.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 57
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

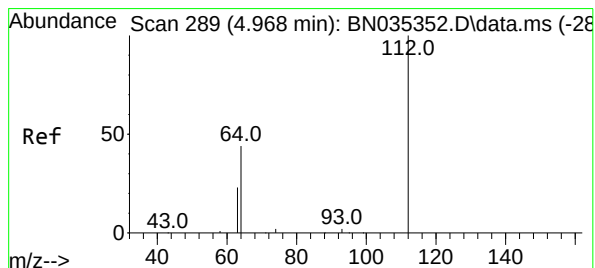
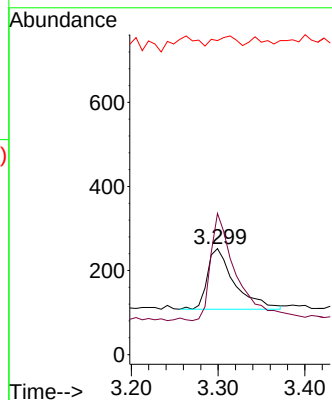
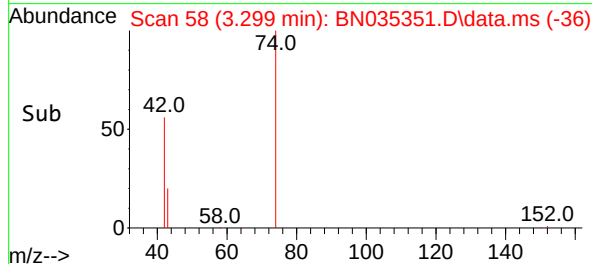
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4

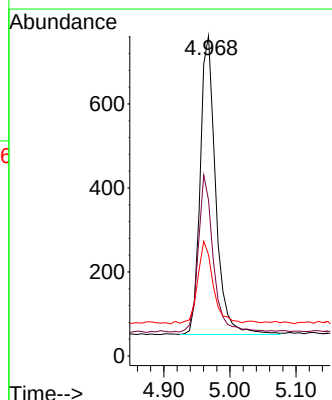
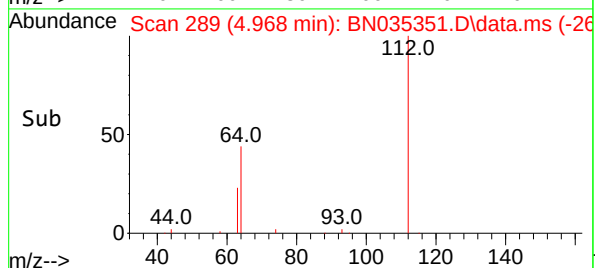
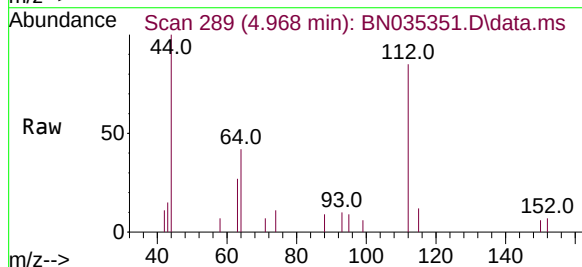
Manual Integrations
APPROVED

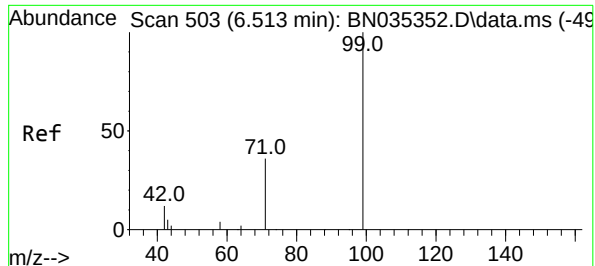
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 27.9 21.0 31.6





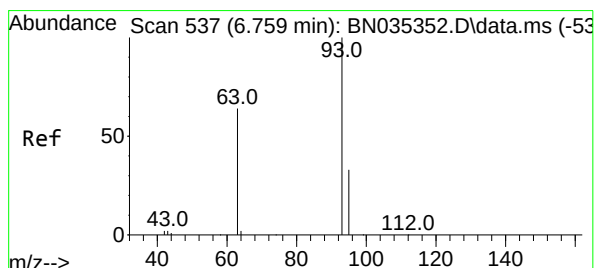
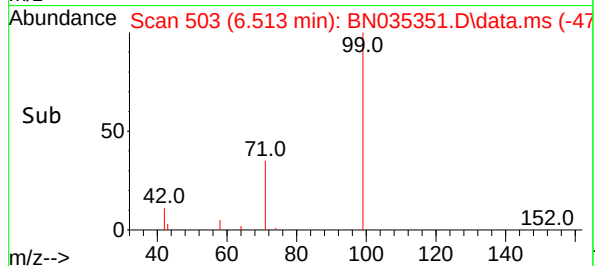
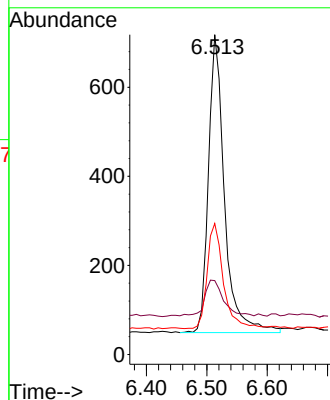
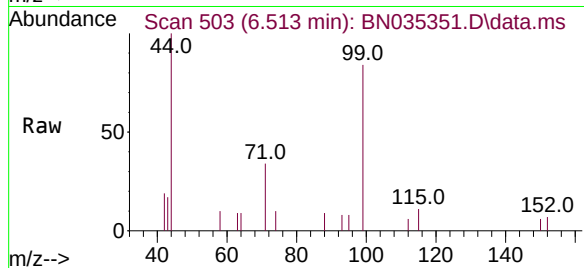
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1230
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.8 29.3 43.9

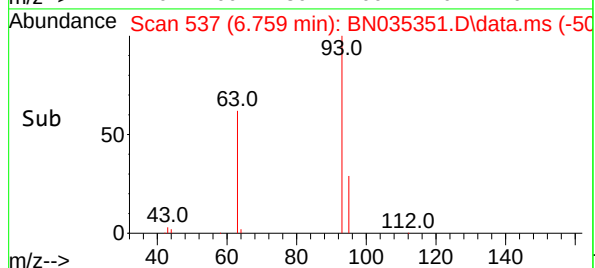
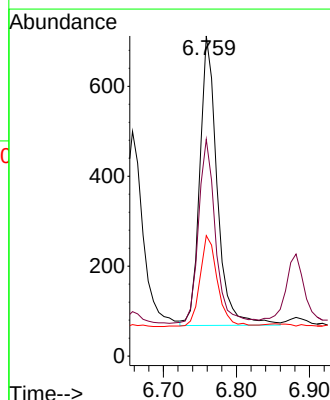
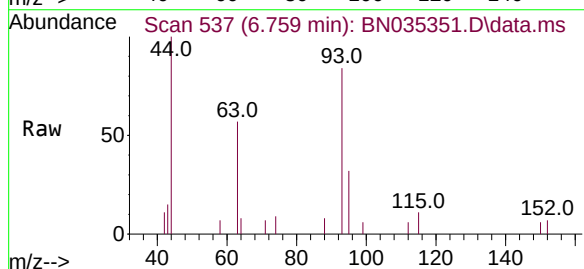
Manual Integrations
APPROVED

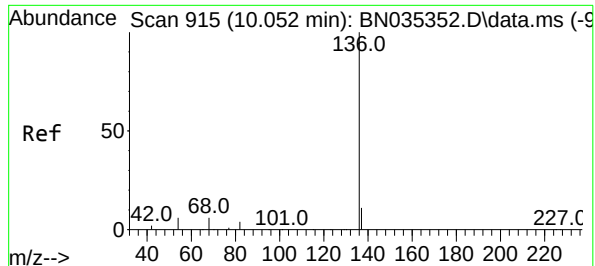
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

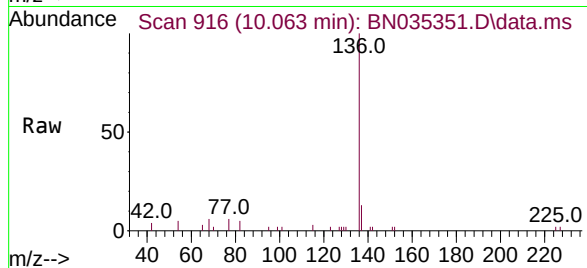
Tgt Ion: 93 Resp: 1064
Ion Ratio Lower Upper
93 100
63 62.2 50.4 75.6
95 31.6 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

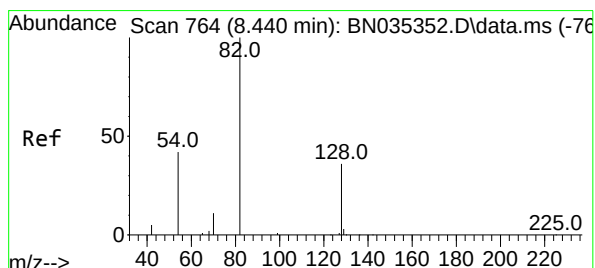
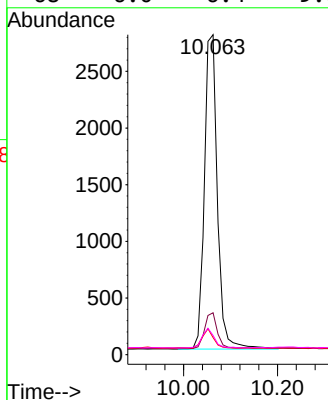
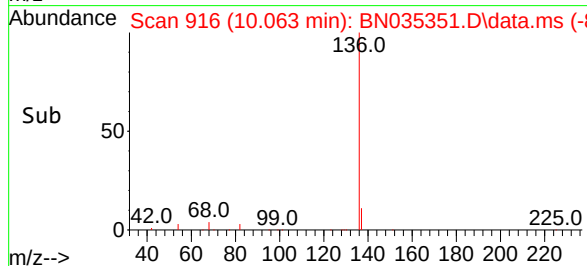
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 136 Resp: 5334
Ion Ratio Lower Upper
136 100
137 13.1 10.2 15.2
54 5.3 6.1 9.1
68 6.0 6.4 9.6#

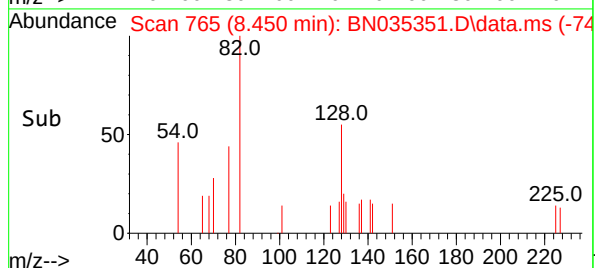
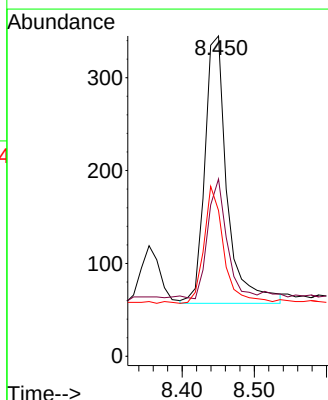
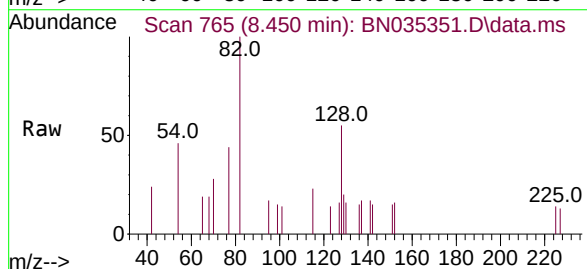
Manual Integrations
APPROVED

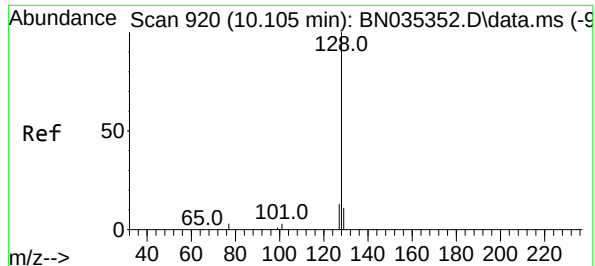
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618
Ion Ratio Lower Upper
82 100
128 55.4 33.4 50.0#
54 45.5 36.7 55.1





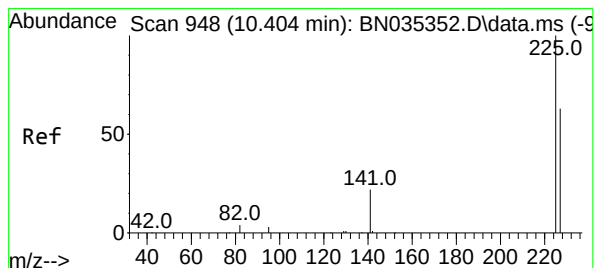
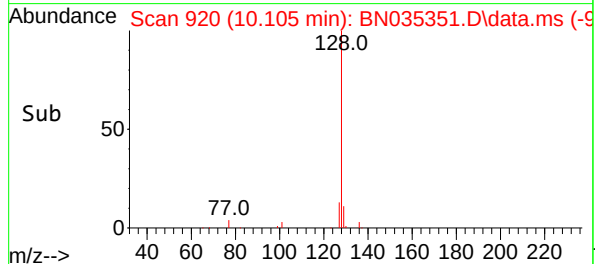
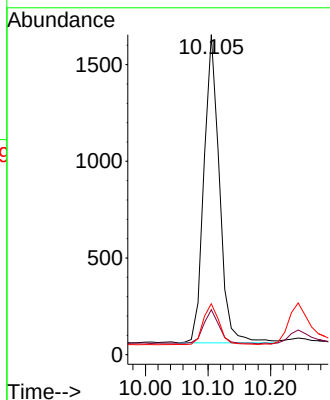
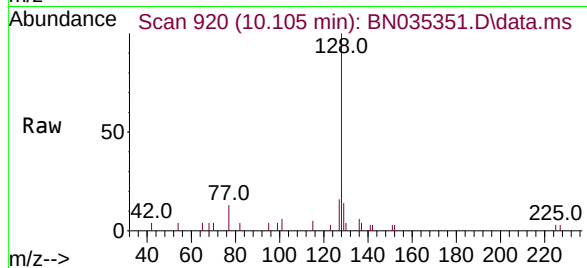
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2

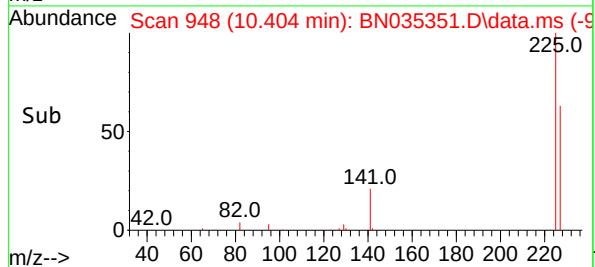
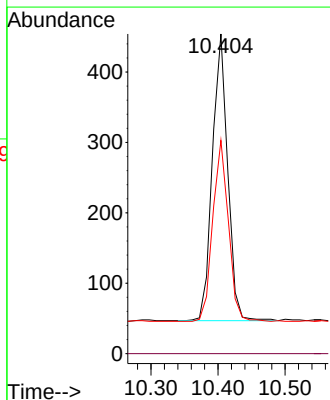
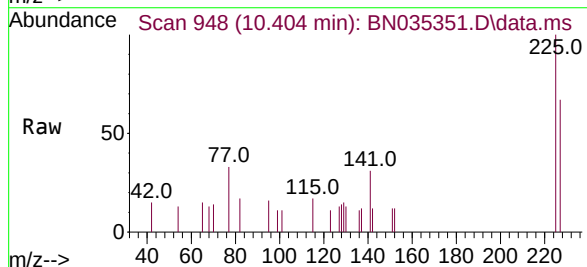
Manual Integrations
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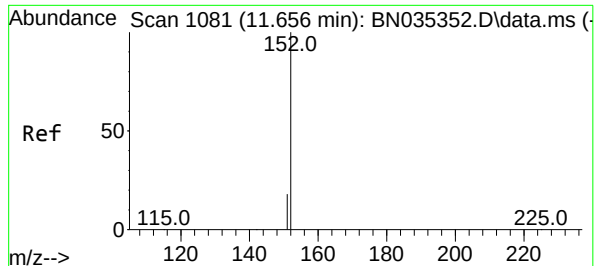
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

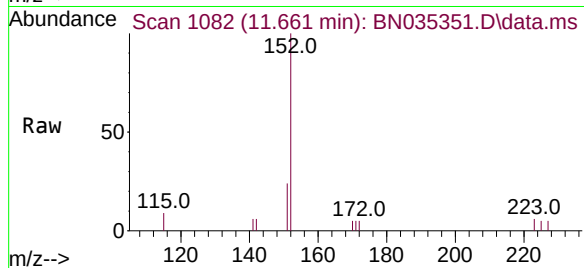
Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

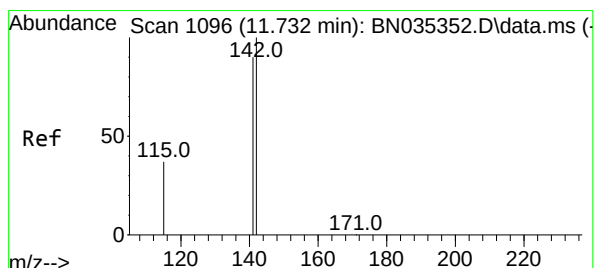
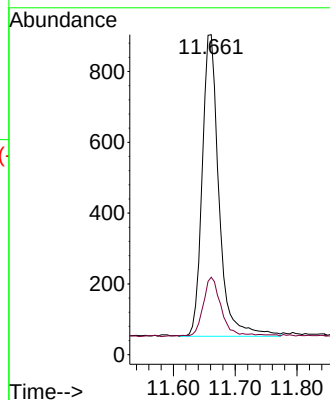
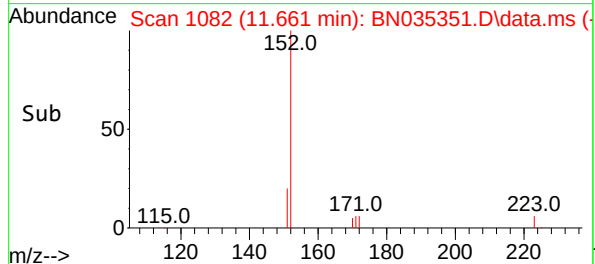
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0

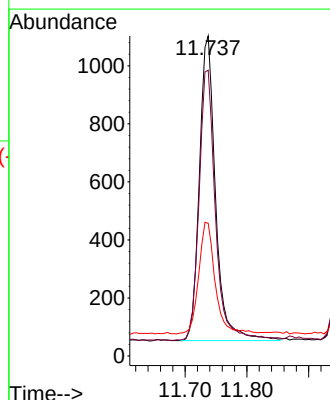
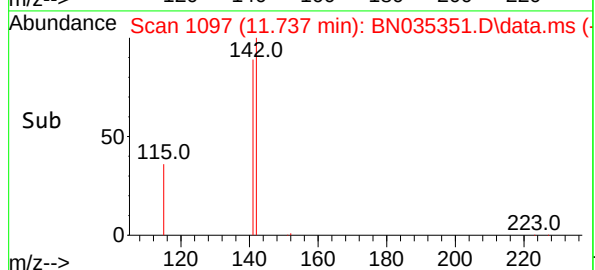
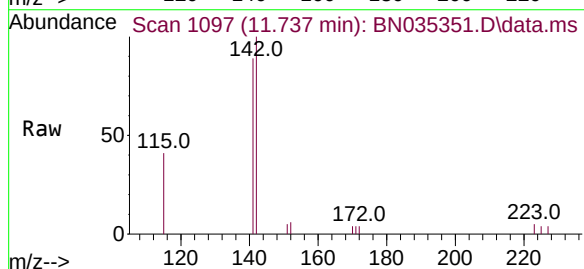
Manual Integrations
APPROVED

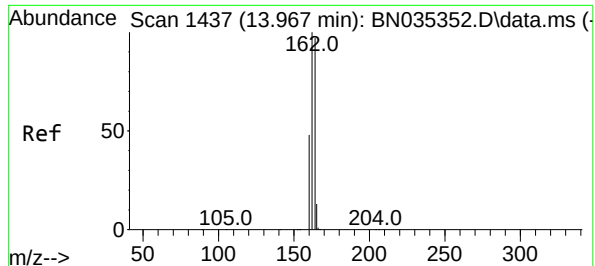
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





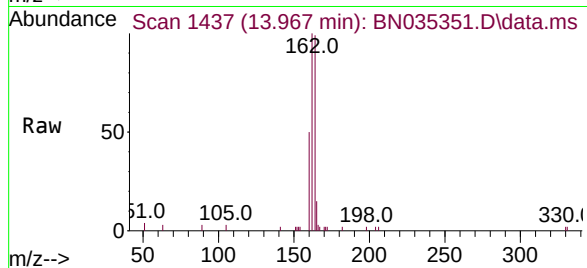
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



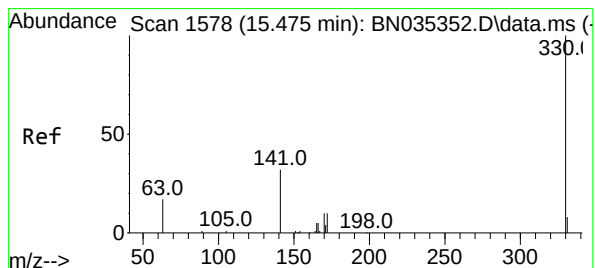
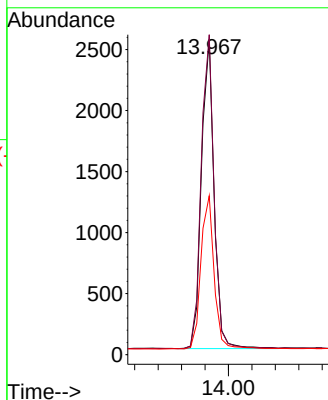
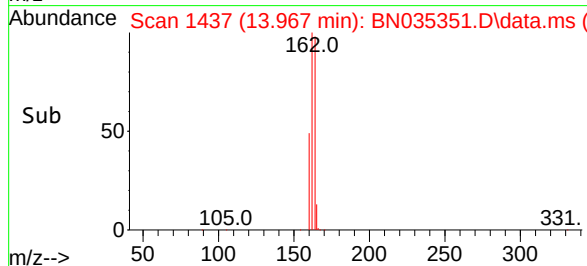
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

Manual Integrations

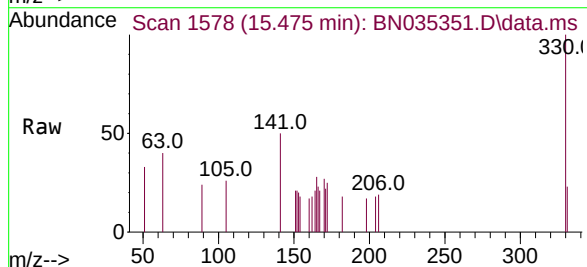
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

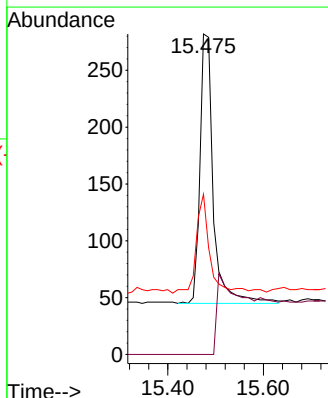
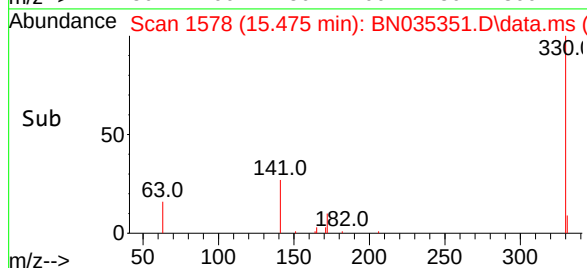
Supervised By :mohammad ahmed 12/03/2024

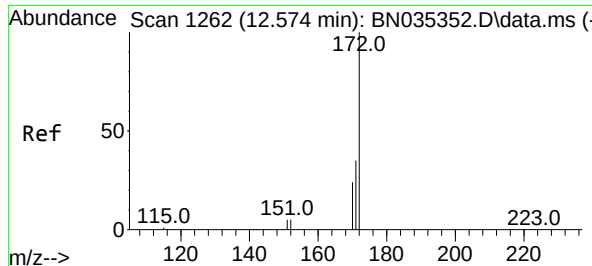


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0





#15

2-Fluorobiphenyl

Concen: 0.184 ng

RT: 12.574 min Scan# 1262

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion Ratio Lower Upper

172 100

171 37.9 29.0 43.4

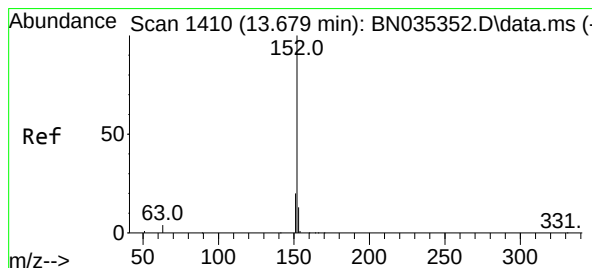
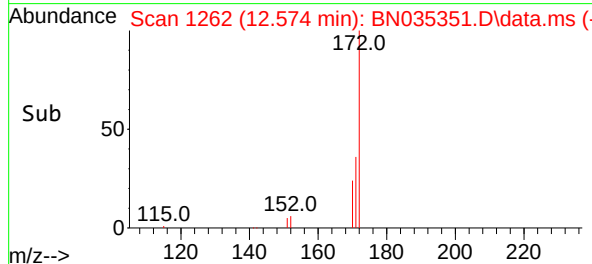
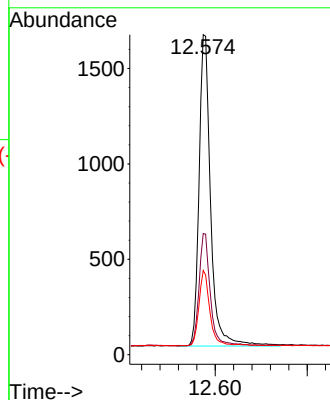
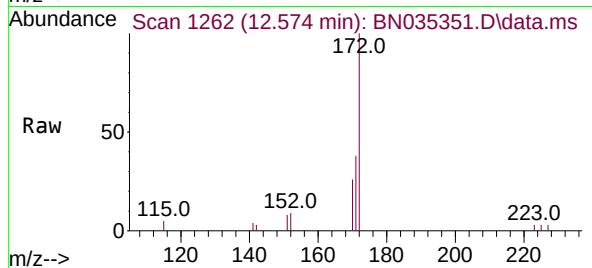
170 26.3 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.187 ng

RT: 13.678 min Scan# 1410

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

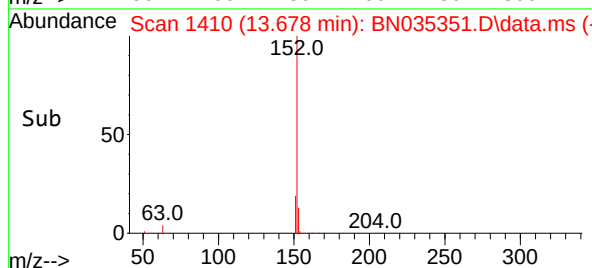
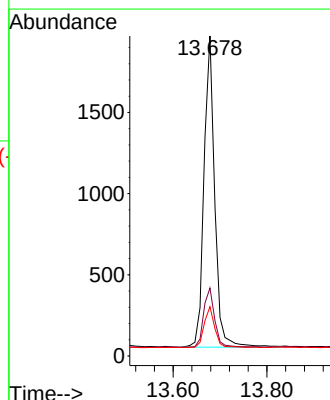
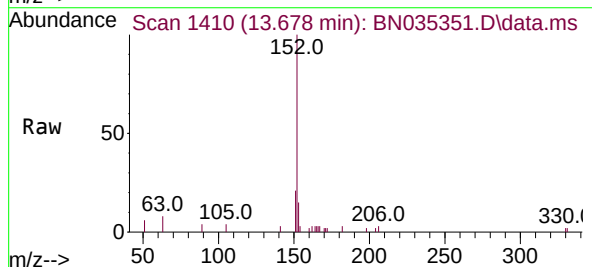
Tgt Ion:152 Resp: 3047

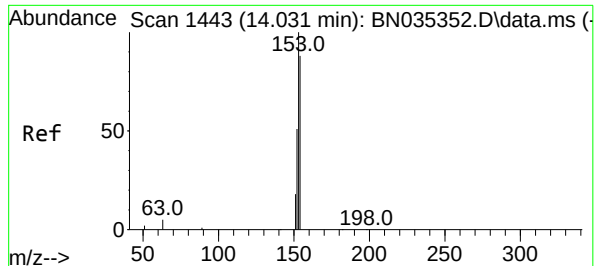
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

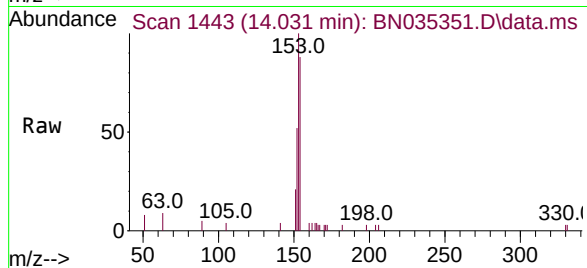
153 12.9 10.4 15.6





#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

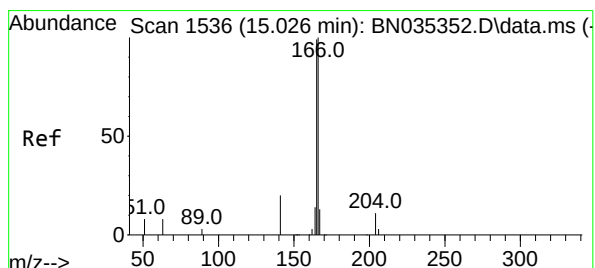
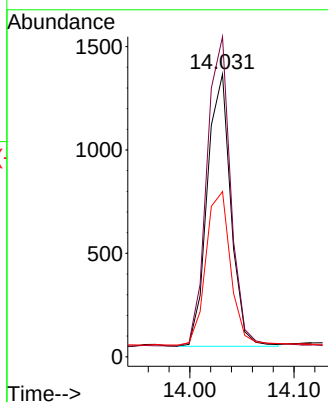
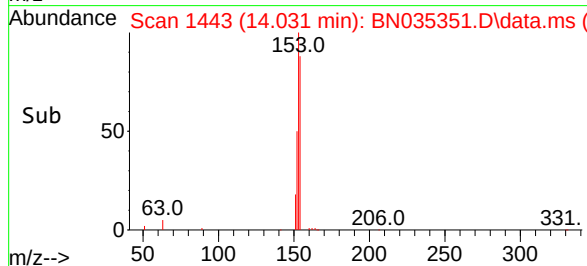
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6

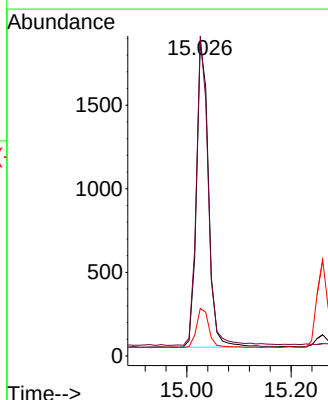
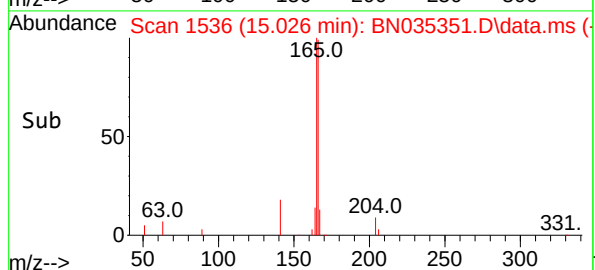
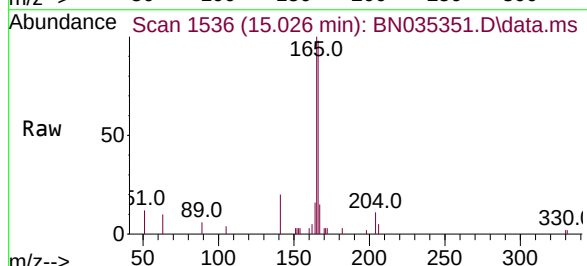
Manual Integrations
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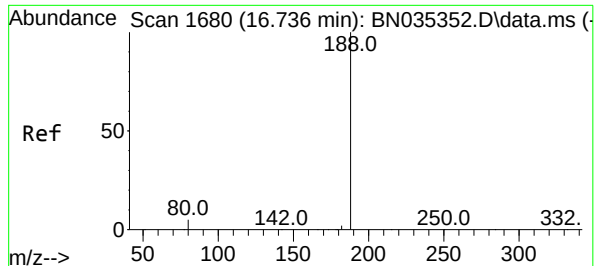
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

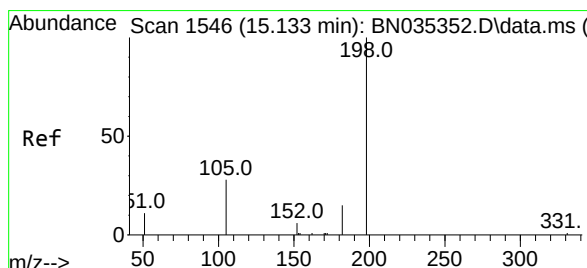
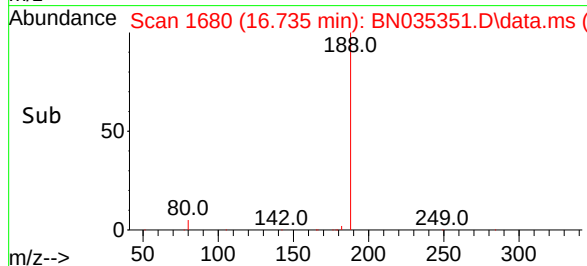
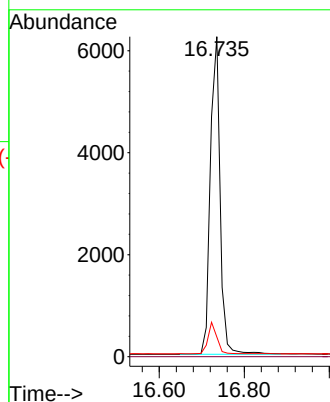
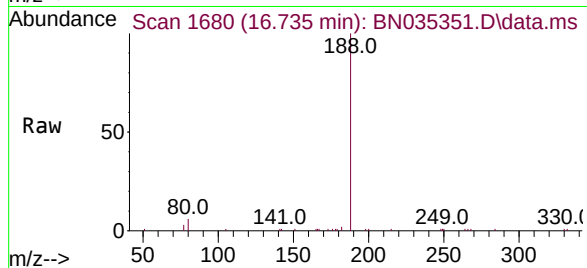
Tgt Ion:188	Resp:	990
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.2	6.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

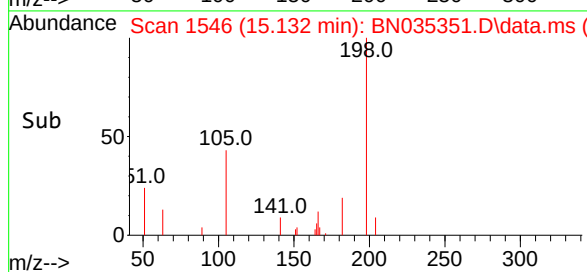
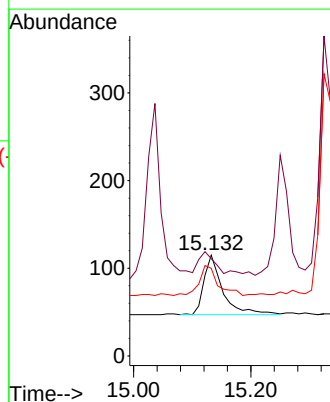
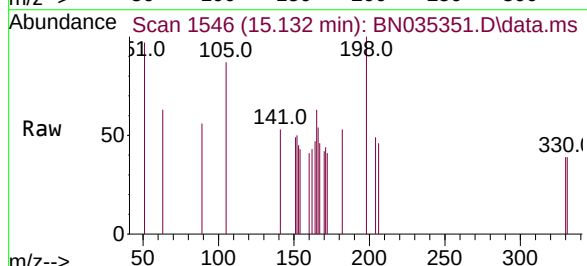
RT: 15.132 min Scan# 1546

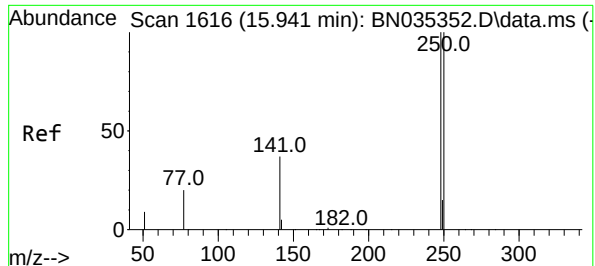
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion:198	Resp:	153
Ion Ratio	Lower	Upper
198	100	
51	96.5	46.5
105	87.0	45.3





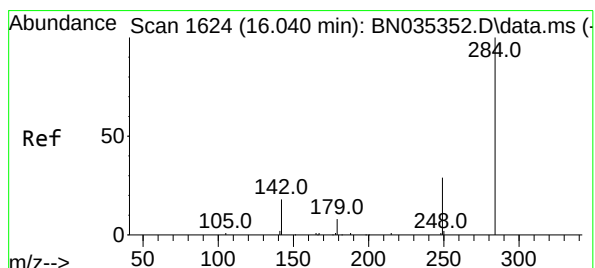
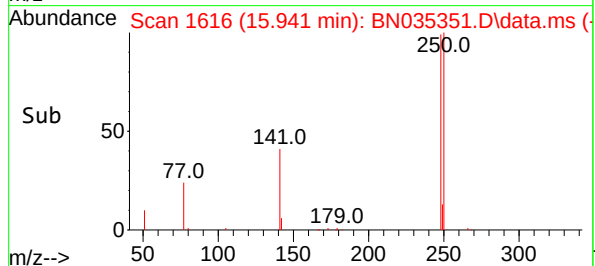
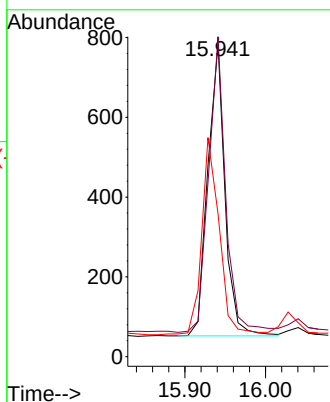
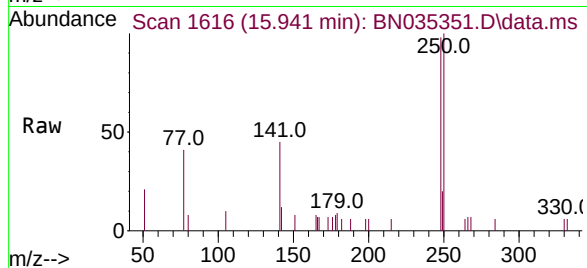
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 108
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3

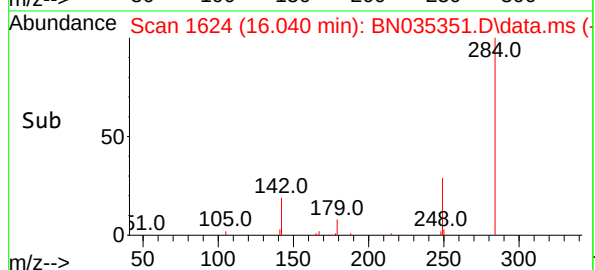
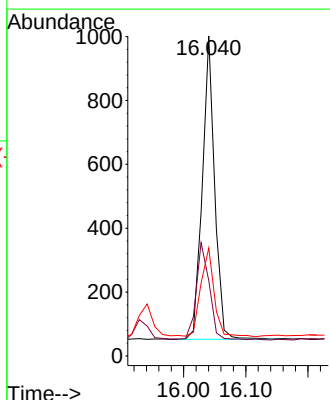
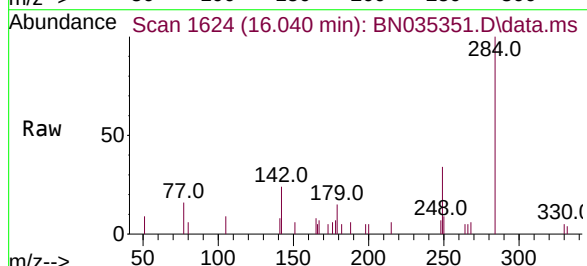
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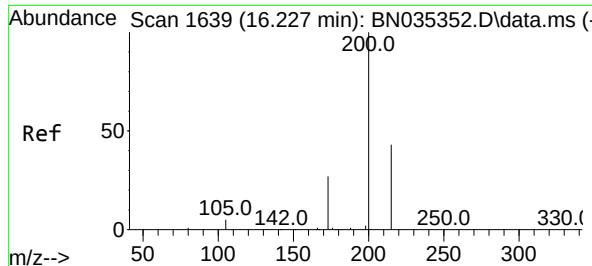
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

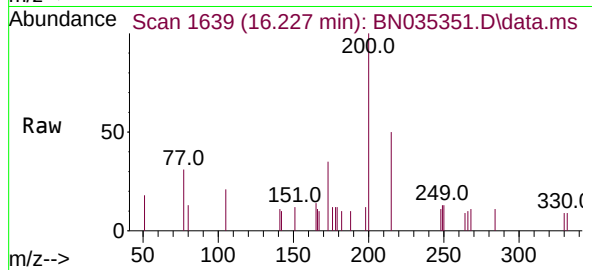
Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

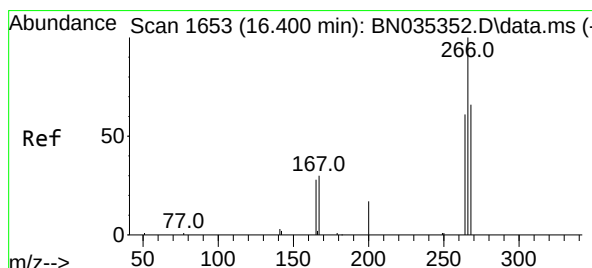
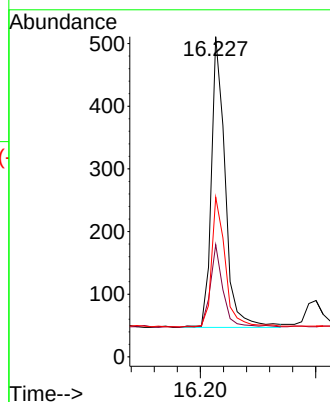
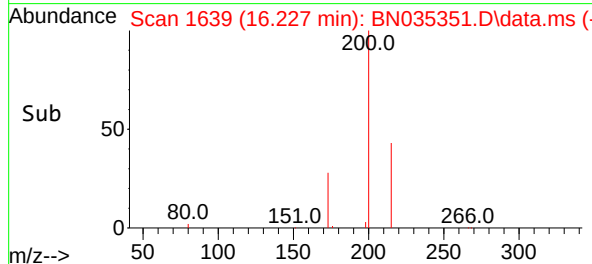
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 770
Ion Ratio Lower Upper
200 100
173 35.0 24.1 36.1
215 49.9 36.9 55.3

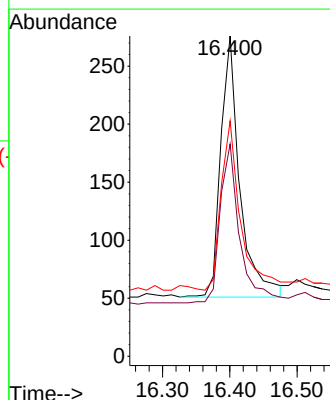
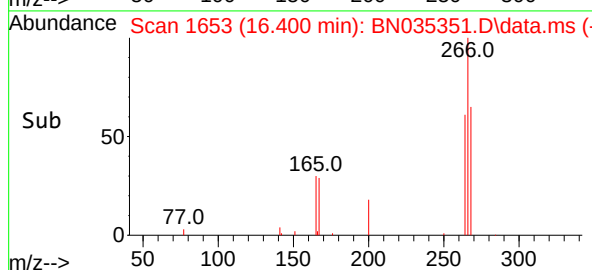
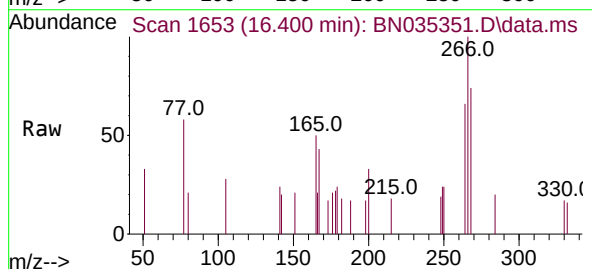
Manual Integrations
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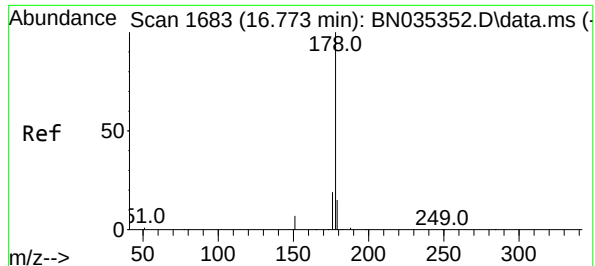
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445
Ion Ratio Lower Upper
266 100
264 62.7 42.3 63.5
268 67.2 43.3 64.9#





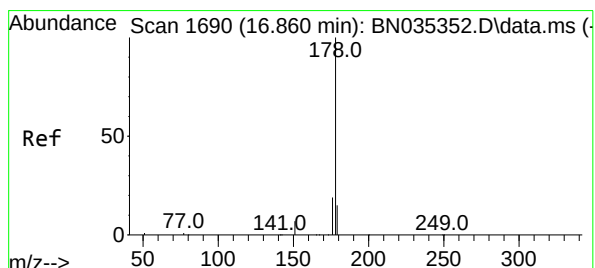
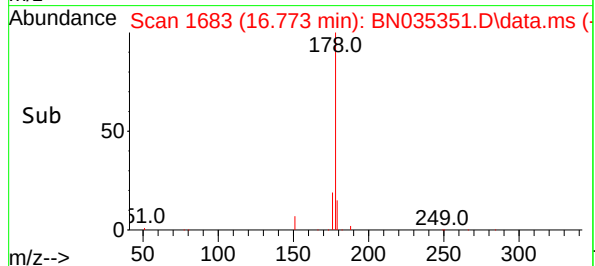
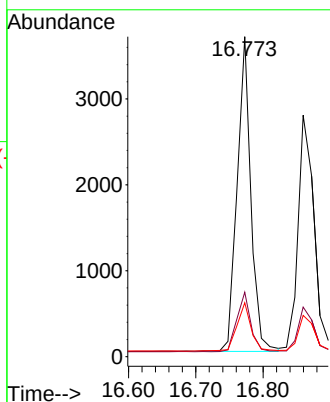
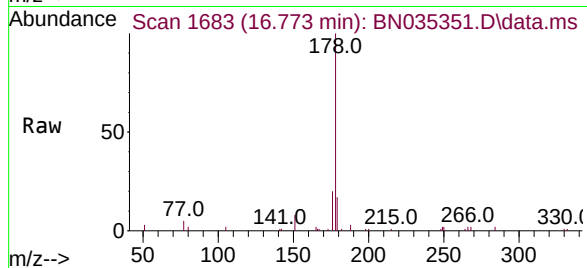
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 518
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5

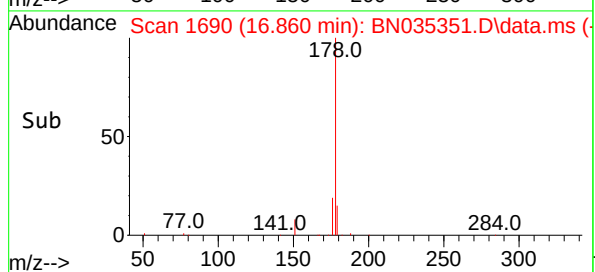
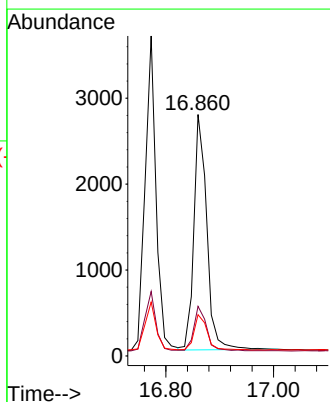
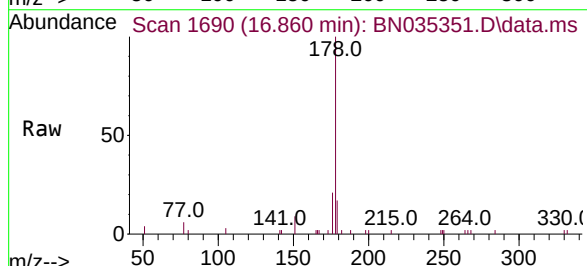
Manual Integrations
APPROVED

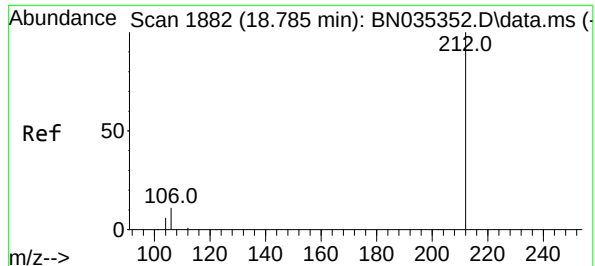
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.177 ng

RT: 18.784 min Scan# 1882

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

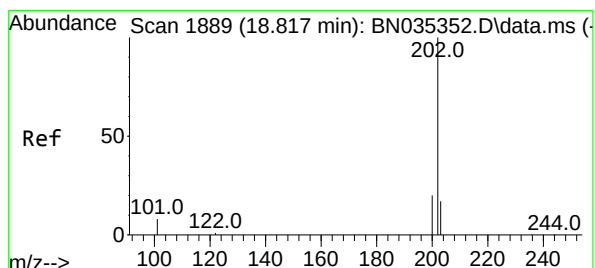
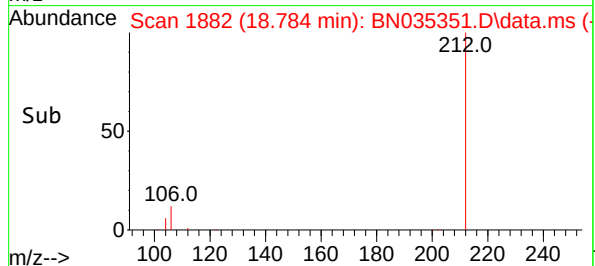
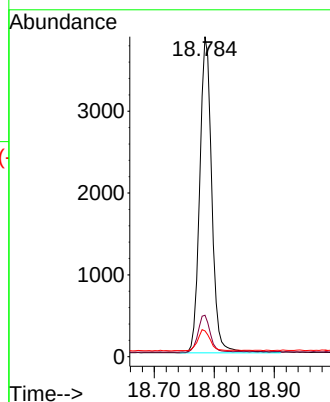
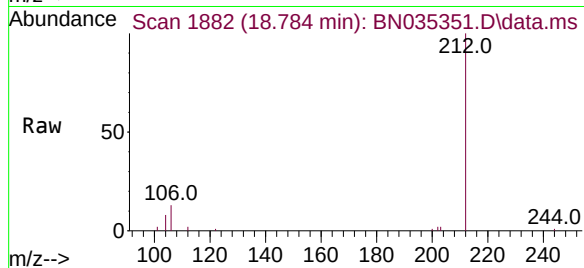
SSTDICC0.2

Tgt Ion:	212	Resp:	5379
Ion Ratio	Lower	Upper	
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.193 ng

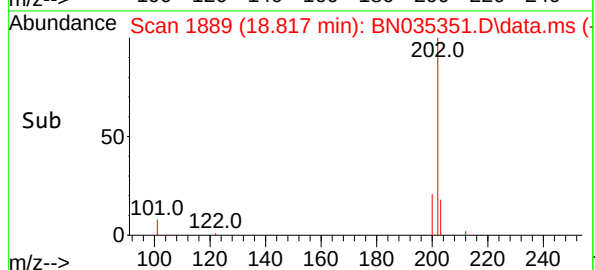
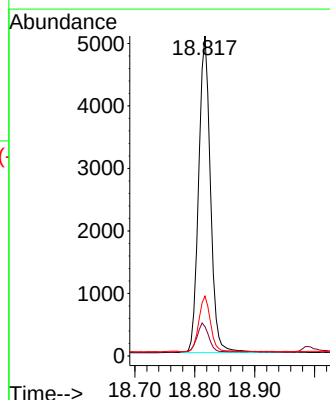
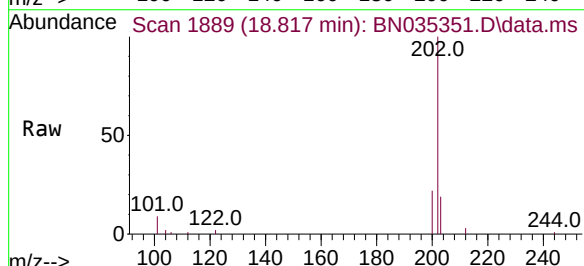
RT: 18.817 min Scan# 1889

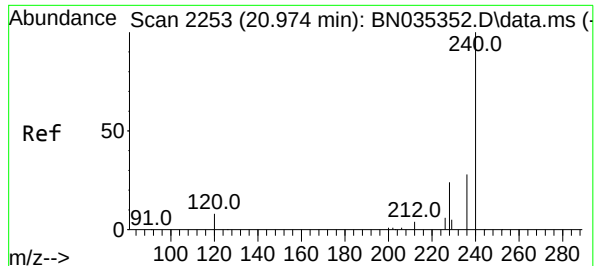
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion:	202	Resp:	6914
Ion Ratio	Lower	Upper	
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:240 Resp: 996

Ion Ratio Lower Upper

240 100

120 11.3 7.9 11.9

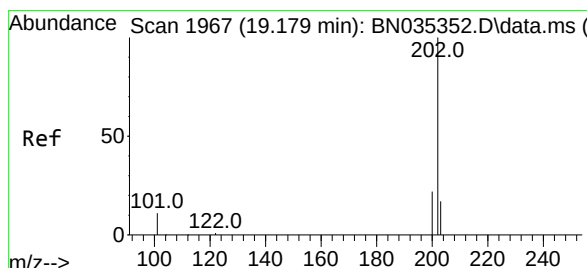
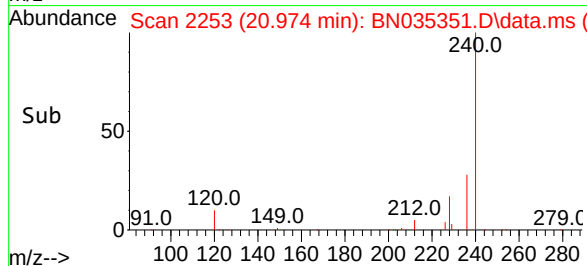
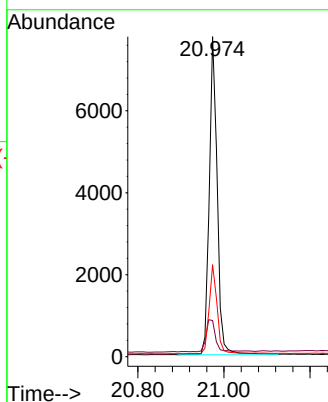
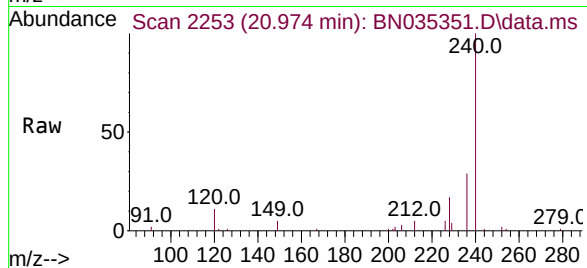
236 28.8 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.217 ng

RT: 19.184 min Scan# 1968

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

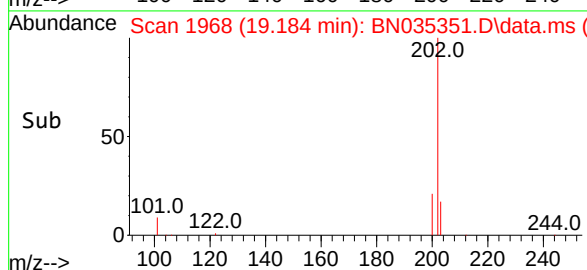
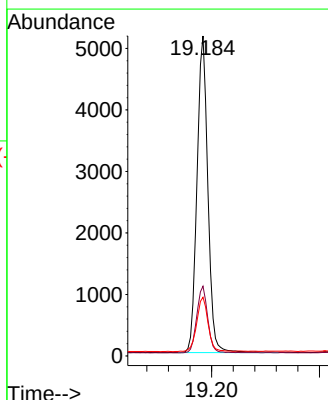
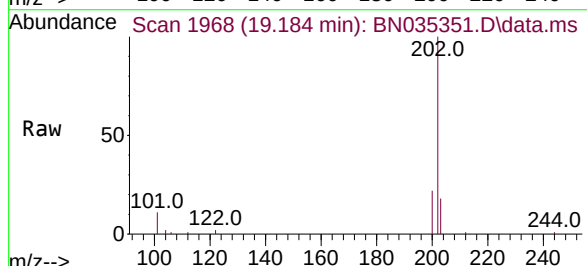
Tgt Ion:202 Resp: 7198

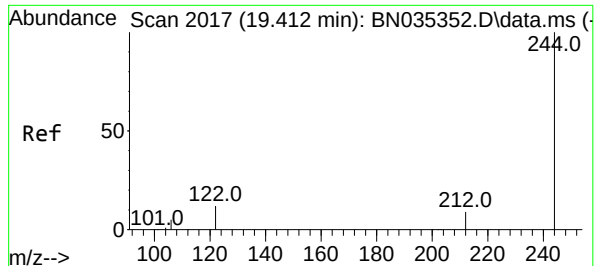
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 18.0 14.3 21.5





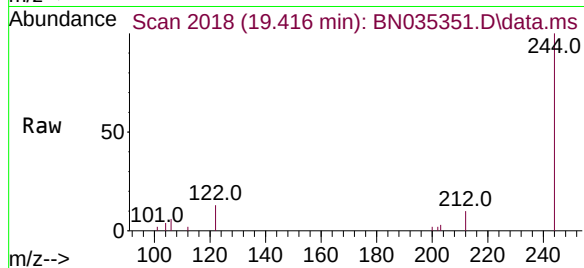
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2017
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

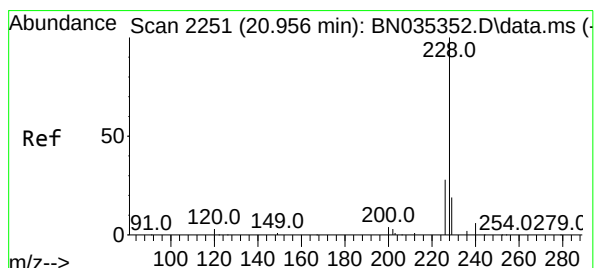
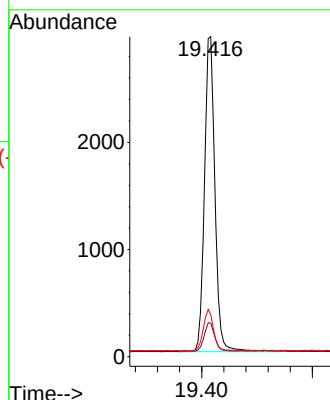
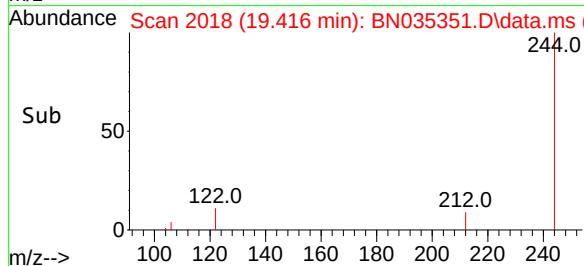


Tgt Ion:244 Resp: 387
Ion Ratio Lower Upper
244 100
212 10.5 8.1 12.1
122 13.1 10.3 15.5

Manual Integrations

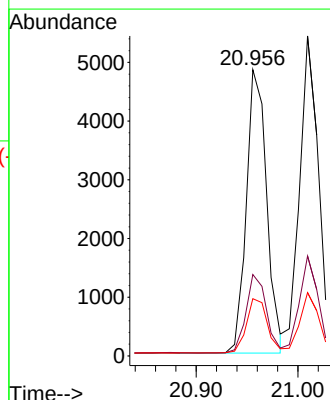
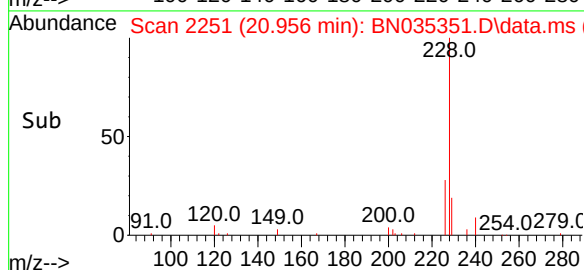
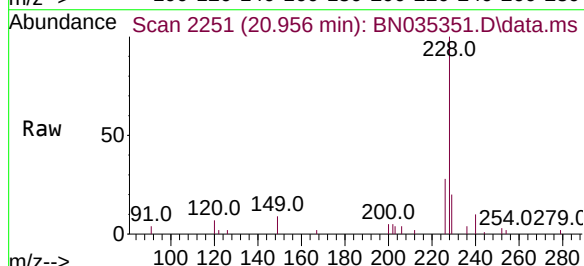
APPROVED

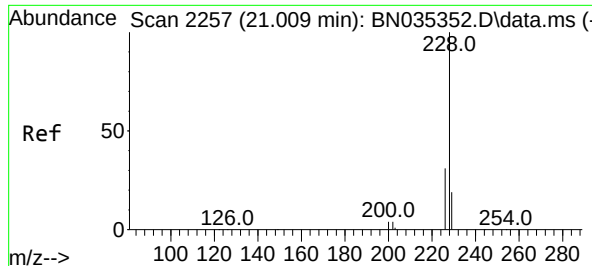
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691
Ion Ratio Lower Upper
228 100
226 28.4 22.5 33.7
229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

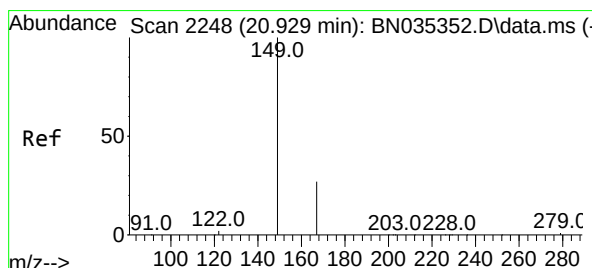
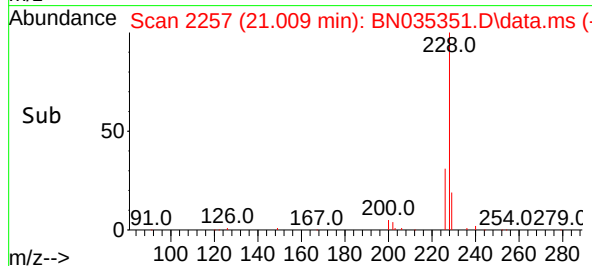
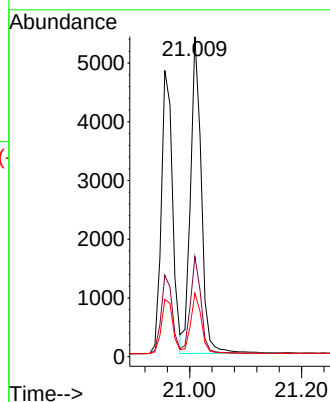
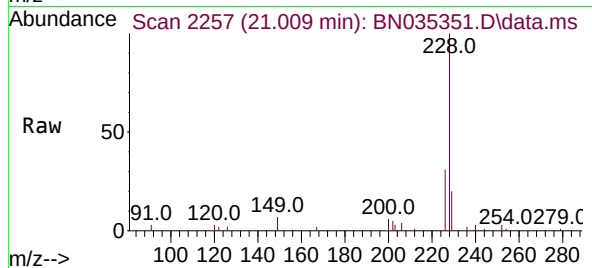
SSTDICC0.2

Tgt Ion:	228	Resp:	7234
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

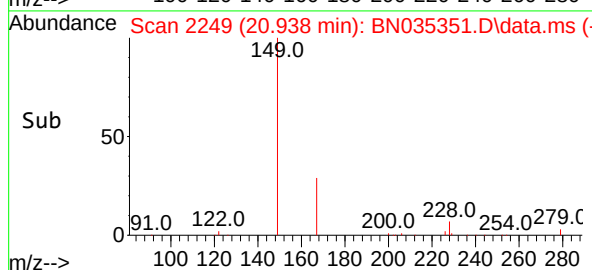
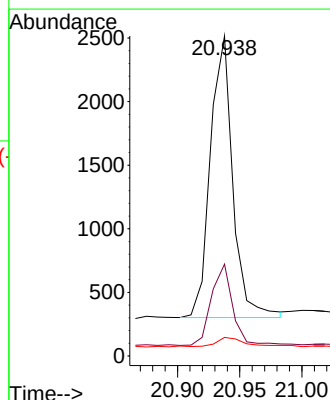
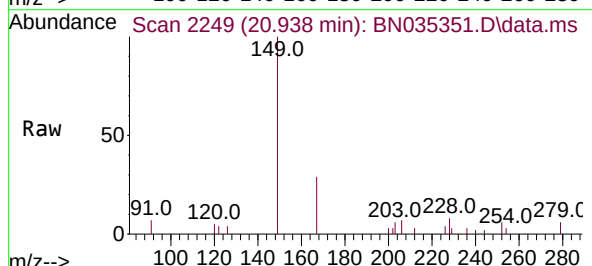
RT: 20.938 min Scan# 2249

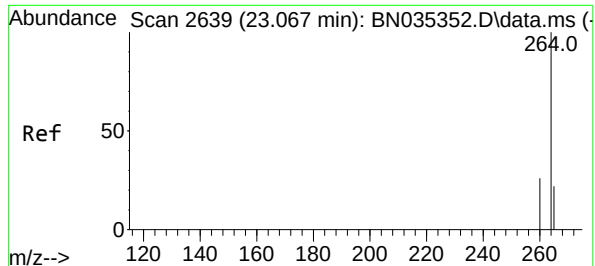
Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

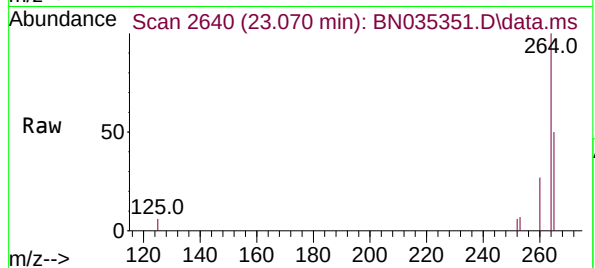
Tgt Ion:	149	Resp:	2779
Ion Ratio	Lower	Upper	
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

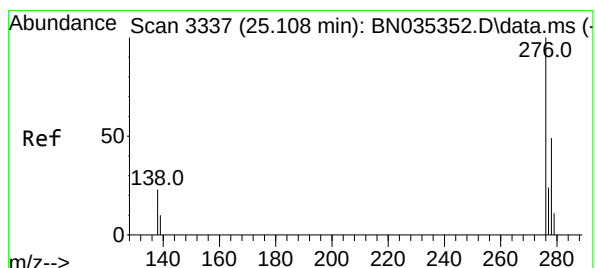
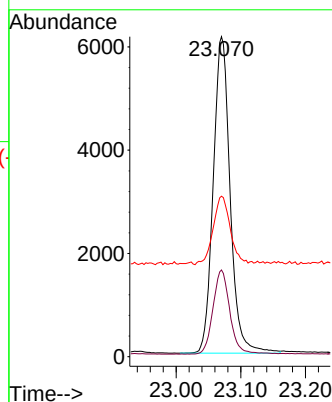
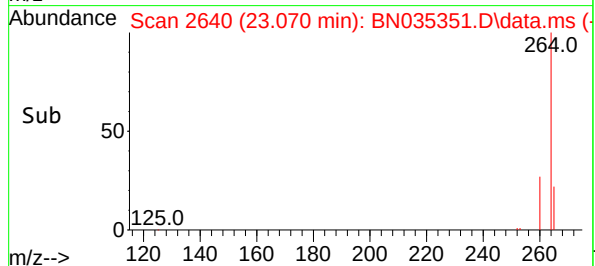
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:264 Resp: 11158
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 50.2 40.2 60.4

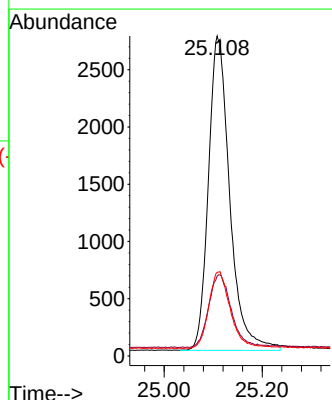
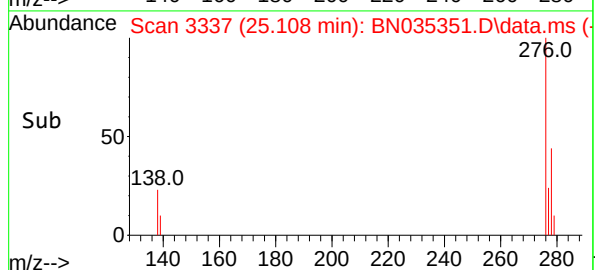
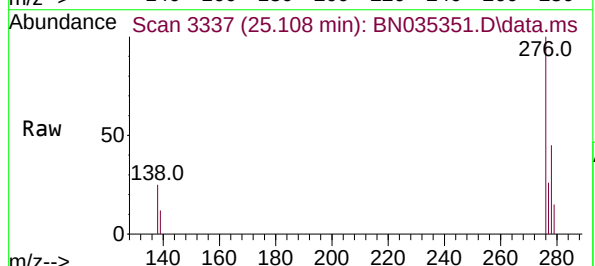
Manual Integrations
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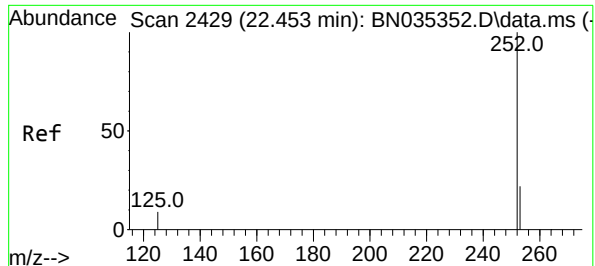
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305
Ion Ratio Lower Upper
276 100
138 24.3 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.200 ng

RT: 22.456 min Scan# 2429

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

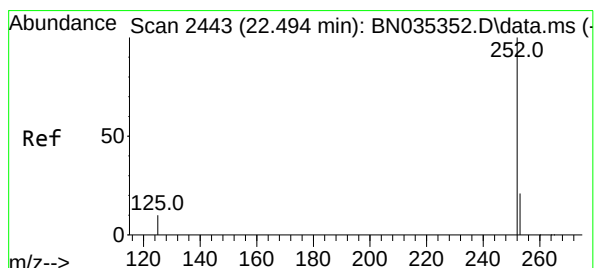
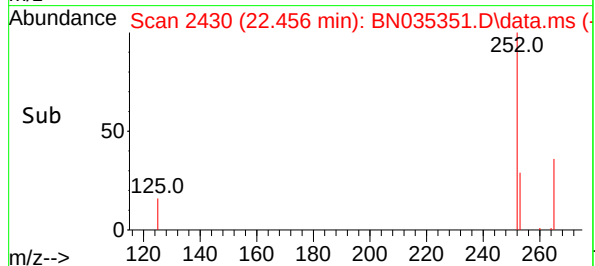
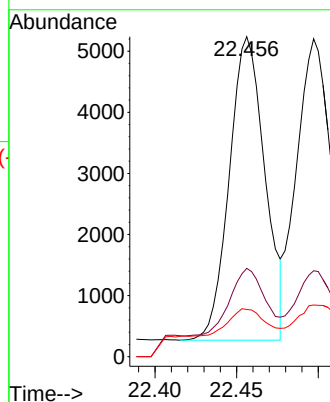
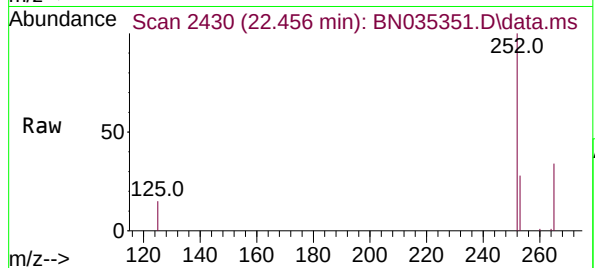
SSTDICC0.2

Tgt Ion:252	Resp:	752
Ion Ratio	Lower	Upper
252	100	
253	27.6	19.6 29.4
125	14.8	9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.204 ng m

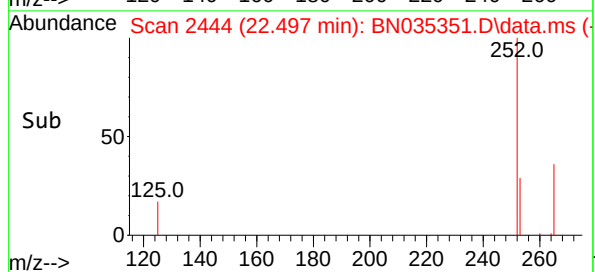
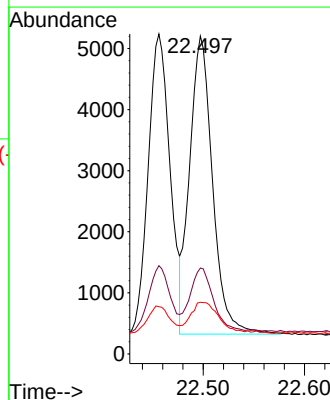
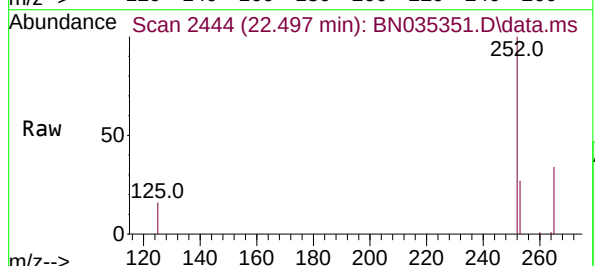
RT: 22.497 min Scan# 2444

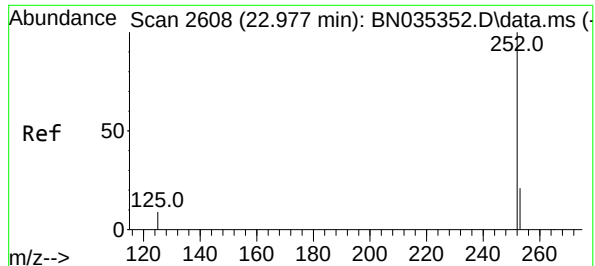
Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion:252	Resp:	7675
Ion Ratio	Lower	Upper
252	100	
253	27.0	19.5 29.3
125	16.2	10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

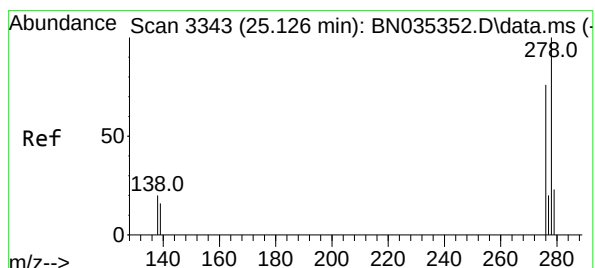
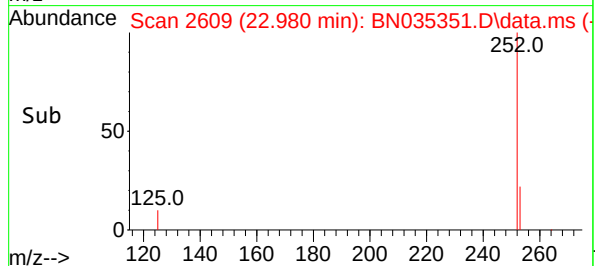
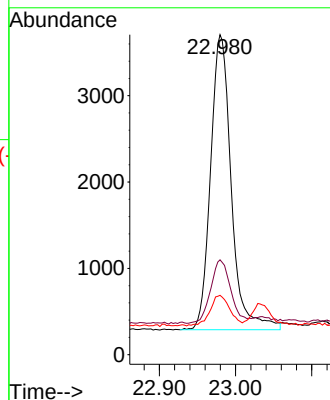
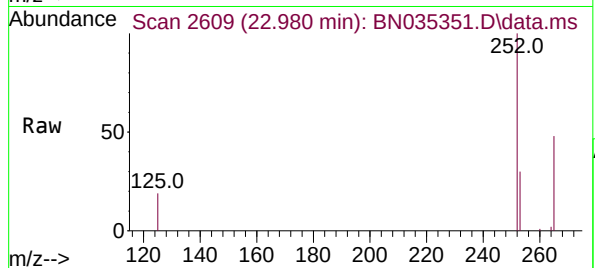
Tgt Ion:	252	Resp:	6450
Ion Ratio	Lower	Upper	
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

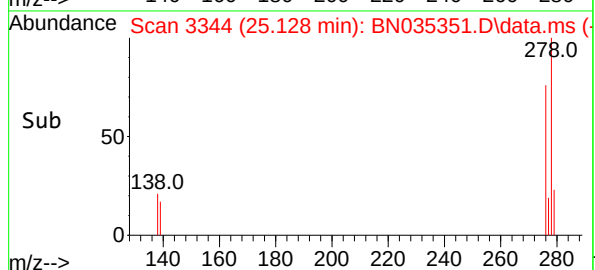
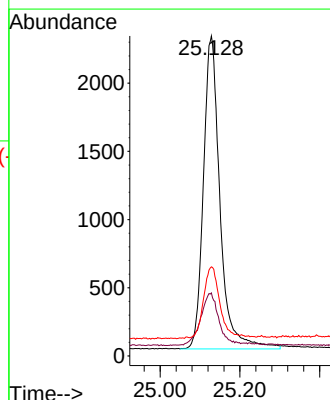
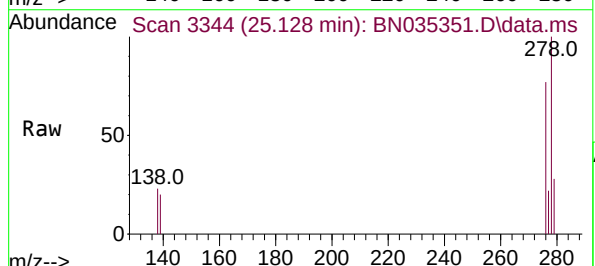
RT: 25.128 min Scan# 3344

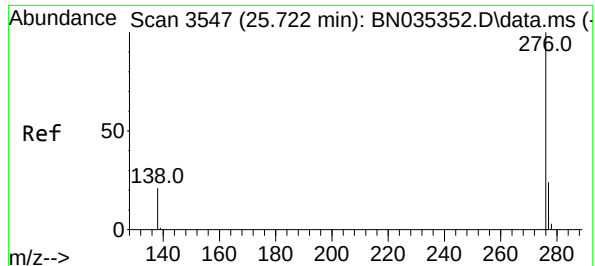
Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion:	278	Resp:	6620
Ion Ratio	Lower	Upper	
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035351.D

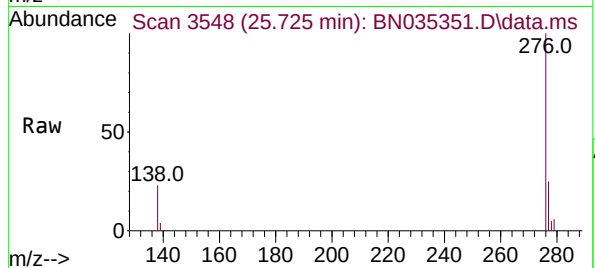
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

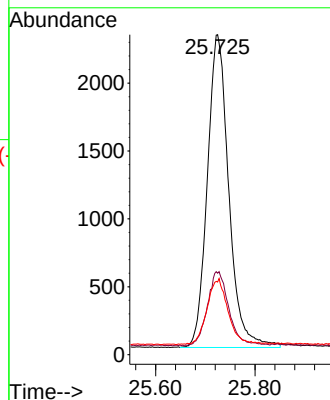
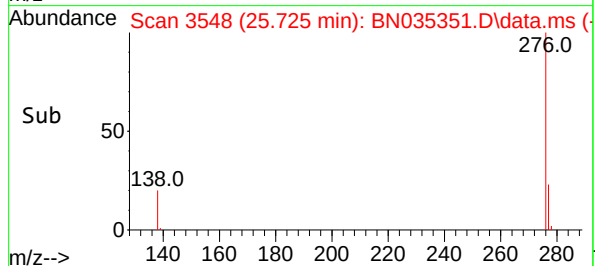
138 22.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035352.D
 Acq On : 27 Nov 2024 16:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng	0.00
35) Perylene-d12	23.067	264	10842	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2085	0.401	ng	0.00
5) Phenol-d6	6.513	99	2444	0.375	ng	0.00
8) Nitrobenzene-d5	8.440	82	1228m	0.270	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng	0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng	0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng	100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng	100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng	100
9) Naphthalene	10.105	128	5475	0.401	ng	100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng	100
16) Acenaphthylene	13.679	152	6058	0.373	ng	100
17) Acenaphthene	14.031	154	4125	0.388	ng	100
18) Fluorene	15.026	166	5863	0.375	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng	100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng	100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng	100
23) Atrazine	16.227	200	1461	0.269	ng	100
24) Pentachlorophenol	16.400	266	906	0.309	ng	87
25) Phenanthrene	16.773	178	10127	0.405	ng	100
26) Anthracene	16.860	178	8921	0.389	ng	100
28) Fluoranthene	18.817	202	13438	0.391	ng	100
30) Pyrene	19.179	202	14053	0.443	ng	100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng	100
33) Chrysene	21.009	228	13729	0.418	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng	100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng	100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng	100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng	100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng	100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng	100

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

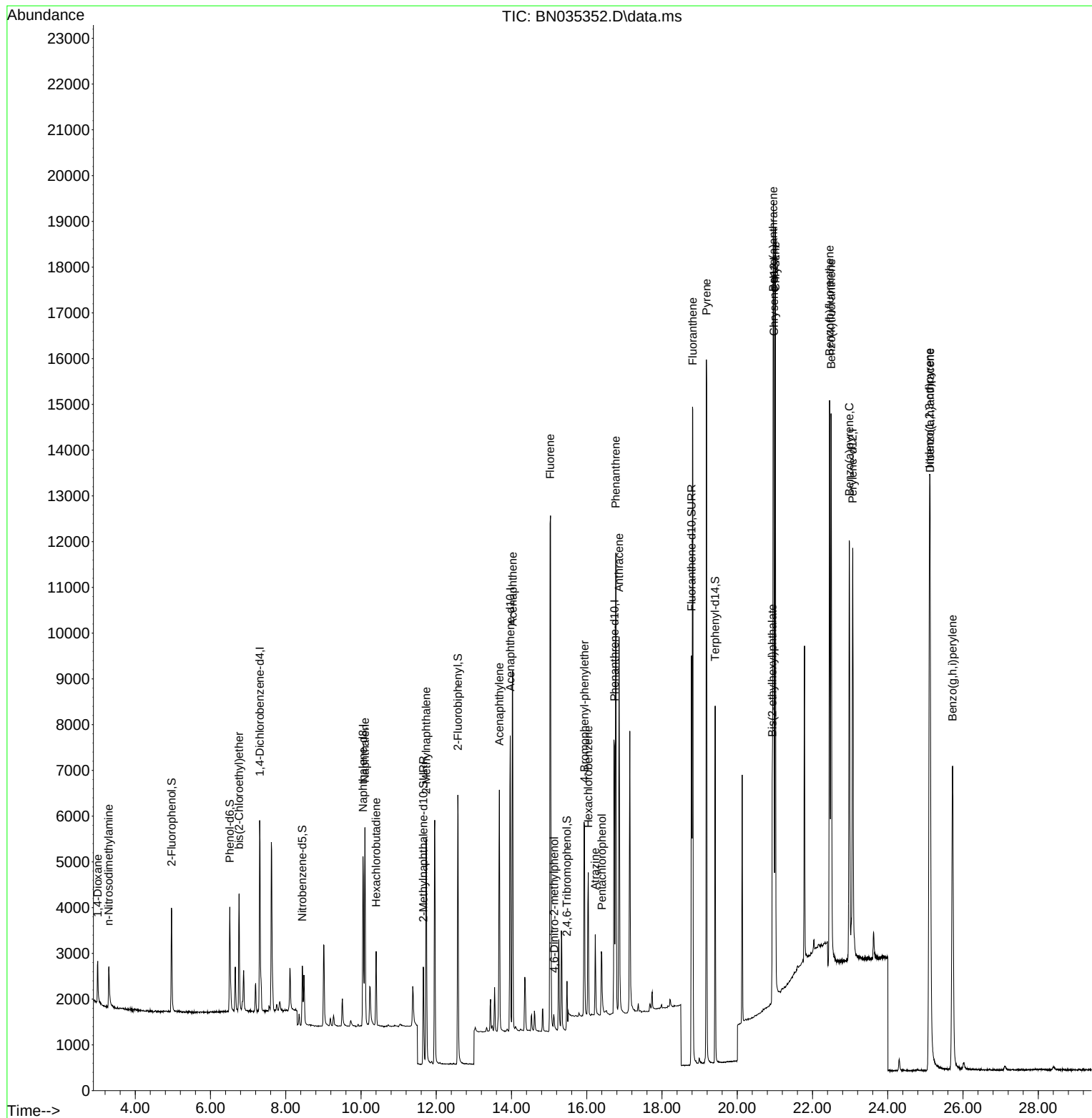
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 Data File : BN035352.D
 Acq On : 27 Nov 2024 16:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

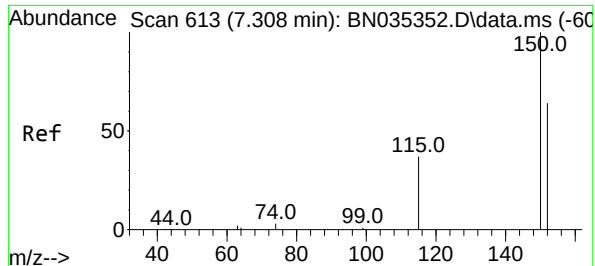
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 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024

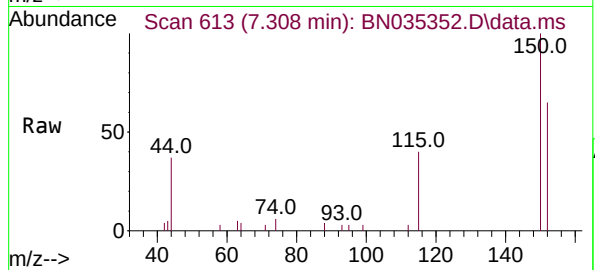
Quant Time: Nov 27 22:52:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

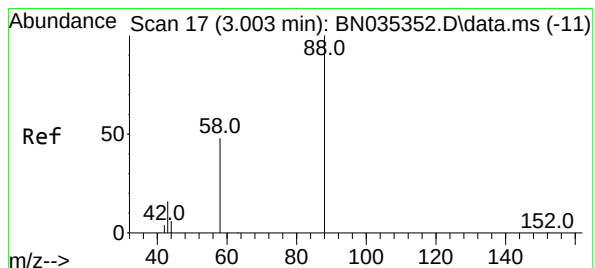
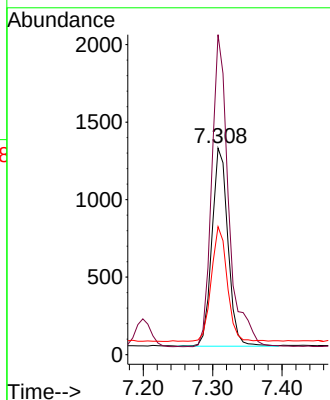
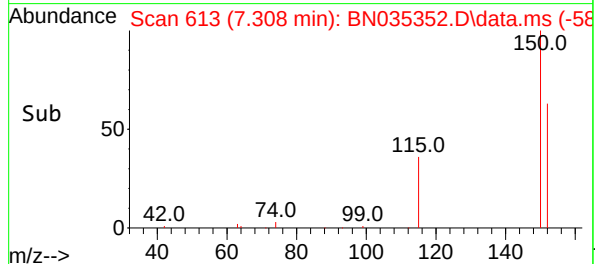
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4

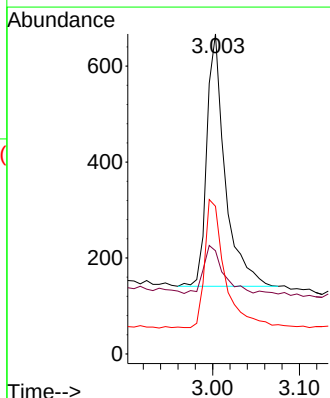
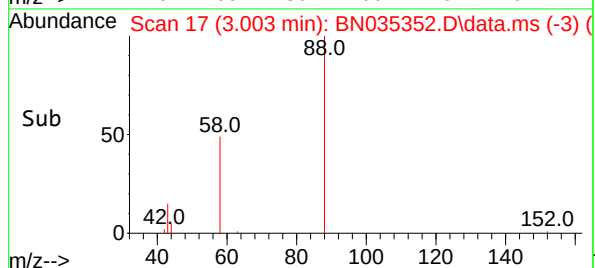
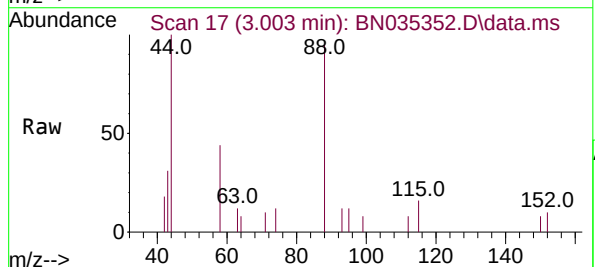
Manual Integrations
APPROVED

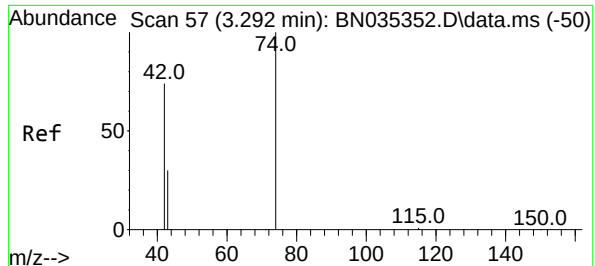
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

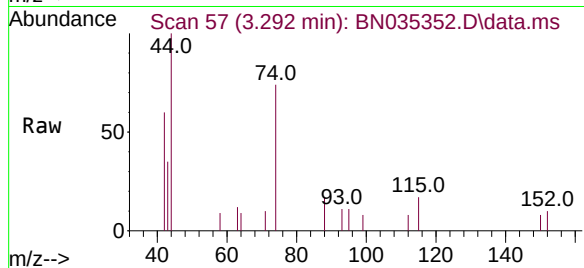
Tgt Ion: 88 Resp: 771
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 55.6 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

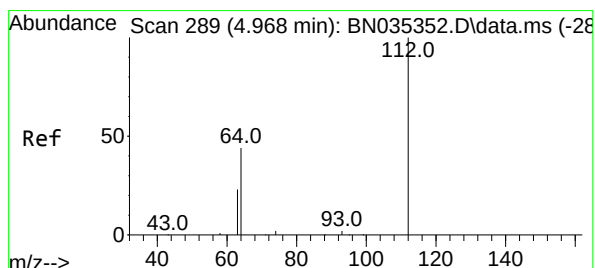
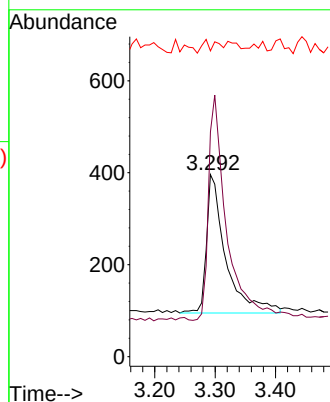
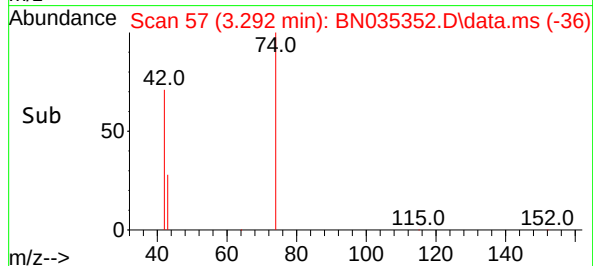
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4

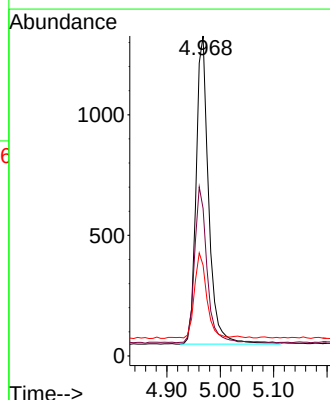
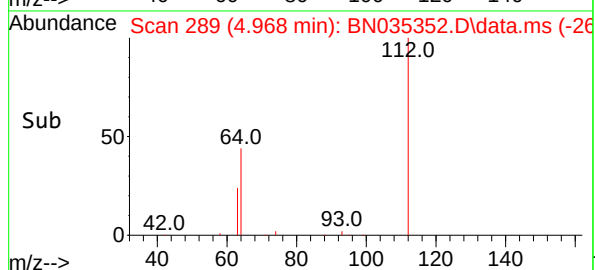
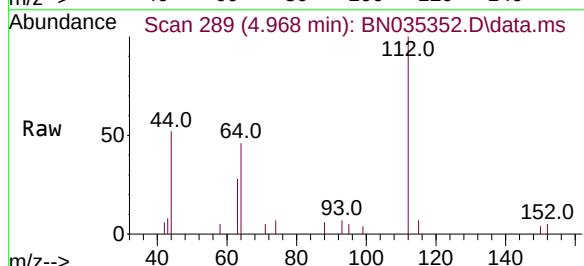
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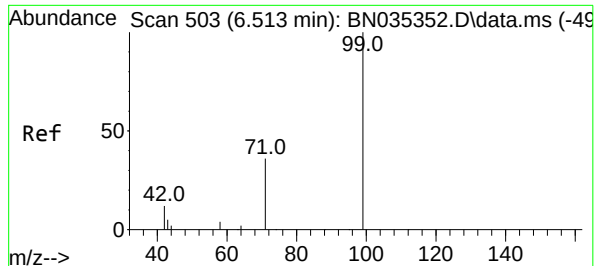
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

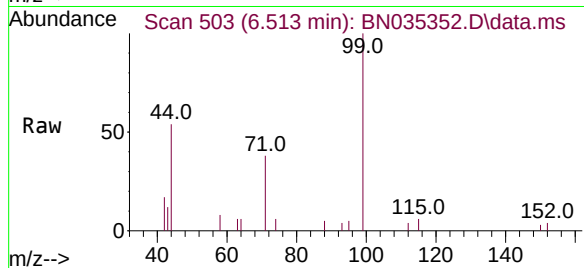
Tgt Ion:112 Resp: 2085
Ion Ratio Lower Upper
112 100
64 49.8 39.8 59.8
63 26.3 21.0 31.6





#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

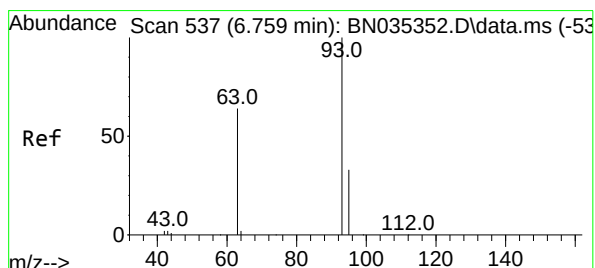
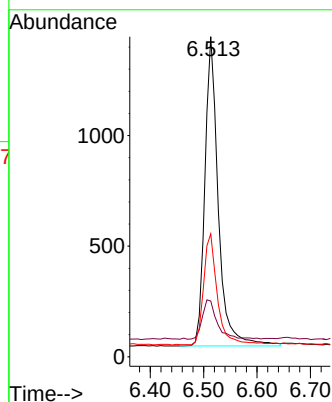
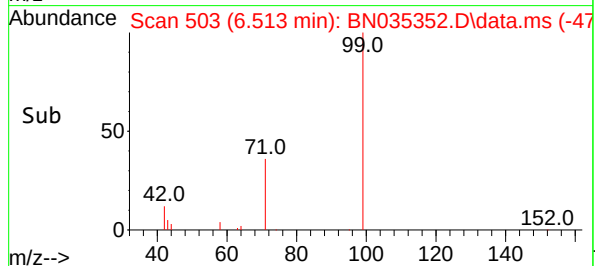
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 99 Resp: 244
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9

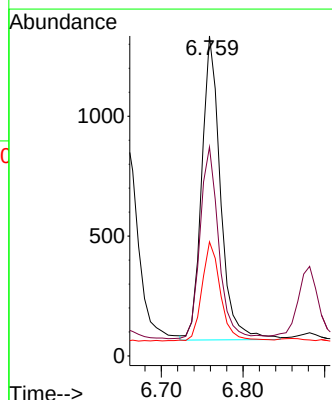
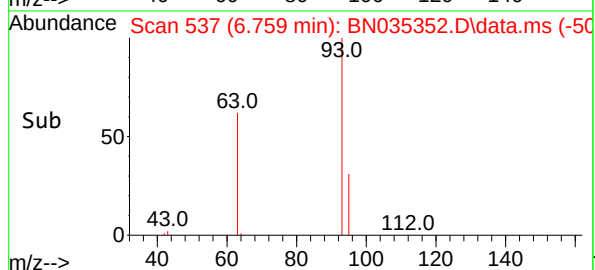
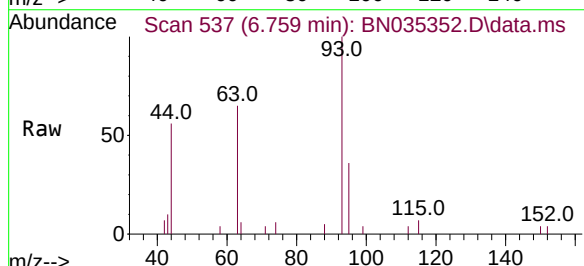
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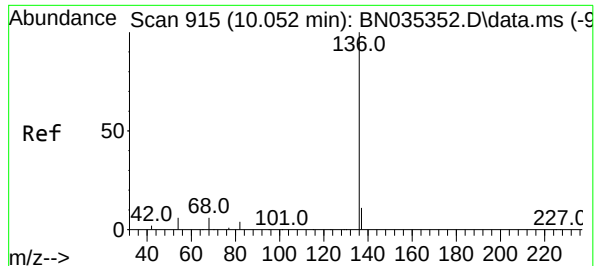
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

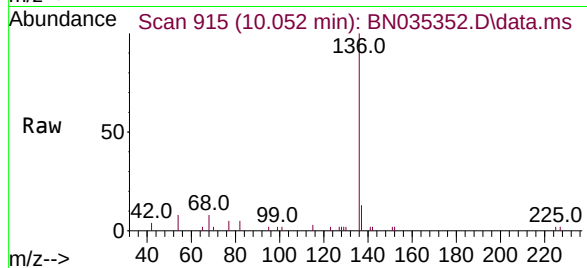
Tgt Ion: 93 Resp: 2032
Ion Ratio Lower Upper
93 100
63 63.0 50.4 75.6
95 32.1 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

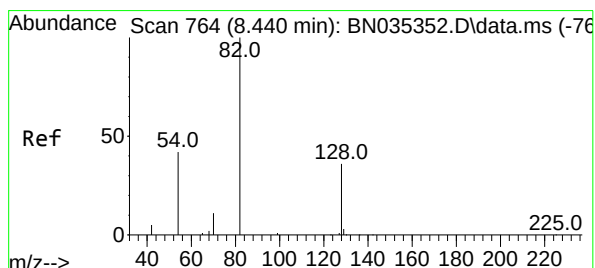
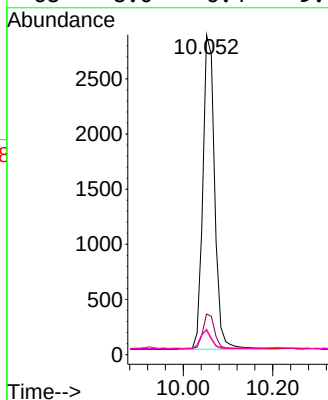
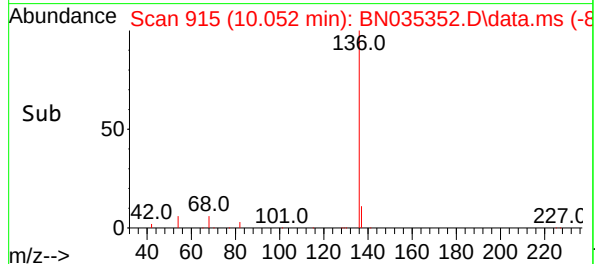
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:136 Resp: 5229
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 7.6 6.1 9.1
68 8.0 6.4 9.6

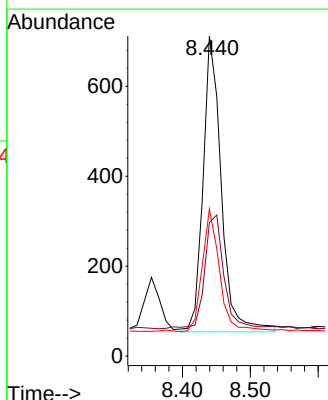
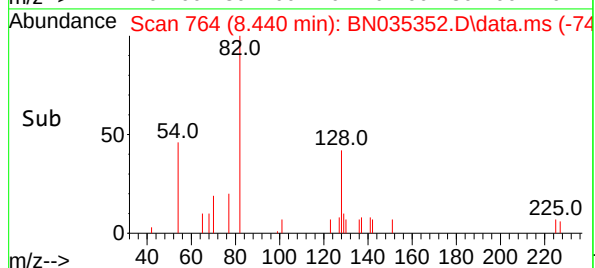
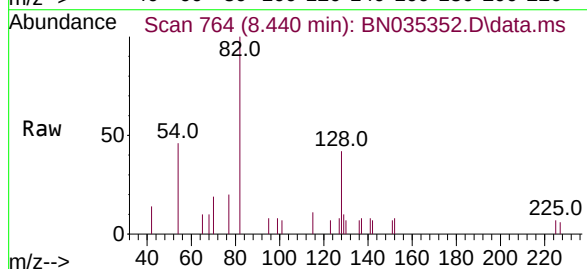
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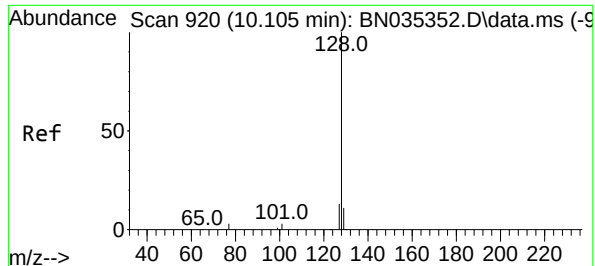
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228
Ion Ratio Lower Upper
82 100
128 41.7 33.4 50.0
54 45.9 36.7 55.1





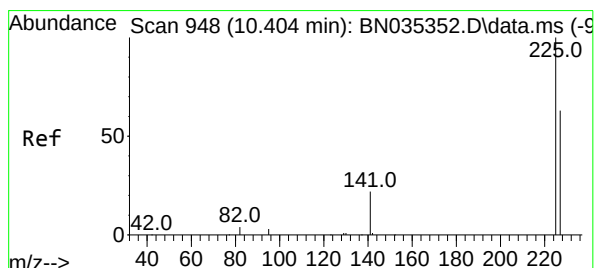
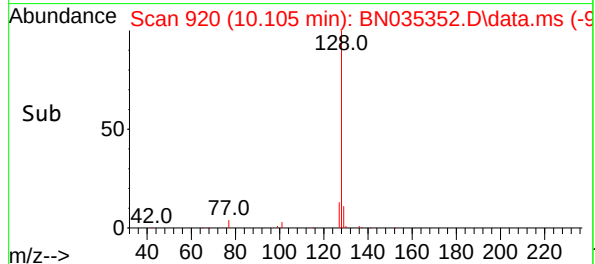
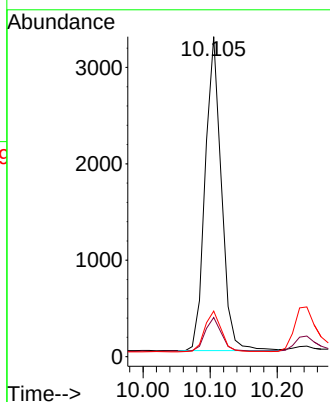
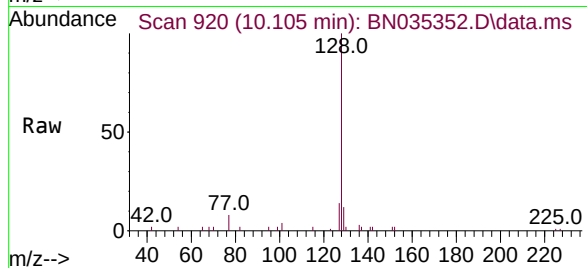
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 547
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2

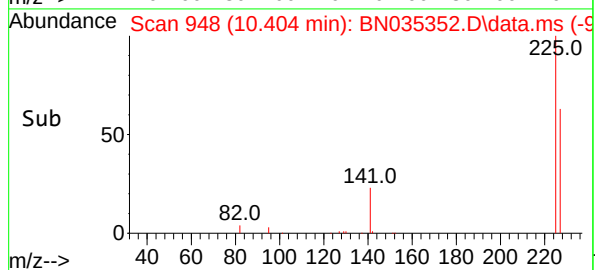
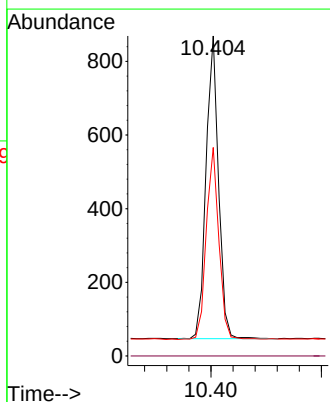
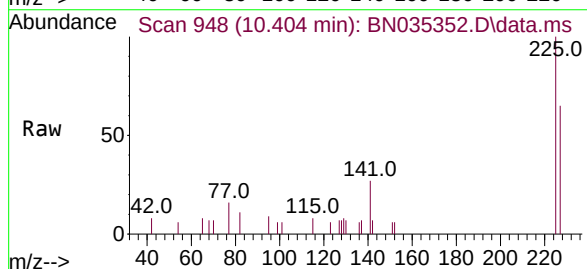
Manual Integrations
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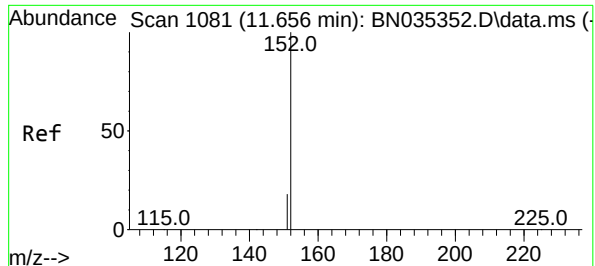
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





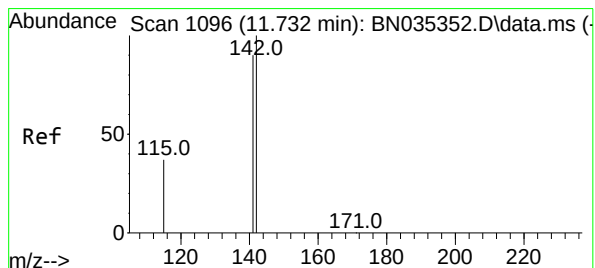
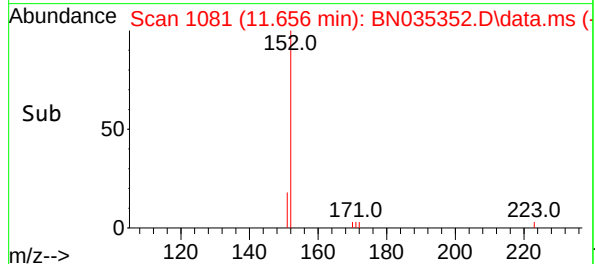
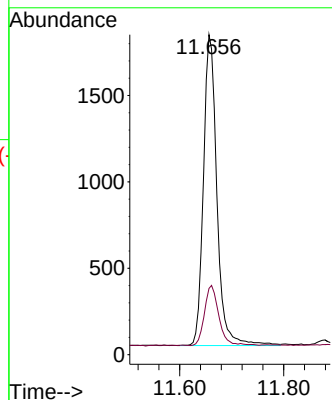
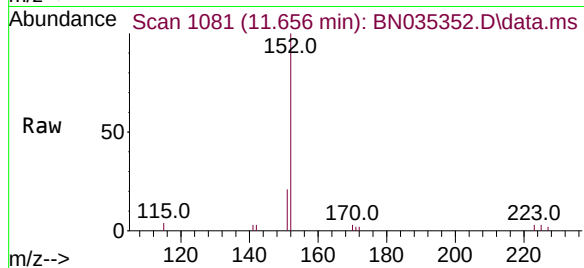
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 323
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

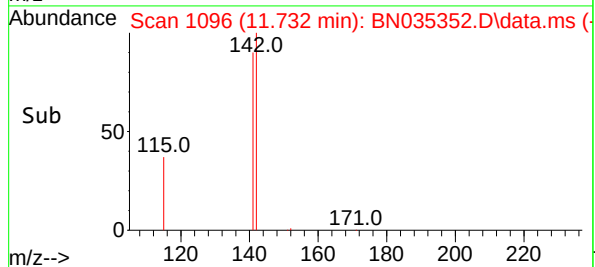
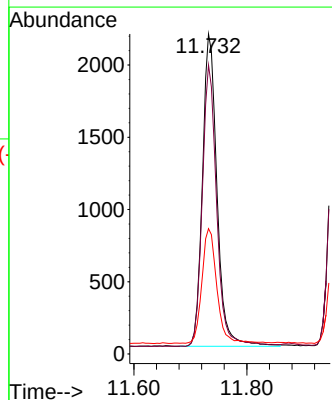
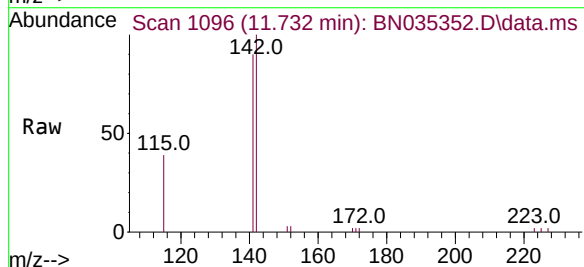
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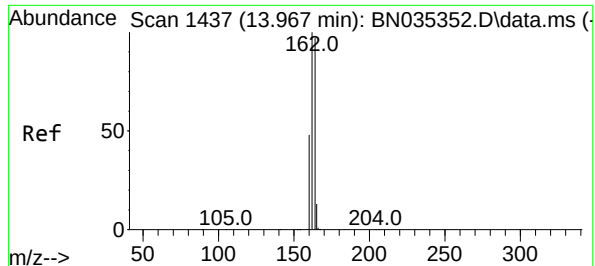
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

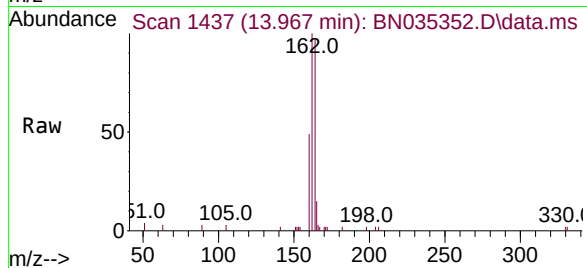
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

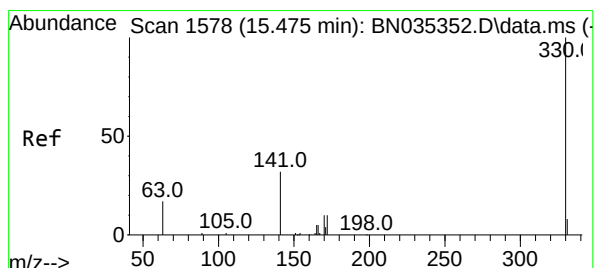
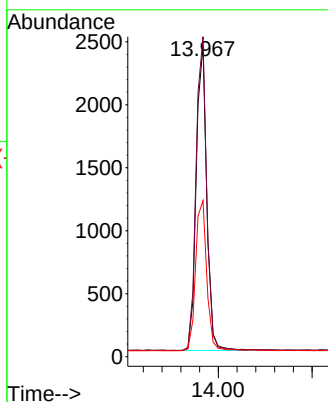
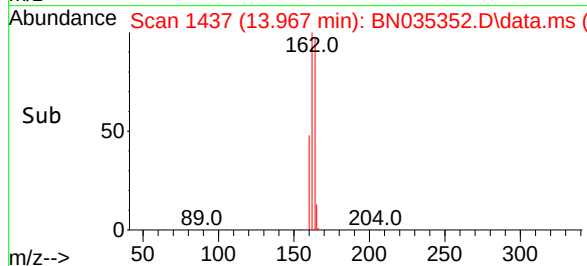
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:164 Resp: 3799
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 50.1 40.1 60.1

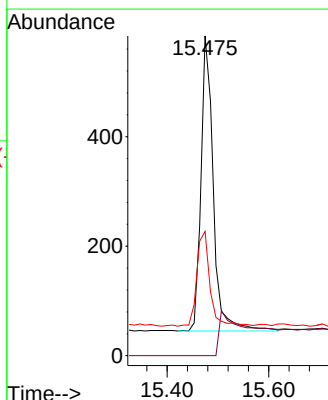
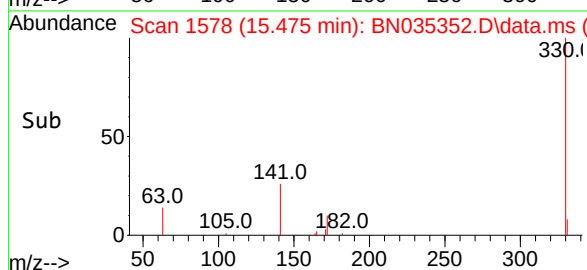
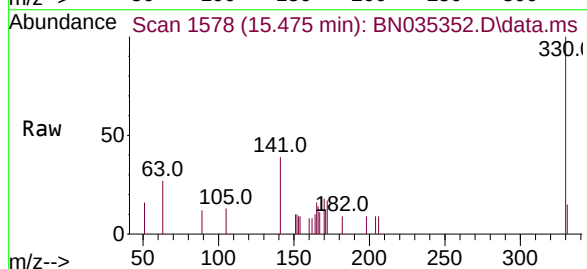
Manual Integrations
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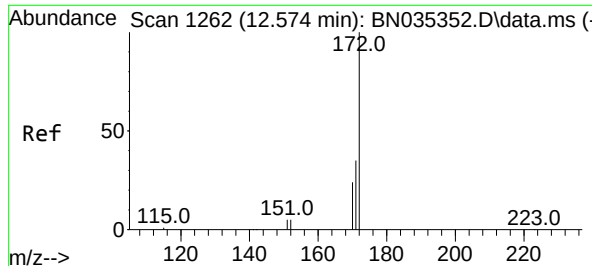
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.372 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:172 Resp: 573

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

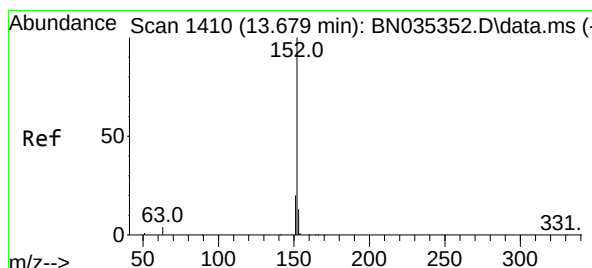
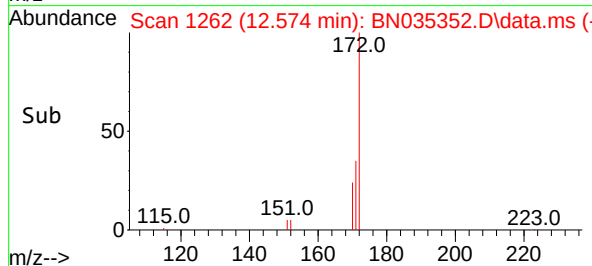
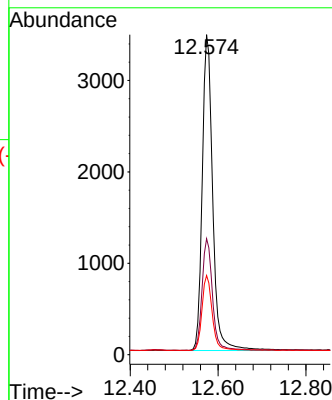
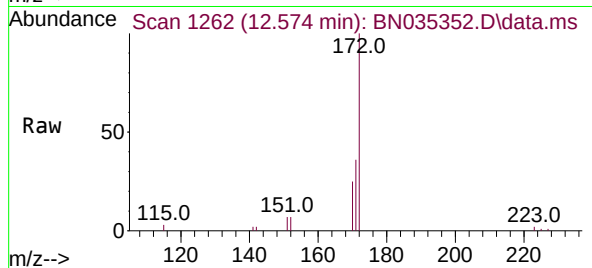
170 24.8 19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.373 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

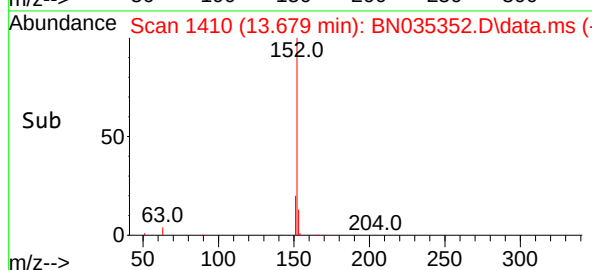
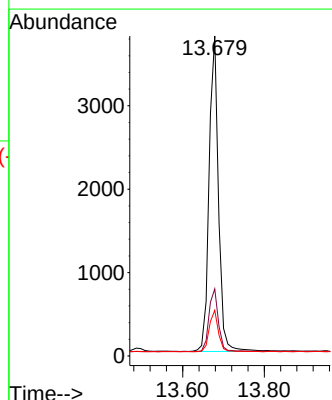
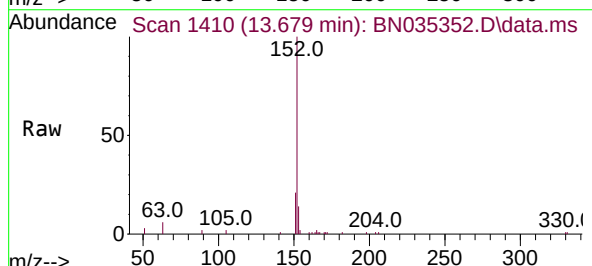
Tgt Ion:152 Resp: 6058

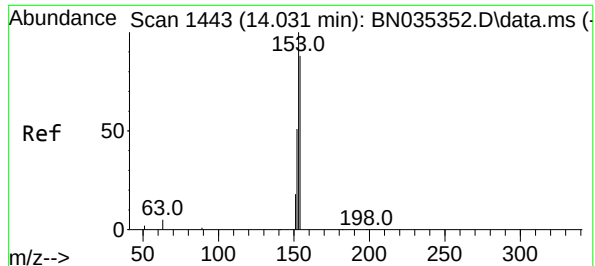
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

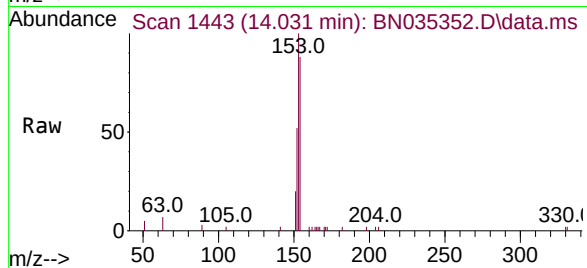
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

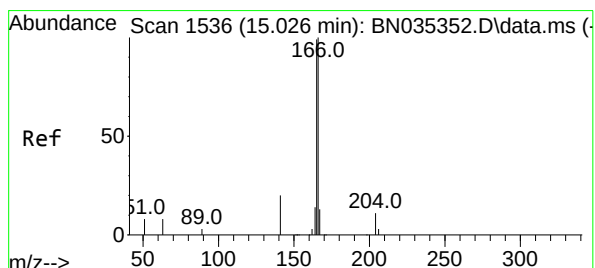
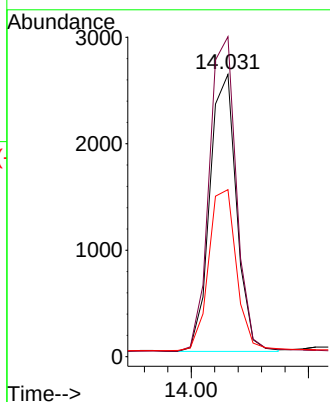
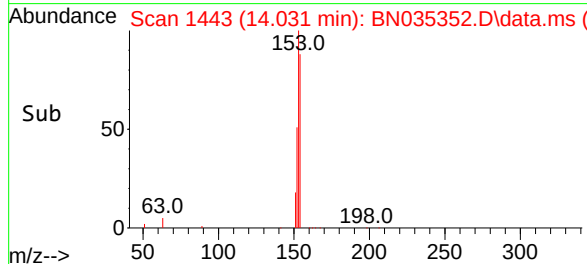
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:154 Resp: 4125
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 61.3 49.0 73.6

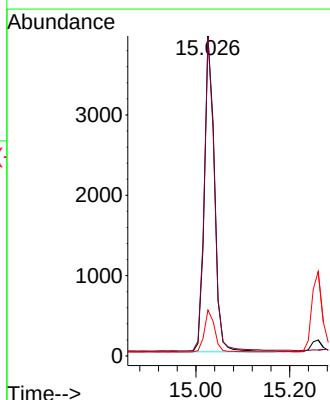
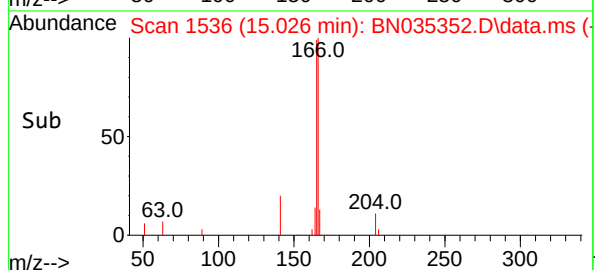
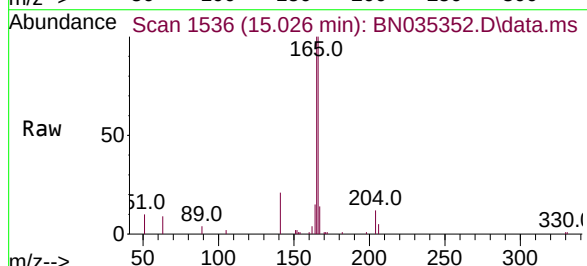
Manual Integrations
APPROVED

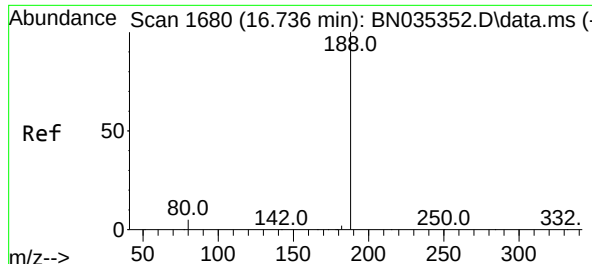
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863
Ion Ratio Lower Upper
166 100
165 99.6 79.7 119.5
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1680

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

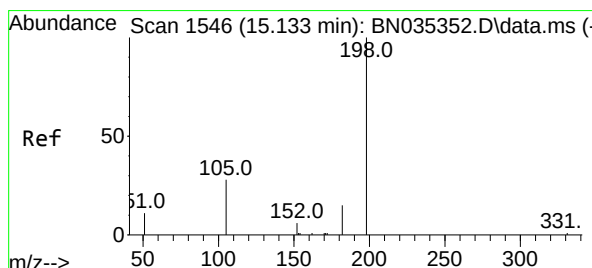
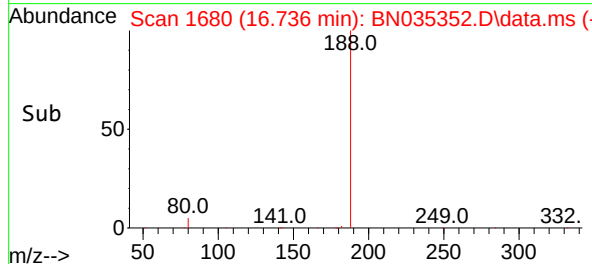
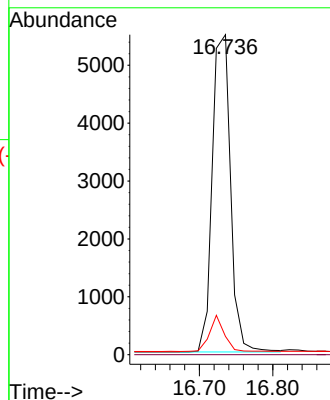
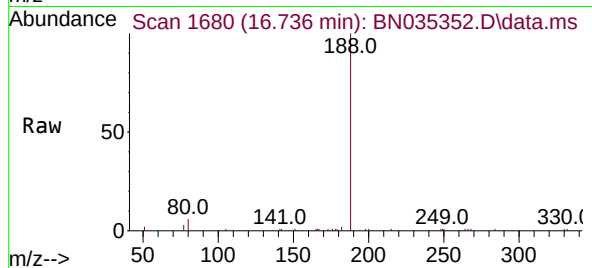
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

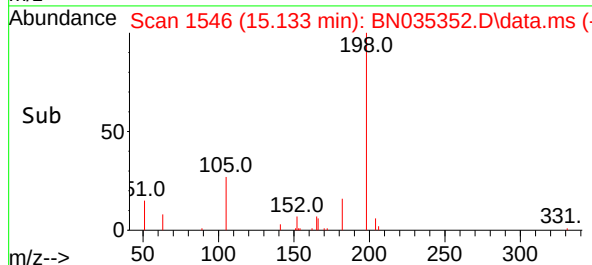
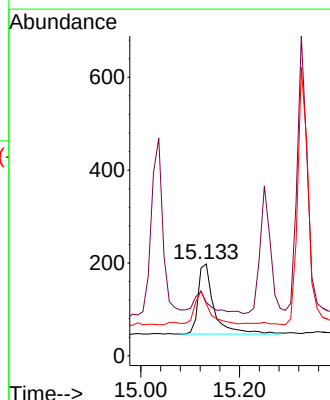
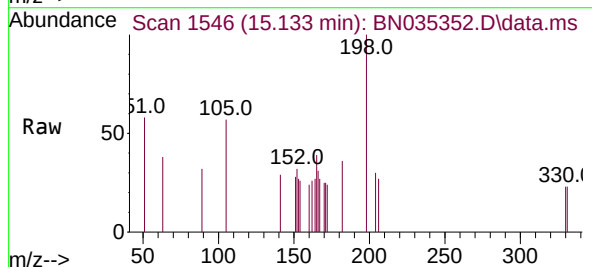
RT: 15.133 min Scan# 1546

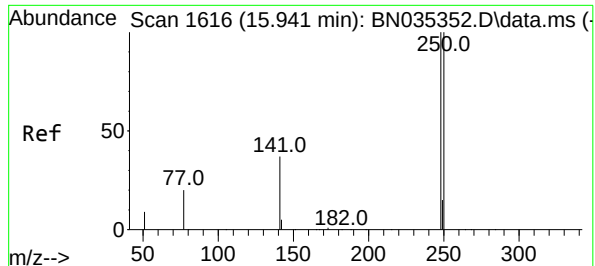
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

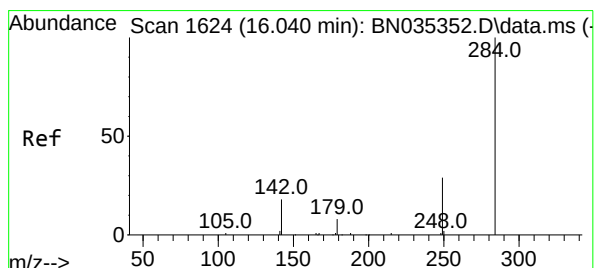
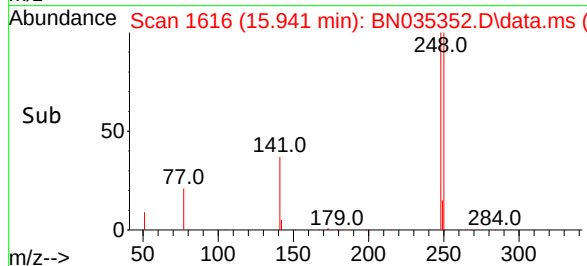
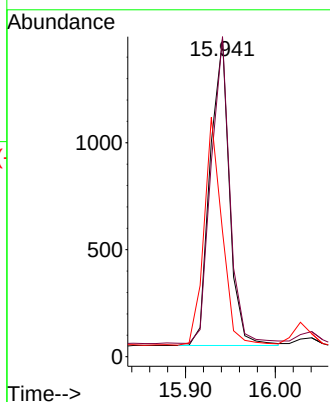
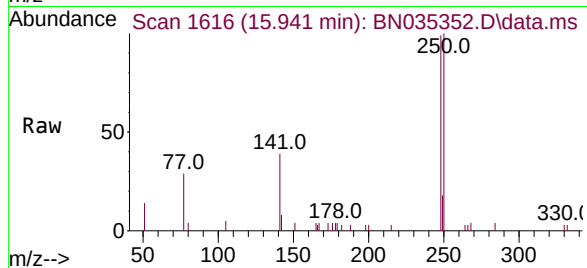
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

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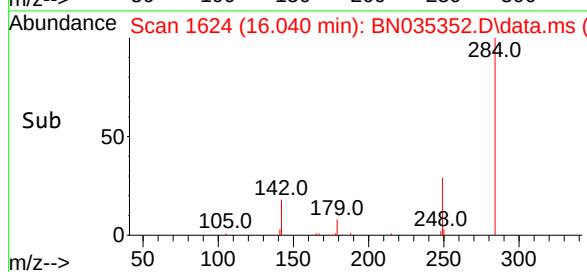
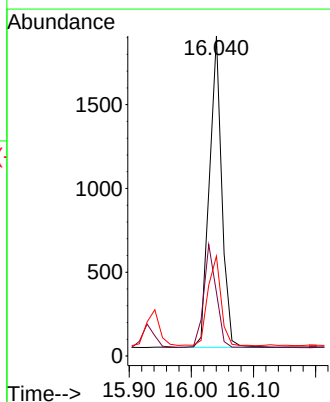
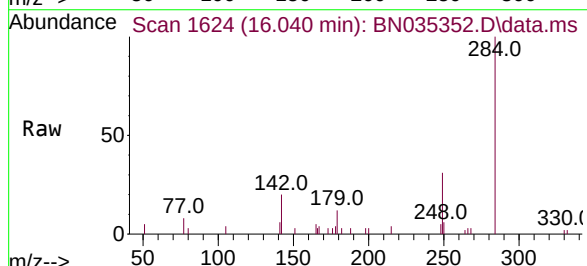
APPROVED

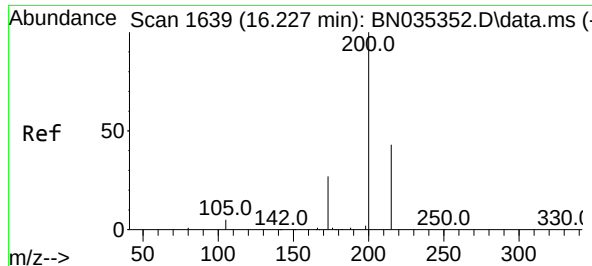
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

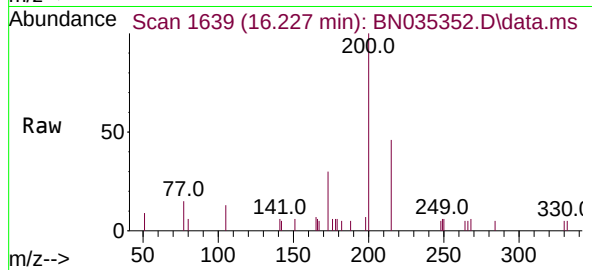
Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8





#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

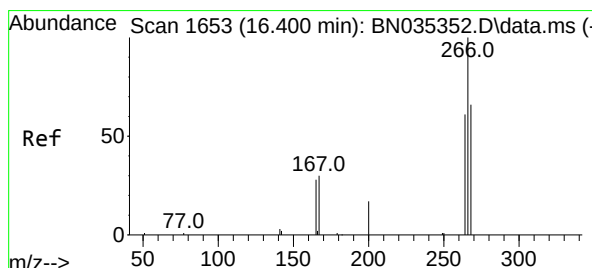
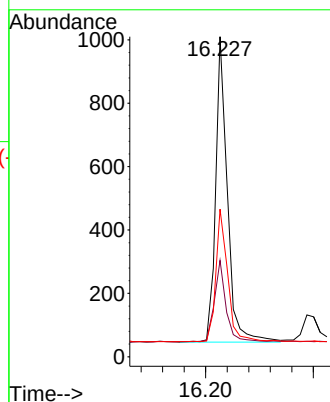
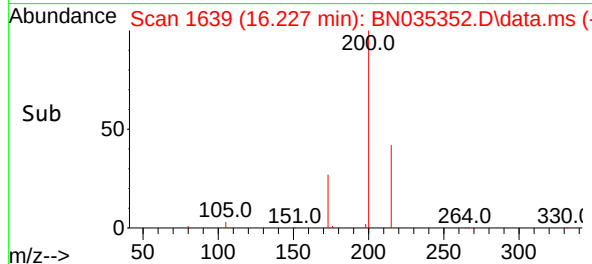
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:200 Resp: 146
Ion Ratio Lower Upper
200 100
173 30.1 24.1 36.1
215 46.1 36.9 55.3

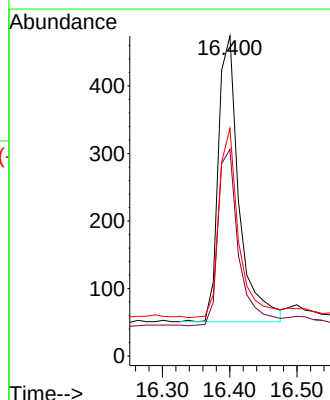
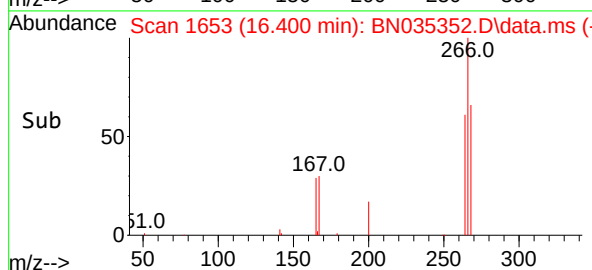
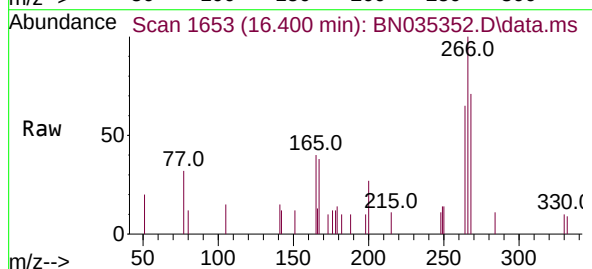
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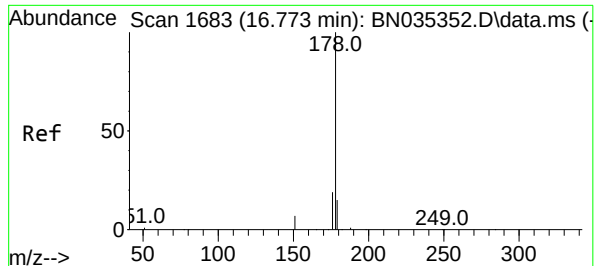
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906
Ion Ratio Lower Upper
266 100
264 62.4 42.3 63.5
268 63.8 43.3 64.9





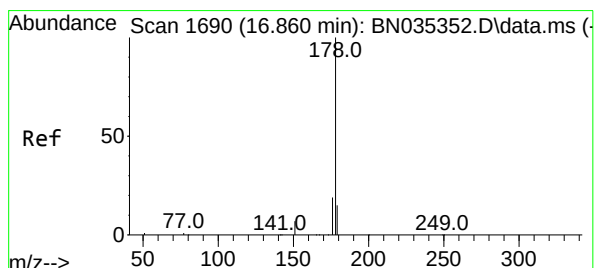
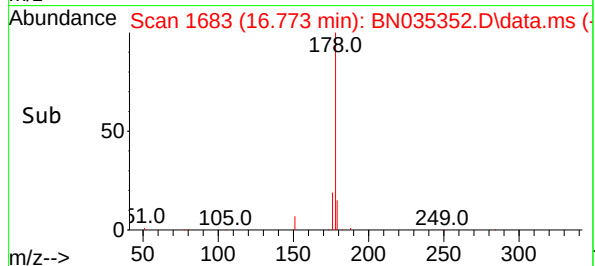
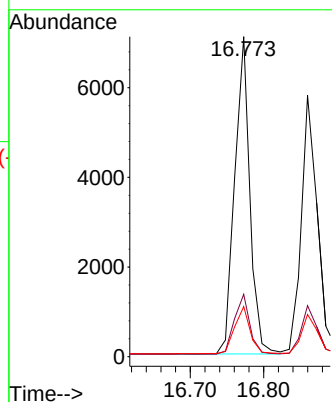
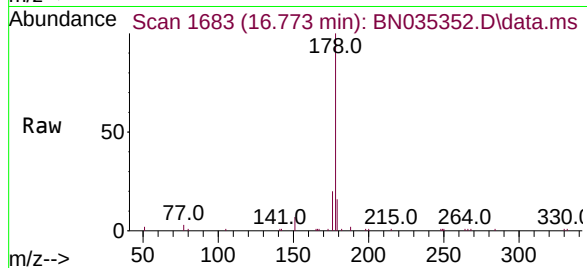
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 1012
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

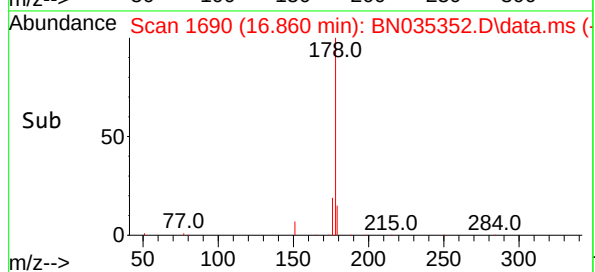
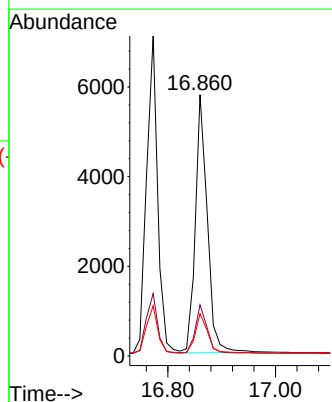
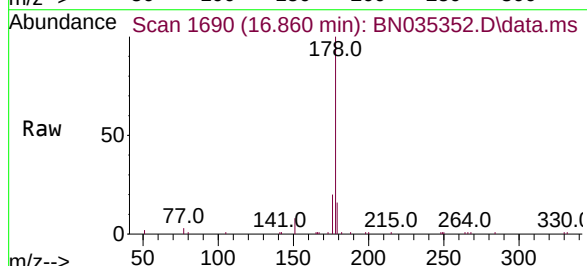
Manual Integrations
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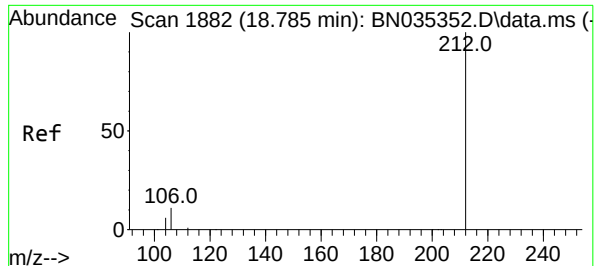
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

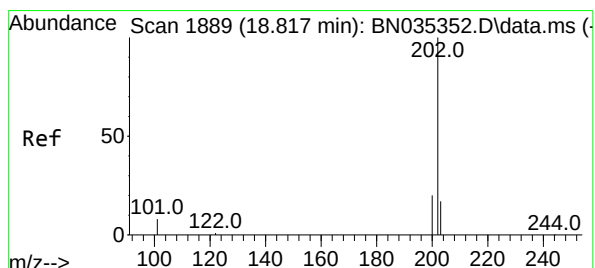
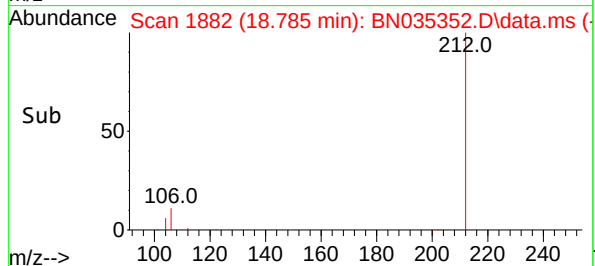
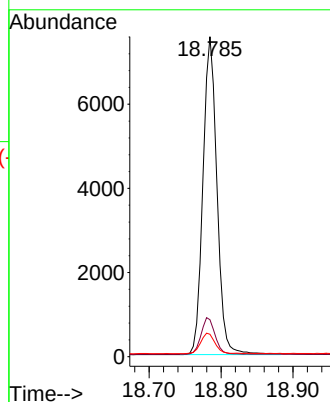
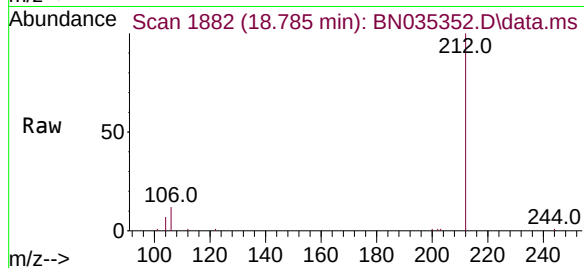
SSTDICCC0.4

Tgt Ion:	212	Resp:	1022
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.391 ng

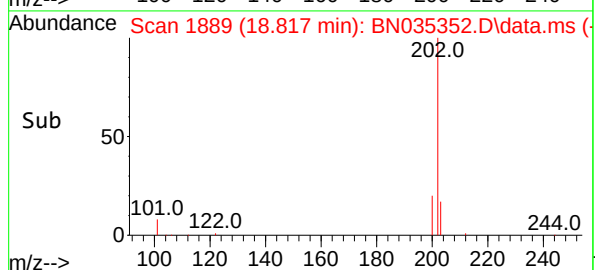
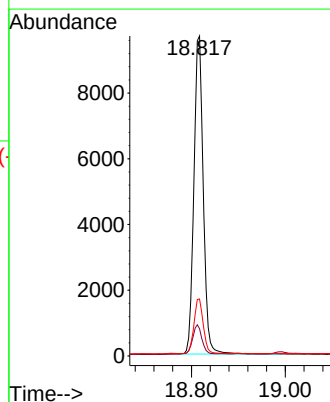
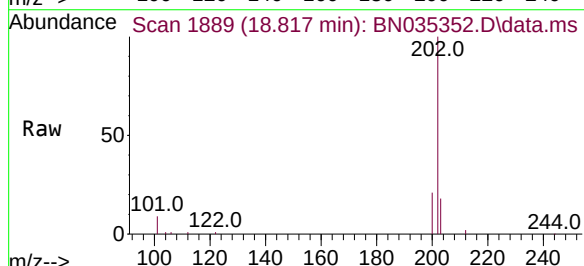
RT: 18.817 min Scan# 1889

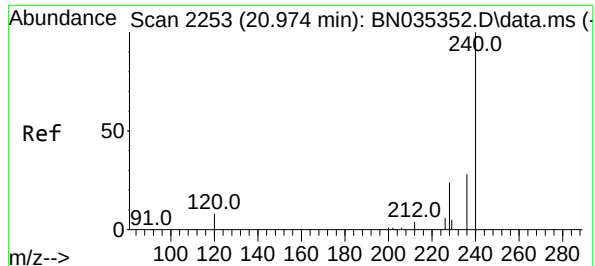
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	202	Resp:	13438
Ion Ratio	Lower	Upper	
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

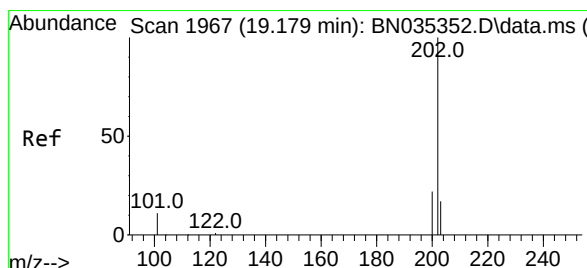
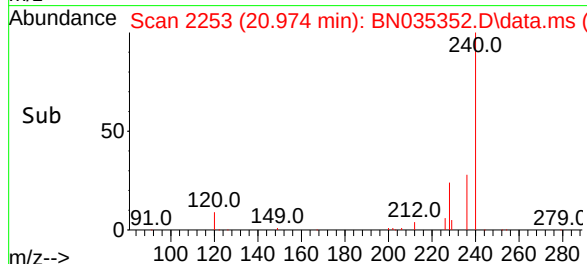
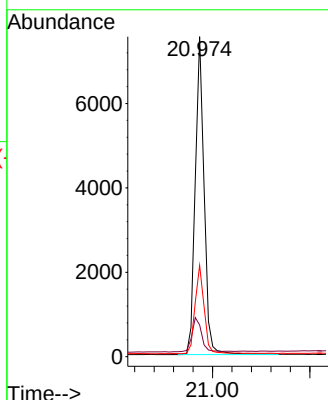
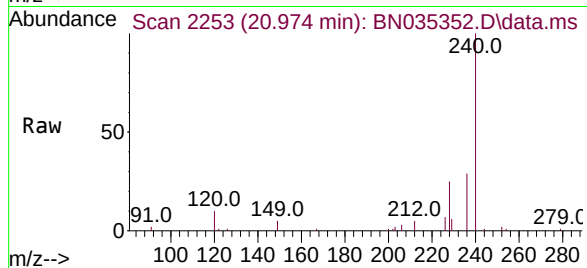
Tgt Ion:	240	Resp:	952
Ion Ratio	Lower	Upper	
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.443 ng

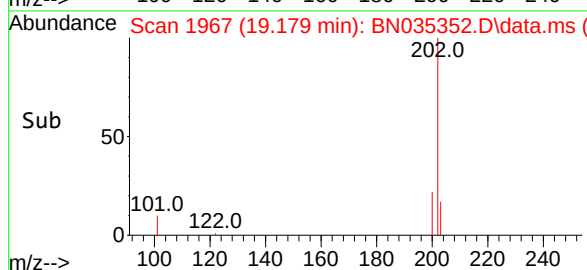
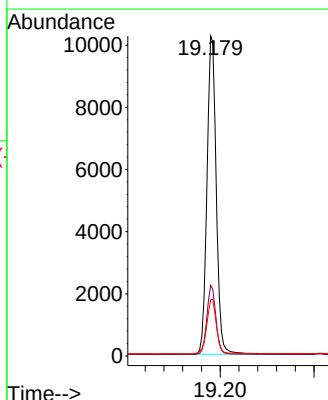
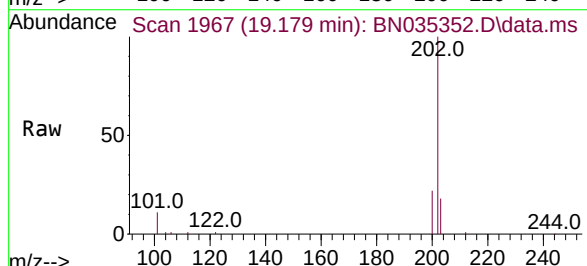
RT: 19.179 min Scan# 1967

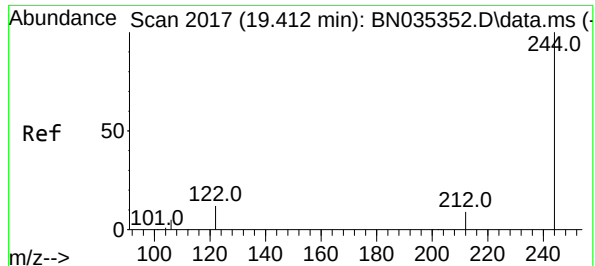
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	202	Resp:	14053
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5





#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

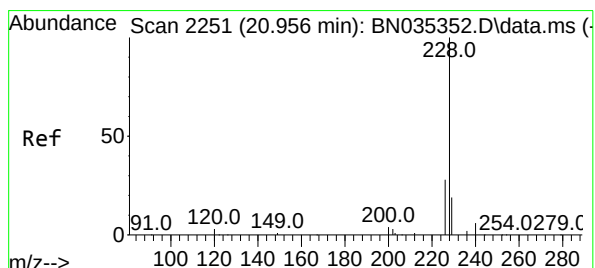
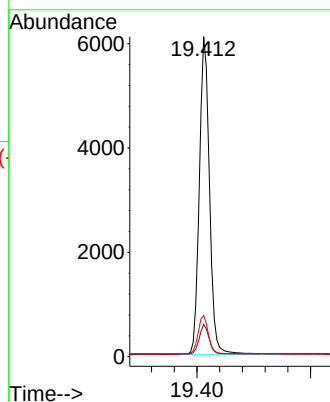
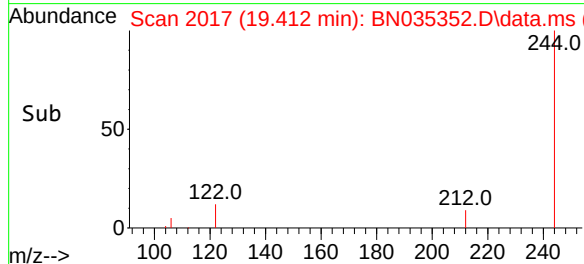
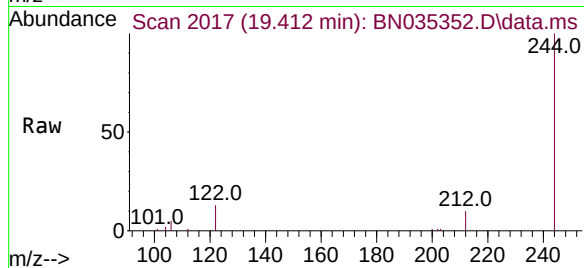
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

Manual Integrations

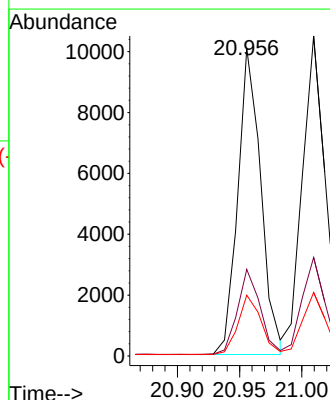
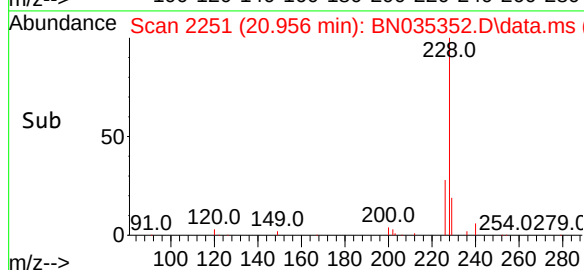
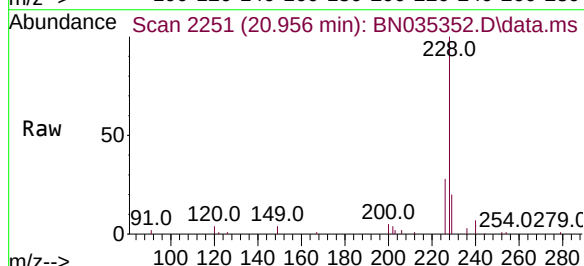
APPROVED

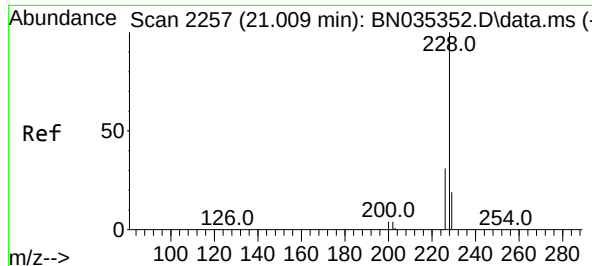
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8





#33

Chrysene

Concen: 0.418 ng

RT: 21.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

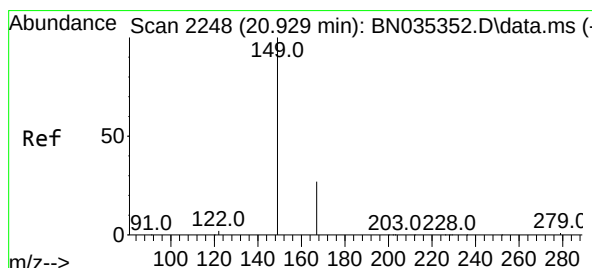
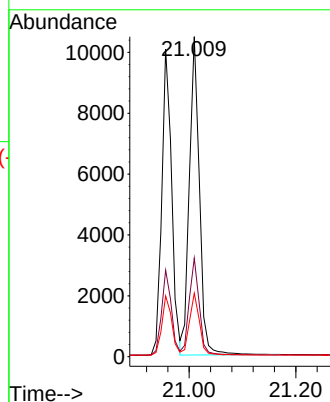
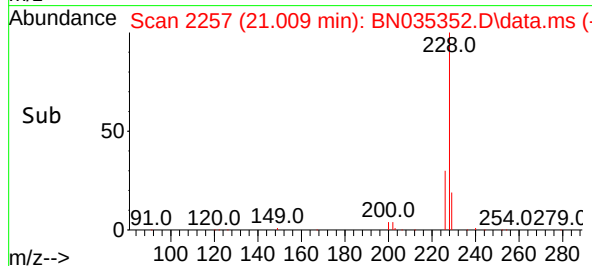
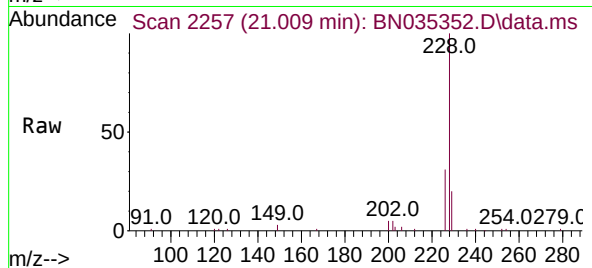
229 19.9 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.282 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

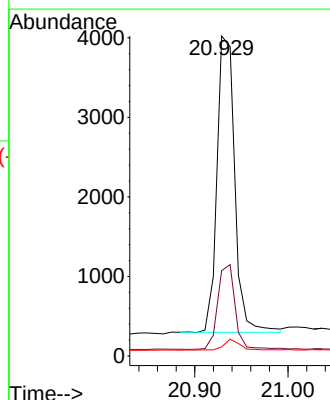
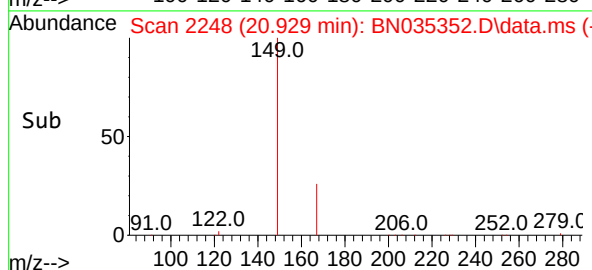
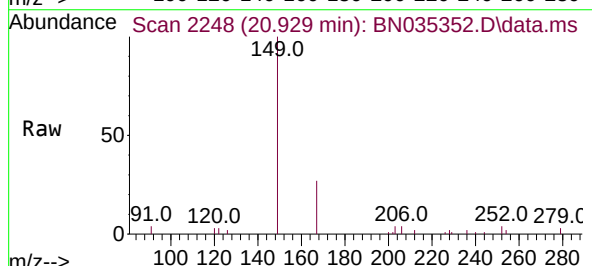
Tgt Ion:149 Resp: 4912

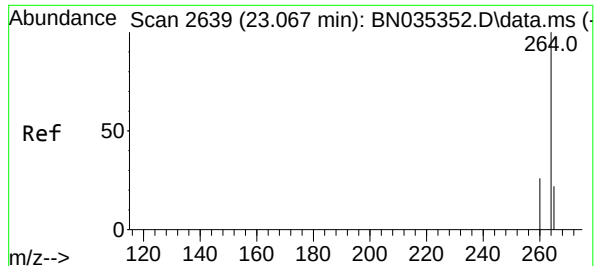
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

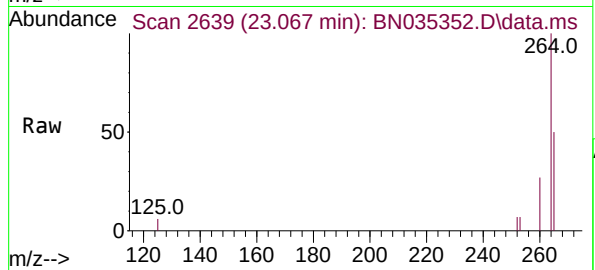
279 3.4 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

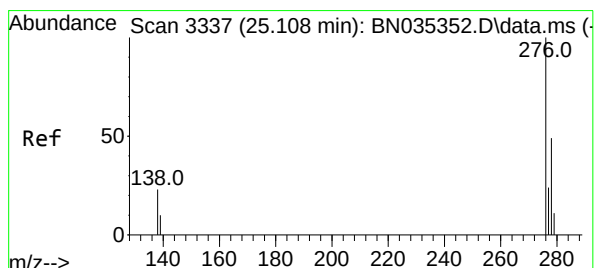
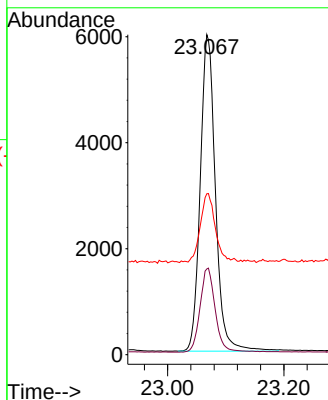
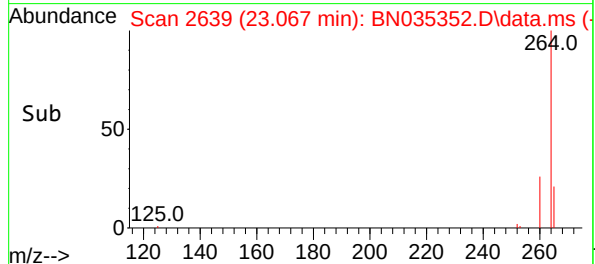
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:264 Resp: 1084
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 50.3 40.2 60.4

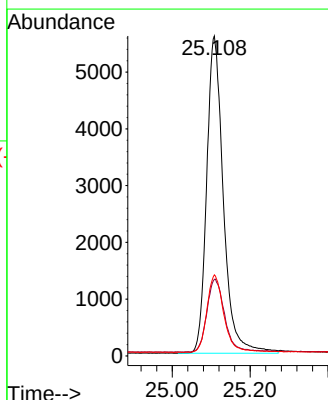
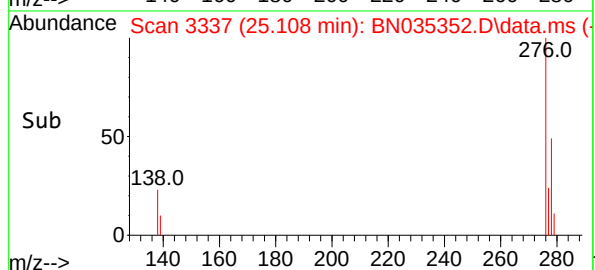
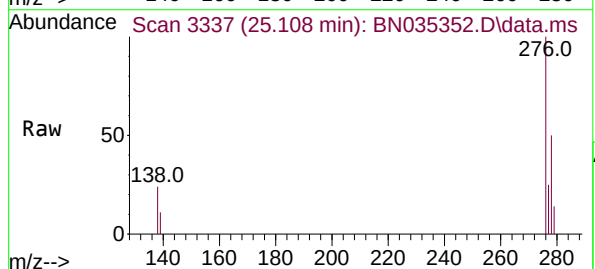
Manual Integrations
APPROVED

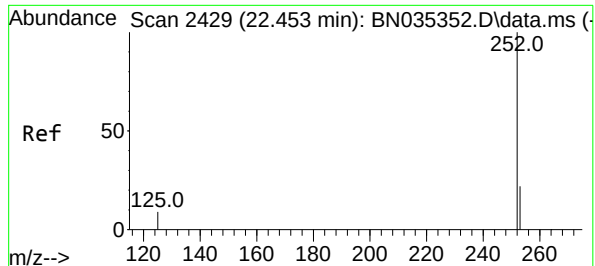
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615
Ion Ratio Lower Upper
276 100
138 24.2 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

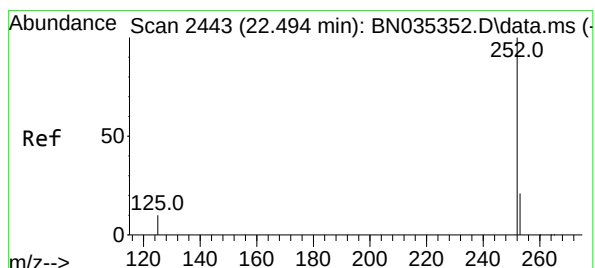
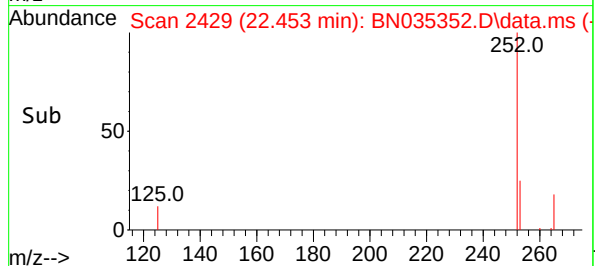
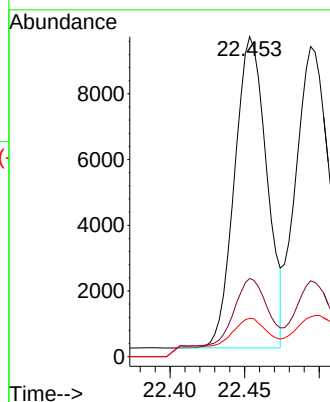
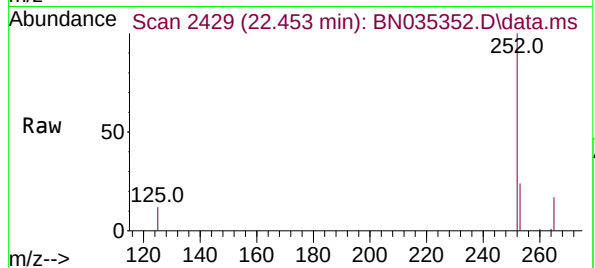
SSTDICCC0.4

Tgt Ion:252	Resp:	1423
Ion Ratio	Lower	Upper
252	100	
253	24.5	19.6 29.4
125	12.0	9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

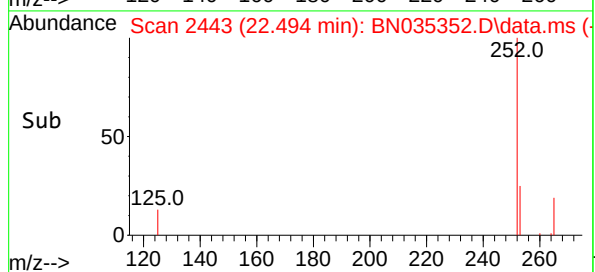
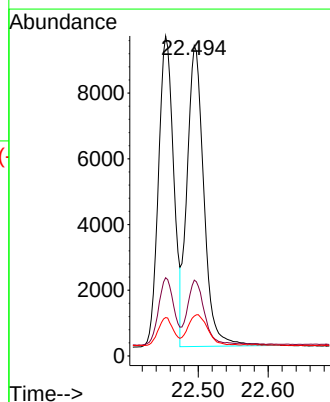
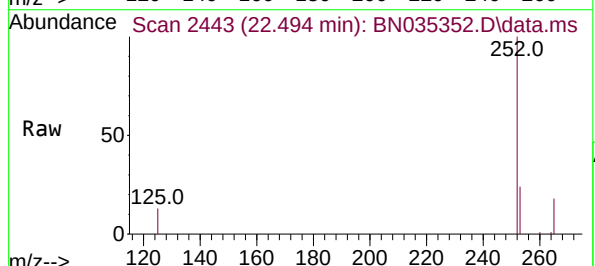
RT: 22.494 min Scan# 2443

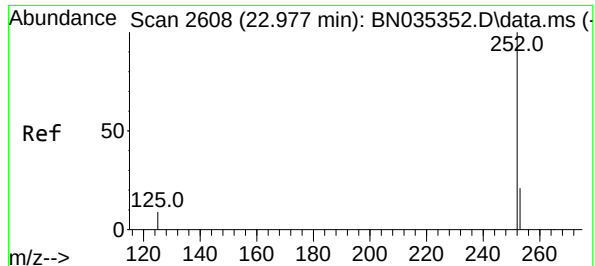
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:252	Resp:	15199
Ion Ratio	Lower	Upper
252	100	
253	24.4	19.5 29.3
125	12.8	10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

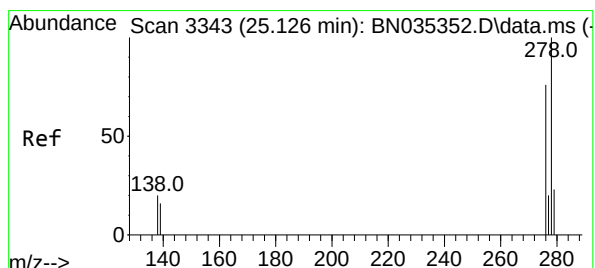
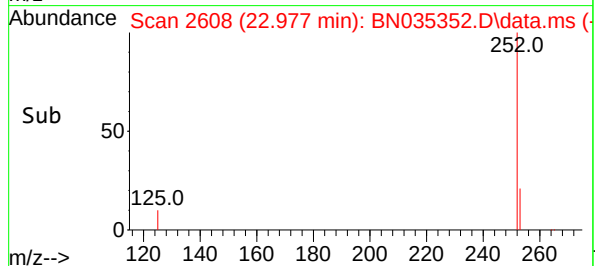
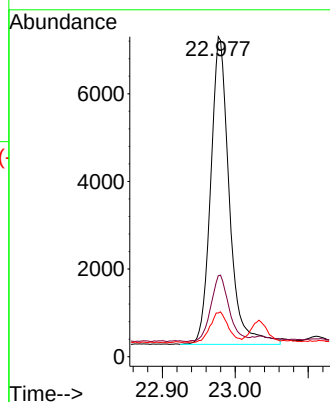
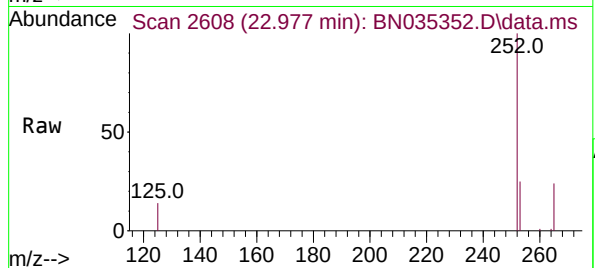
SSTDICCC0.4

Tgt Ion:	252	Resp:	12425
Ion Ratio	Lower	Upper	
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

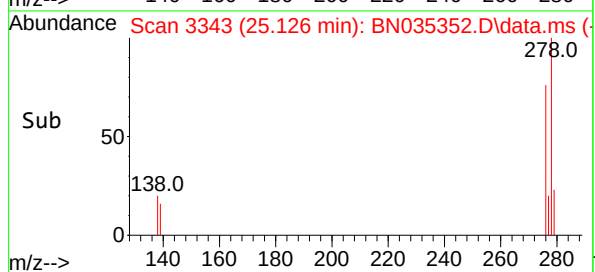
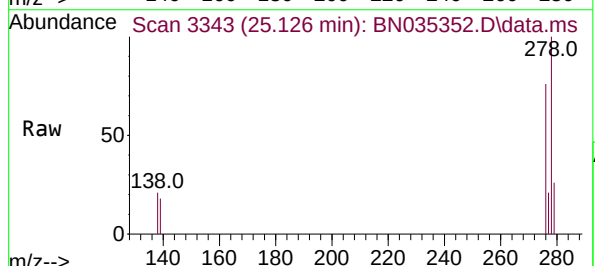
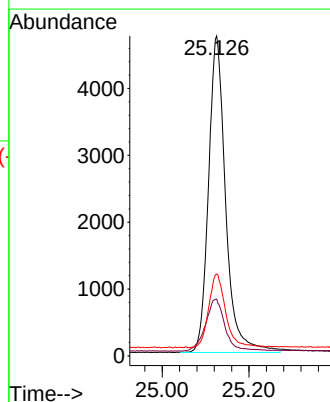
RT: 25.126 min Scan# 3343

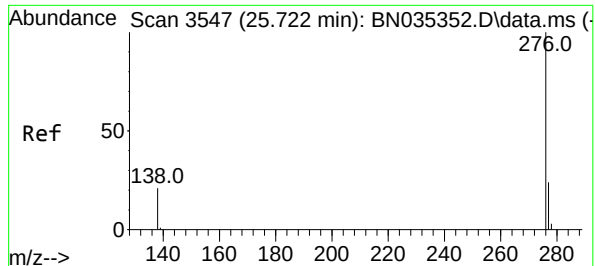
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	278	Resp:	12948
Ion Ratio	Lower	Upper	
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 25.722 min Scan# 3547

Delta R.T. 0.000 min

Lab File: BN035352.D

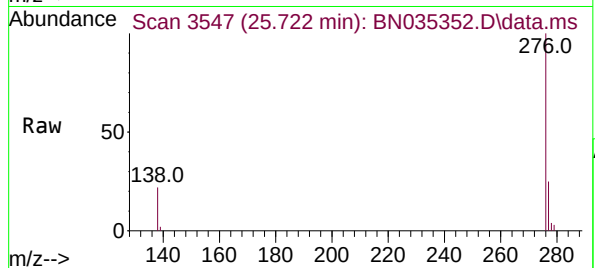
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

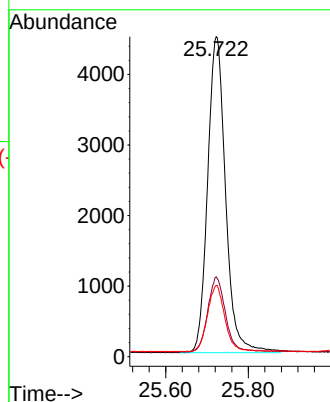
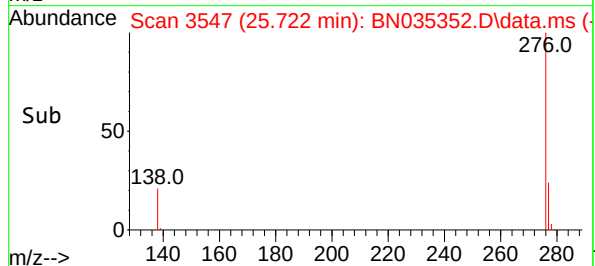
138 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035353.D
 Acq On : 27 Nov 2024 17:21
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

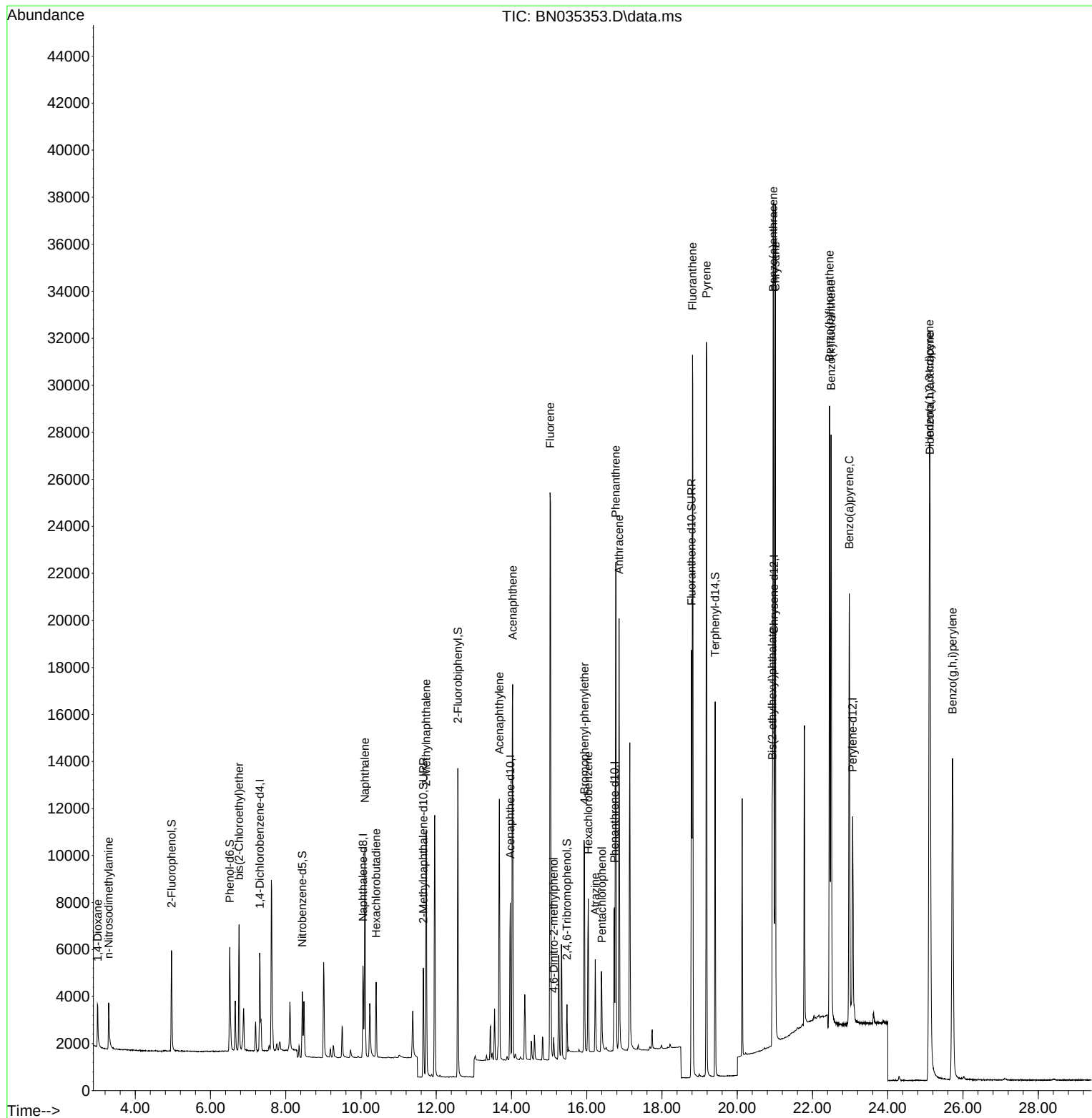
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng	0.00
35) Perylene-d12	23.067	264	10698	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3924	0.755	ng	0.00
5) Phenol-d6	6.513	99	4681	0.718	ng	0.00
8) Nitrobenzene-d5	8.440	82	2634	0.570	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	6530	0.690	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	2051	0.744	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	11528	0.742	ng	0.00
27) Fluoranthene-d10	18.785	212	21050	0.721	ng	0.00
31) Terphenyl-d14	19.412	244	15171	0.735	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1554	0.836	ng	99
3) n-Nitrosodimethylamine	3.292	42	1291	0.745	ng	# 98
6) bis(2-Chloroethyl)ether	6.759	93	4066	0.831	ng	100
9) Naphthalene	10.105	128	10954	0.790	ng	99
10) Hexachlorobutadiene	10.404	225	2559	0.630	ng	# 100
12) 2-Methylnaphthalene	11.732	142	7925	0.775	ng	99
16) Acenaphthylene	13.679	152	12523	0.766	ng	100
17) Acenaphthene	14.031	154	8470	0.791	ng	99
18) Fluorene	15.026	166	12232	0.777	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	784	0.395	ng	# 88
21) 4-Bromophenyl-phenylether	15.941	248	4440	0.732	ng	98
22) Hexachlorobenzene	16.041	284	5253	0.834	ng	99
23) Atrazine	16.227	200	2978	0.547	ng	99
24) Pentachlorophenol	16.400	266	1968	0.669	ng	87
25) Phenanthrene	16.773	178	20803	0.830	ng	100
26) Anthracene	16.860	178	18528	0.805	ng	99
28) Fluoranthene	18.813	202	27743	0.805	ng	100
30) Pyrene	19.180	202	28384	0.866	ng	100
32) Benzo(a)anthracene	20.956	228	27048	0.790	ng	99
33) Chrysene	21.010	228	27838	0.820	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	9941	0.553	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	33248	0.779	ng	100
37) Benzo(b)fluoranthene	22.453	252	29491	0.819	ng	96
38) Benzo(k)fluoranthene	22.494	252	30369	0.843	ng	96
39) Benzo(a)pyrene	22.977	252	25053	0.791	ng	96
40) Dibenzo(a,h)anthracene	25.123	278	26222	0.775	ng	98
41) Benzo(g,h,i)perylene	25.722	276	27143	0.755	ng	98

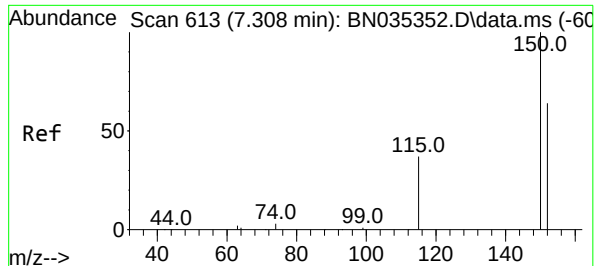
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

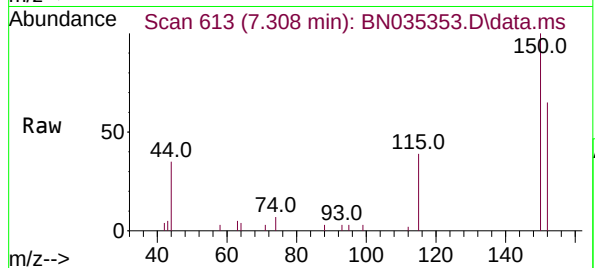
Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





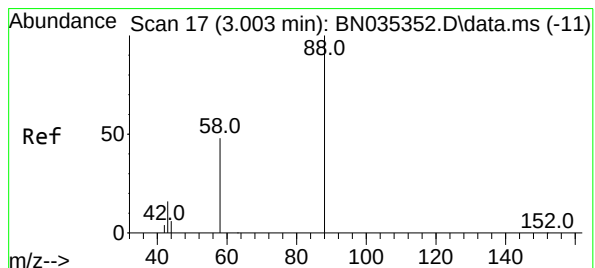
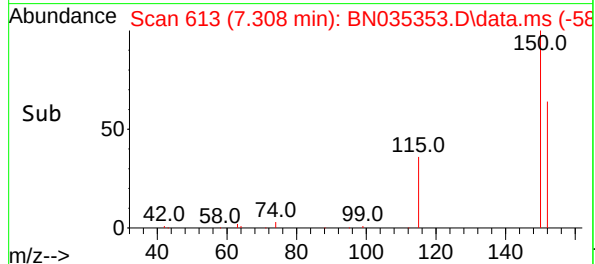
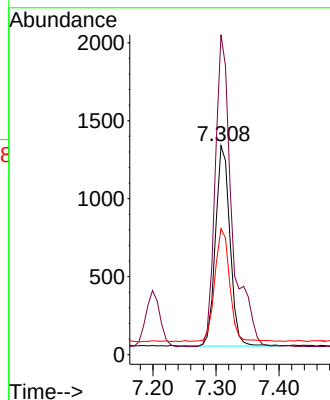
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 2047

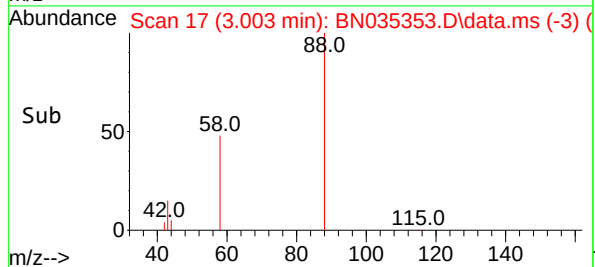
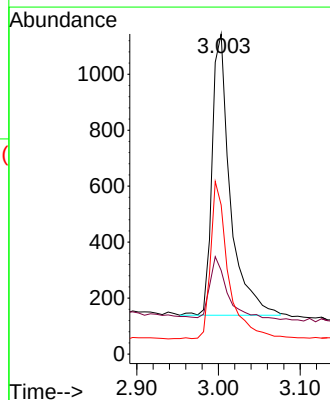
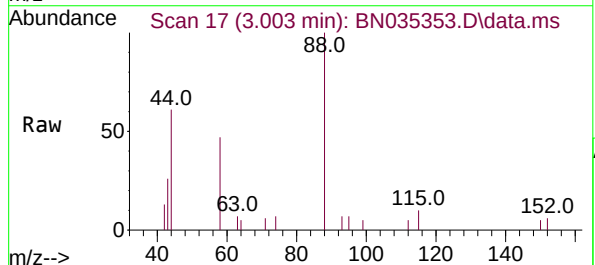
Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

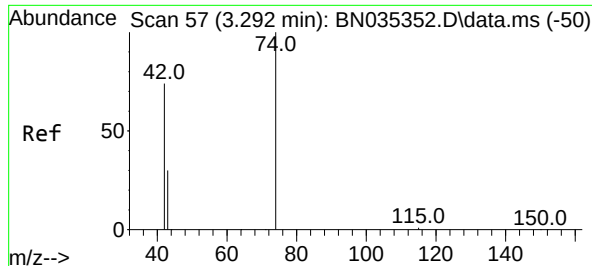


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	54.8	44.5	66.7

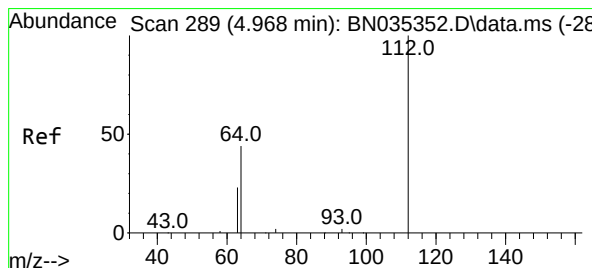
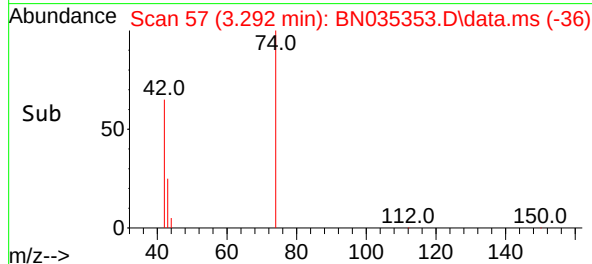
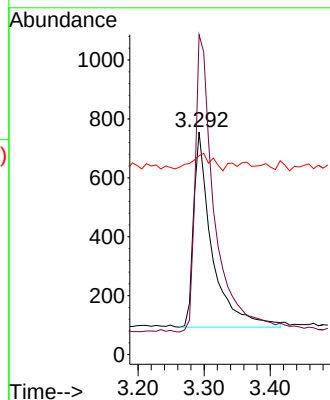
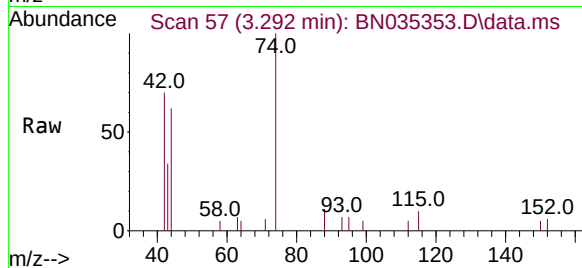




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

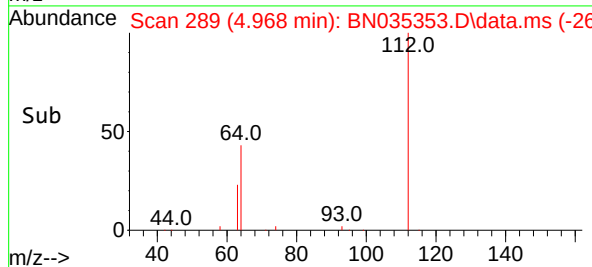
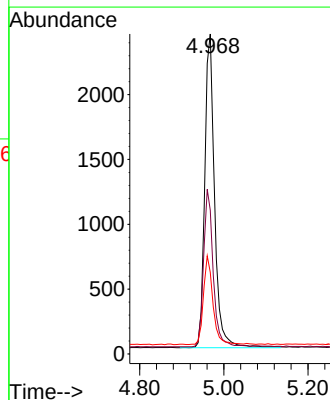
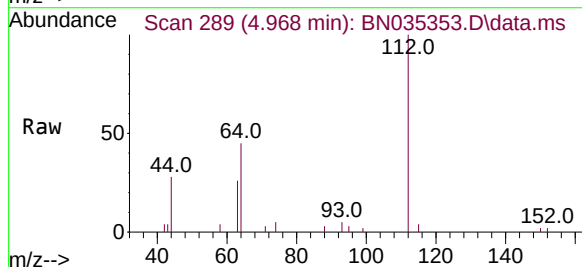
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

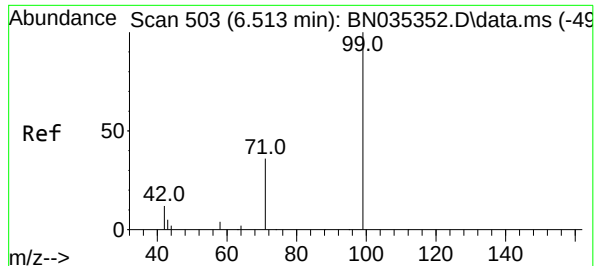
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 112 Resp: 3924
Ion Ratio Lower Upper
112 100
64 49.0 39.8 59.8
63 27.0 21.0 31.6

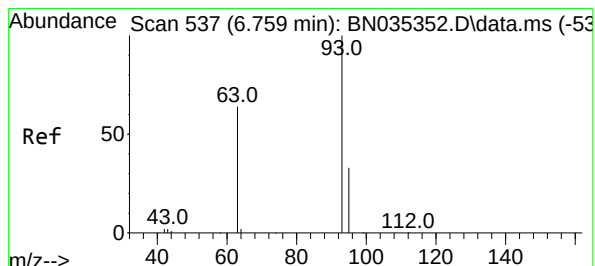
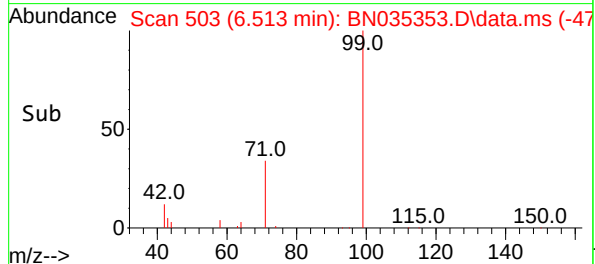
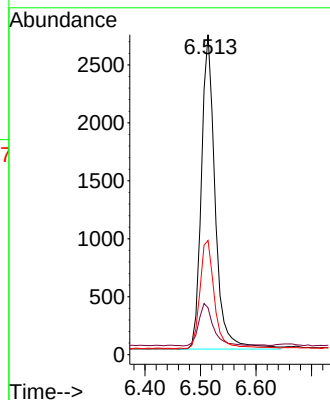
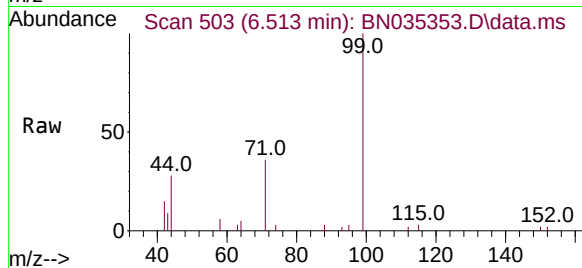




#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

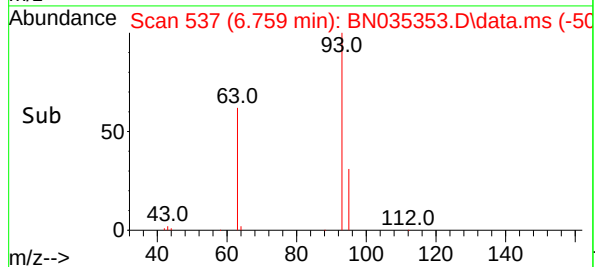
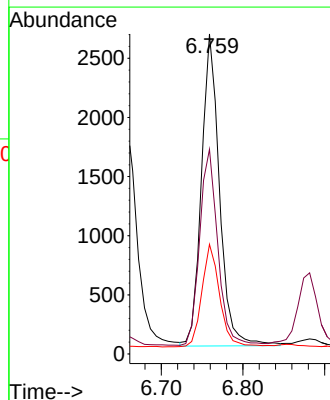
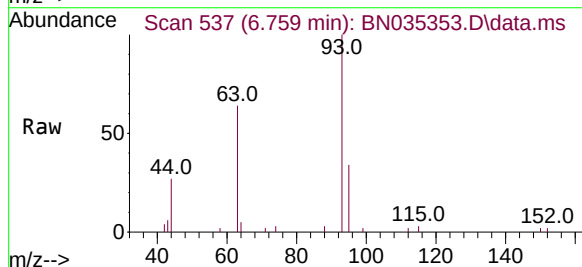
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

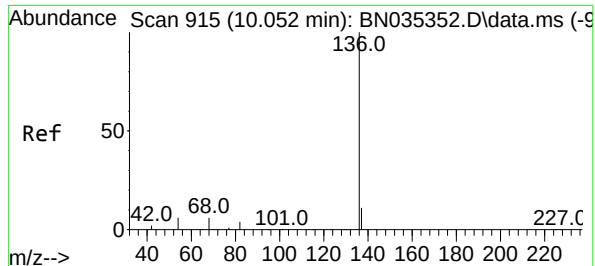
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5

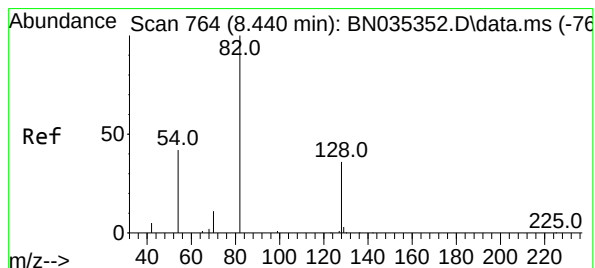
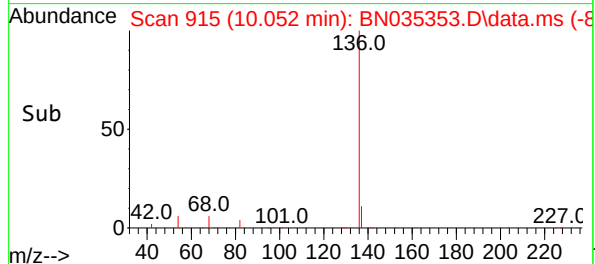
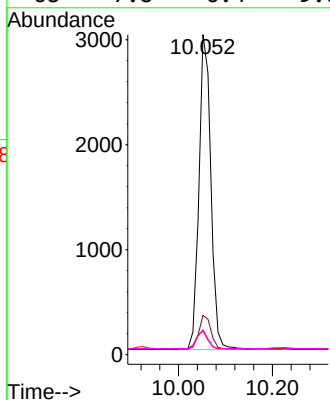
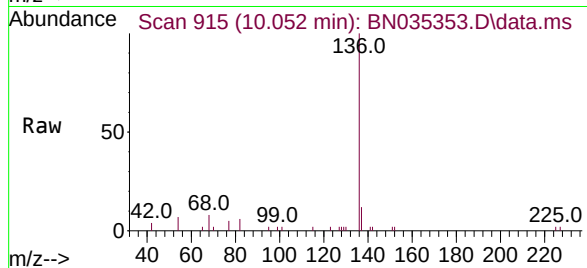




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

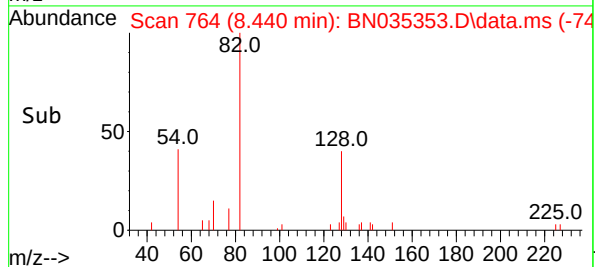
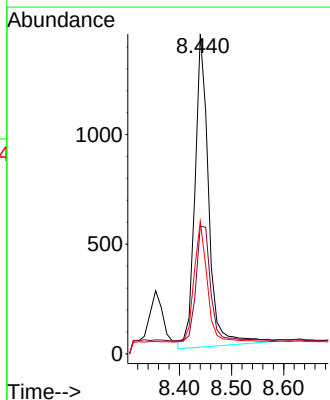
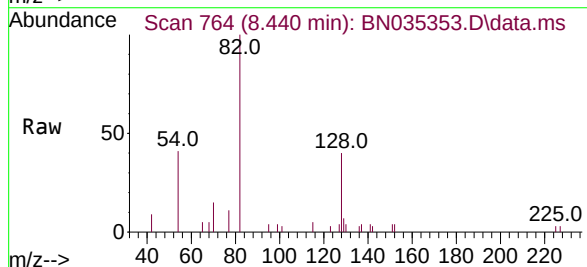
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

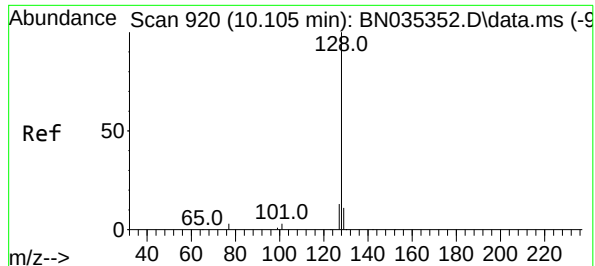
Tgt Ion:	136	Resp:	5308
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:	82	Resp:	2634
Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.4	50.0
54	41.5	36.7	55.1



#9
Naphthalene

Concen: 0.790 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

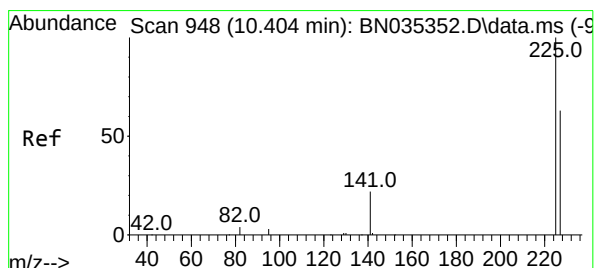
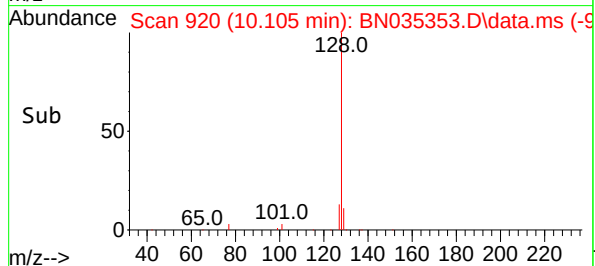
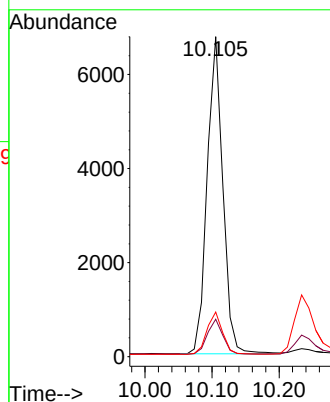
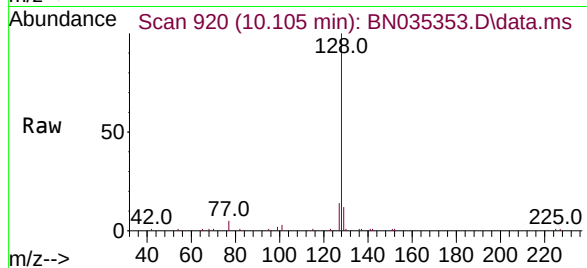
Tgt Ion:128 Resp: 10954

Ion Ratio Lower Upper

128 100

129 11.7 9.8 14.6

127 13.9 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.630 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

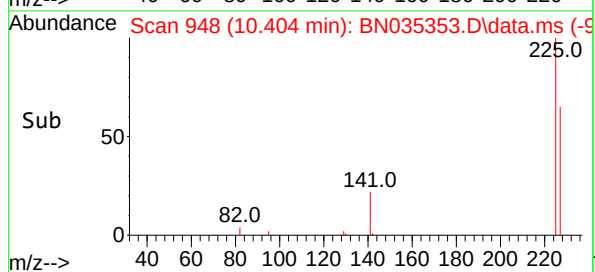
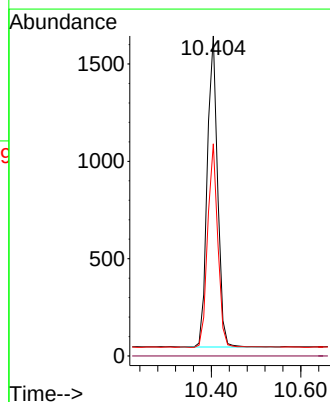
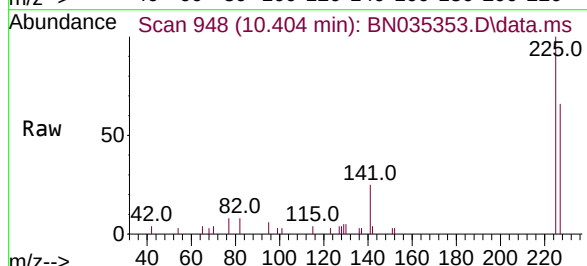
Tgt Ion:225 Resp: 2559

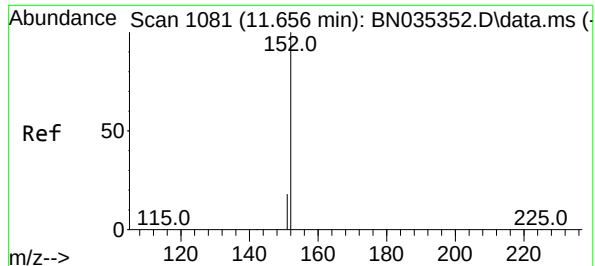
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

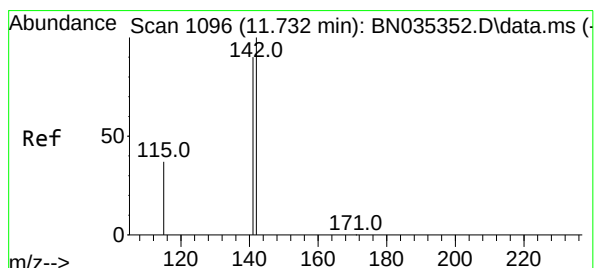
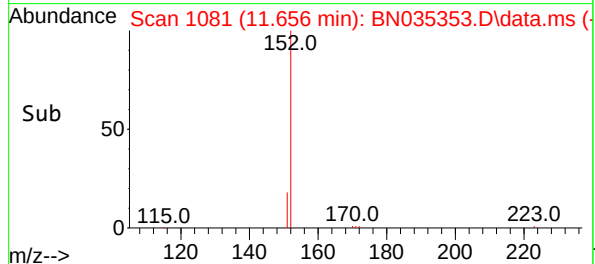
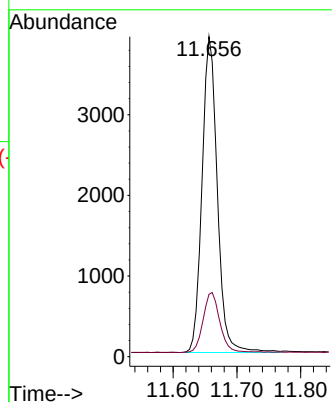
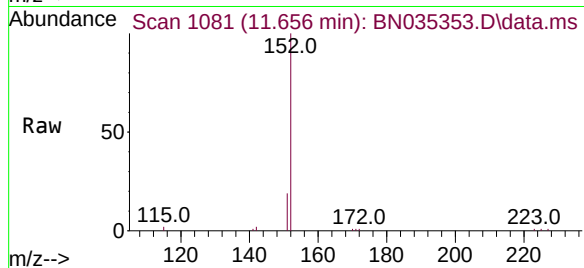




#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

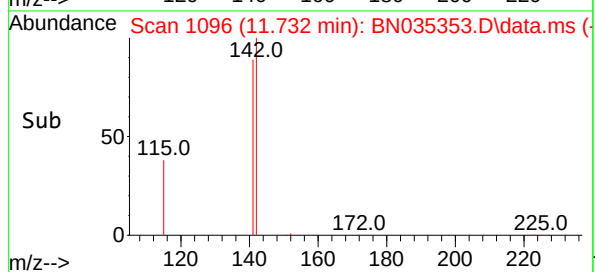
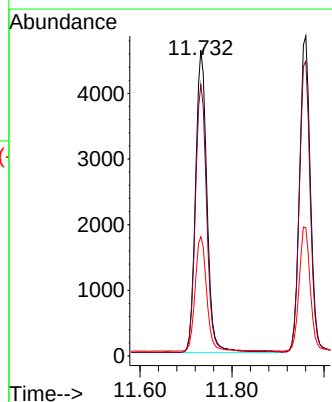
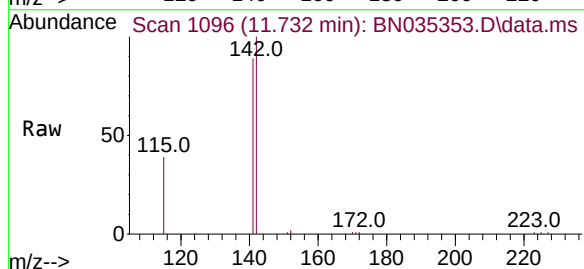
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

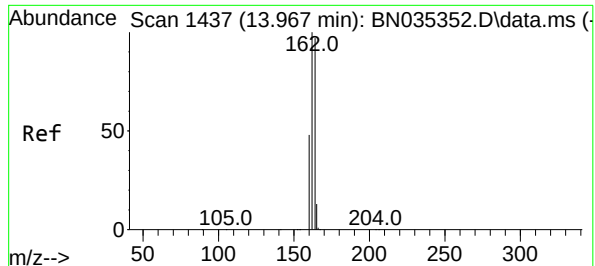
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 39.0 31.4 47.0

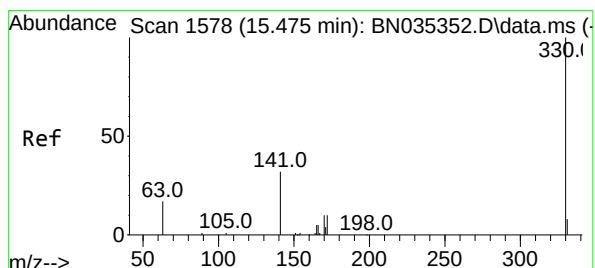
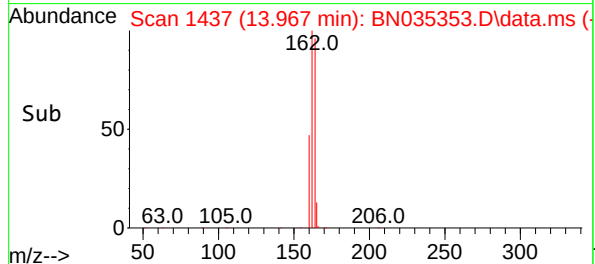
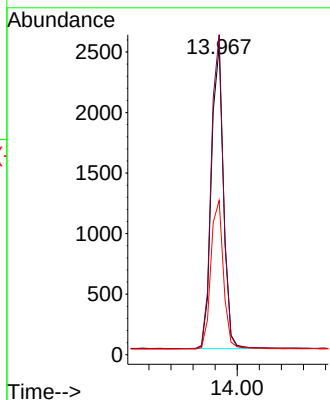
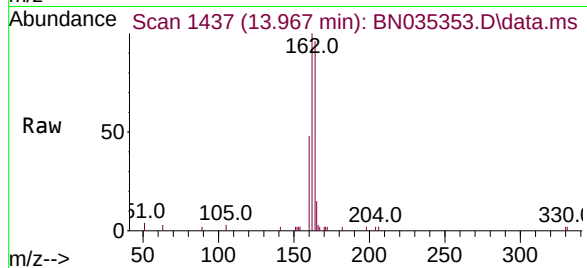




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

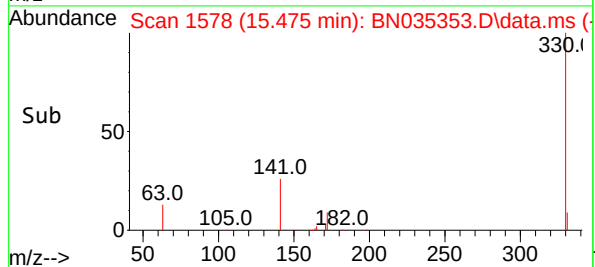
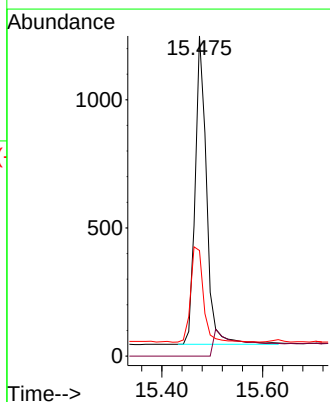
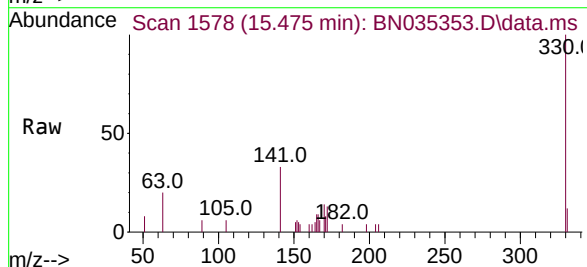
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

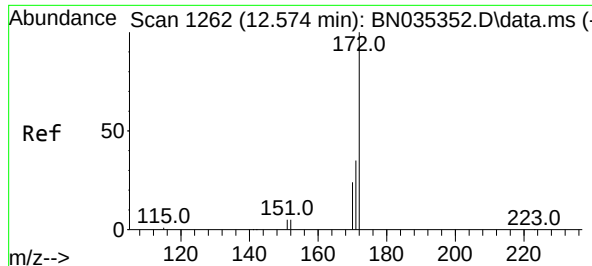
Tgt Ion:164 Resp: 3823
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.1 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.742 ng

RT: 12.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

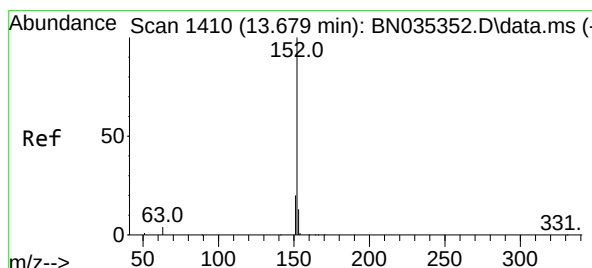
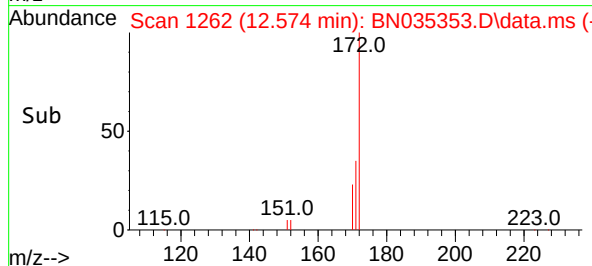
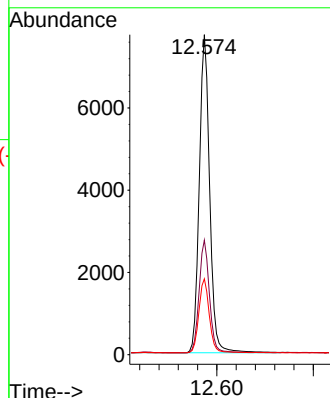
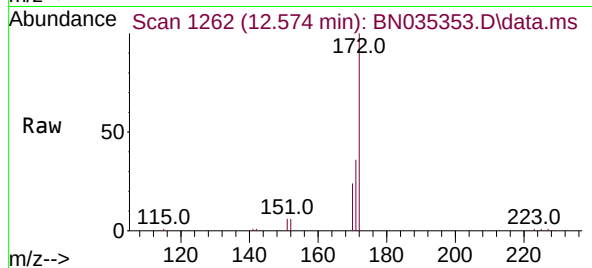
Tgt Ion:172 Resp: 11528

Ion Ratio Lower Upper

172 100

171 35.8 29.0 43.4

170 23.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.766 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

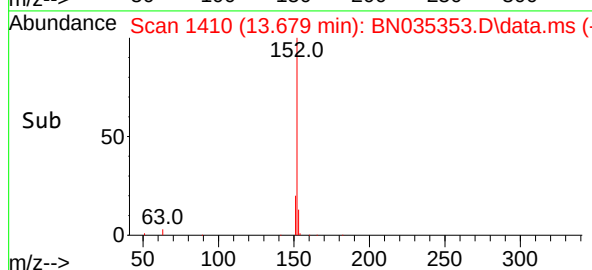
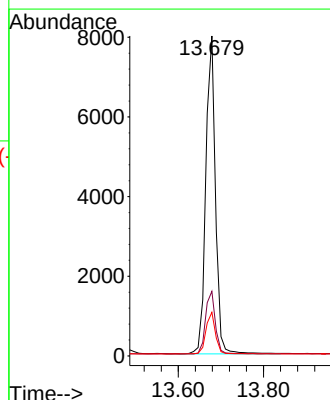
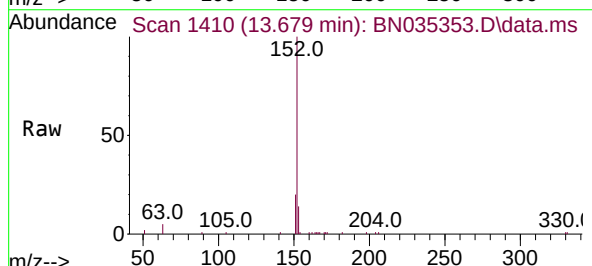
Tgt Ion:152 Resp: 12523

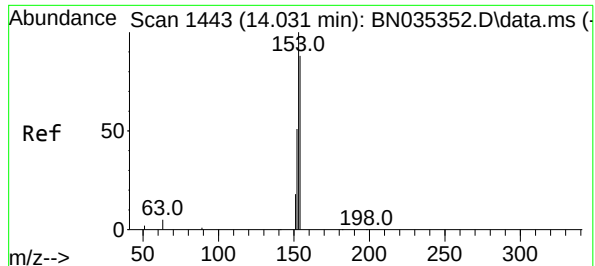
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 12.9 10.4 15.6

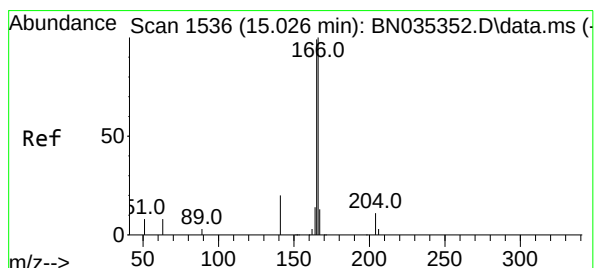
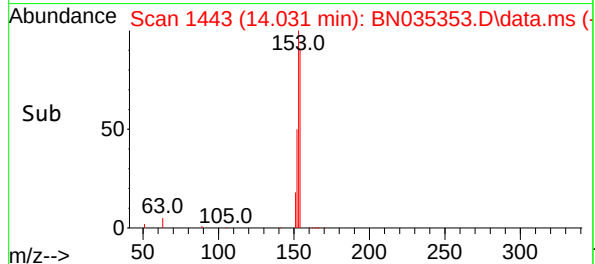
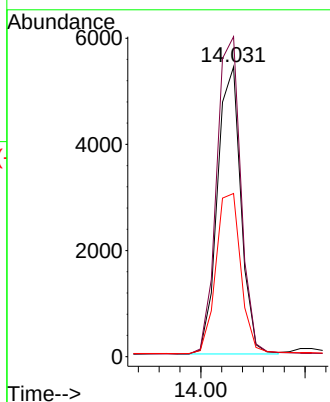
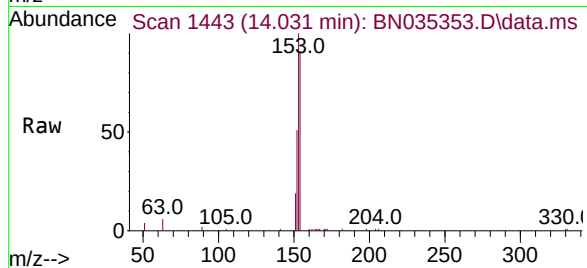




#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

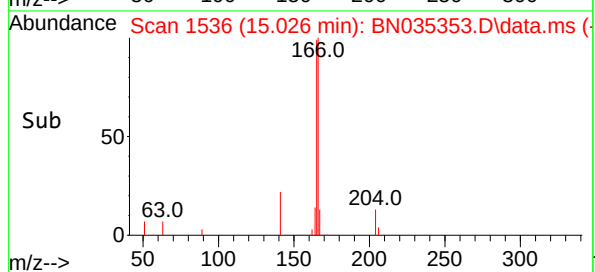
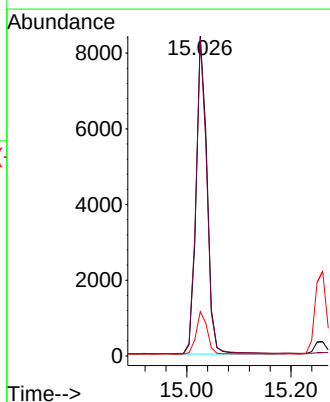
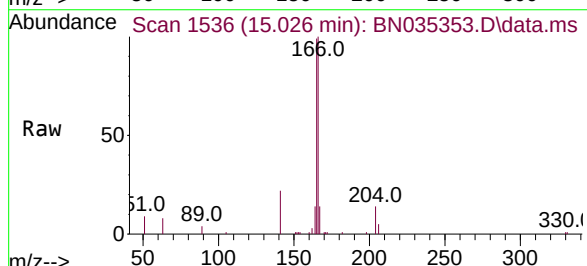
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

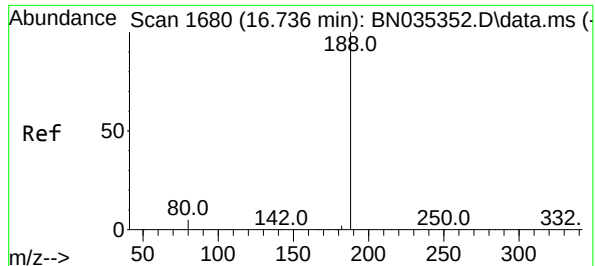
Tgt Ion:154 Resp: 8470
Ion Ratio Lower Upper
154 100
153 114.8 92.6 139.0
152 60.2 49.0 73.6



#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232
Ion Ratio Lower Upper
166 100
165 98.5 79.7 119.5
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

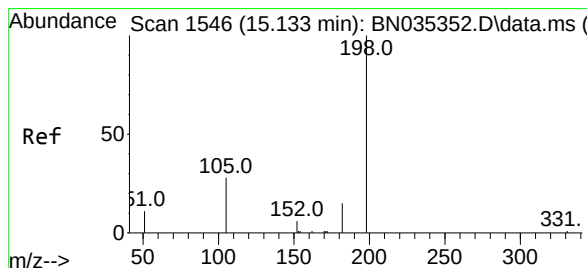
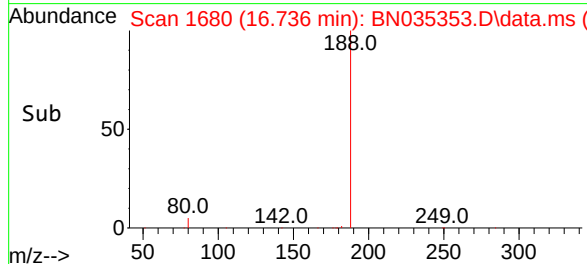
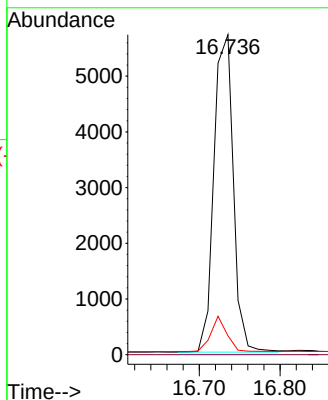
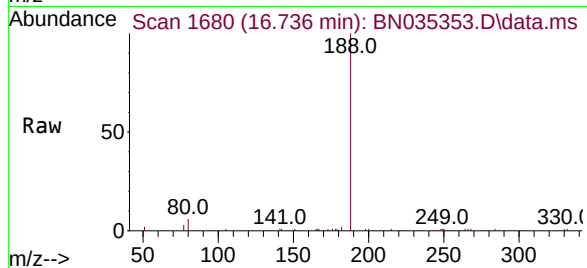
Tgt Ion:188 Resp: 9525

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.9 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.395 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

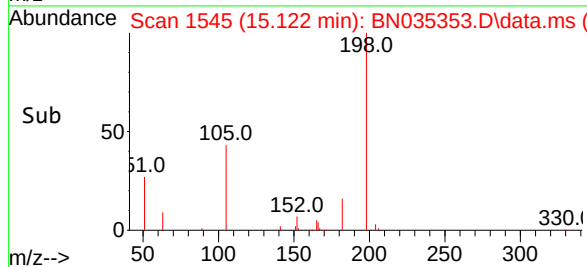
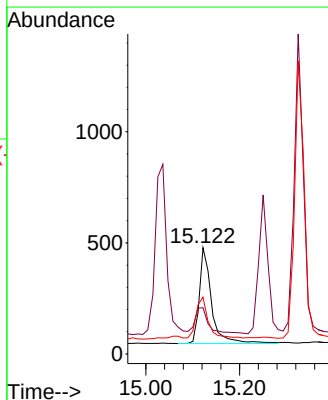
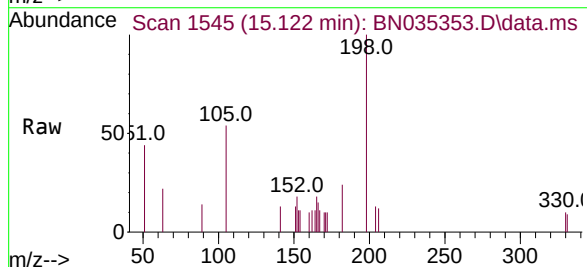
Tgt Ion:198 Resp: 784

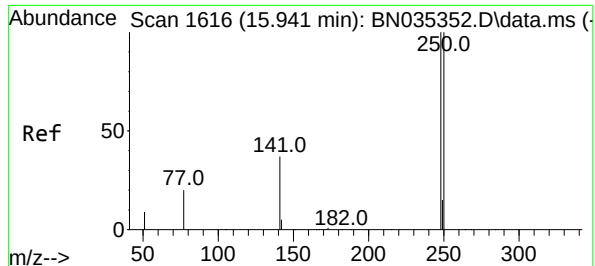
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

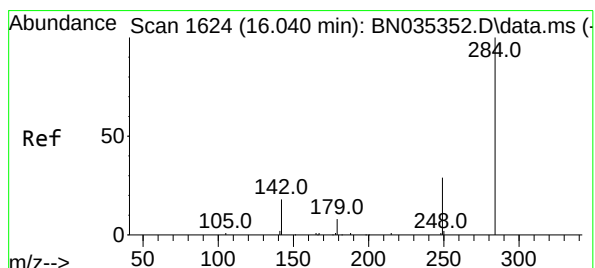
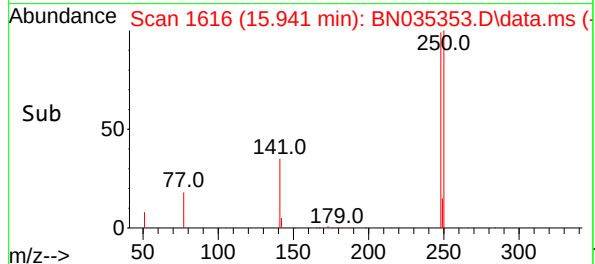
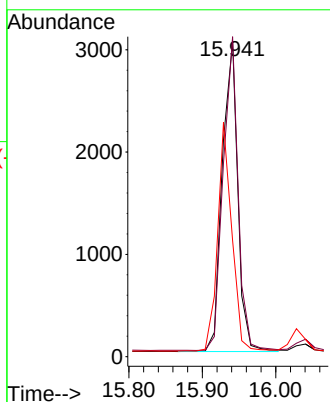
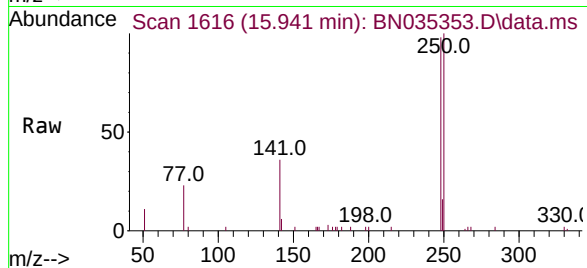




#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

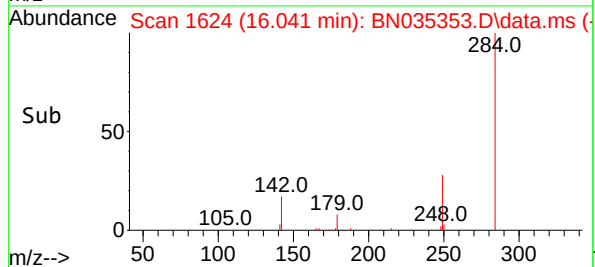
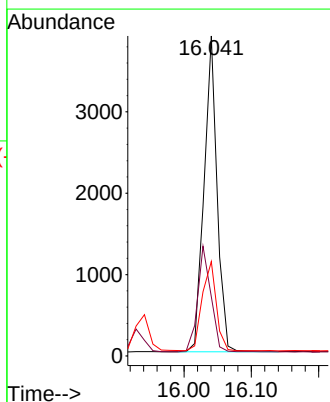
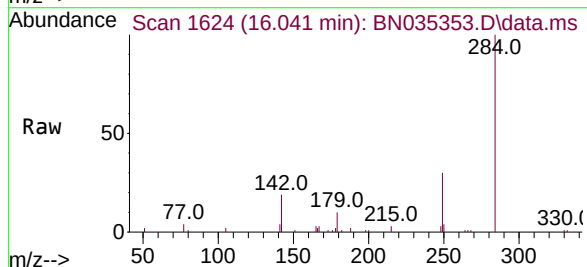
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

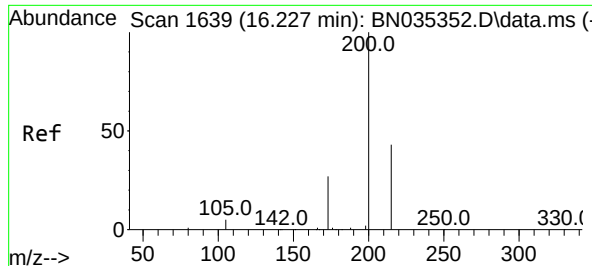
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3



#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8

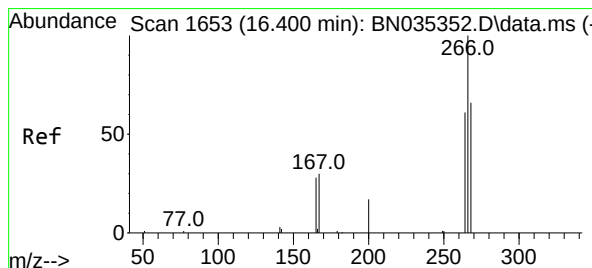
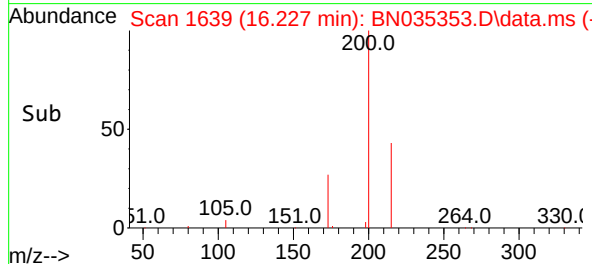
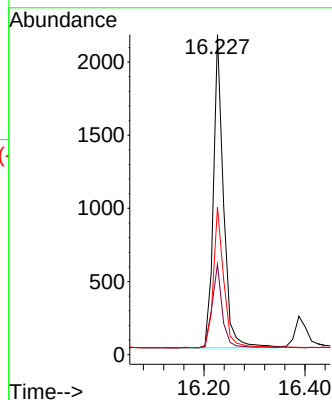
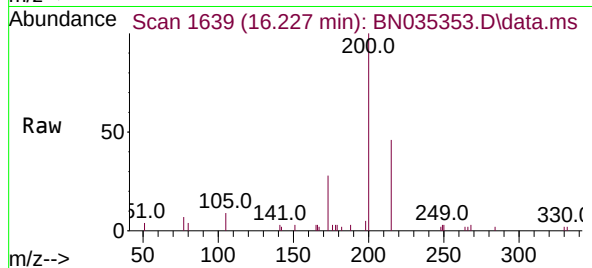




#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

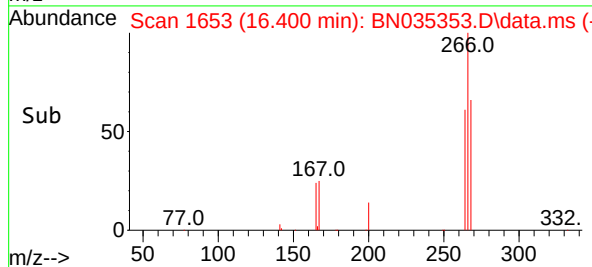
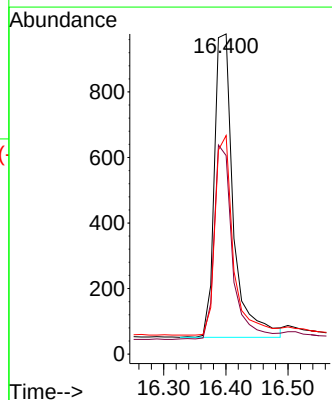
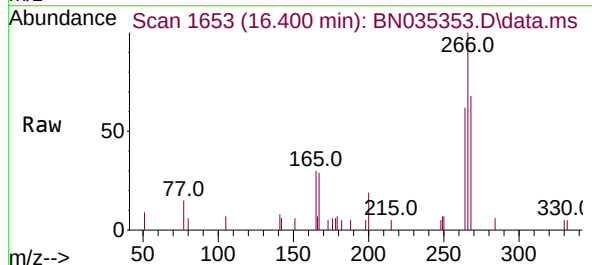
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

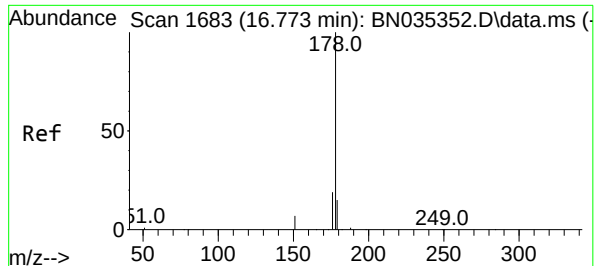
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3



#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9

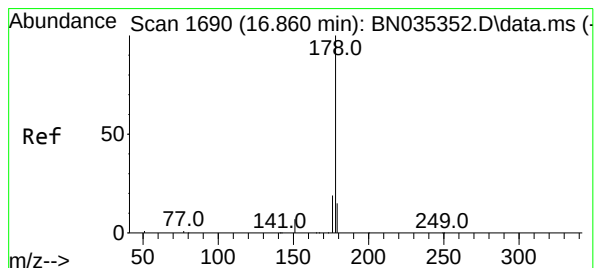
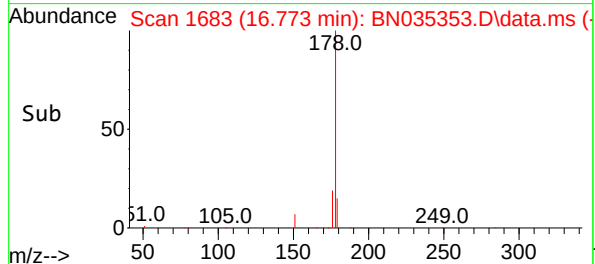
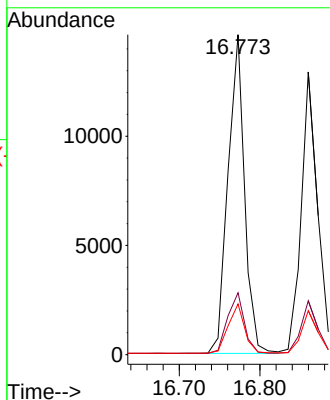
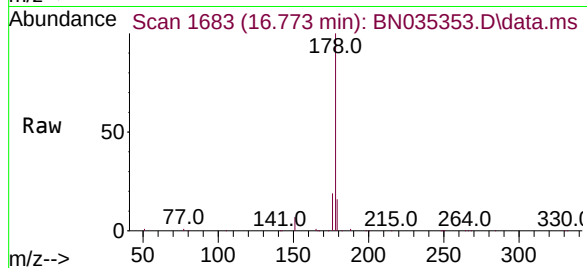




#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

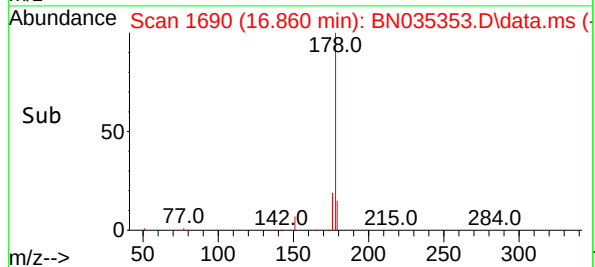
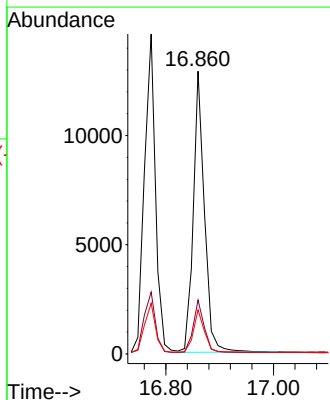
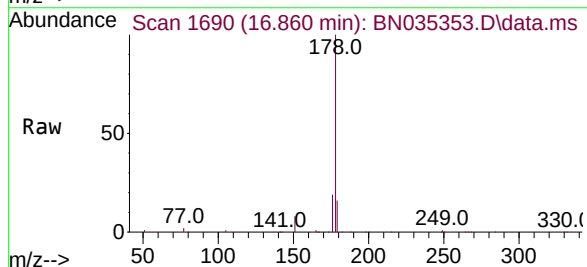
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

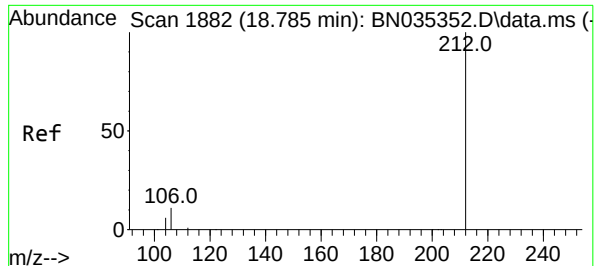
Tgt Ion:178 Resp: 20803
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.721 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

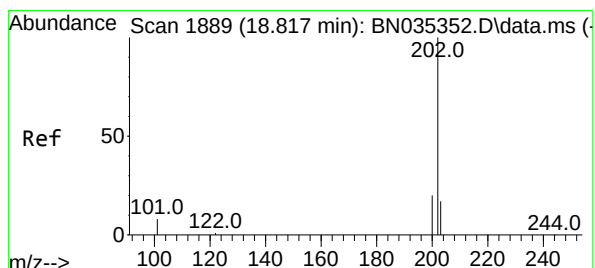
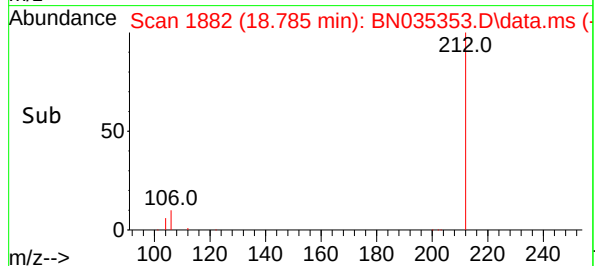
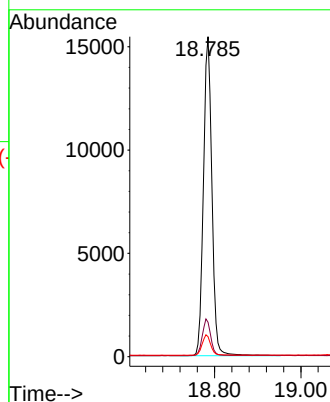
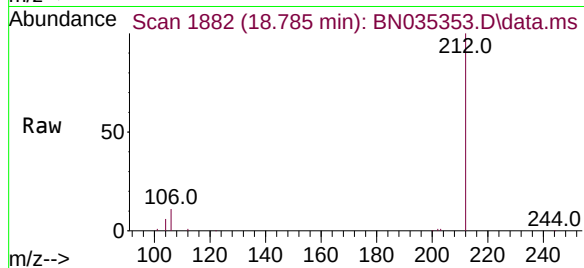
Tgt Ion:212 Resp: 21050

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

104 6.4 5.3 7.9



#28

Fluoranthene

Concen: 0.805 ng

RT: 18.813 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

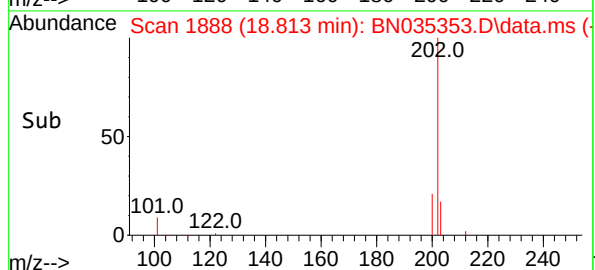
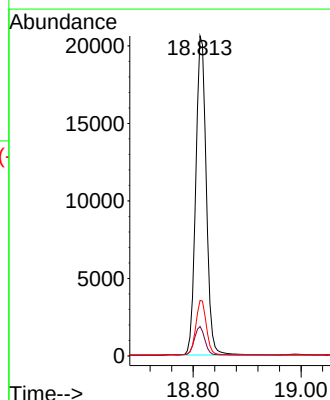
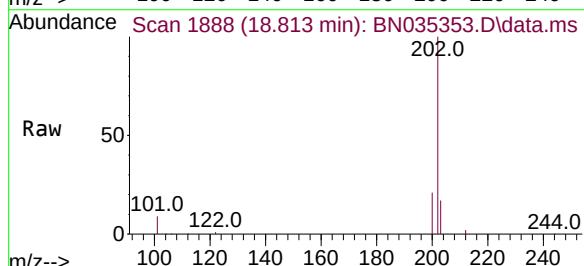
Tgt Ion:202 Resp: 27743

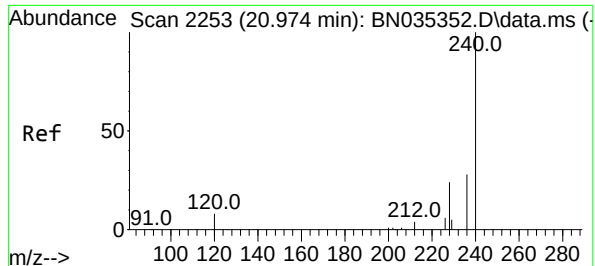
Ion Ratio Lower Upper

202 100

101 9.1 7.4 11.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

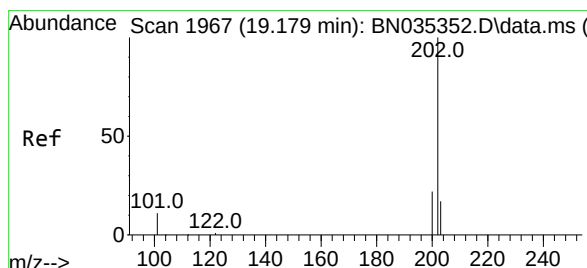
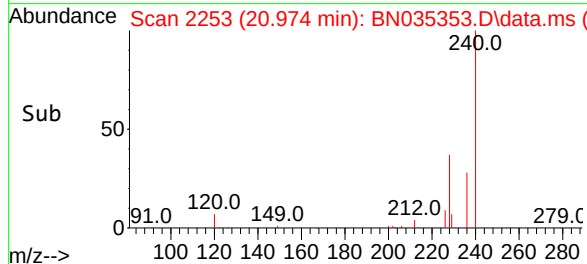
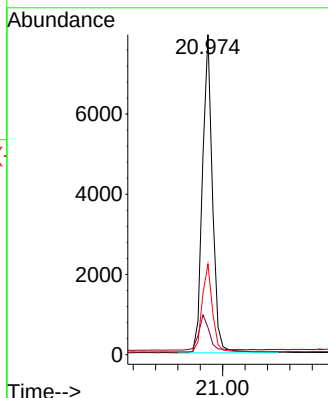
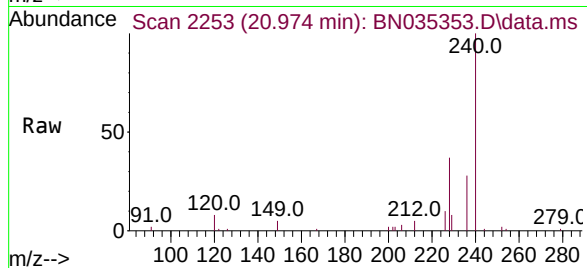
Tgt Ion:240 Resp: 9837

Ion Ratio Lower Upper

240 100

120 8.5 7.9 11.9

236 28.3 22.9 34.3



#30

Pyrene

Concen: 0.866 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

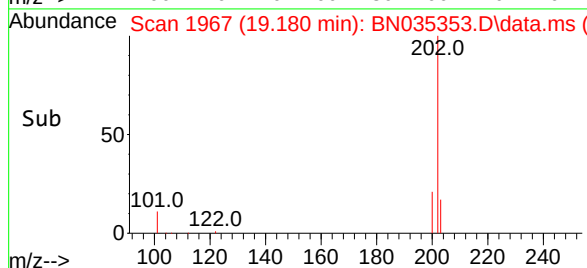
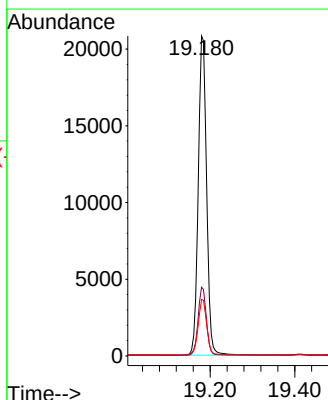
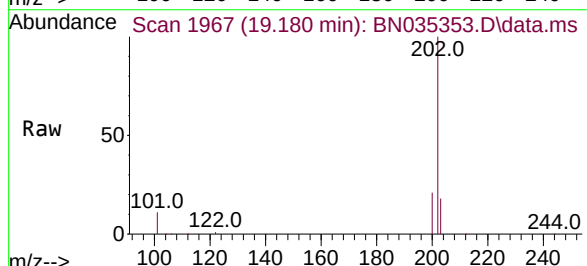
Tgt Ion:202 Resp: 28384

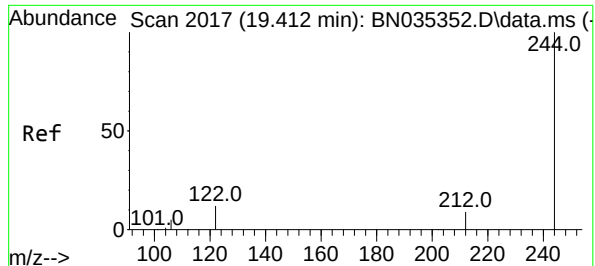
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

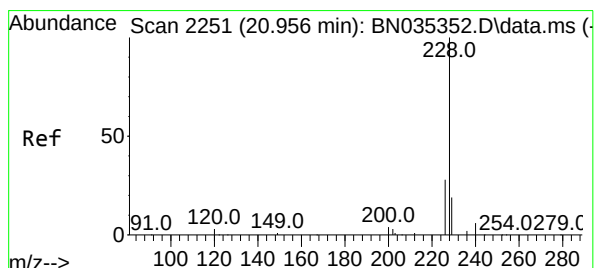
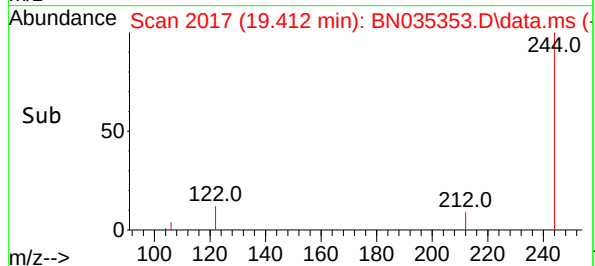
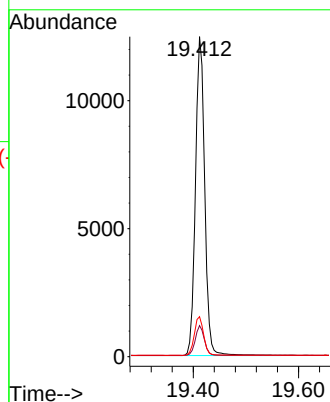
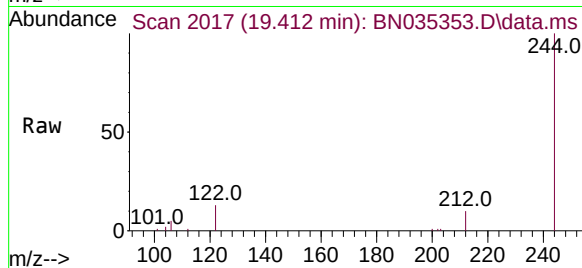




#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

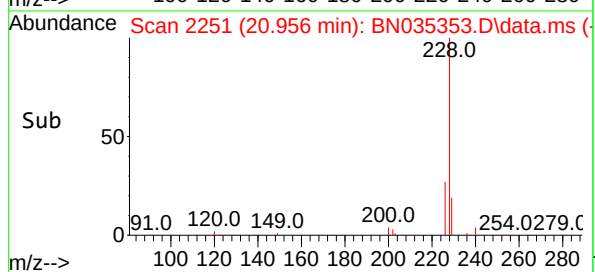
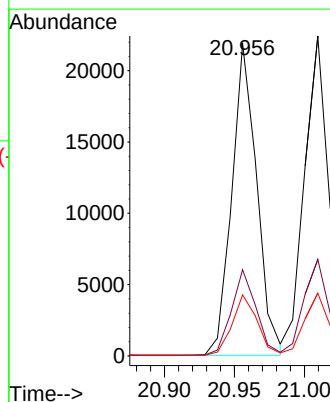
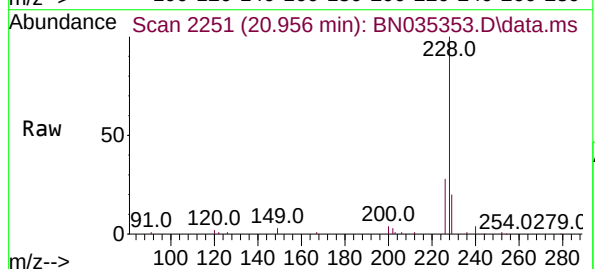
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

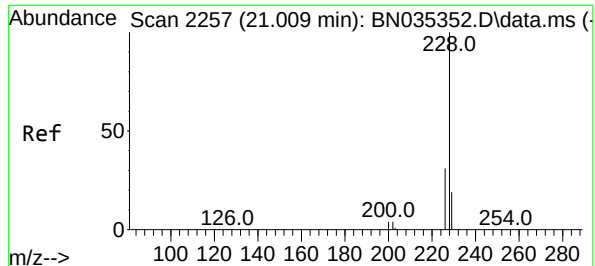
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.5 15.8 23.8





#33

Chrysene

Concen: 0.820 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

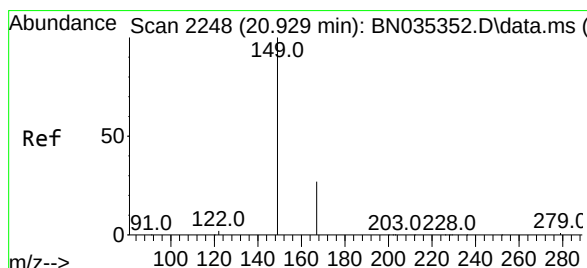
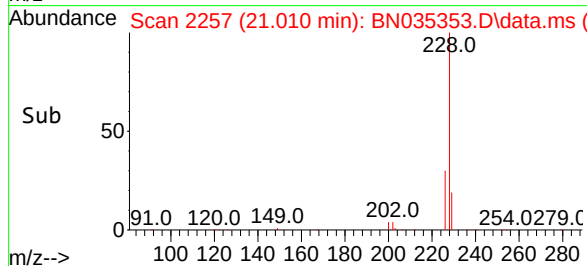
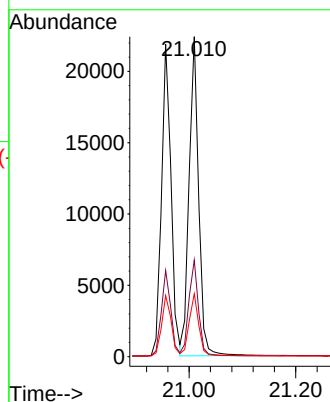
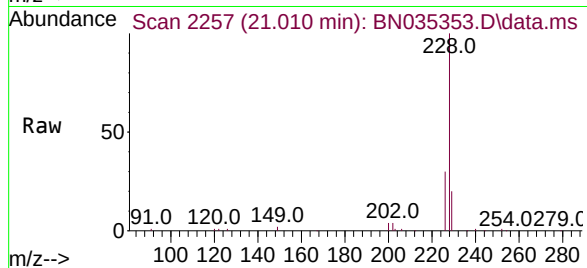
Tgt Ion:228 Resp: 27838

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.553 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

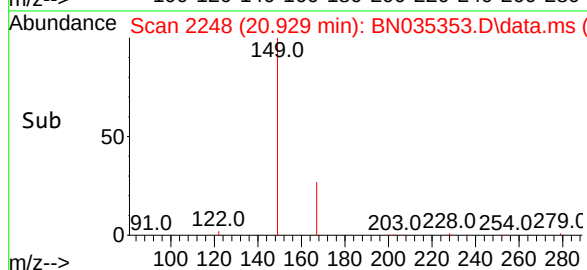
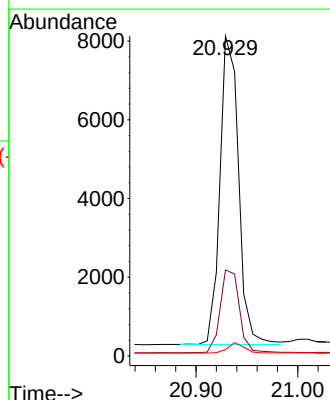
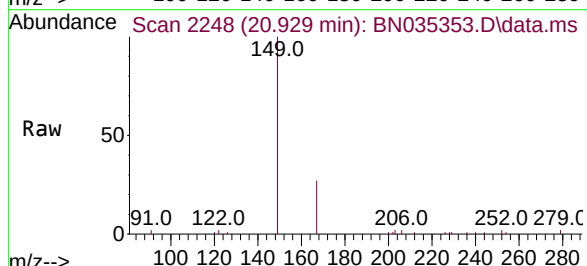
Tgt Ion:149 Resp: 9941

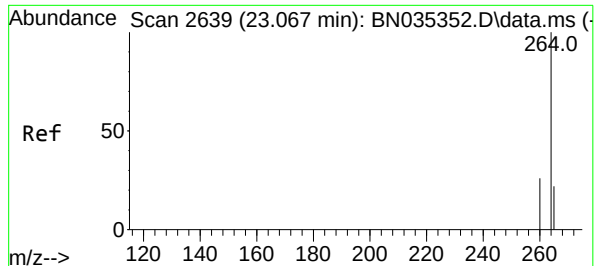
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035353.D

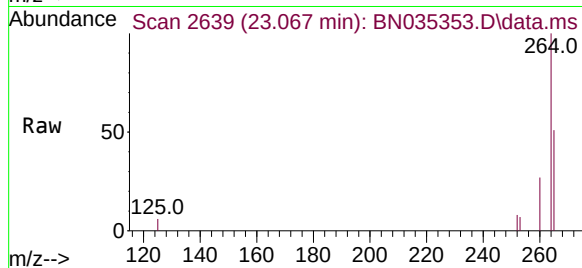
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



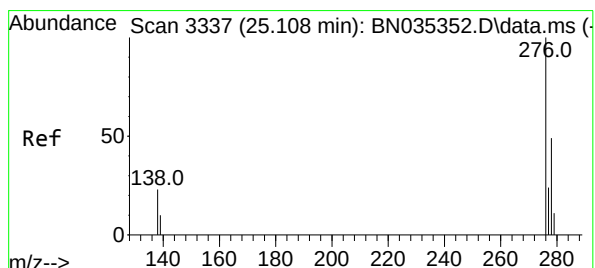
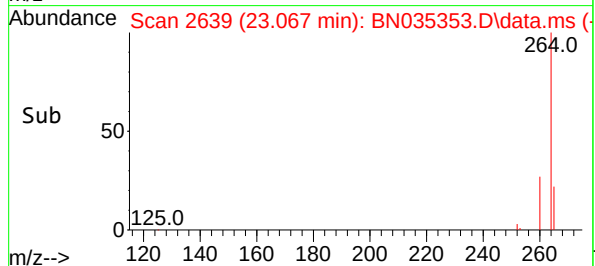
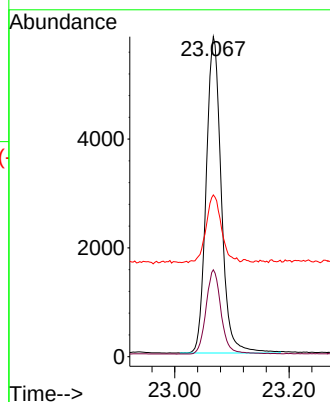
Tgt Ion:264 Resp: 10698

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.6 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.779 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

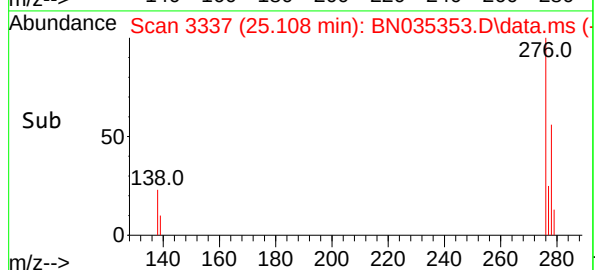
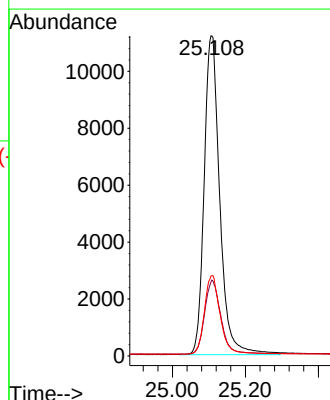
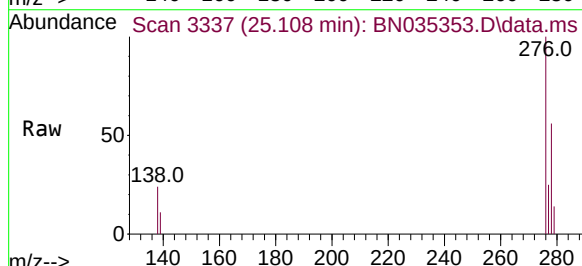
Tgt Ion:276 Resp: 33248

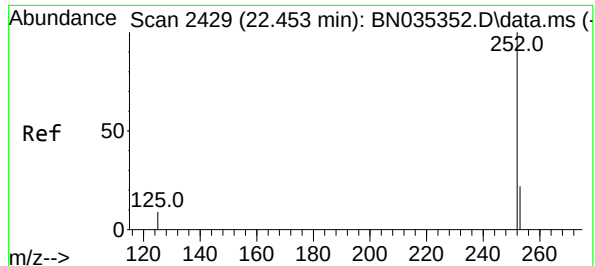
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.819 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

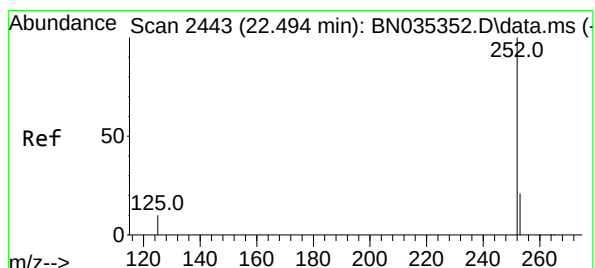
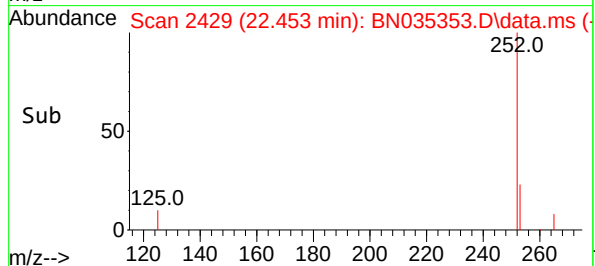
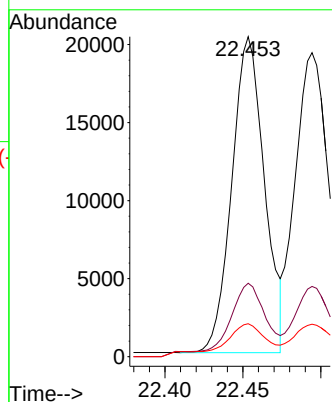
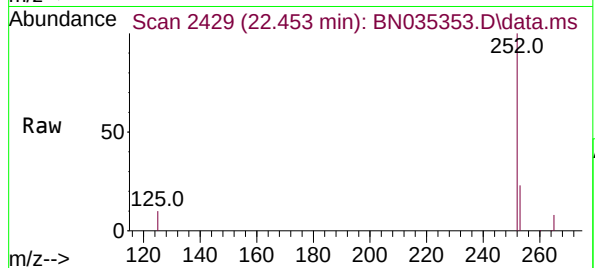
Tgt Ion:252 Resp: 29491

Ion Ratio Lower Upper

252 100

253 22.9 19.6 29.4

125 10.3 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.843 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

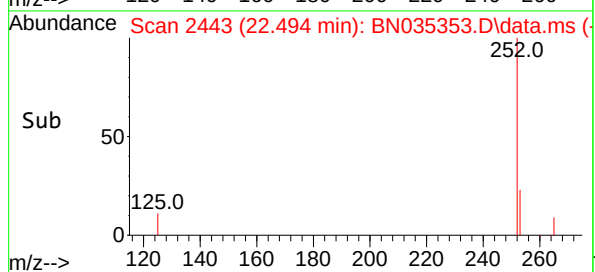
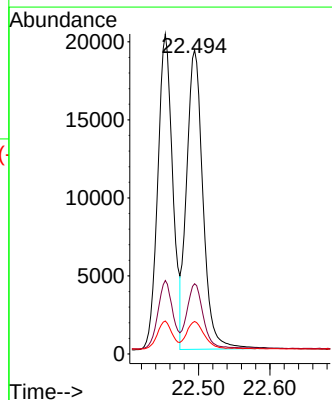
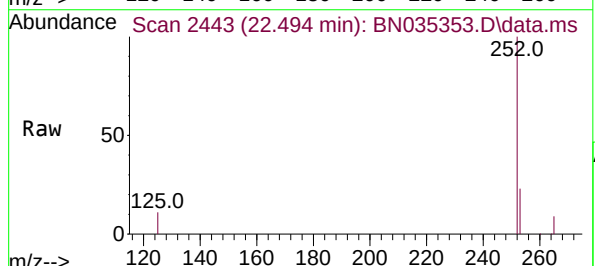
Tgt Ion:252 Resp: 30369

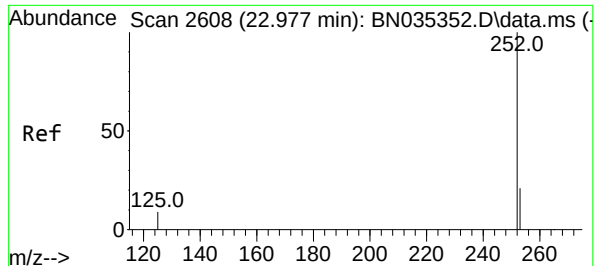
Ion Ratio Lower Upper

252 100

253 23.1 19.5 29.3

125 10.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.791 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

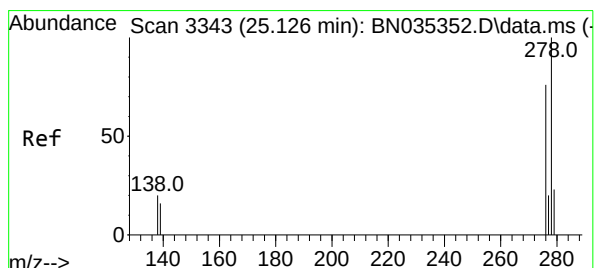
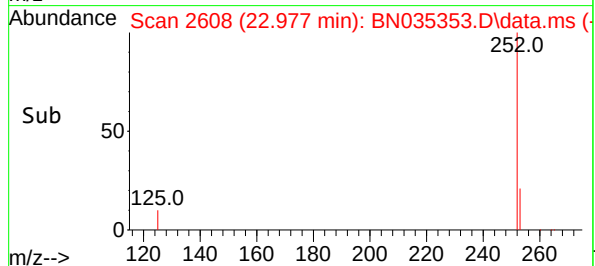
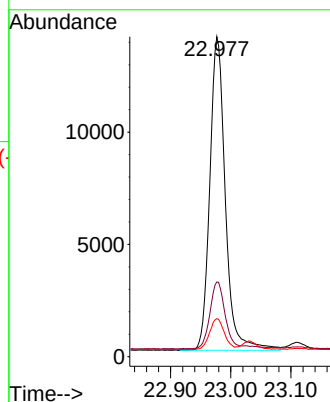
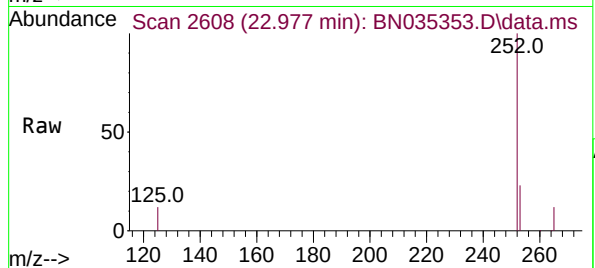
Tgt Ion:252 Resp: 25053

Ion Ratio Lower Upper

252 100

253 23.3 20.2 30.4

125 11.9 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.775 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

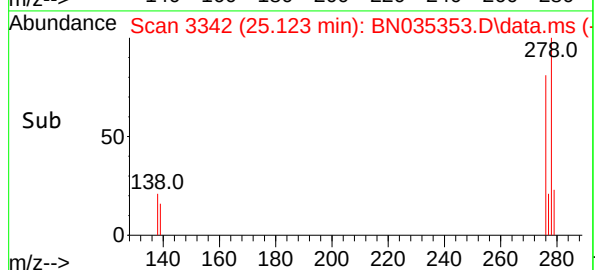
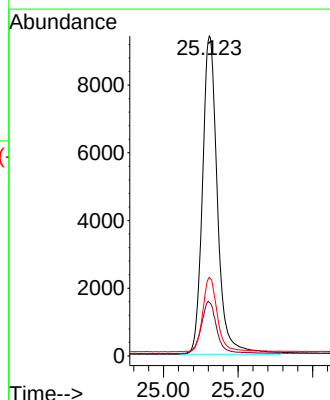
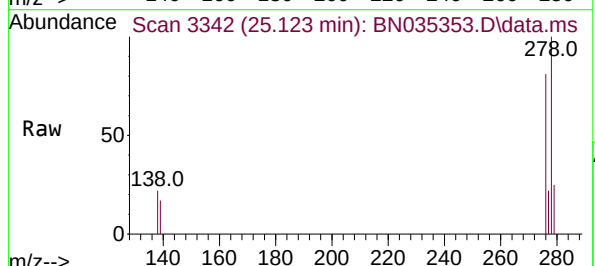
Tgt Ion:278 Resp: 26222

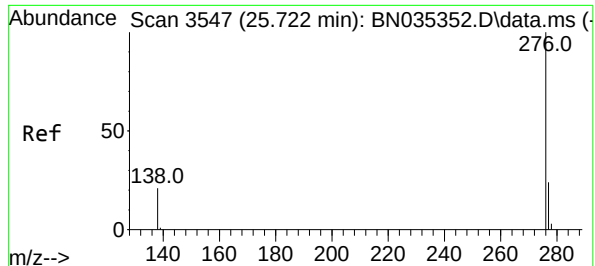
Ion Ratio Lower Upper

278 100

139 16.7 14.2 21.4

279 24.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.755 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035353.D

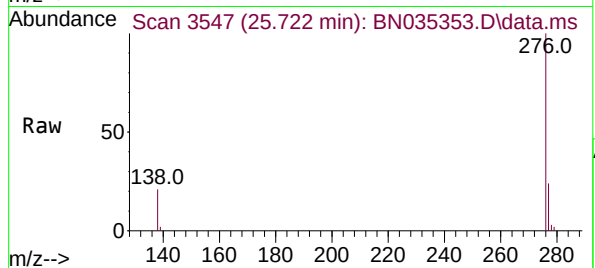
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



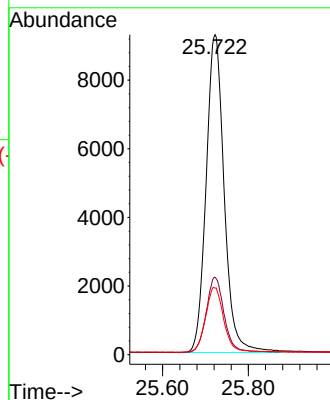
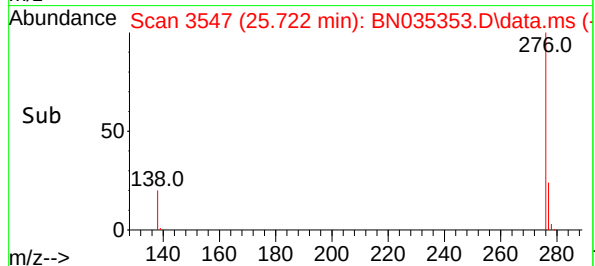
Tgt Ion:276 Resp: 27143

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 20.8 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035354.D
 Acq On : 27 Nov 2024 17:57
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

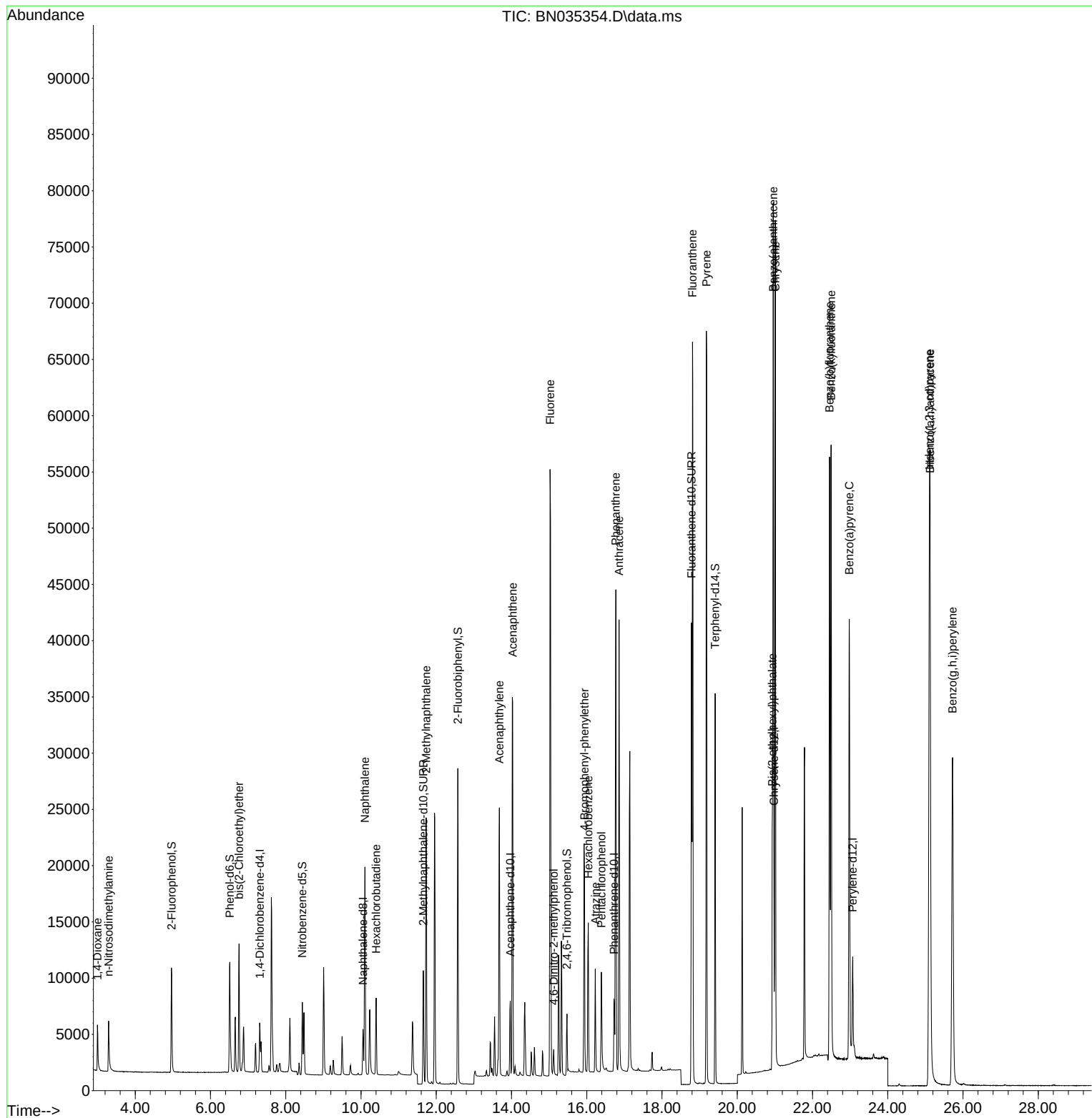
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng	0.00
35) Perylene-d12	23.067	264	10469	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	8194	1.572	ng	0.00
5) Phenol-d6	6.513	99	10139	1.552	ng	0.00
8) Nitrobenzene-d5	8.440	82	5450	1.179	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	13988	1.478	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	4615	1.623	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	24687	1.542	ng	0.00
27) Fluoranthene-d10	18.785	212	44338	1.521	ng	0.00
31) Terphenyl-d14	19.412	244	32174	1.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	3220	1.727	ng	99
3) n-Nitrosodimethylamine	3.292	42	2729	1.570	ng	# 97
6) bis(2-Chloroethyl)ether	6.759	93	8629	1.759	ng	100
9) Naphthalene	10.105	128	23280	1.680	ng	98
10) Hexachlorobutadiene	10.404	225	5409	1.331	ng	# 100
12) 2-Methylnaphthalene	11.732	142	16881	1.651	ng	98
16) Acenaphthylene	13.679	152	27389	1.626	ng	99
17) Acenaphthene	14.032	154	18061	1.636	ng	99
18) Fluorene	15.026	166	26044	1.604	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	1947	0.983	ng	# 69
21) 4-Bromophenyl-phenylether	15.941	248	9493	1.566	ng	96
22) Hexachlorobenzene	16.041	284	10969	1.743	ng	100
23) Atrazine	16.227	200	6644	1.221	ng	96
24) Pentachlorophenol	16.388	266	4618	1.571	ng	# 85
25) Phenanthrene	16.773	178	43698	1.745	ng	100
26) Anthracene	16.860	178	39964	1.737	ng	99
28) Fluoranthene	18.813	202	58605	1.702	ng	100
30) Pyrene	19.180	202	60164	1.824	ng	100
32) Benzo(a)anthracene	20.956	228	57498	1.667	ng	100
33) Chrysene	21.010	228	58919	1.725	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	20598	1.138	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	69517	1.665	ng	99
37) Benzo(b)fluoranthene	22.454	252	76506	2.172	ng	95
38) Benzo(k)fluoranthene	22.494	252	63925	1.814	ng	# 95
39) Benzo(a)pyrene	22.977	252	52595	1.697	ng	# 94
40) Dibenzo(a,h)anthracene	25.126	278	55068	1.664	ng	96
41) Benzo(g,h,i)perylene	25.719	276	56947	1.618	ng	97

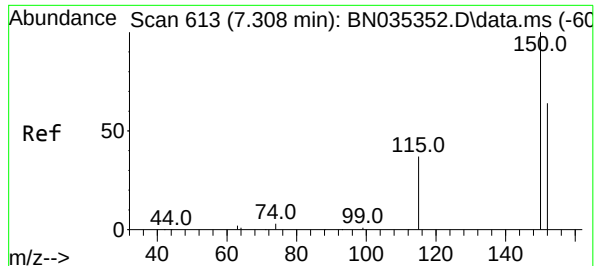
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

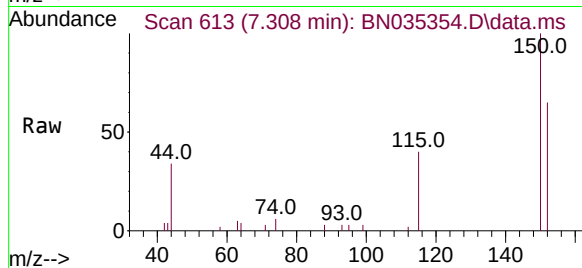
Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



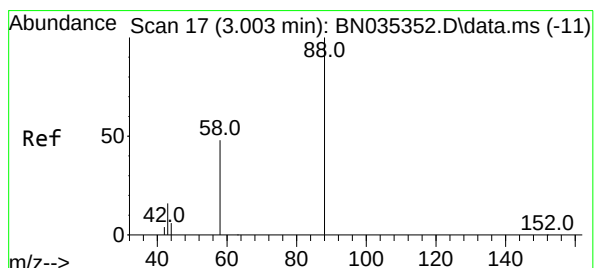
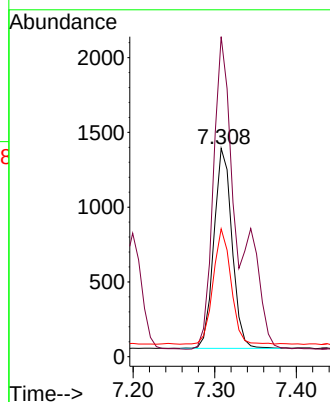
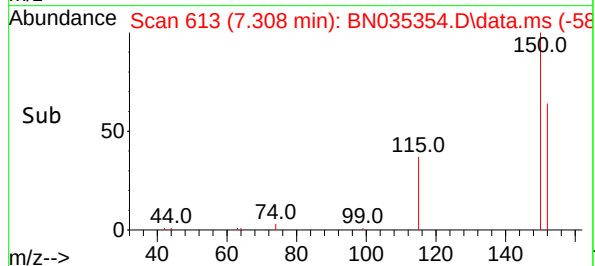


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

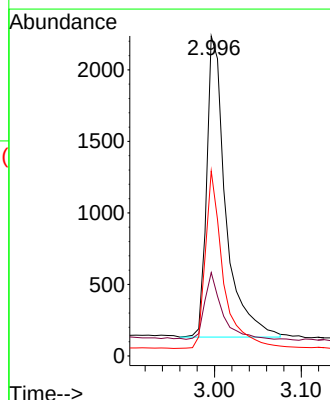
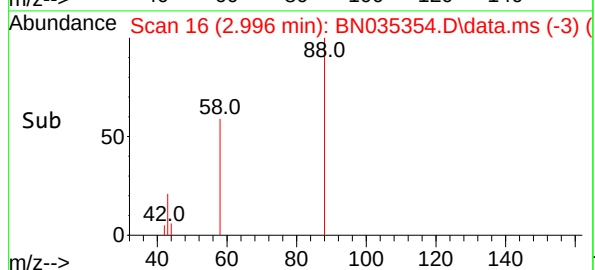
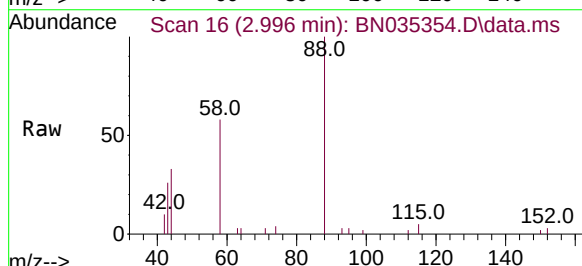


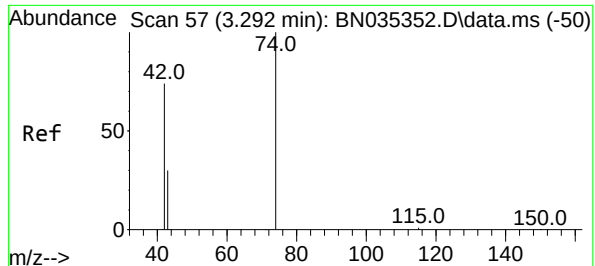
Tgt Ion:152 Resp: 2053
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 61.4 49.6 74.4



#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220
Ion Ratio Lower Upper
88 100
43 20.3 17.2 25.8
58 55.1 44.5 66.7

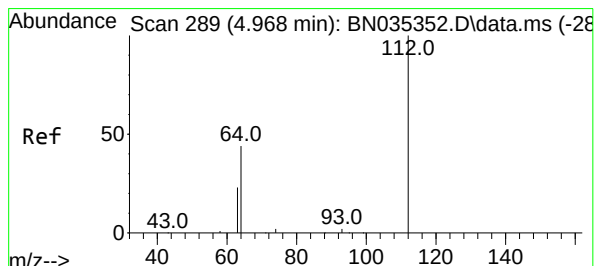
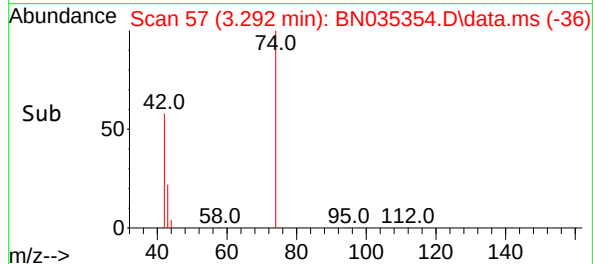
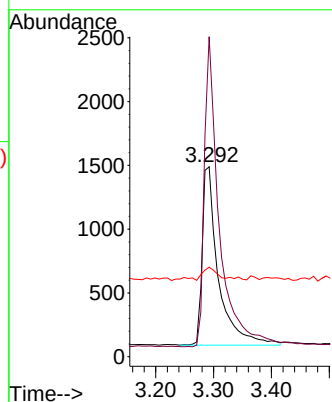
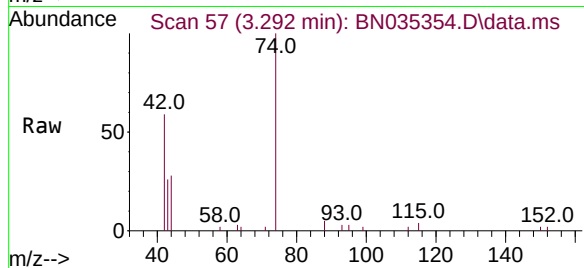




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

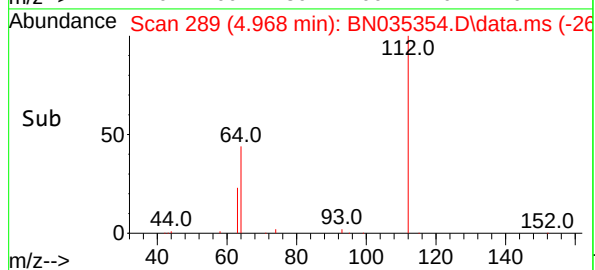
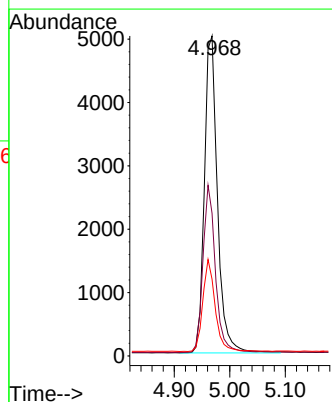
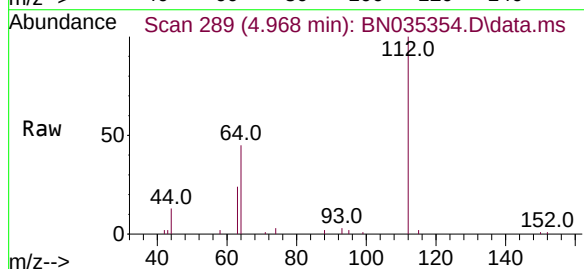
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

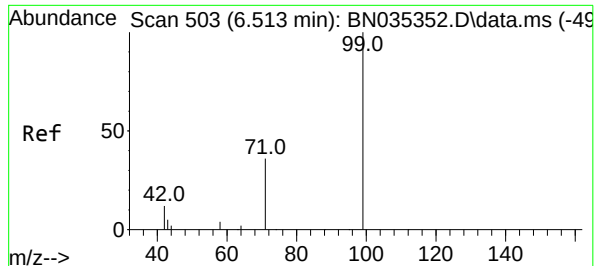
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 112 Resp: 8194
Ion Ratio Lower Upper
112 100
64 50.7 39.8 59.8
63 27.5 21.0 31.6

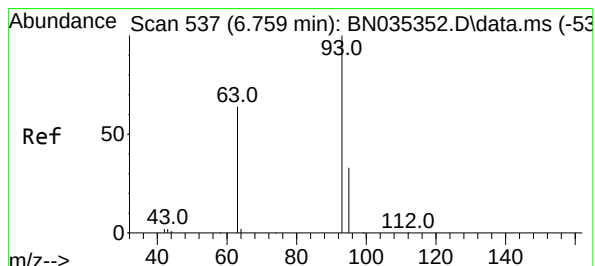
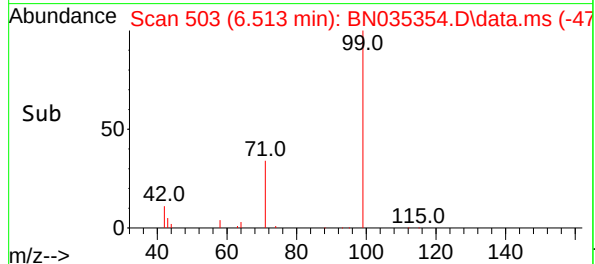
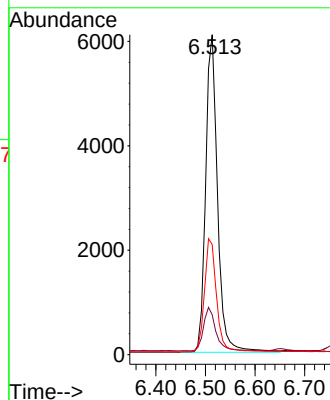
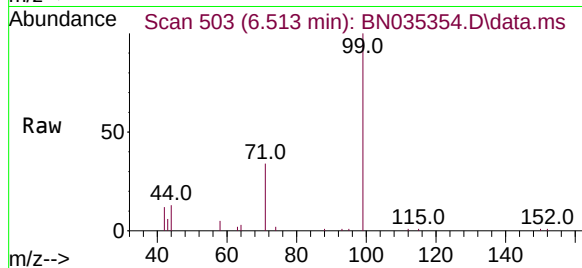




#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

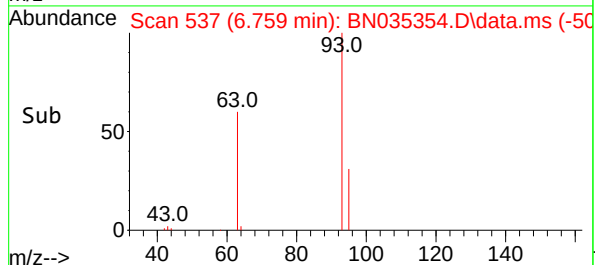
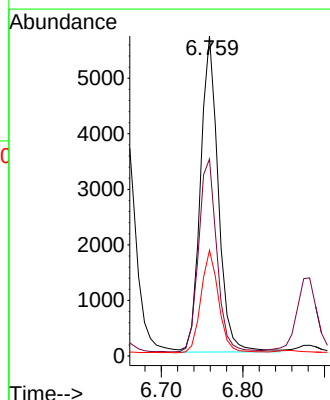
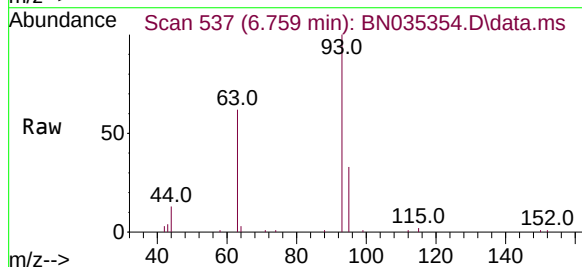
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

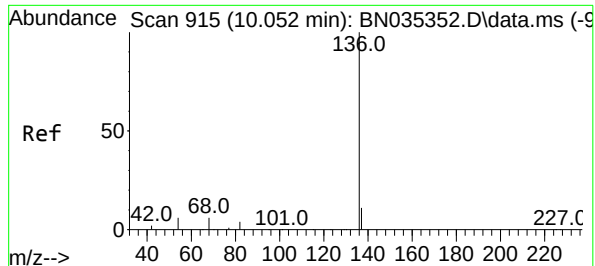
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5

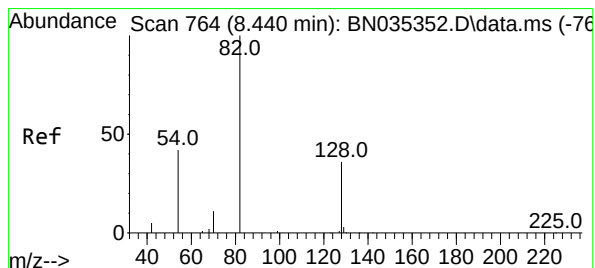
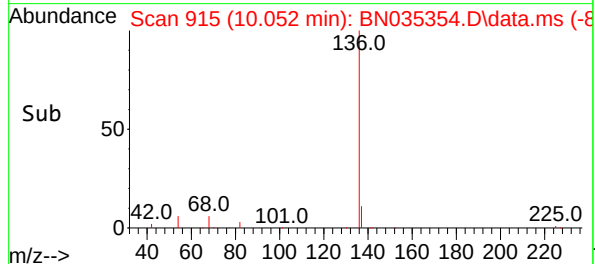
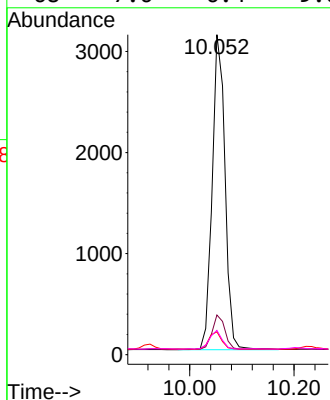
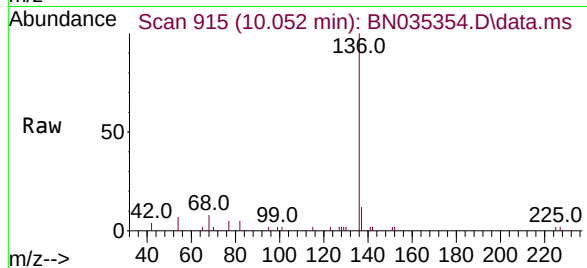




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

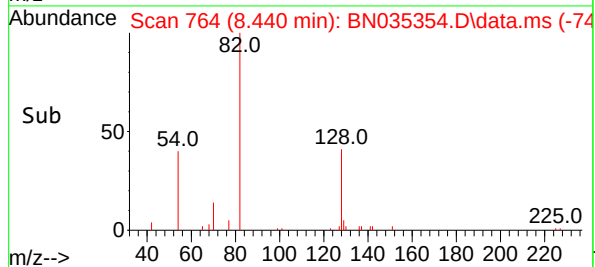
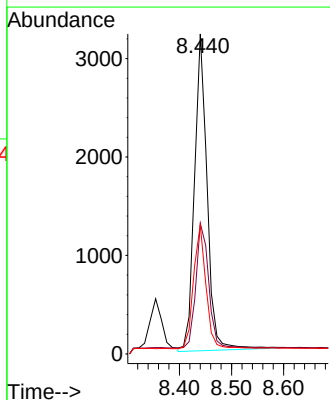
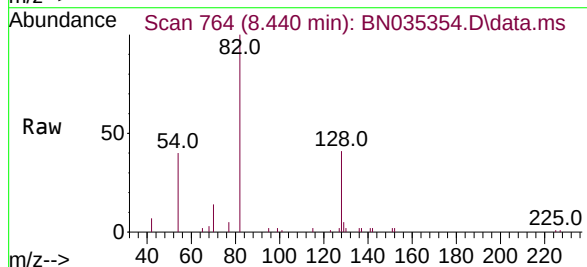
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

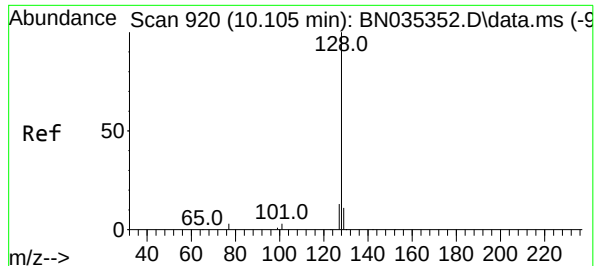
Tgt Ion:	136	Resp:	5309
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:	82	Resp:	5450
Ion	Ratio	Lower	Upper
82	100		
128	40.8	33.4	50.0
54	40.3	36.7	55.1



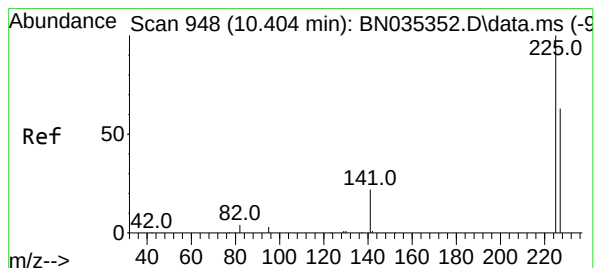
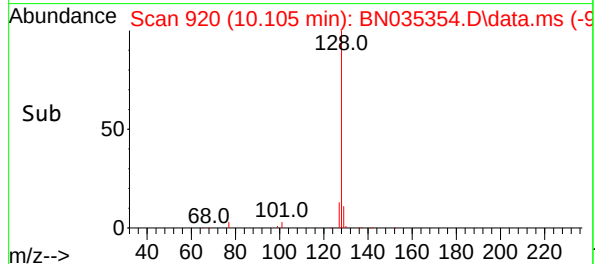
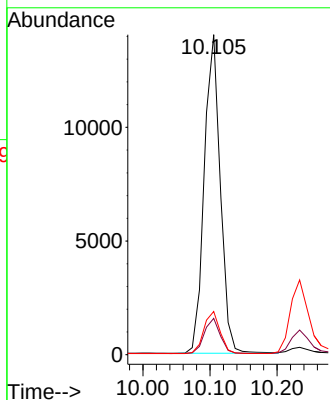
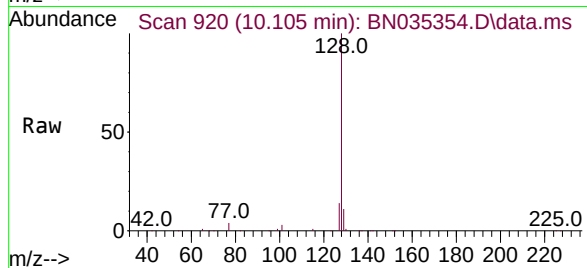


#9
Naphthalene

Concen: 1.680 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

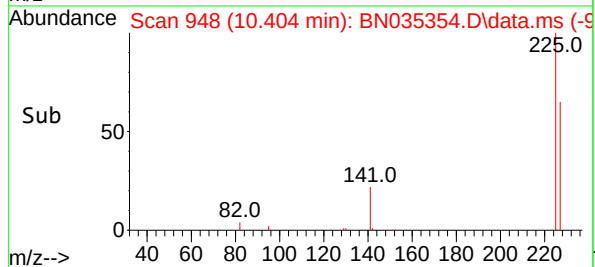
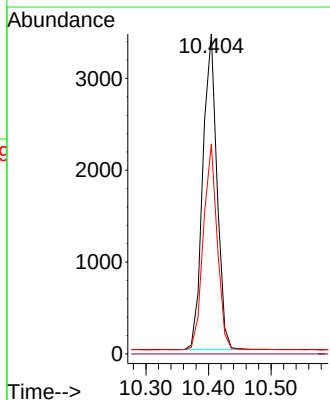
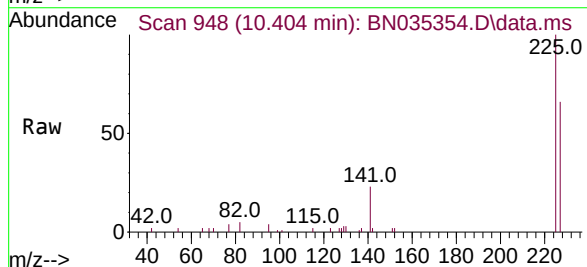
Tgt Ion	128	129	127
Resp:	23280		
Ion Ratio	100	11.4	13.5
Lower		9.8	11.4
Upper		14.6	17.2

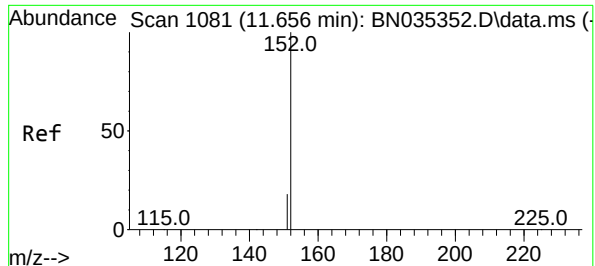


#10

Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	225	223	227
Resp:	5409		
Ion Ratio	100	0.0	63.9
Lower		0.0	51.3
Upper		0.0	76.9

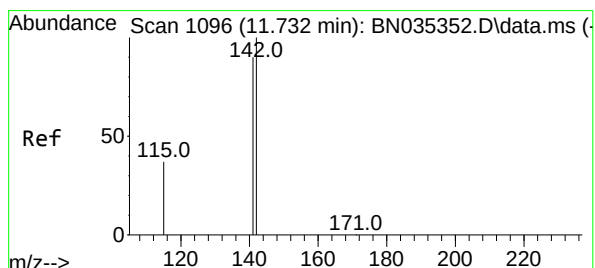
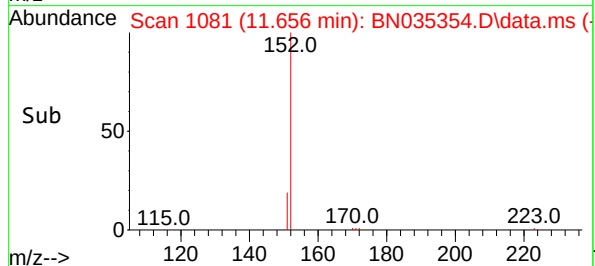
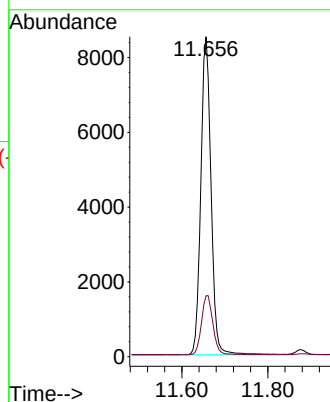
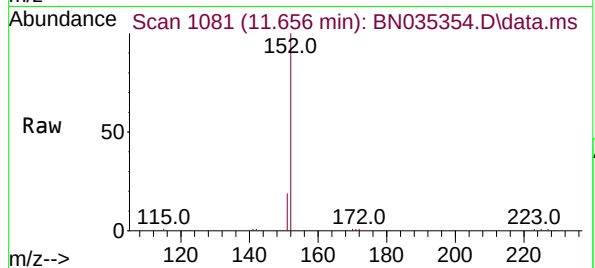




#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

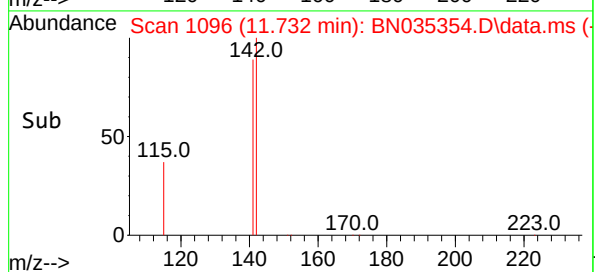
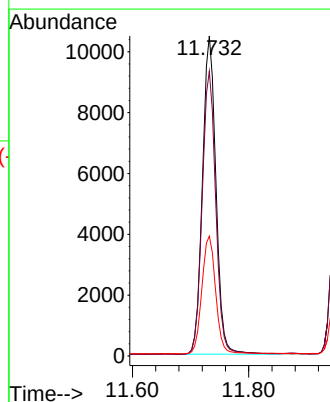
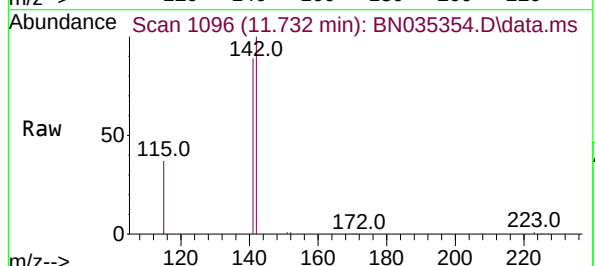
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

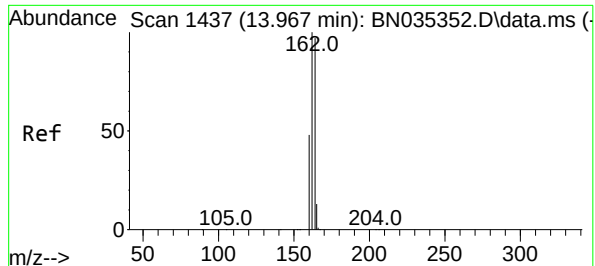
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 37.5 31.4 47.0

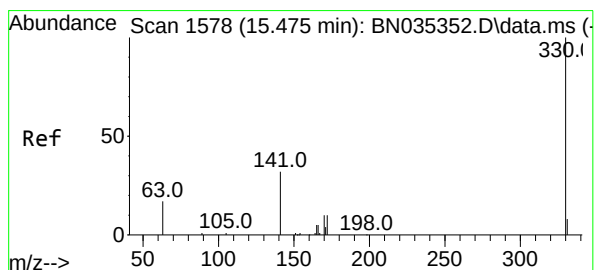
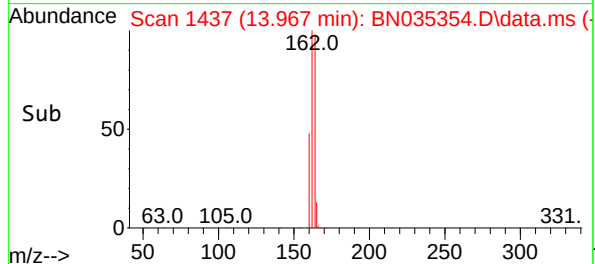
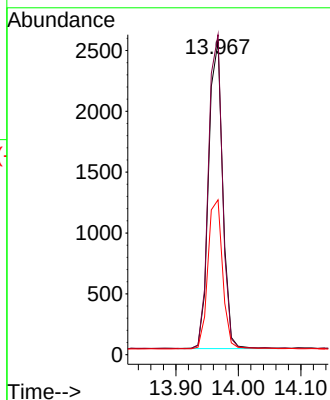
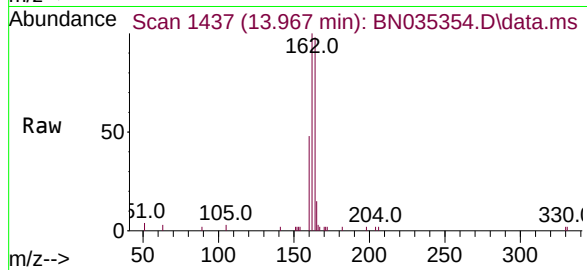




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

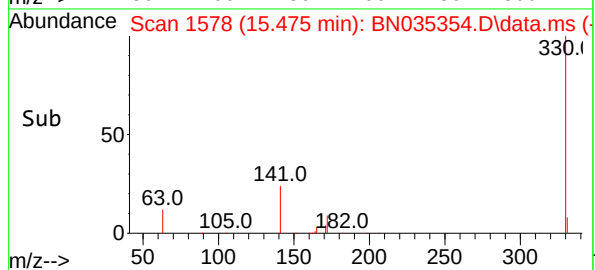
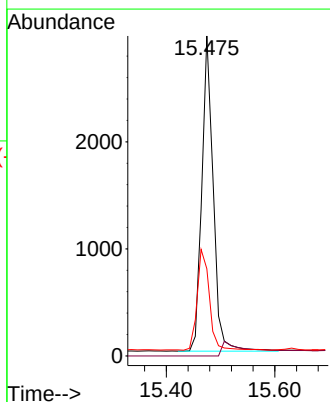
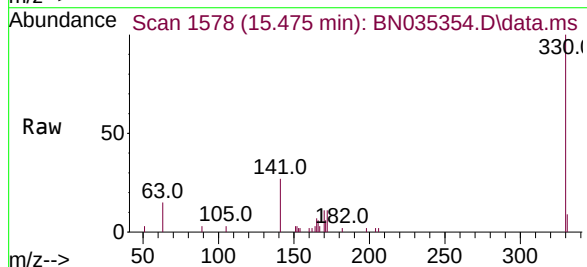
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

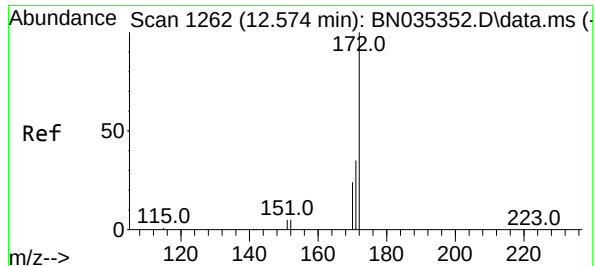
Tgt Ion:164 Resp: 3942
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 49.5 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.6 26.6 40.0

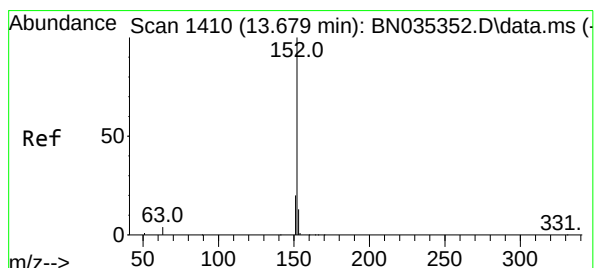
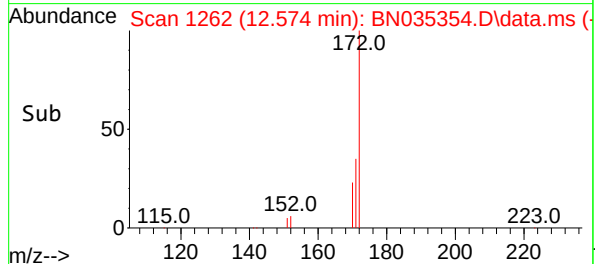
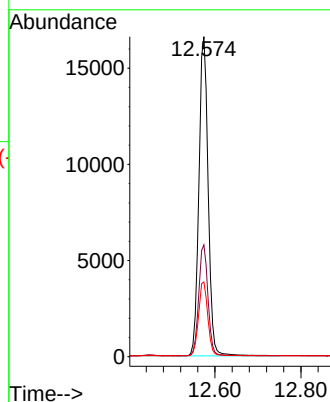
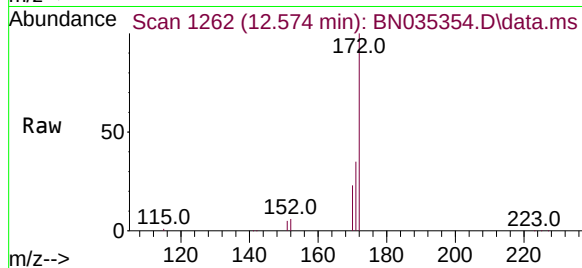




#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

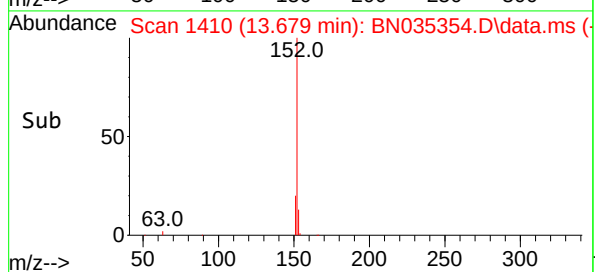
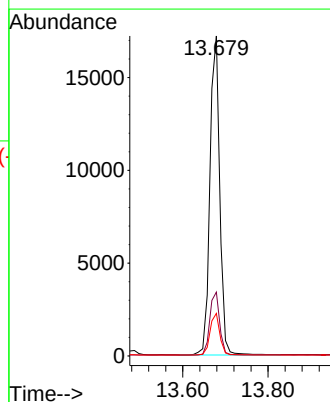
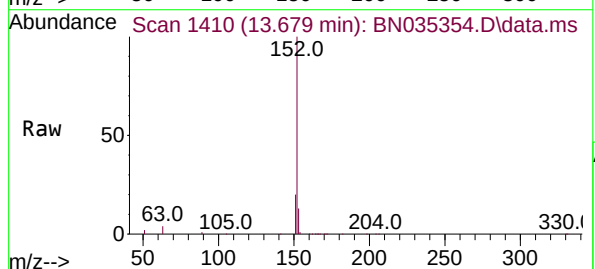
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

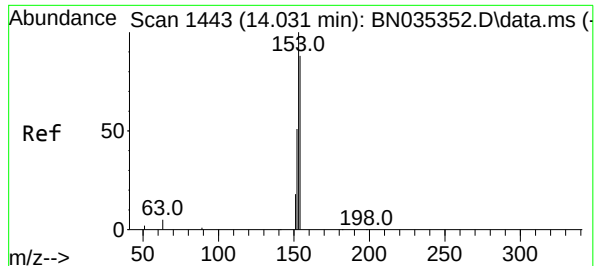
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8



#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6

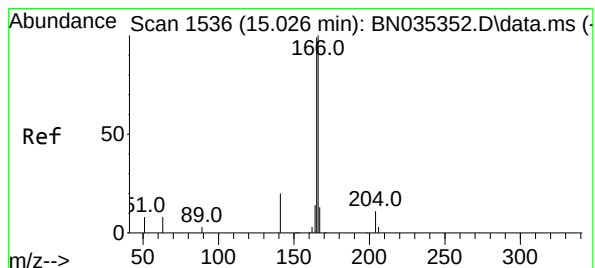
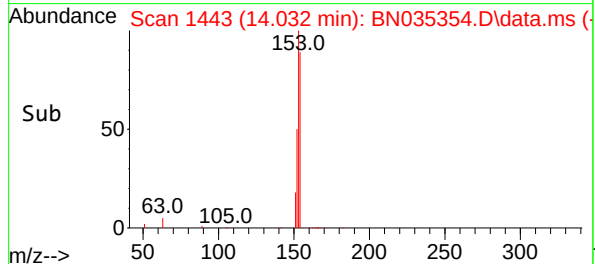
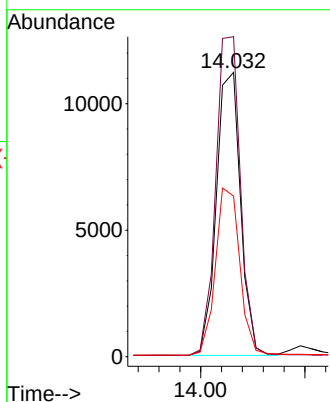
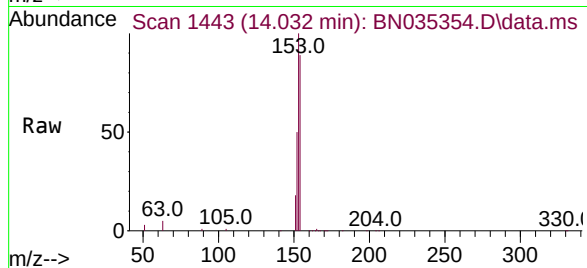




#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

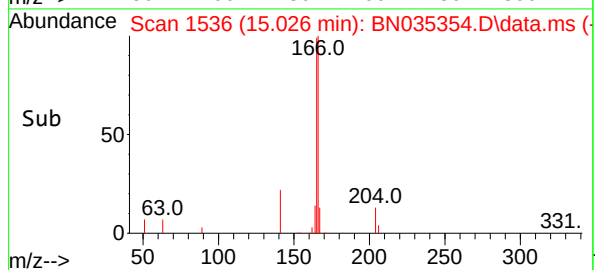
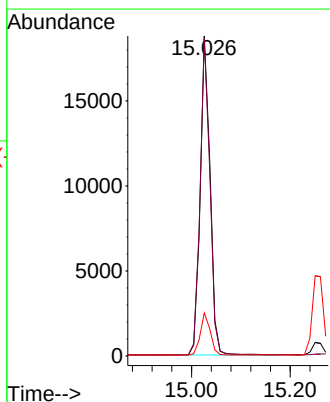
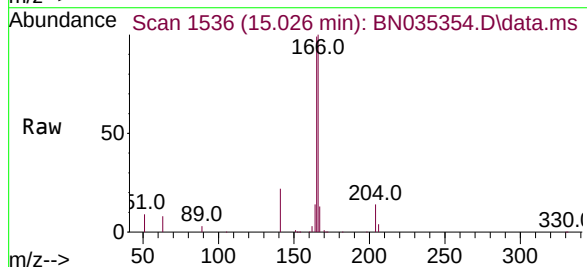
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

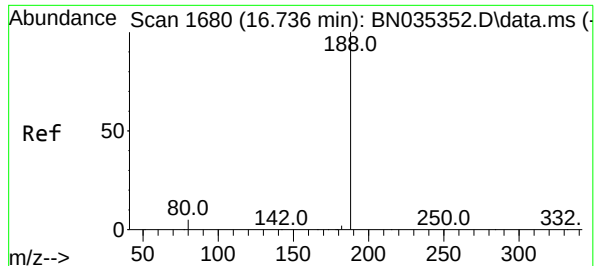
Tgt Ion:154 Resp: 18061
Ion Ratio Lower Upper
154 100
153 115.1 92.6 139.0
152 59.9 49.0 73.6



#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044
Ion Ratio Lower Upper
166 100
165 98.2 79.7 119.5
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

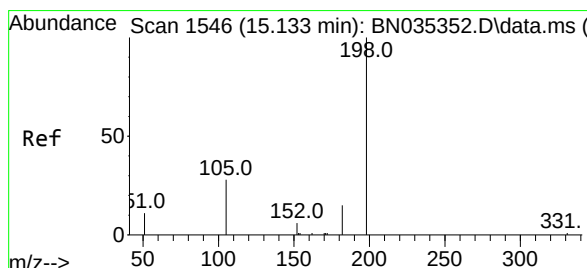
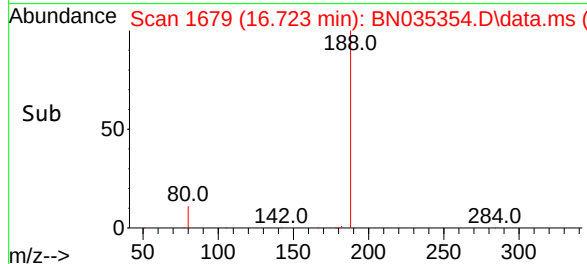
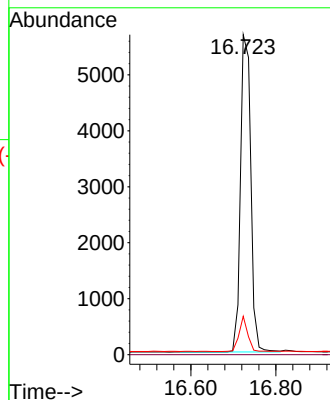
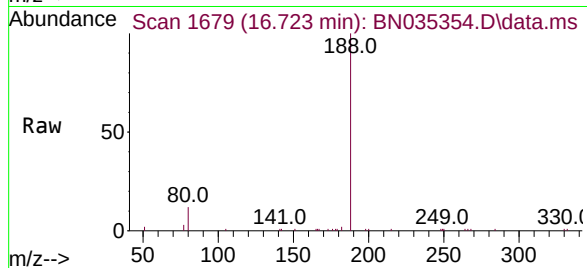
Tgt Ion:188 Resp: 9517

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.0 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.983 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

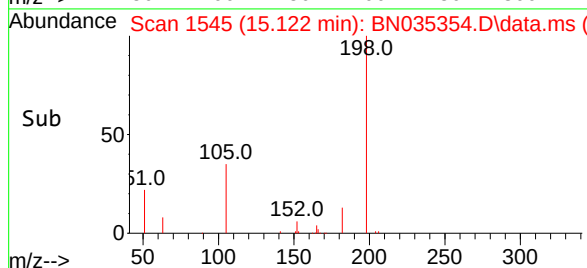
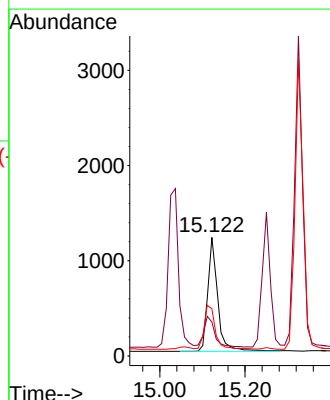
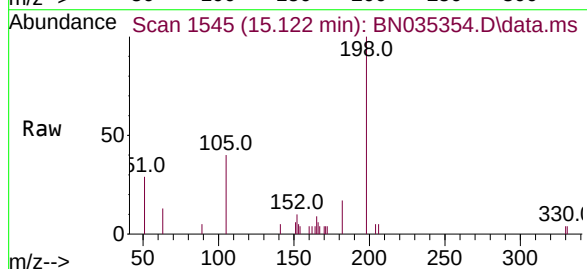
Tgt Ion:198 Resp: 1947

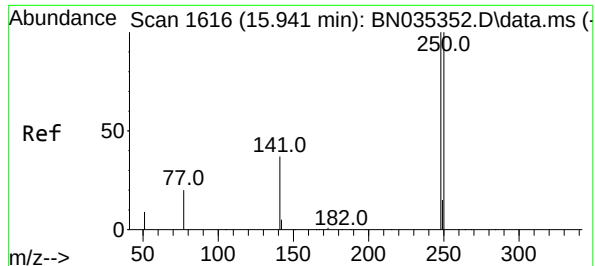
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

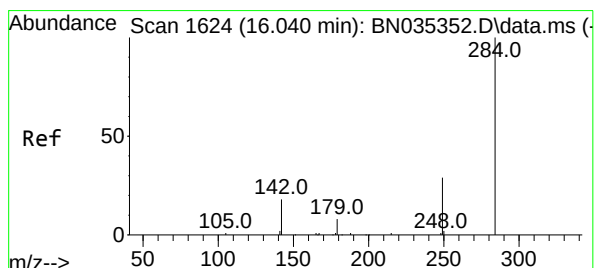
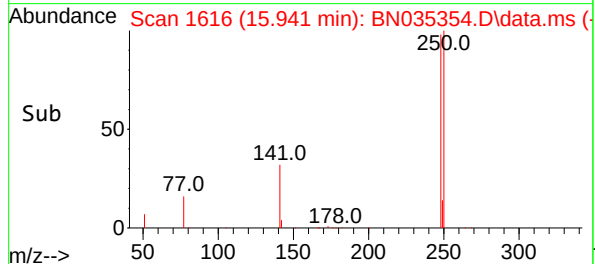
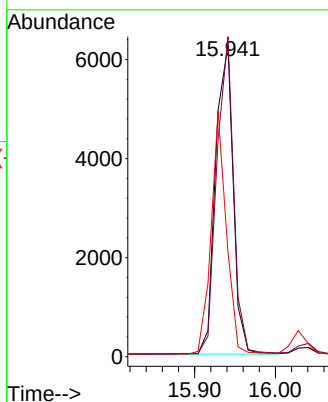
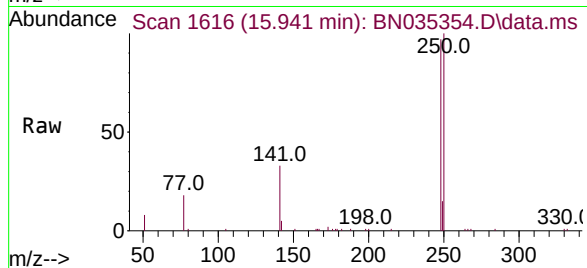




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

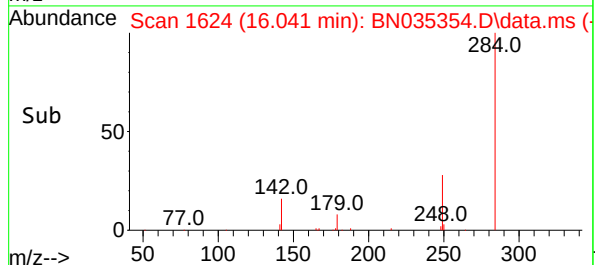
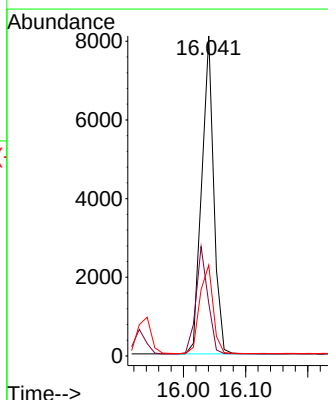
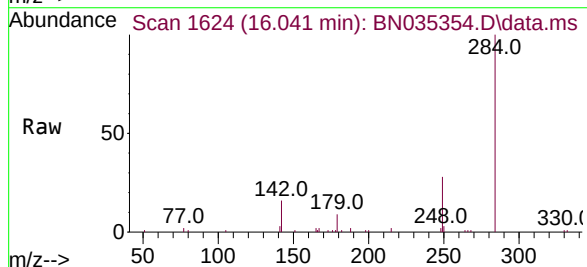
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

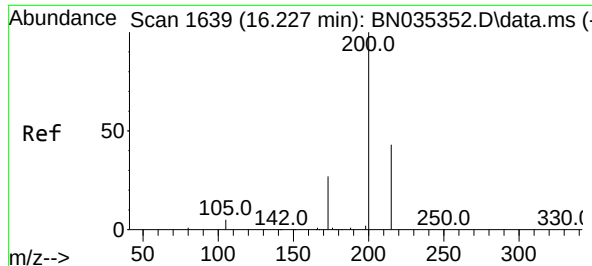
Tgt Ion	248	250	141
Resp:	9493		
Ion Ratio	100	102.7	33.7
Lower		80.6	31.5
Upper		120.8	47.3



#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	284	142	249
Resp:	10969		
Ion Ratio	100	33.5	30.6
Lower		26.7	24.6
Upper		40.1	36.8





#23

Atrazine

Concen: 1.221 ng

RT: 16.227 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

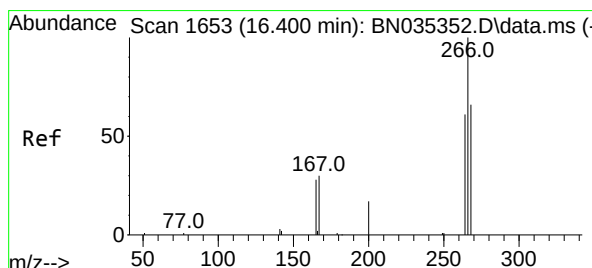
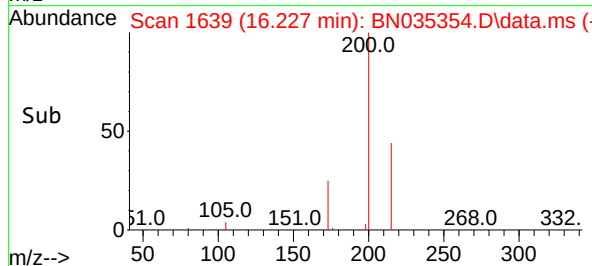
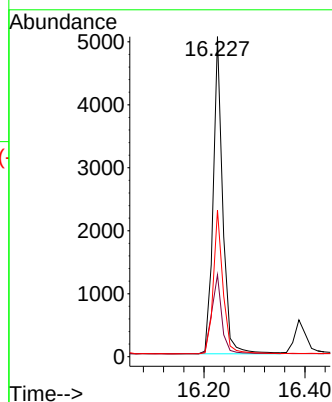
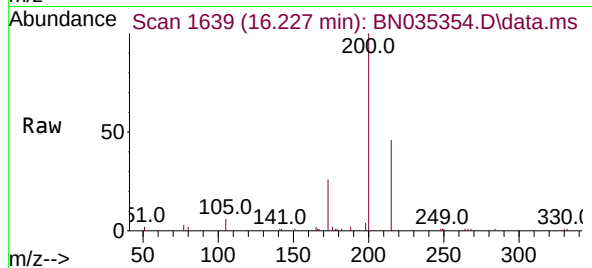
Tgt Ion:200 Resp: 6644

Ion Ratio Lower Upper

200 100

173 25.6 24.1 36.1

215 45.8 36.9 55.3



#24

Pentachlorophenol

Concen: 1.571 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

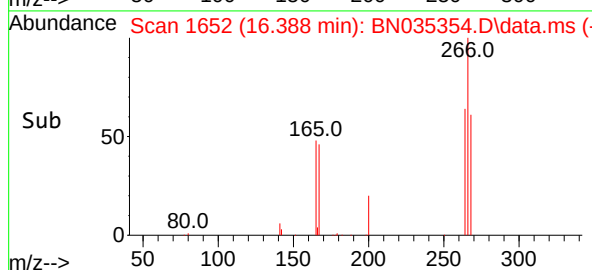
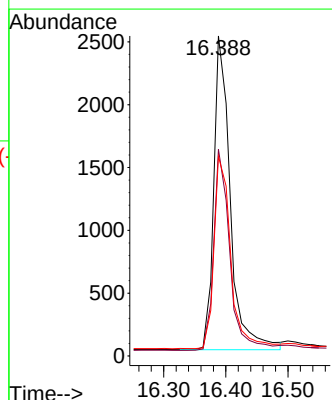
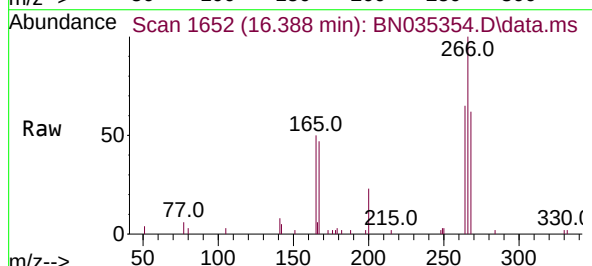
Tgt Ion:266 Resp: 4618

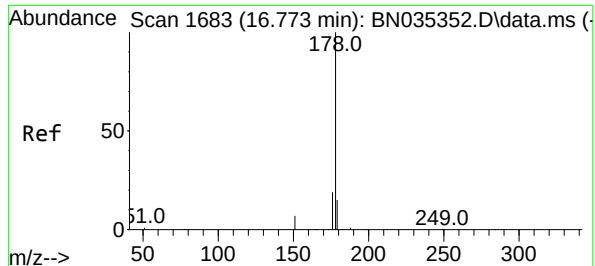
Ion Ratio Lower Upper

266 100

264 64.8 42.3 63.5#

268 62.9 43.3 64.9





#25

Phenanthrene

Concen: 1.745 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

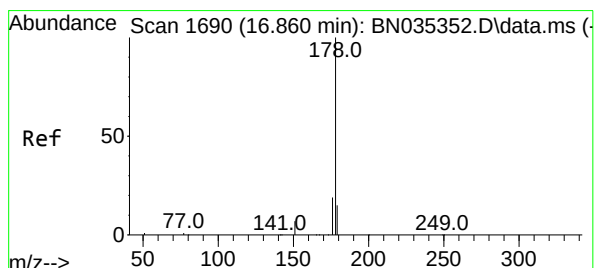
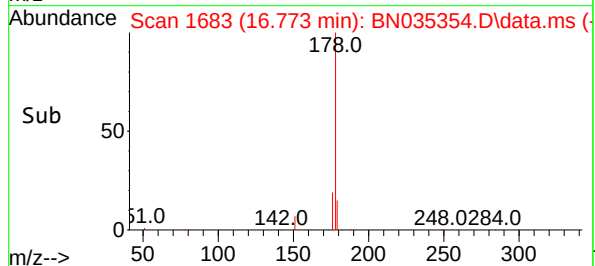
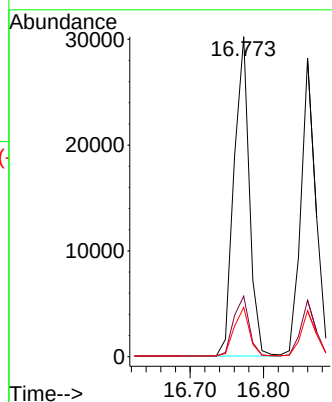
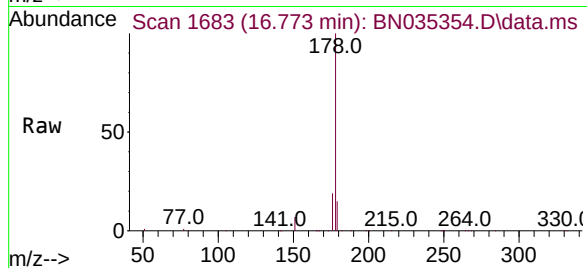
Tgt Ion:178 Resp: 43698

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.2 12.3 18.5



#26

Anthracene

Concen: 1.737 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

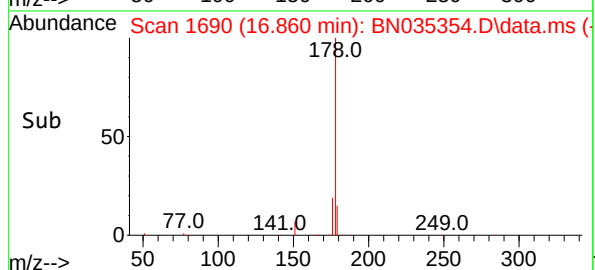
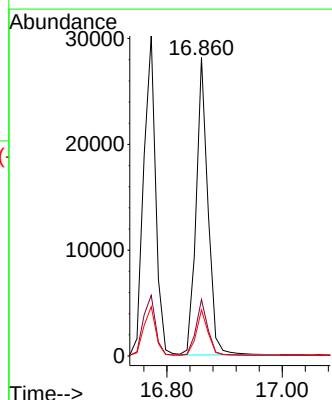
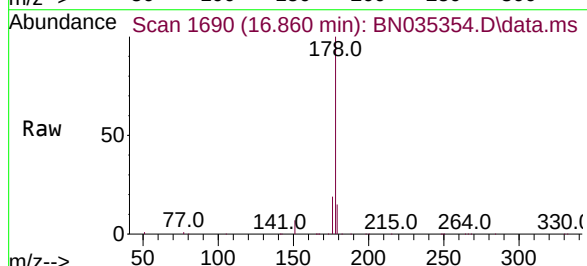
Tgt Ion:178 Resp: 39964

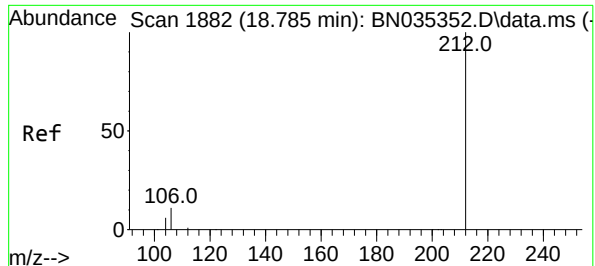
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.3 12.6 18.8

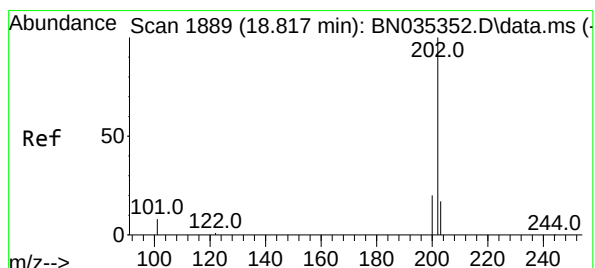
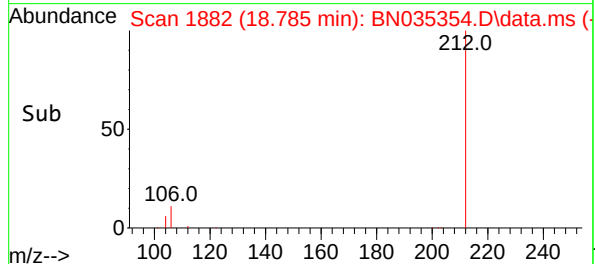
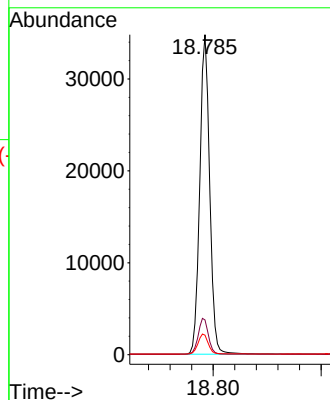
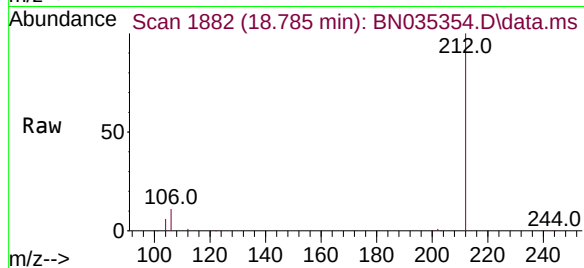




#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

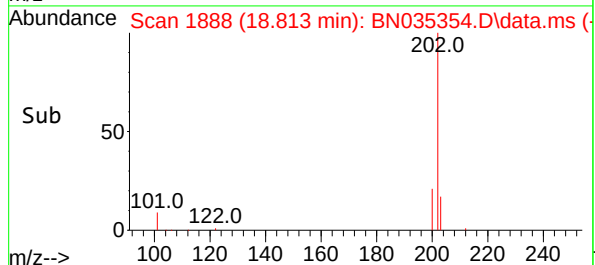
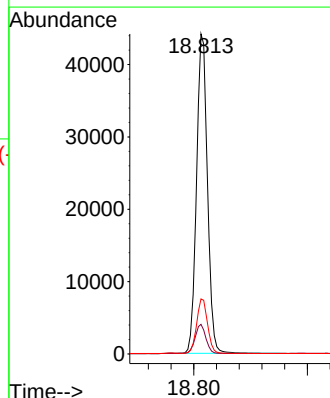
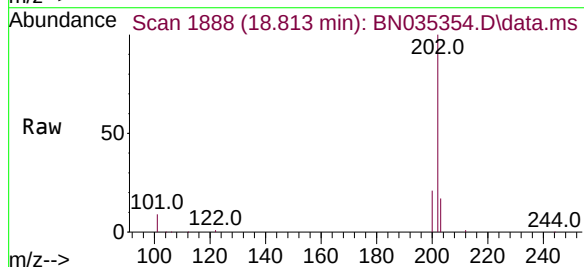
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

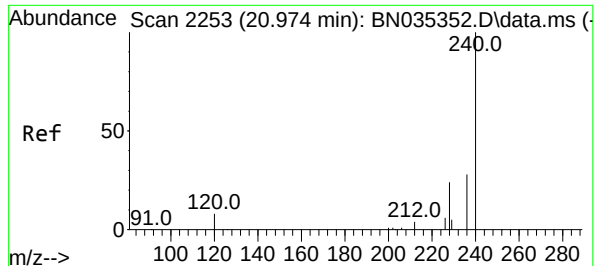
Tgt Ion:212 Resp: 44338
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.4 5.3 7.9



#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

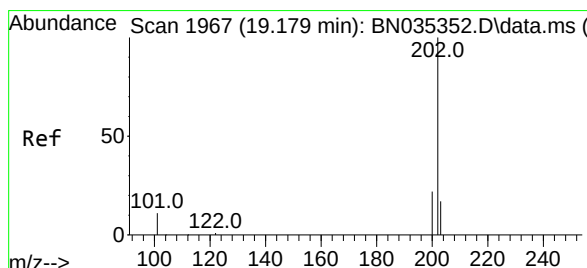
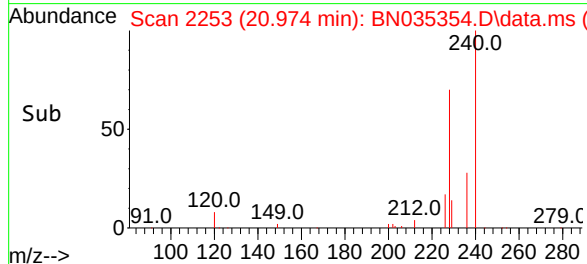
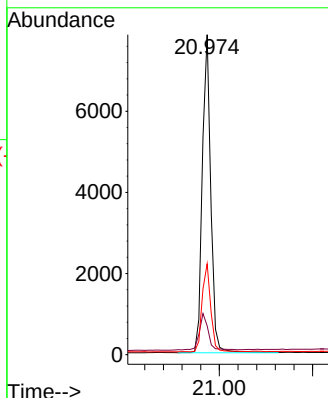
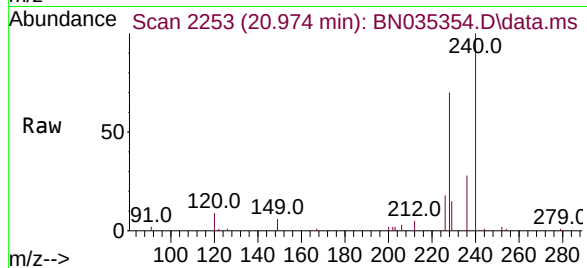
Tgt Ion:240 Resp: 9905

Ion Ratio Lower Upper

240 100

120 9.0 7.9 11.9

236 28.4 22.9 34.3



#30

Pyrene

Concen: 1.824 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

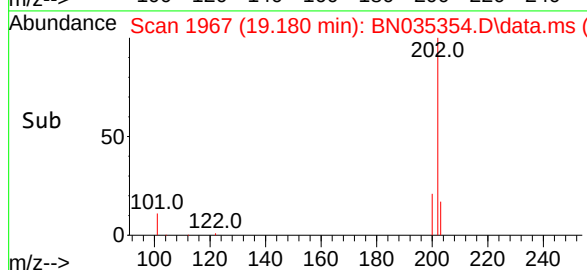
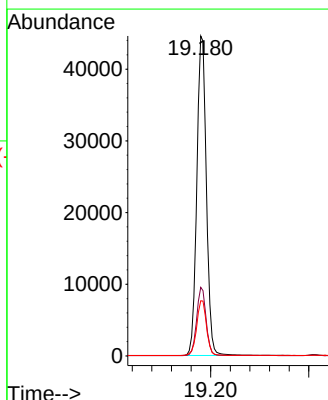
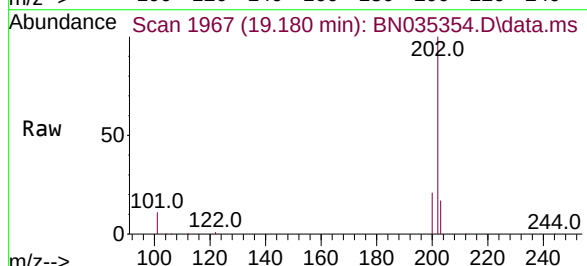
Tgt Ion:202 Resp: 60164

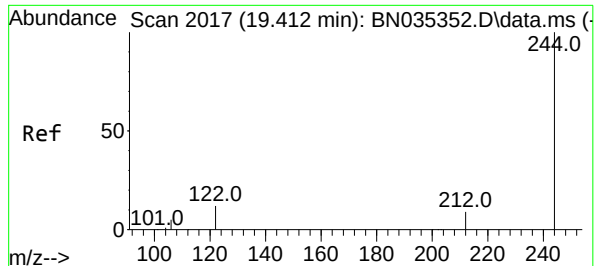
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

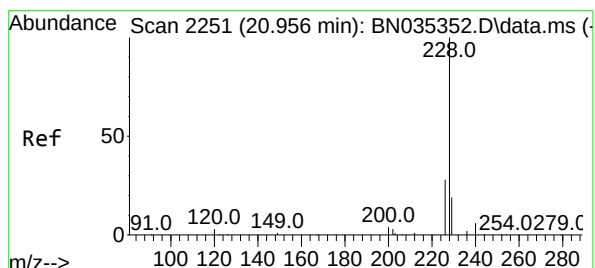
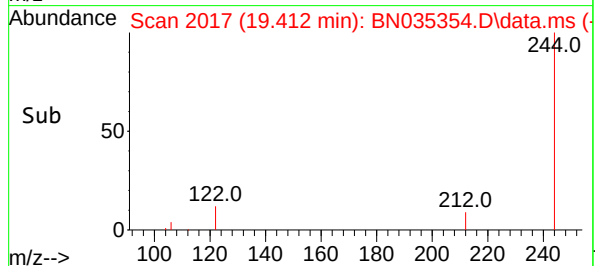
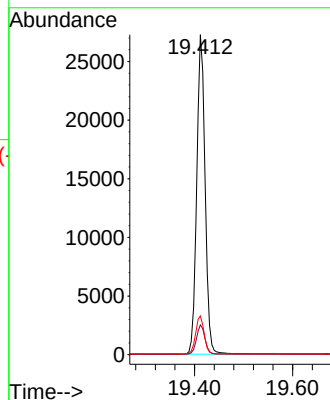
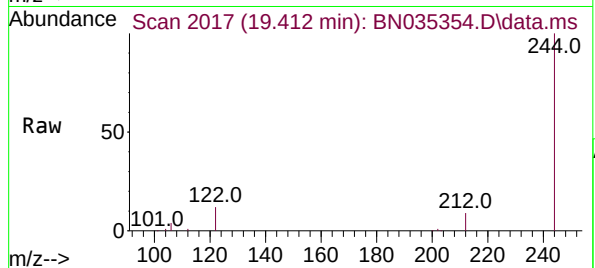




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

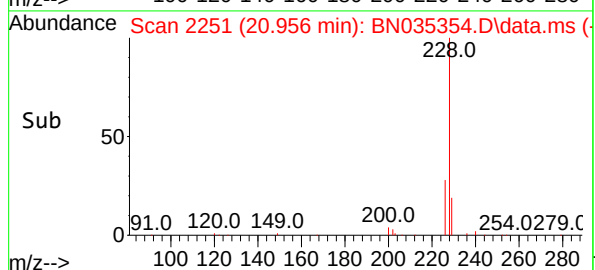
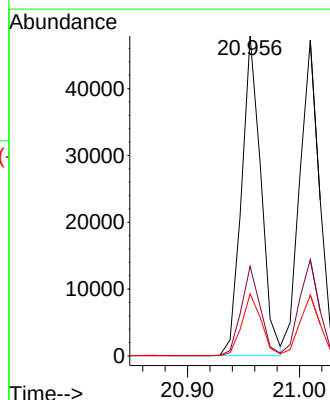
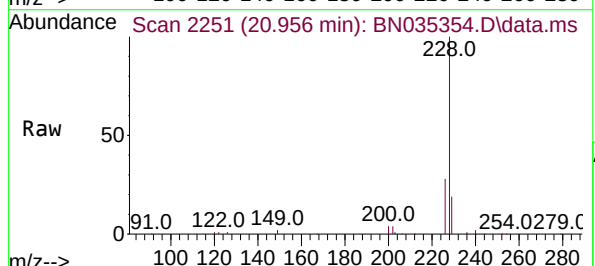
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

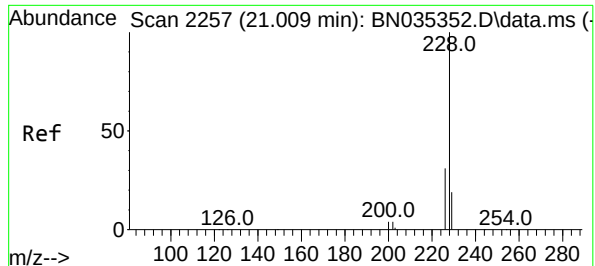
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 15.8 23.8





#33

Chrysene

Concen: 1.725 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

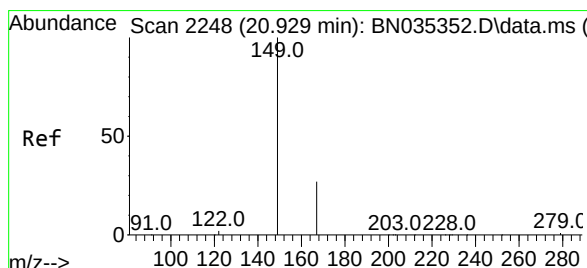
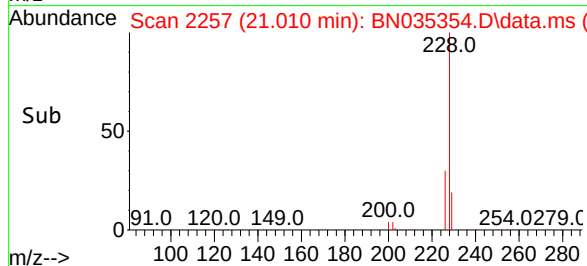
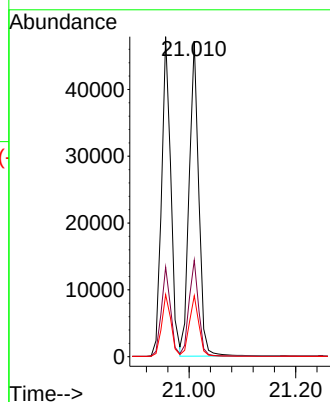
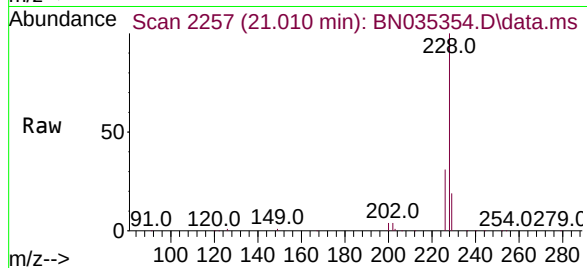
Tgt Ion:228 Resp: 58919

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.3 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.138 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

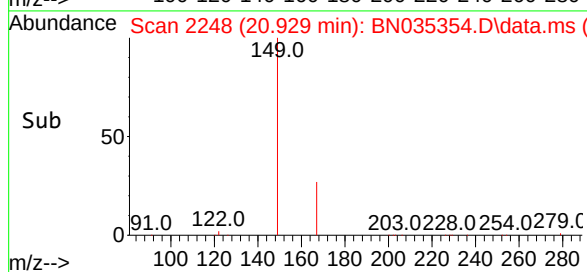
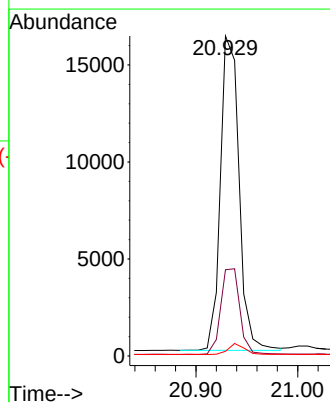
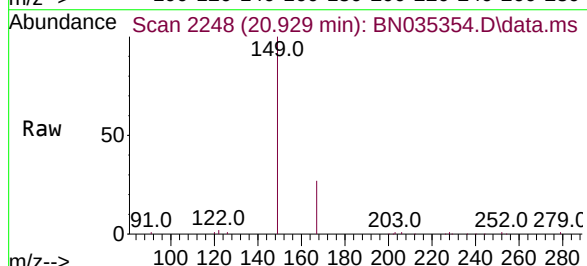
Tgt Ion:149 Resp: 20598

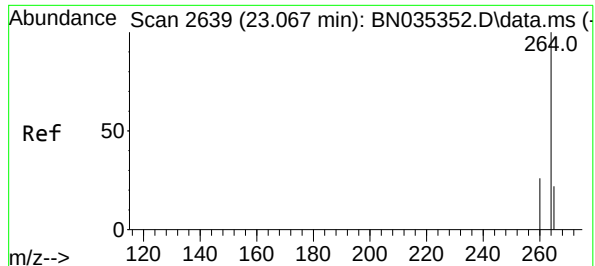
Ion Ratio Lower Upper

149 100

167 28.0 22.2 33.4

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

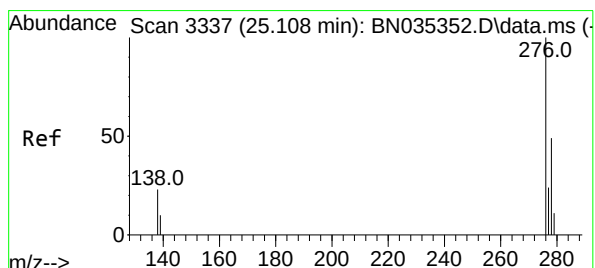
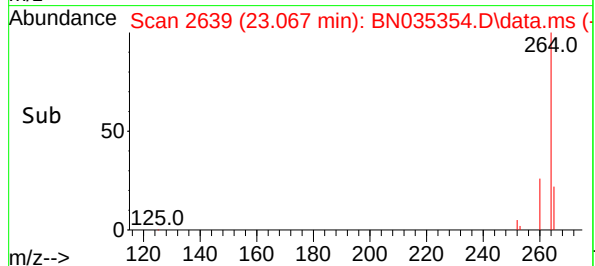
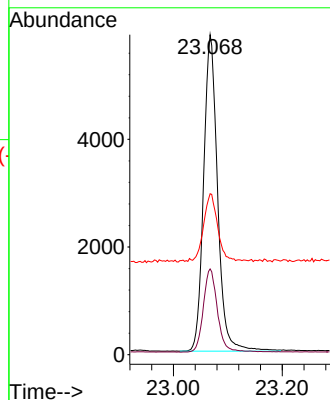
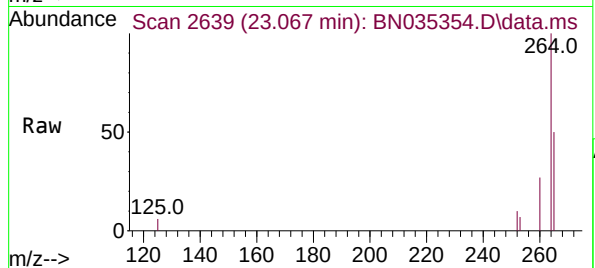
Tgt Ion:264 Resp: 10469

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 50.3 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.665 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

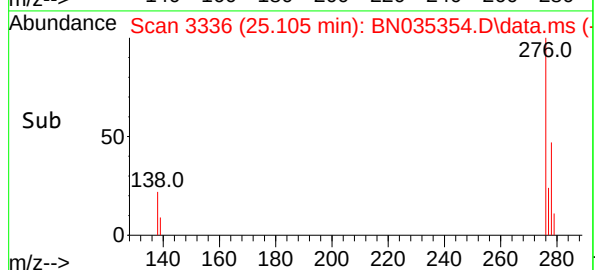
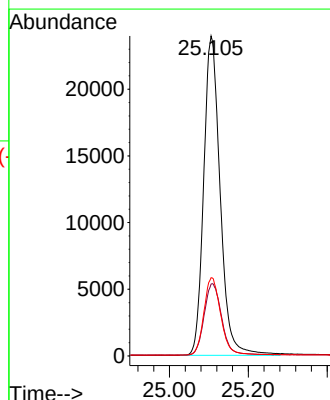
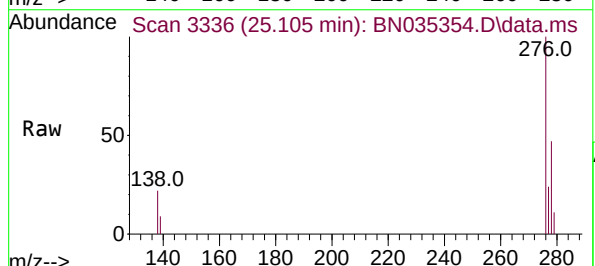
Tgt Ion:276 Resp: 69517

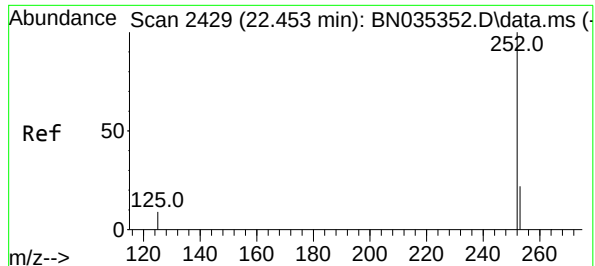
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 2.172 ng

RT: 22.454 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

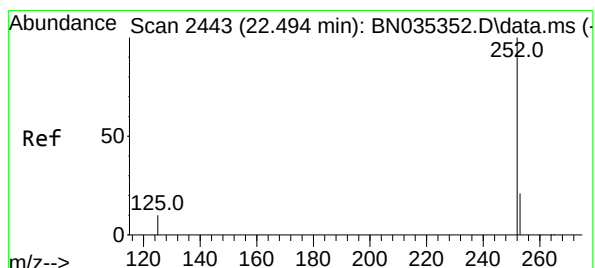
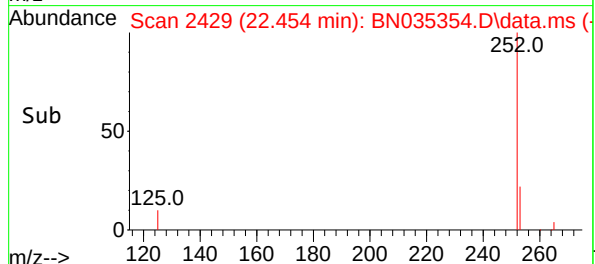
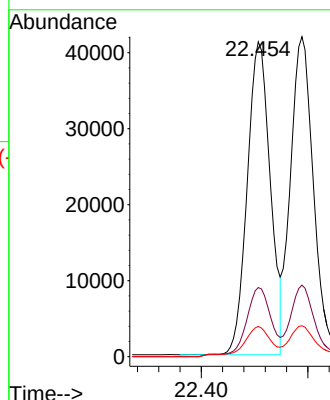
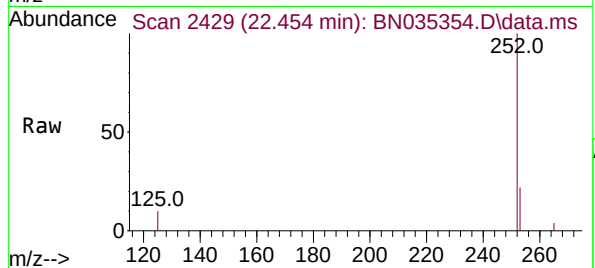
Tgt Ion:252 Resp: 76506

Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 1.814 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

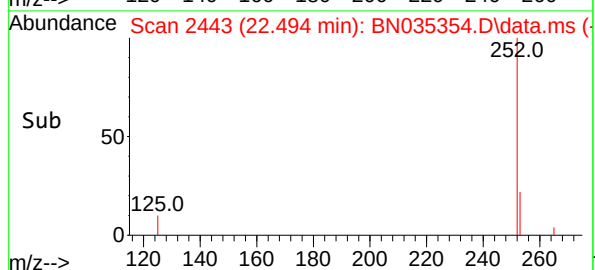
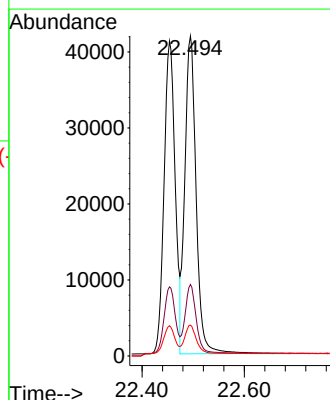
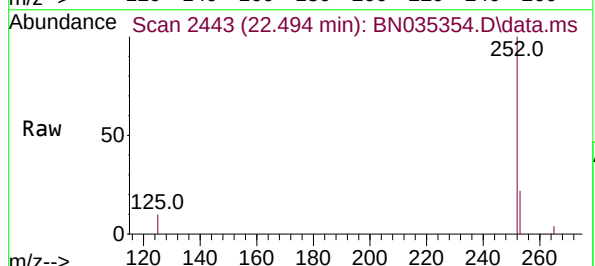
Tgt Ion:252 Resp: 63925

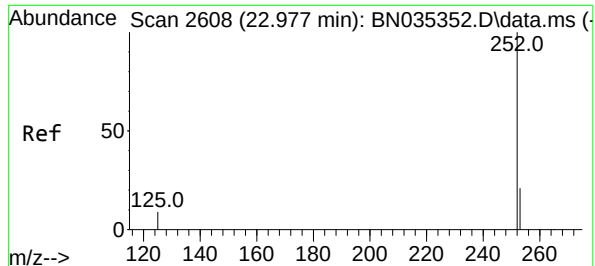
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 9.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 1.697 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035354.D

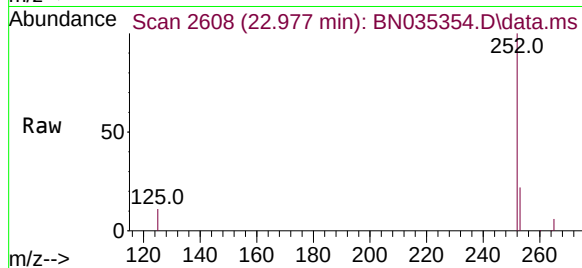
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



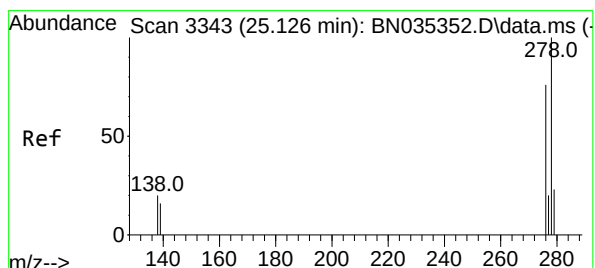
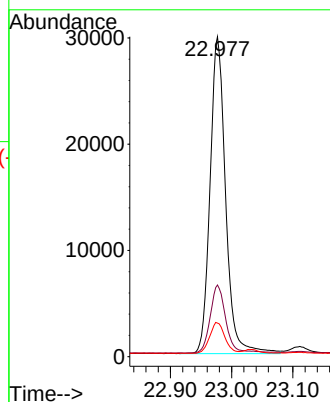
Tgt Ion:252 Resp: 52595

Ion Ratio Lower Upper

252 100

253 22.4 20.2 30.4

125 10.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.664 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

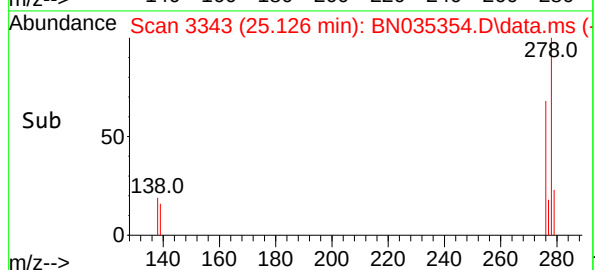
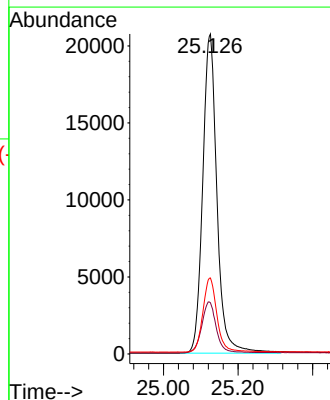
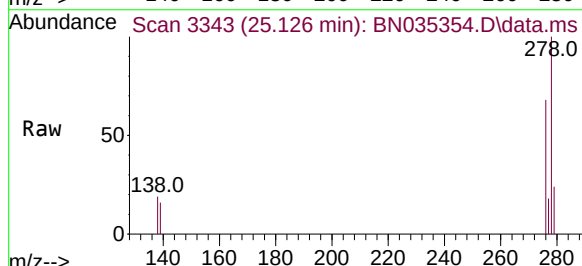
Tgt Ion:278 Resp: 55068

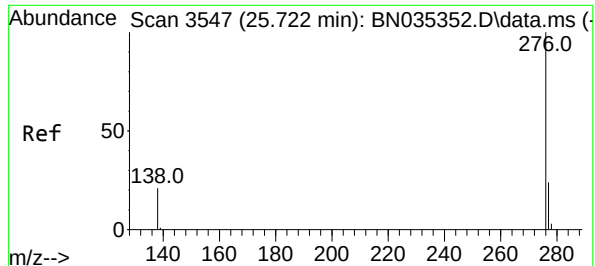
Ion Ratio Lower Upper

278 100

139 16.0 14.2 21.4

279 23.8 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 1.618 ng

RT: 25.719 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035354.D

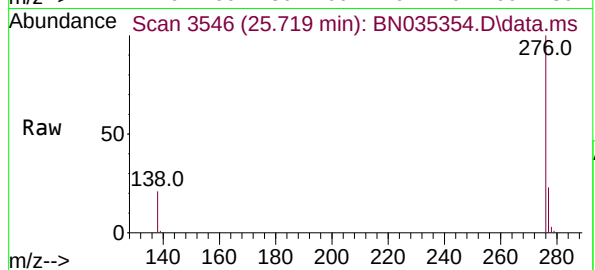
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



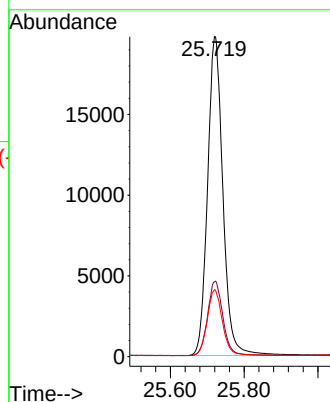
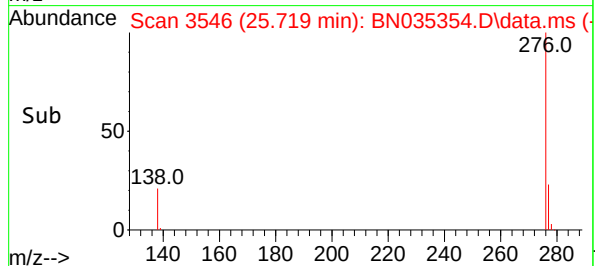
Tgt Ion:276 Resp: 56947

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 20.9 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035355.D
 Acq On : 27 Nov 2024 18:33
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

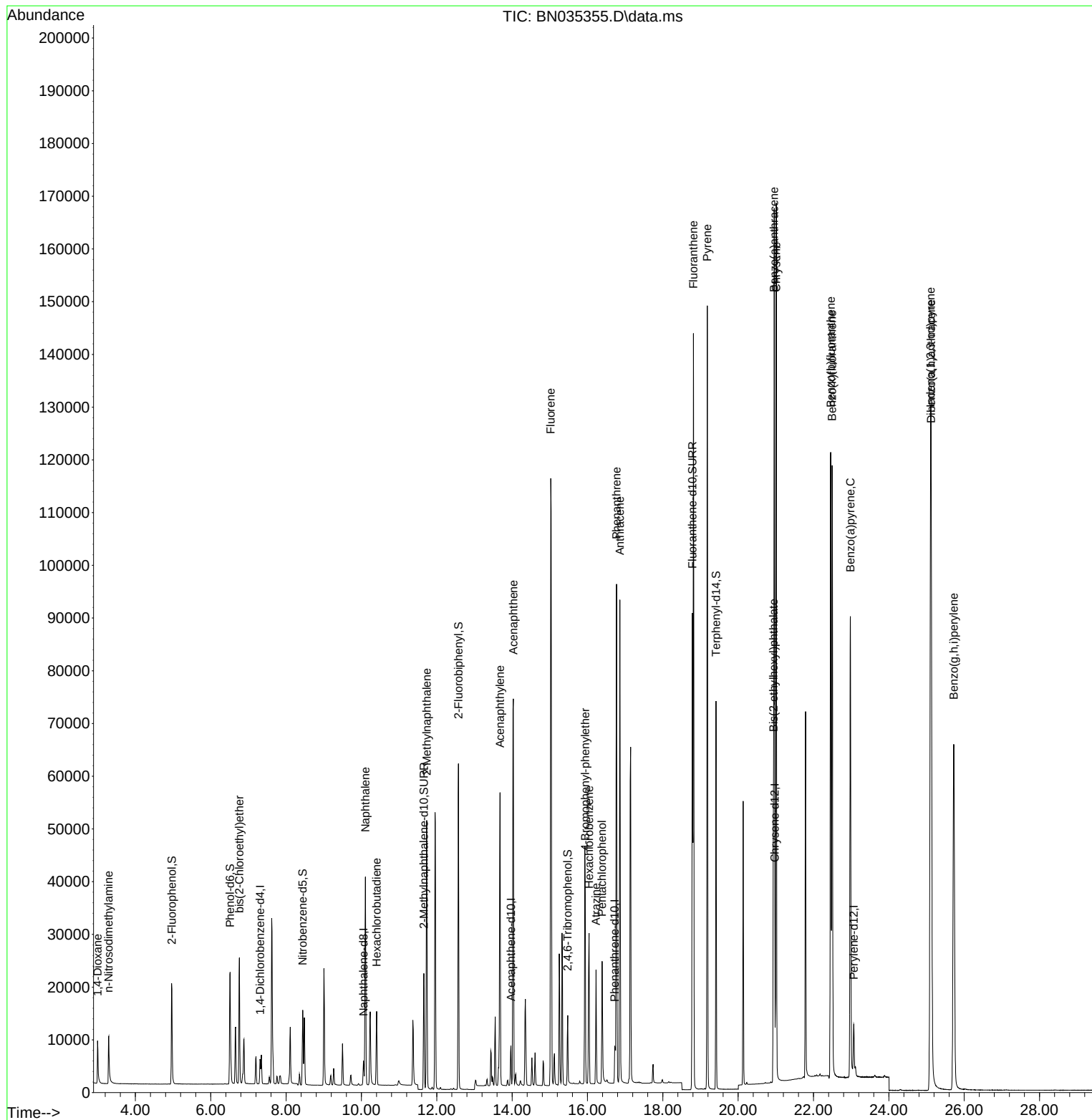
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng	0.00
35) Perylene-d12	23.067	264	11643	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	16991	3.007	ng	0.00
5) Phenol-d6	6.513	99	21633	3.053	ng	0.00
8) Nitrobenzene-d5	8.440	82	11759	2.307	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	29957	2.870	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	10700	3.444	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	52048	2.976	ng	0.00
27) Fluoranthene-d10	18.785	212	95675	2.971	ng	0.00
31) Terphenyl-d14	19.412	244	69164	2.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	6360	3.146	ng	99
3) n-Nitrosodimethylamine	3.285	42	5524	2.932	ng	# 95
6) bis(2-Chloroethyl)ether	6.759	93	17762	3.339	ng	99
9) Naphthalene	10.105	128	49151	3.214	ng	97
10) Hexachlorobutadiene	10.404	225	11039	2.463	ng	# 100
12) 2-Methylnaphthalene	11.732	142	36121	3.202	ng	98
16) Acenaphthylene	13.679	152	60734	3.300	ng	99
17) Acenaphthene	14.031	154	38676	3.206	ng	99
18) Fluorene	15.026	166	55613	3.134	ng	99
21) 4-Bromophenyl-phenylether	15.941	248	20321	3.034	ng	# 93
22) Hexachlorobenzene	16.040	284	23349	3.359	ng	99
23) Atrazine	16.227	200	15072	2.508	ng	96
24) Pentachlorophenol	16.388	266	11439	3.522	ng	86
25) Phenanthrene	16.773	178	94243	3.406	ng	100
26) Anthracene	16.860	178	87657	3.449	ng	99
28) Fluoranthene	18.812	202	125901	3.309	ng	100
30) Pyrene	19.179	202	129105	3.460	ng	100
32) Benzo(a)anthracene	20.956	228	126517	3.242	ng	99
33) Chrysene	21.009	228	127439	3.297	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	46251	2.259	ng	99
36) Indeno(1,2,3-cd)pyrene	25.108	276	150433	3.239	ng	99
37) Benzo(b)fluoranthene	22.456	252	136261	3.478	ng	# 94
38) Benzo(k)fluoranthene	22.494	252	134789	3.439	ng	# 93
39) Benzo(a)pyrene	22.980	252	114719	3.328	ng	# 93
40) Dibenzo(a,h)anthracene	25.123	278	119216	3.240	ng	96
41) Benzo(g,h,i)perylene	25.722	276	123841	3.164	ng	97

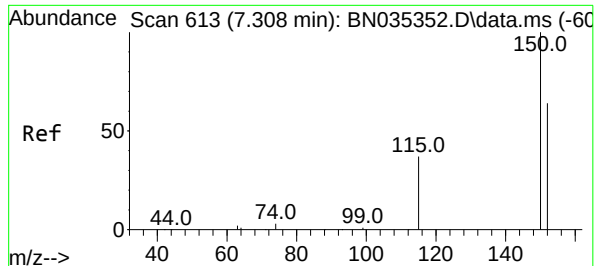
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

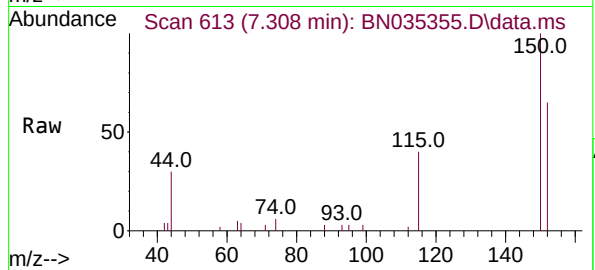
Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



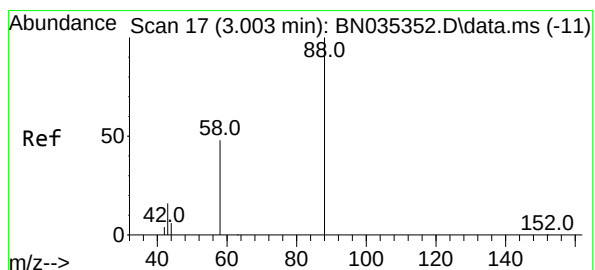
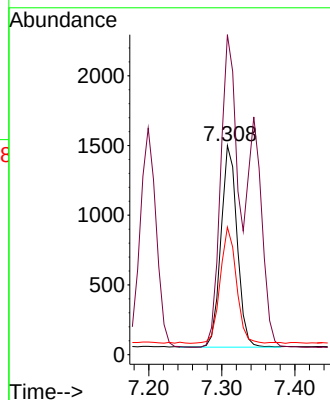
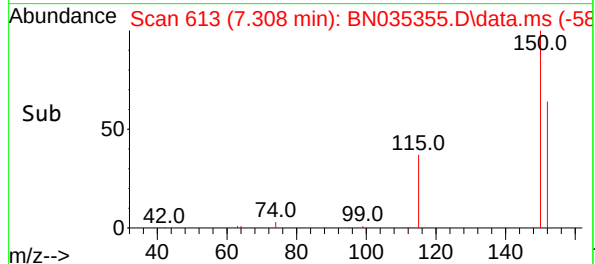


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

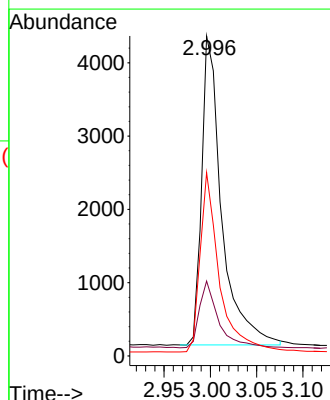
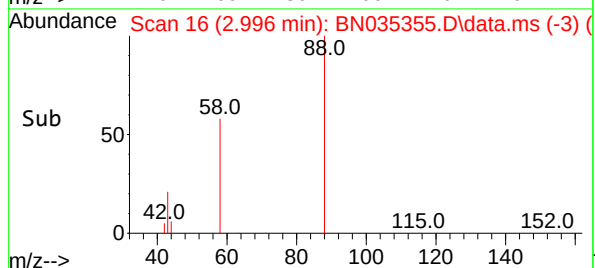
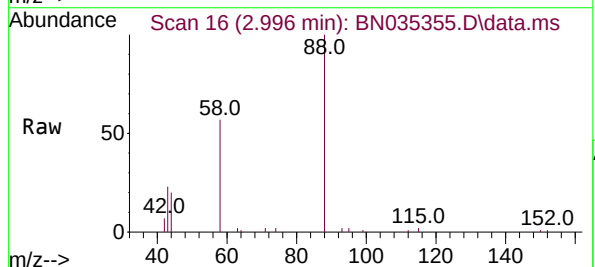


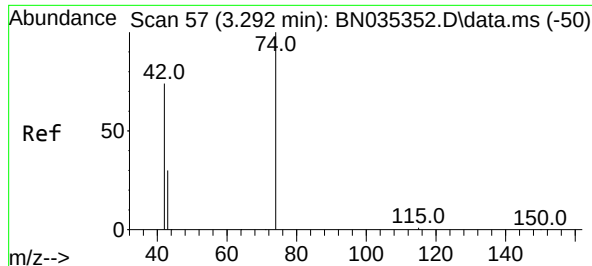
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4



#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360
Ion Ratio Lower Upper
88 100
43 20.6 17.2 25.8
58 55.4 44.5 66.7

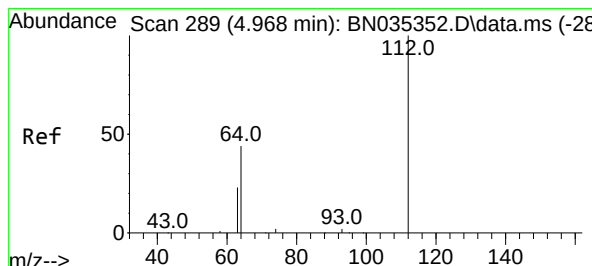
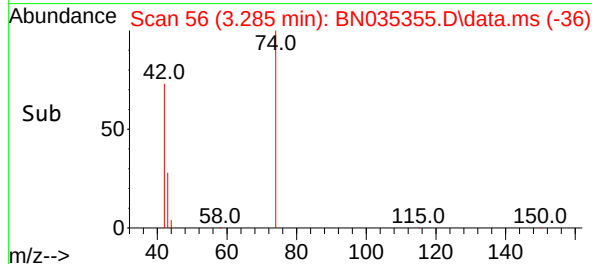
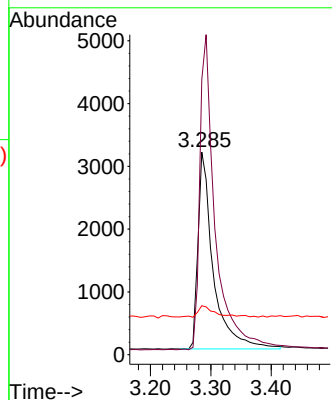
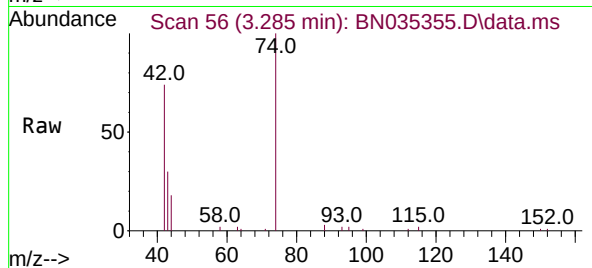




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

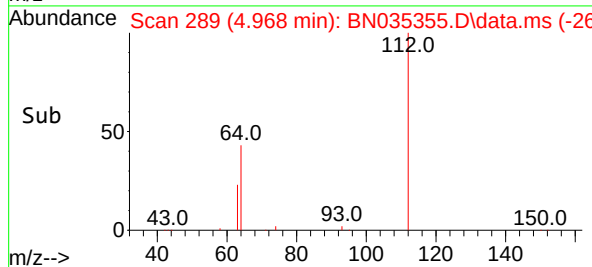
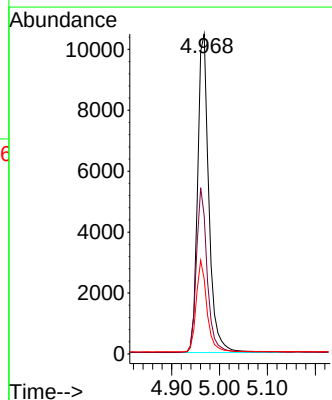
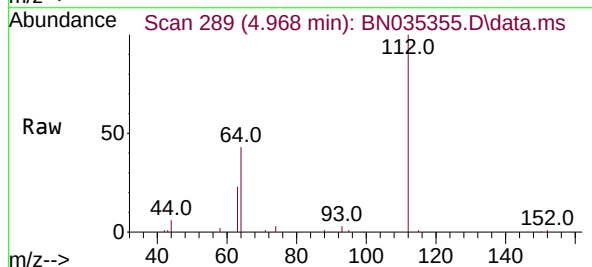
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

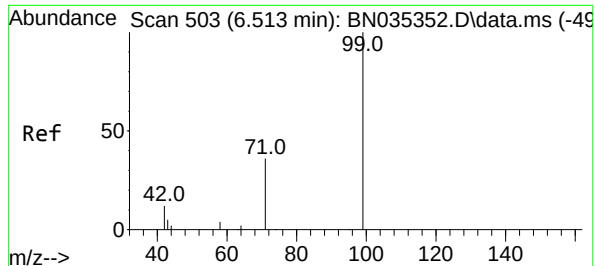
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 112 Resp: 16991
Ion Ratio Lower Upper
112 100
64 49.7 39.8 59.8
63 27.1 21.0 31.6

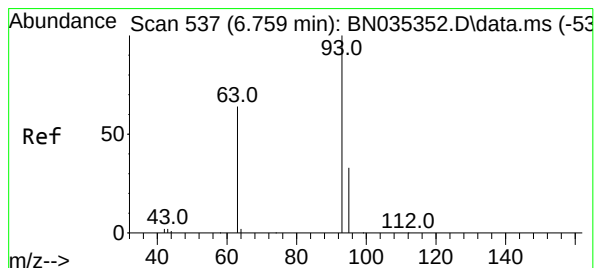
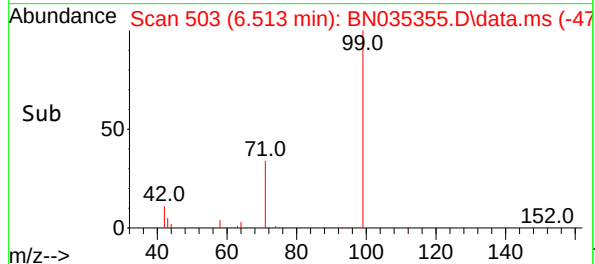
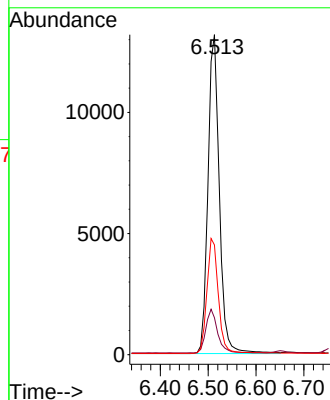
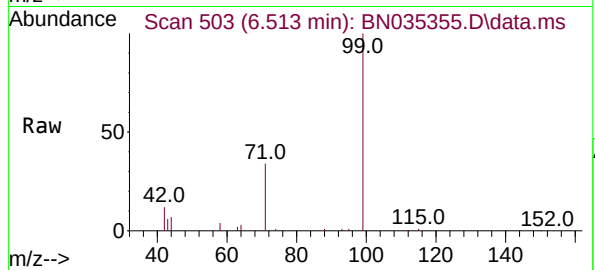




#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

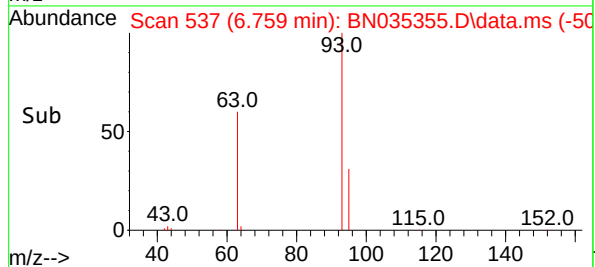
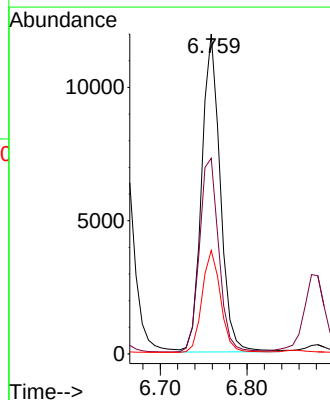
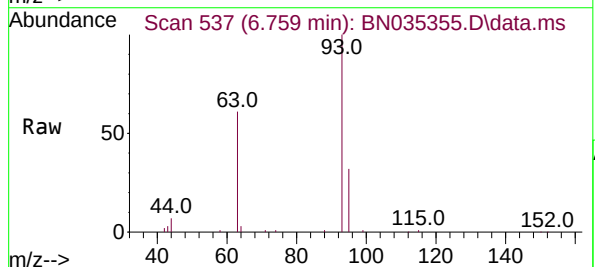
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

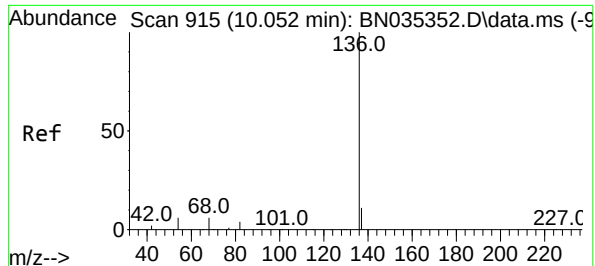
Tgt Ion: 99 Resp: 21633
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.5 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762
Ion Ratio Lower Upper
93 100
63 63.6 50.4 75.6
95 32.0 25.7 38.5

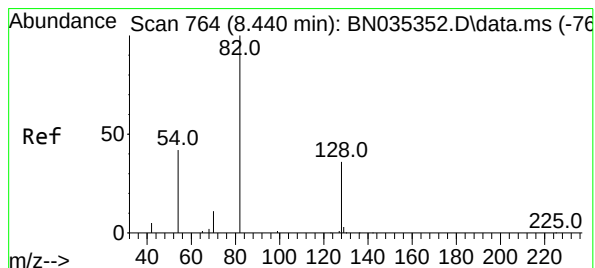
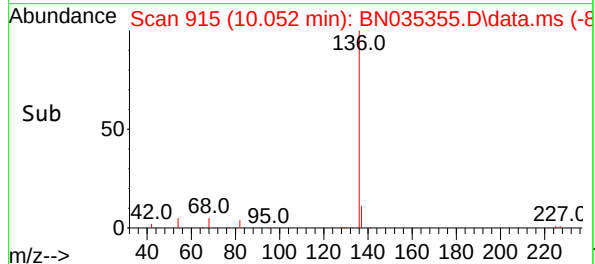
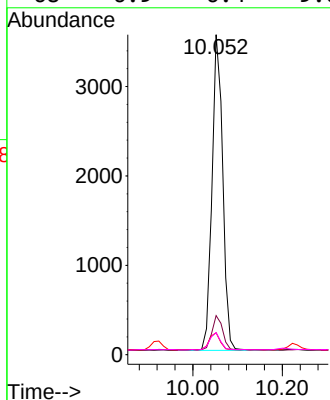
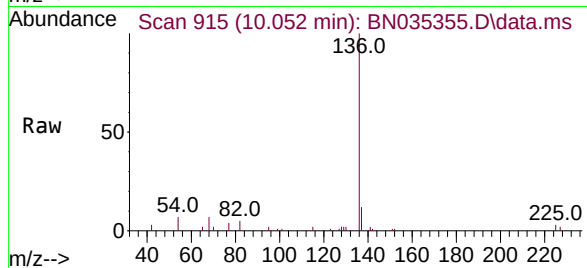




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

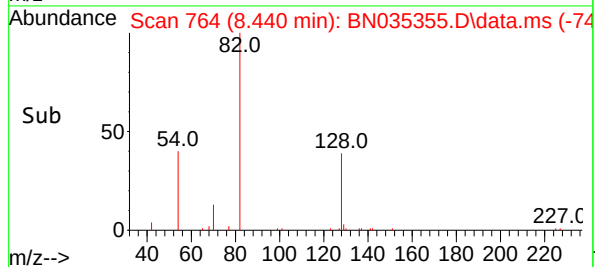
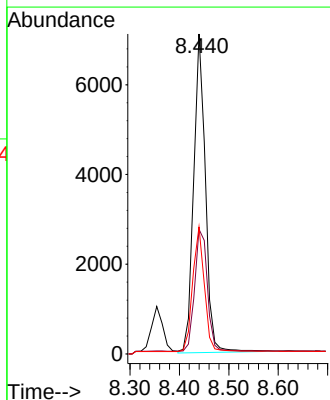
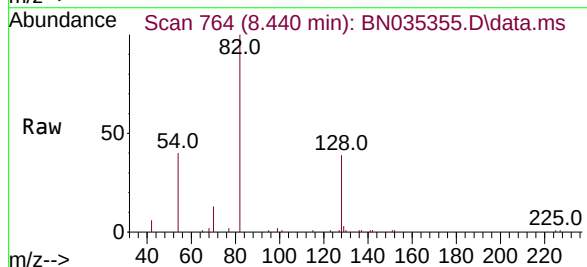
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

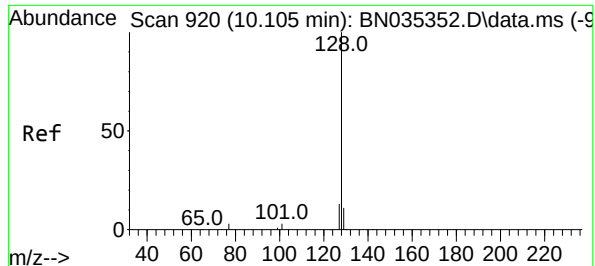
Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6



#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:	82	Resp:	11759
Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1

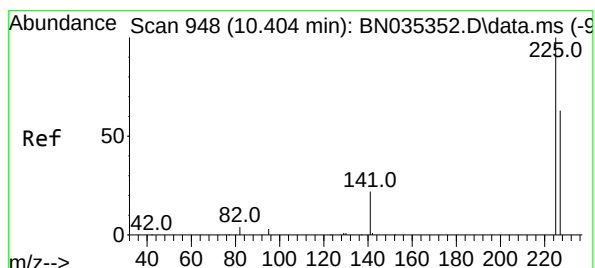
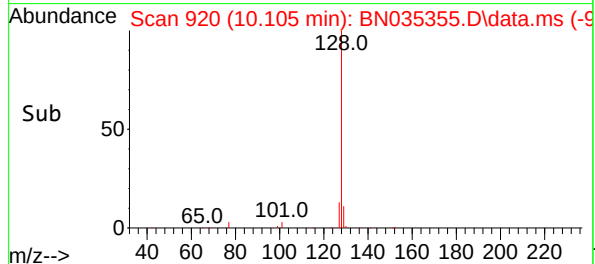
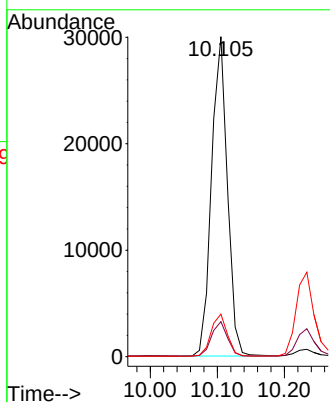
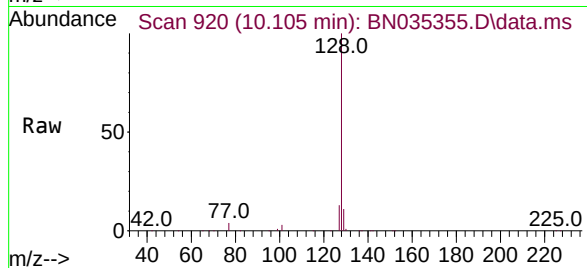




#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

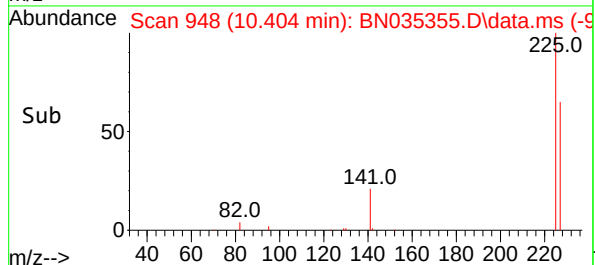
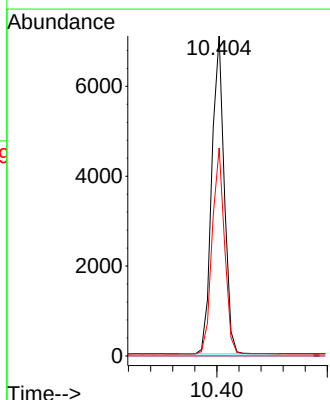
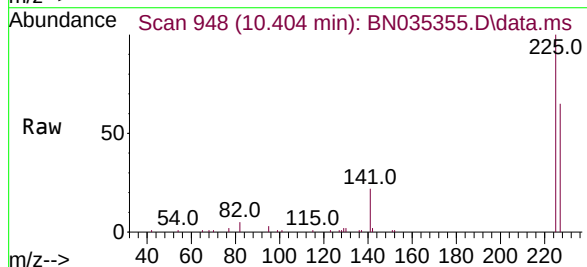
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

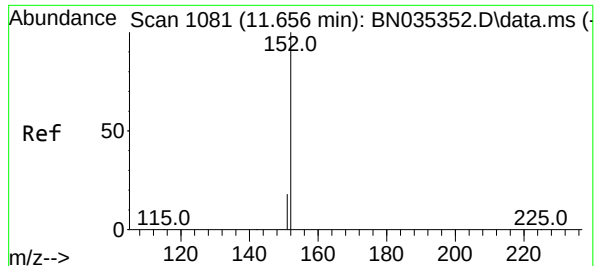
Tgt Ion:128 Resp: 49151
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.3 76.9

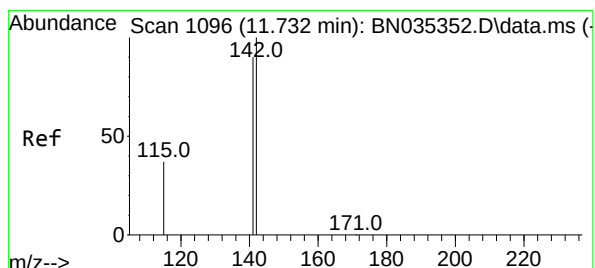
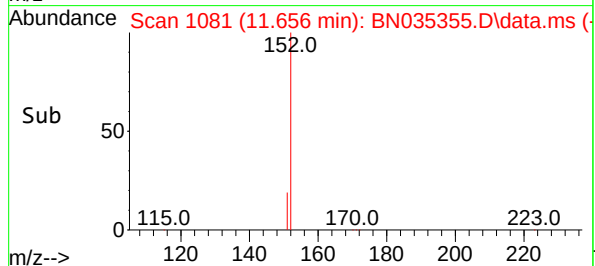
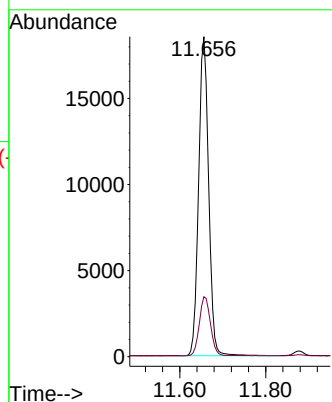
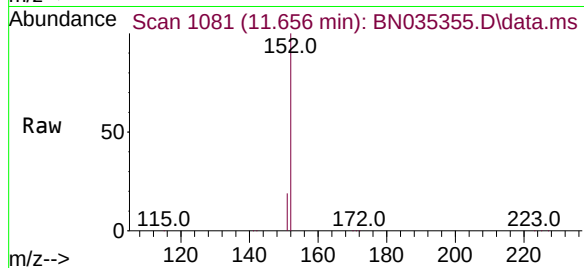




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

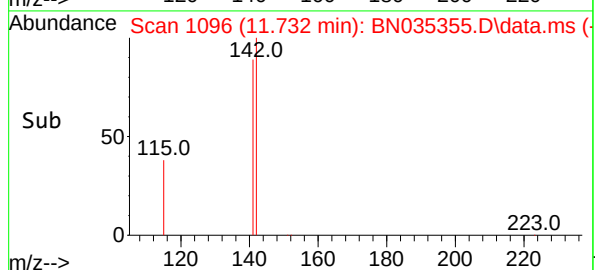
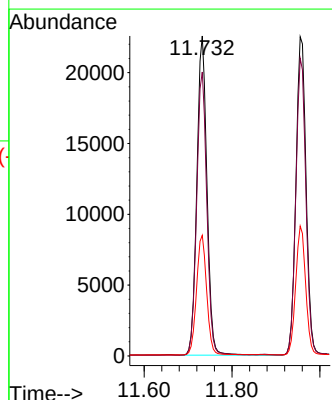
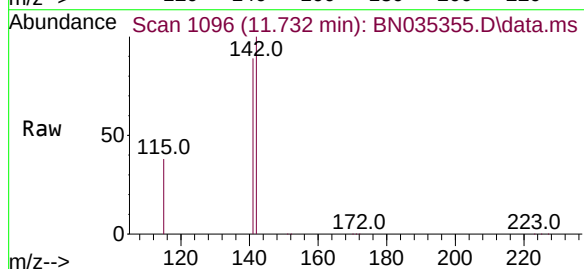
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

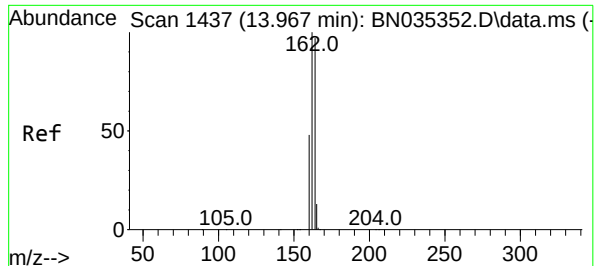
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121
Ion Ratio Lower Upper
142 100
141 88.7 72.2 108.4
115 37.7 31.4 47.0

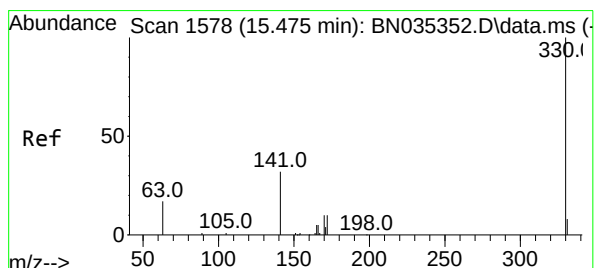
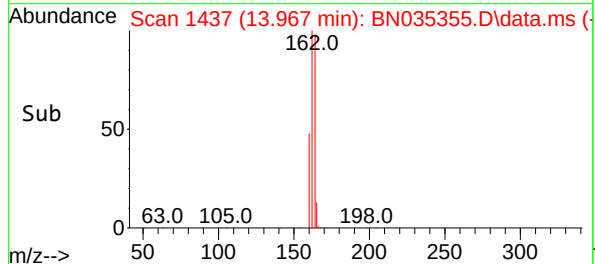
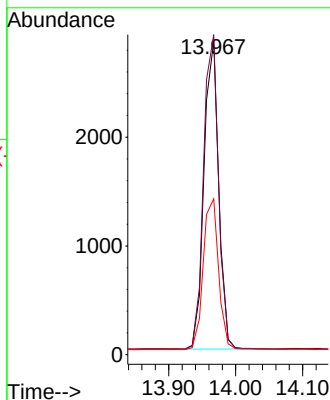
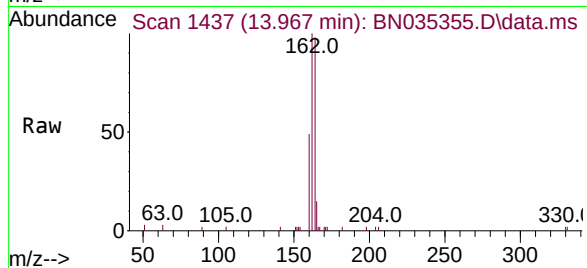




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

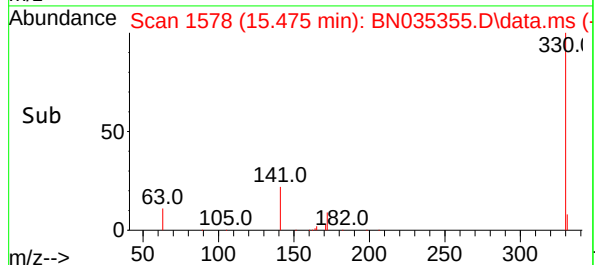
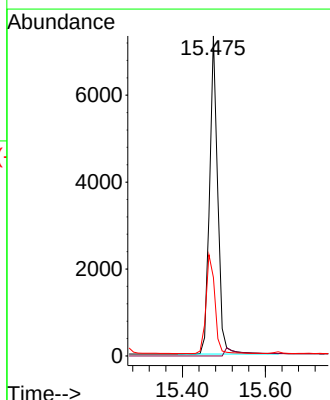
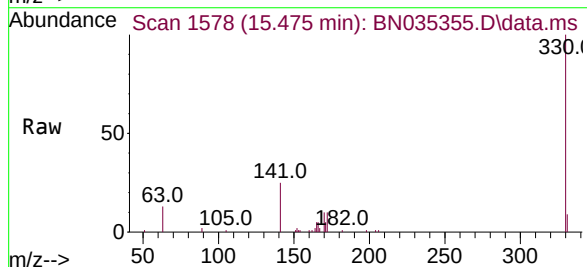
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

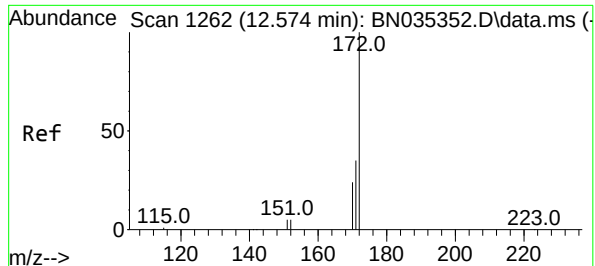
Tgt Ion:164 Resp: 4307
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.7 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.7 26.6 40.0

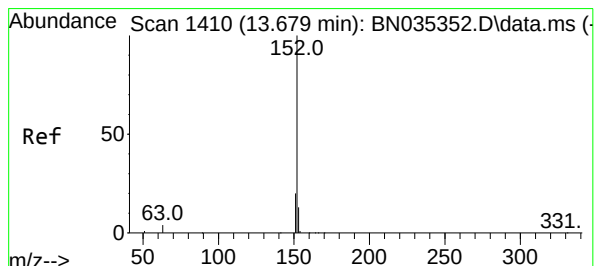
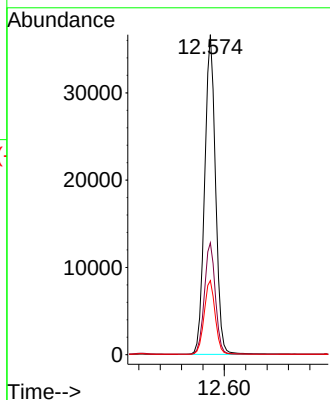
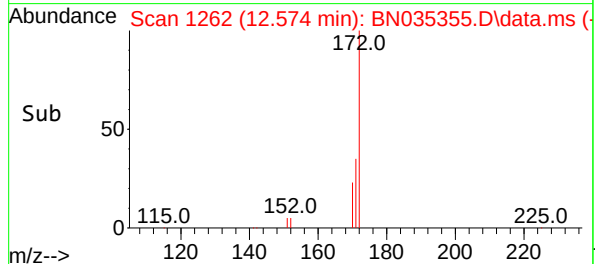
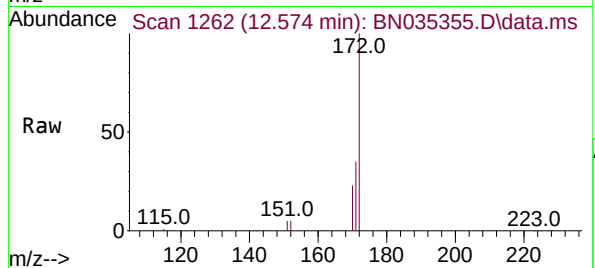




#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

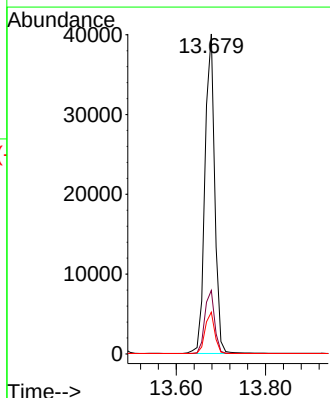
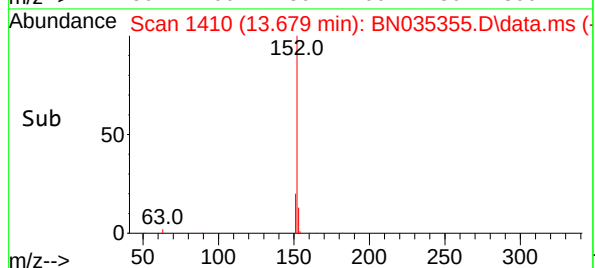
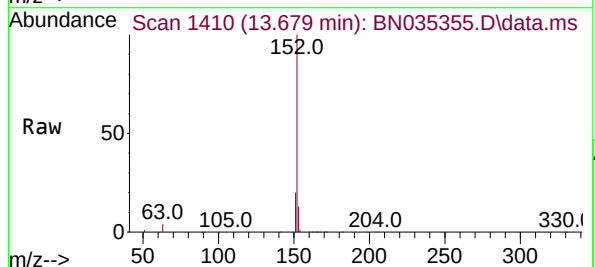
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

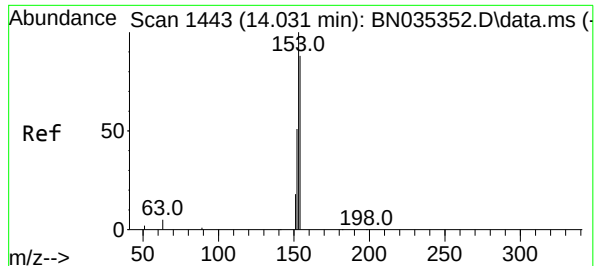
Tgt Ion:172 Resp: 52048
Ion Ratio Lower Upper
172 100
171 35.0 29.0 43.4
170 23.1 19.8 29.8



#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 12.9 10.4 15.6

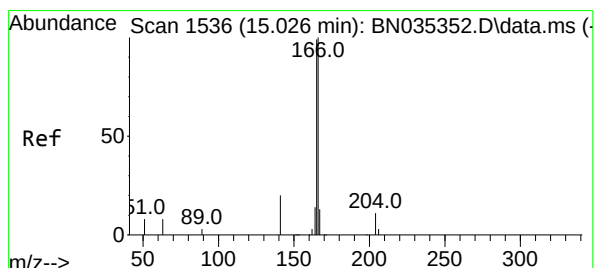
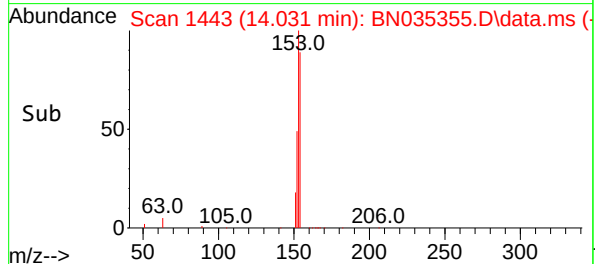
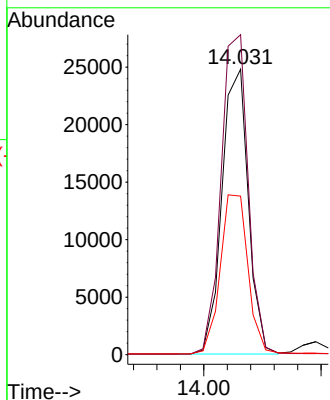
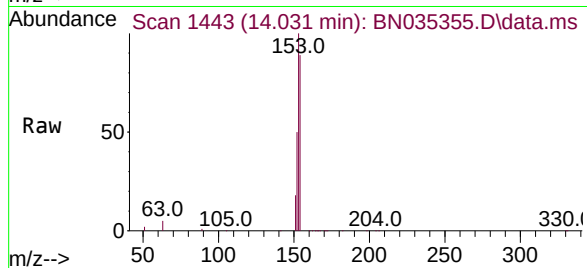




#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

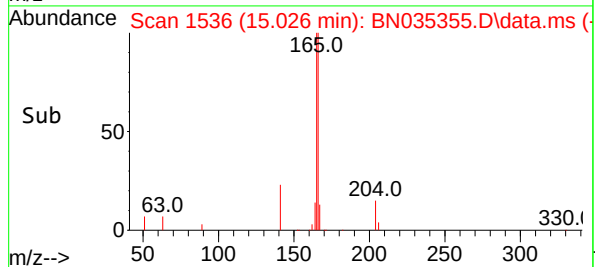
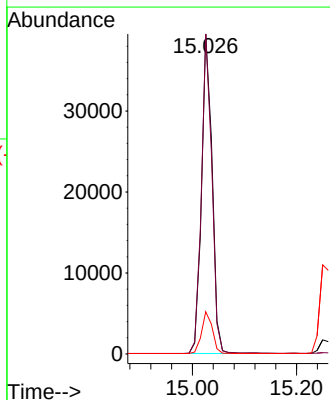
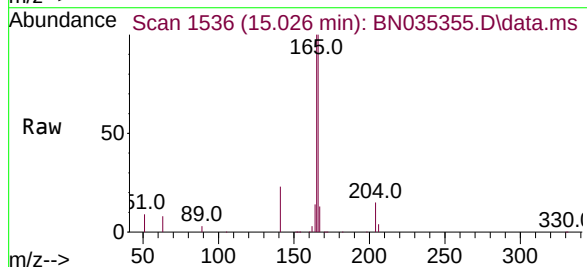
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

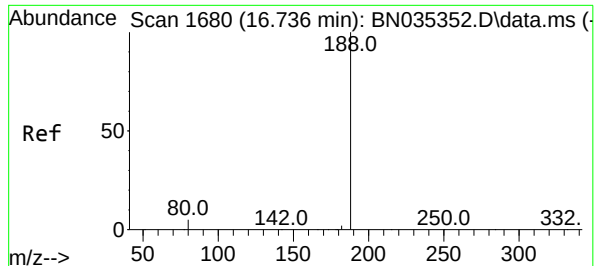
Tgt Ion:154 Resp: 38676
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6



#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613
Ion Ratio Lower Upper
166 100
165 98.5 79.7 119.5
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

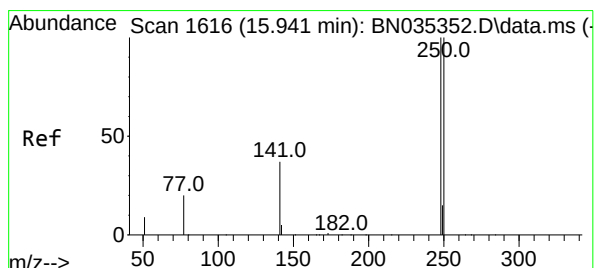
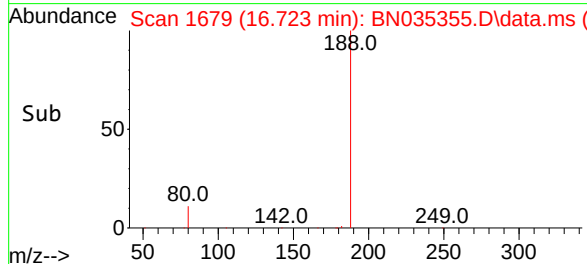
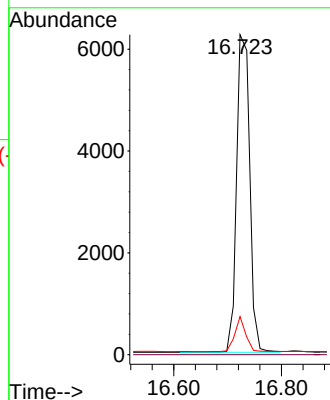
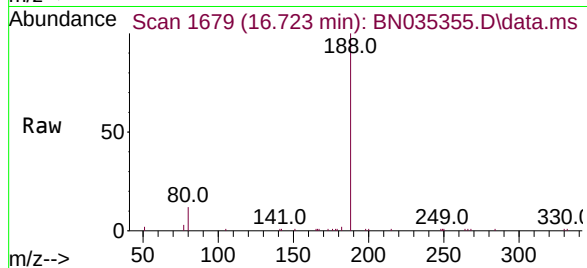
Tgt Ion:188 Resp: 10513

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 3.034 ng

RT: 15.941 min Scan# 1616

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

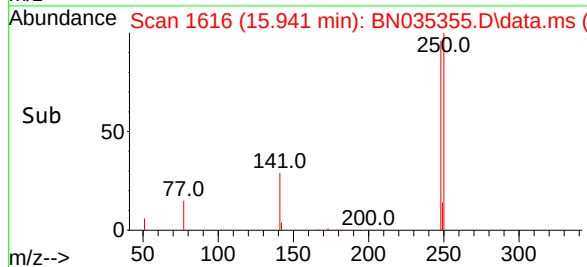
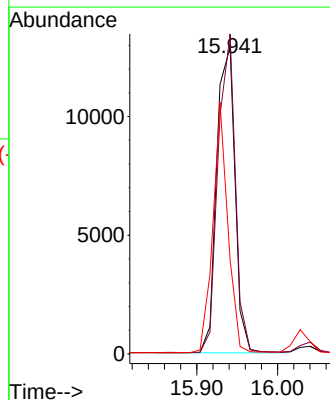
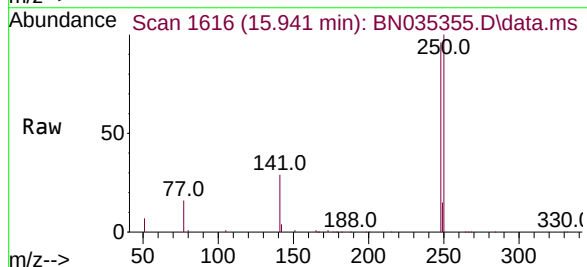
Tgt Ion:248 Resp: 20321

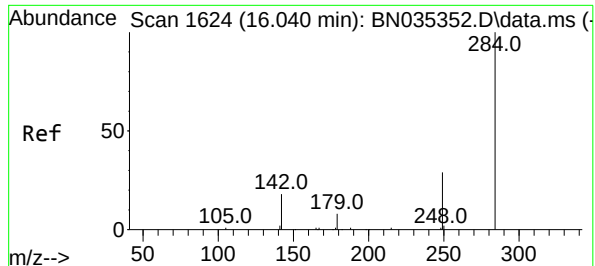
Ion Ratio Lower Upper

248 100

250 104.3 80.6 120.8

141 30.7 31.5 47.3#





#22

Hexachlorobenzene

Concen: 3.359 ng

RT: 16.040 min Scan# 1624

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

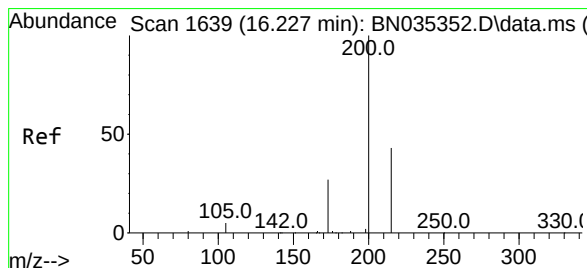
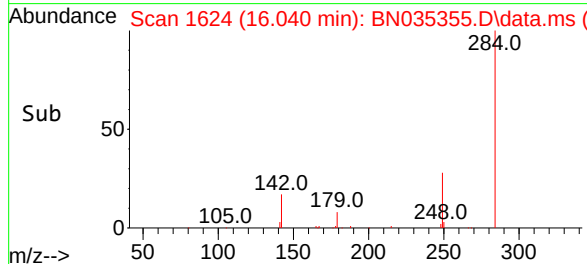
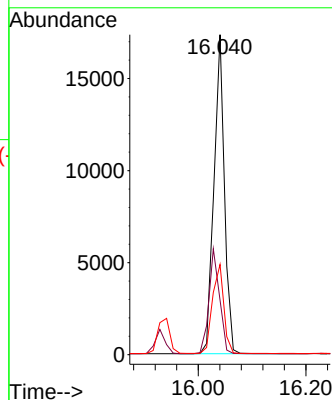
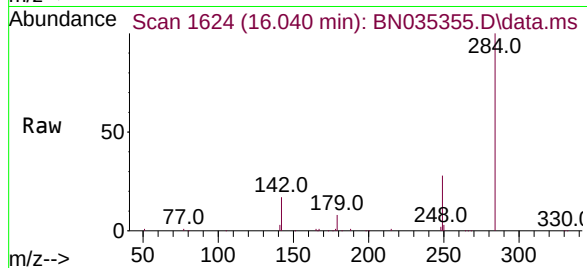
Tgt Ion:284 Resp: 23349

Ion Ratio Lower Upper

284 100

142 33.3 26.7 40.1

249 30.2 24.6 36.8



#23

Atrazine

Concen: 2.508 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

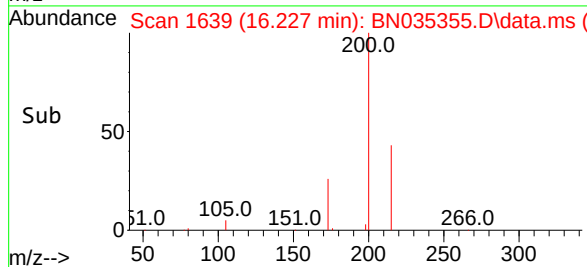
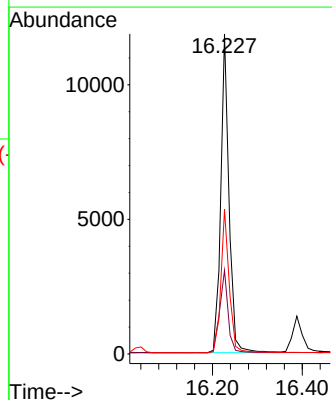
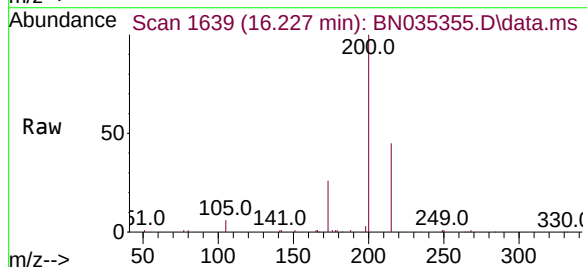
Tgt Ion:200 Resp: 15072

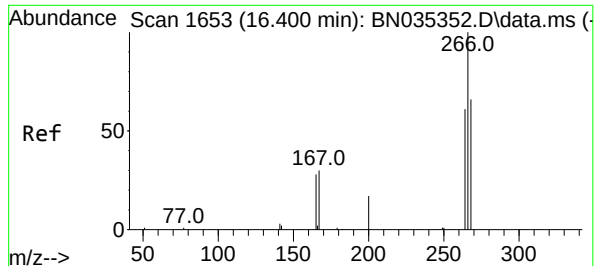
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3

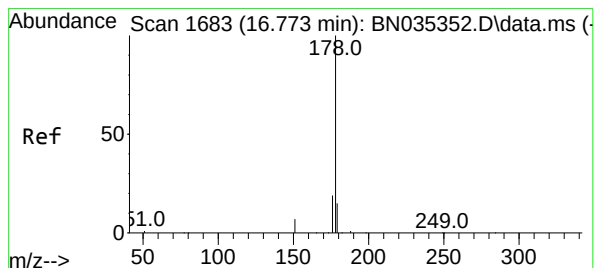
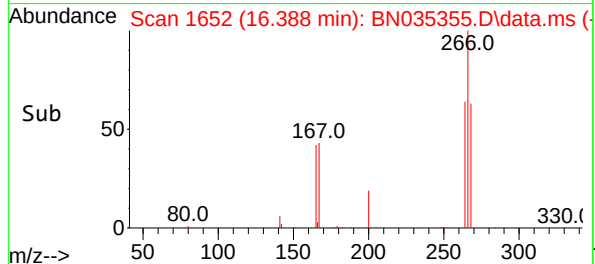
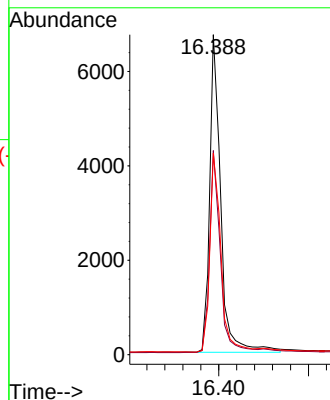
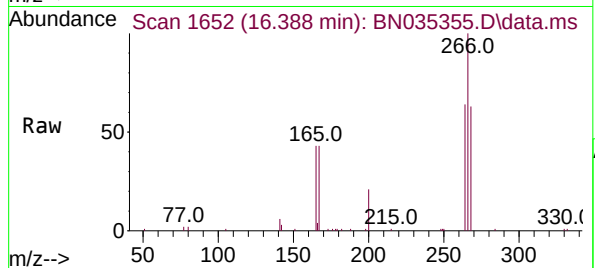




#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

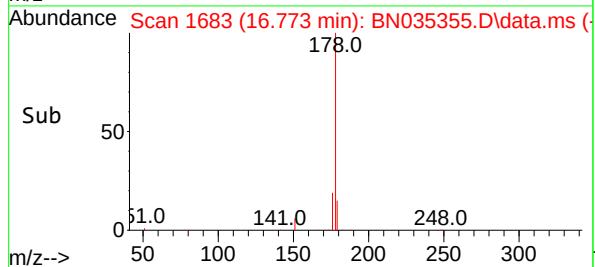
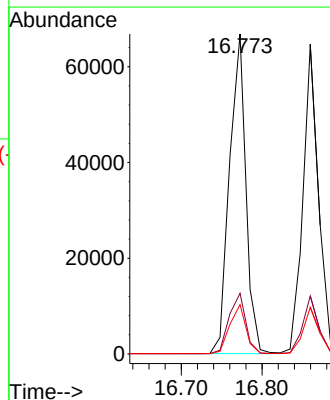
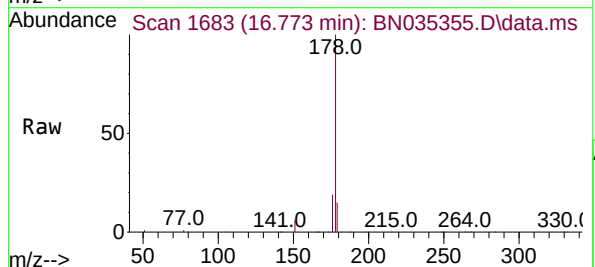
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

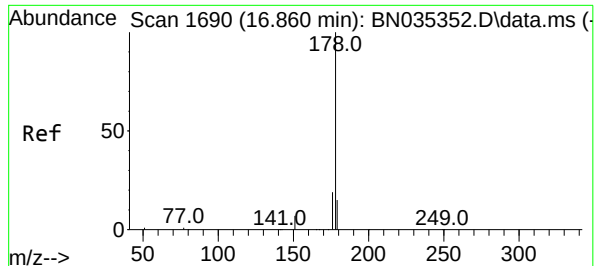
Tgt Ion:266 Resp: 11439
Ion Ratio Lower Upper
266 100
264 62.6 42.3 63.5
268 64.4 43.3 64.9



#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.3 18.5

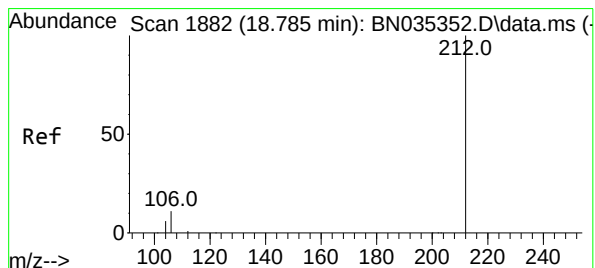
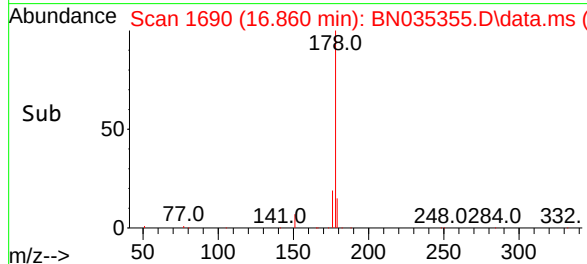
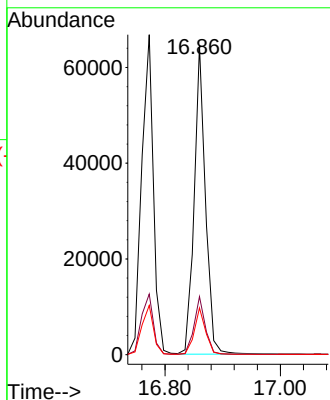
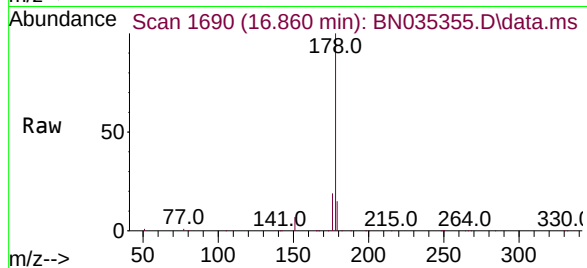




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

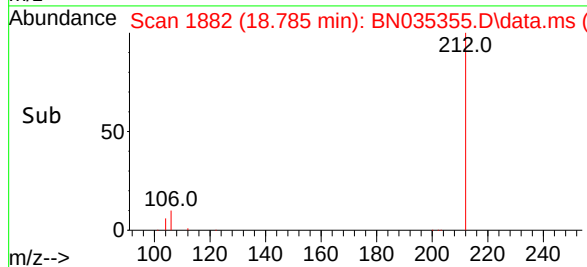
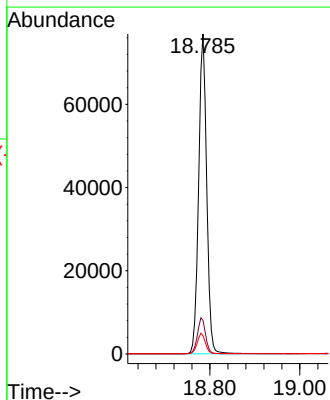
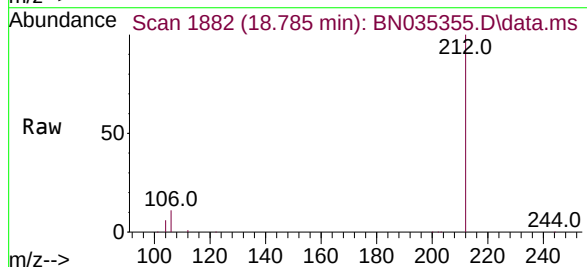
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

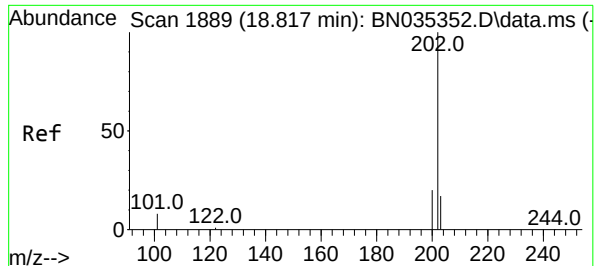
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.4 5.3 7.9

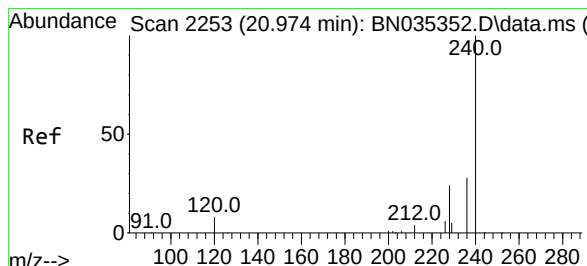
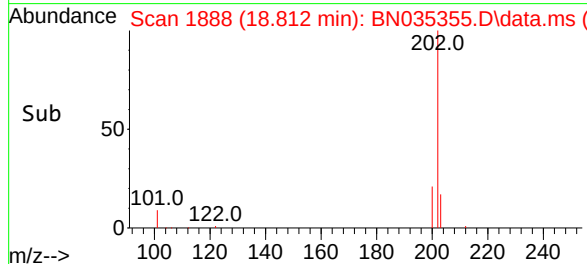
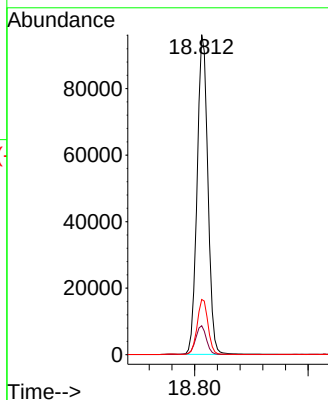
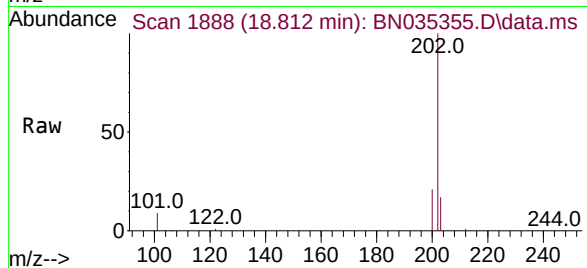




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

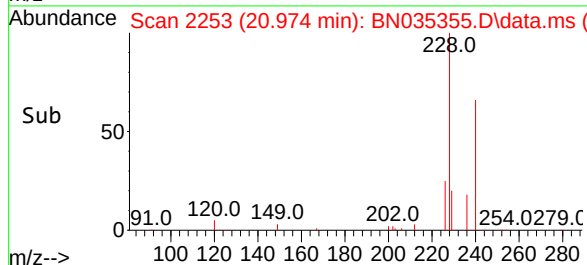
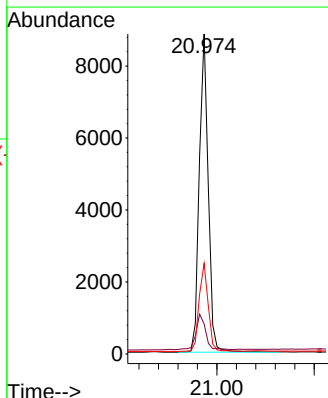
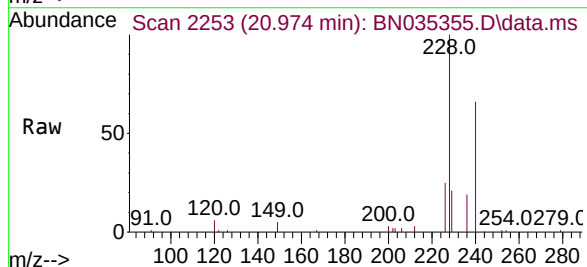
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

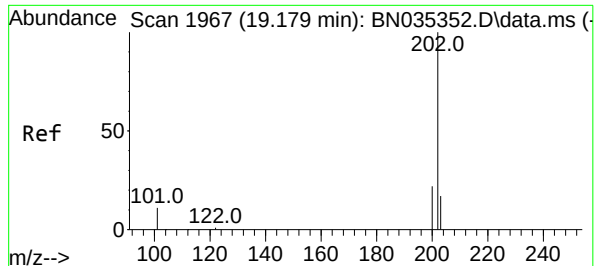
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206
Ion Ratio Lower Upper
240 100
120 9.3 7.9 11.9
236 28.3 22.9 34.3

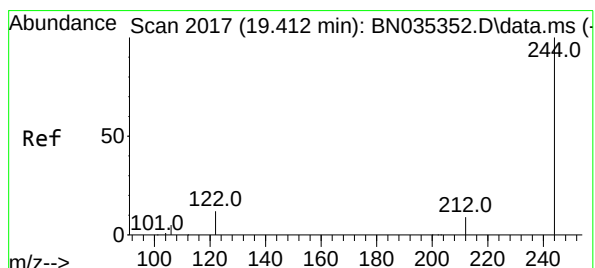
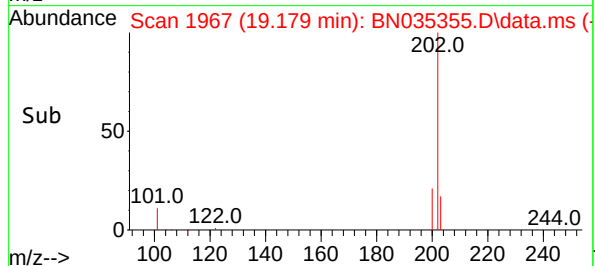
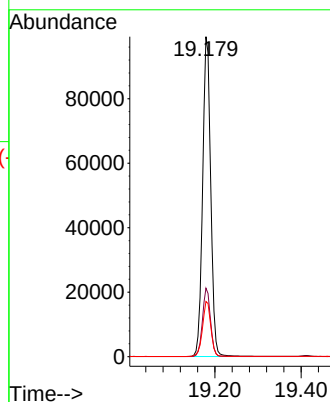
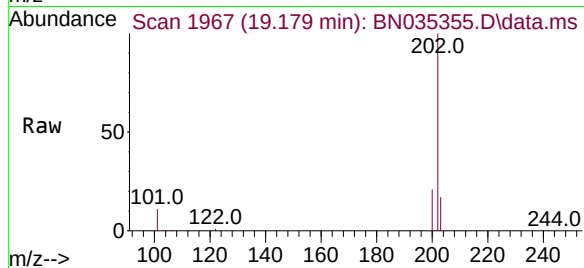




#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

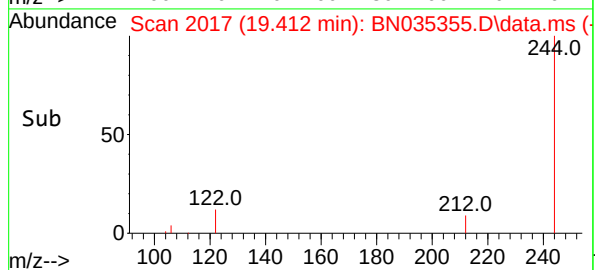
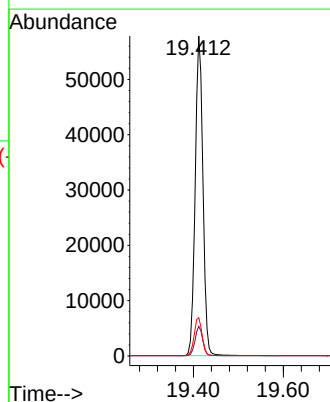
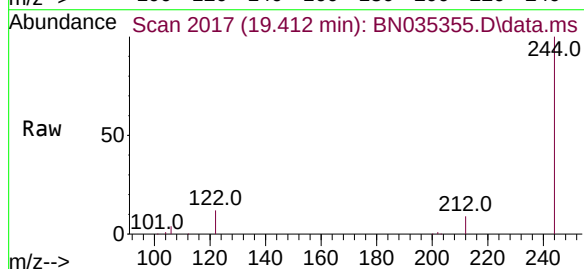
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

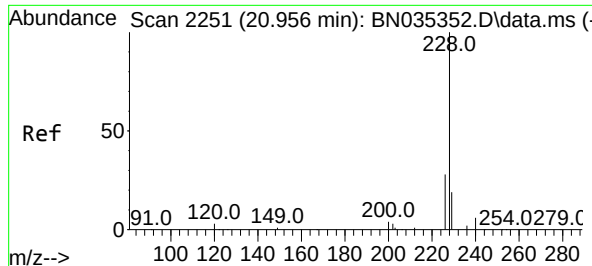
Tgt Ion:202 Resp: 129105
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164
Ion Ratio Lower Upper
244 100
212 9.2 8.1 12.1
122 12.0 10.3 15.5





#32

Benzo(a)anthracene

Concen: 3.242 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

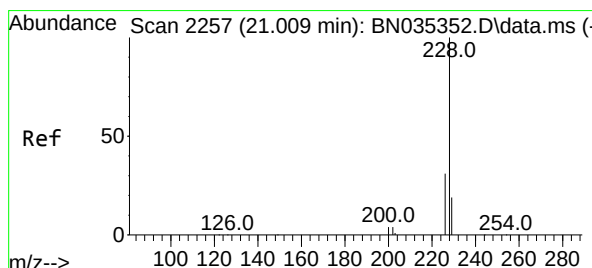
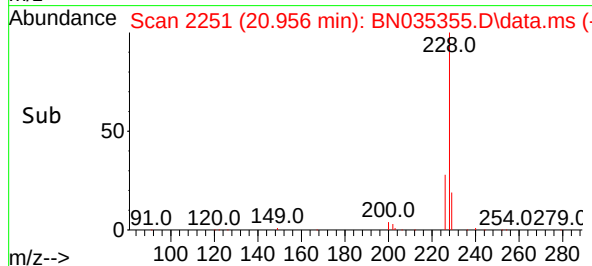
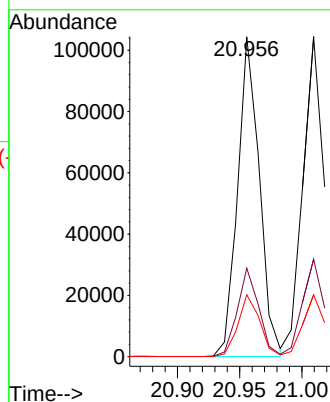
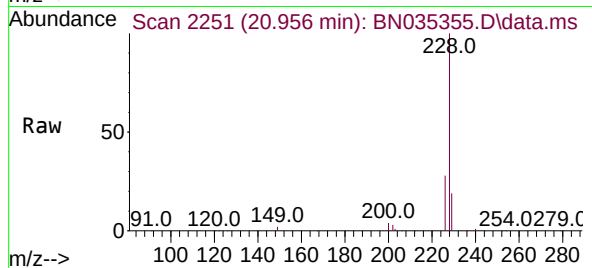
Tgt Ion:228 Resp: 126517

Ion Ratio Lower Upper

228 100

226 27.6 22.5 33.7

229 19.4 15.8 23.8



#33

Chrysene

Concen: 3.297 ng

RT: 21.009 min Scan# 2257

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

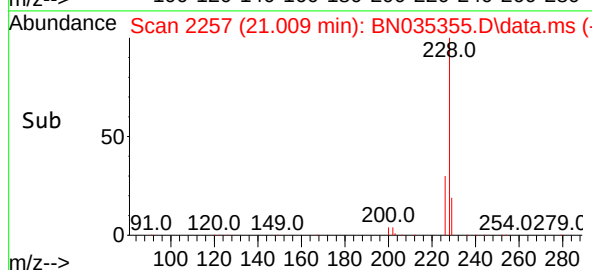
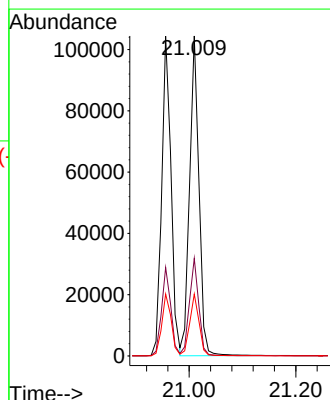
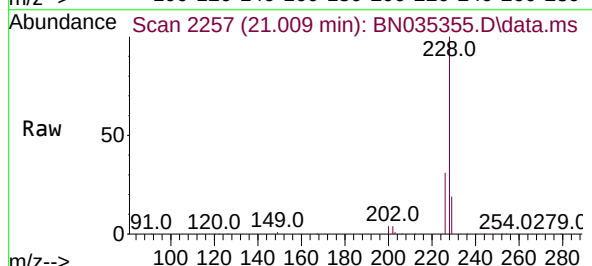
Tgt Ion:228 Resp: 127439

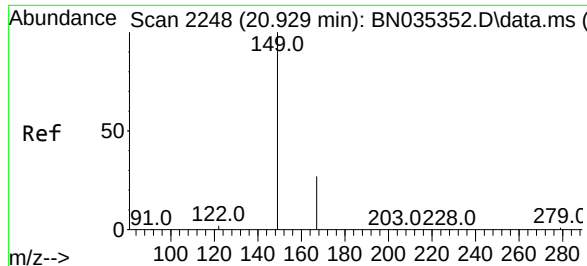
Ion Ratio Lower Upper

228 100

226 30.5 24.6 37.0

229 19.4 15.9 23.9

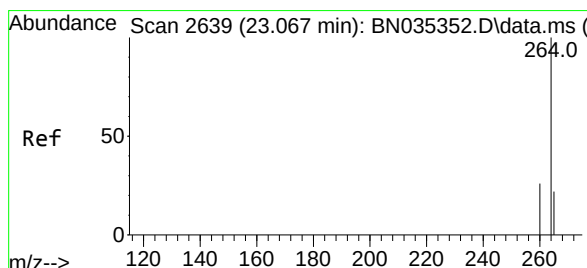
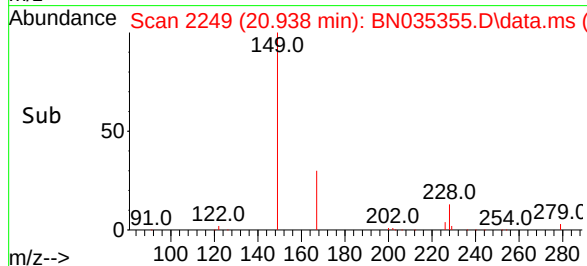
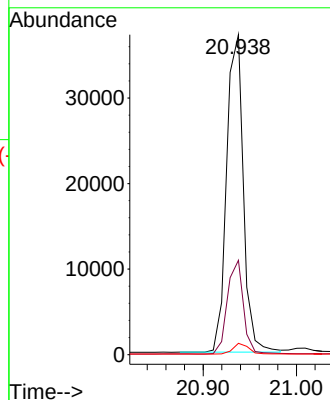
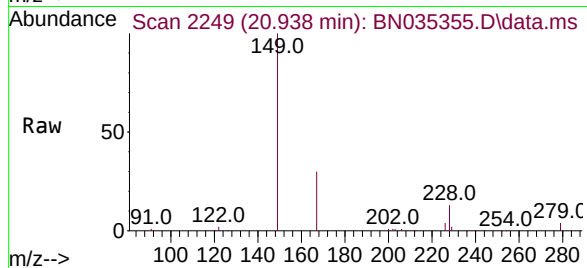




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

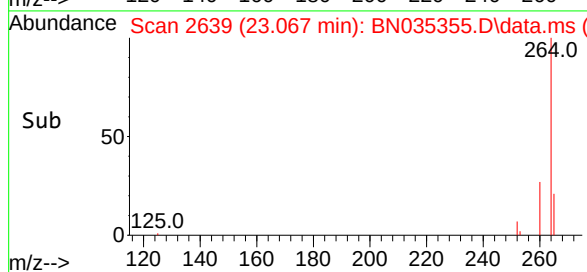
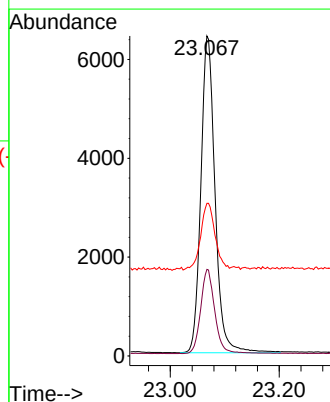
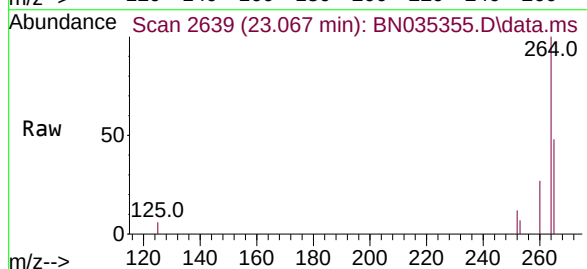
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

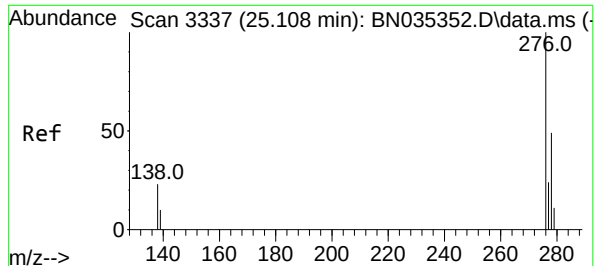
Tgt Ion:149 Resp: 46251
Ion Ratio Lower Upper
149 100
167 28.3 22.2 33.4
279 3.2 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 47.7 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.239 ng

RT: 25.108 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

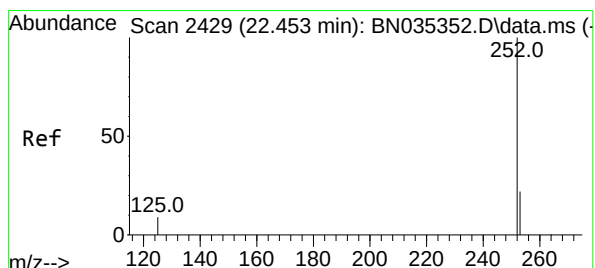
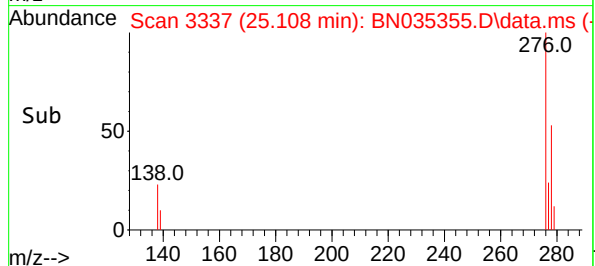
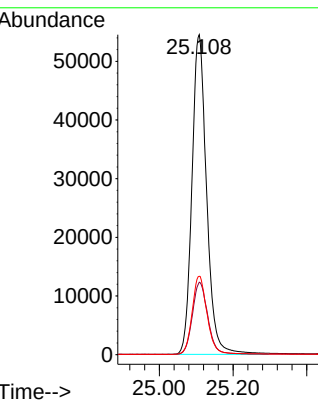
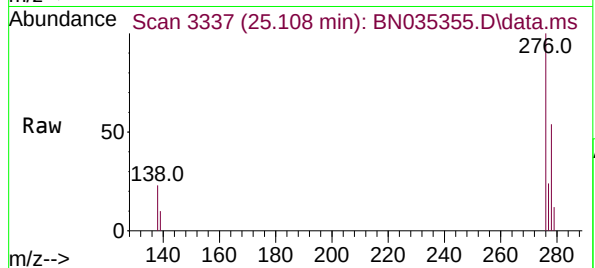
Tgt Ion:276 Resp: 150433

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.9 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 3.478 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

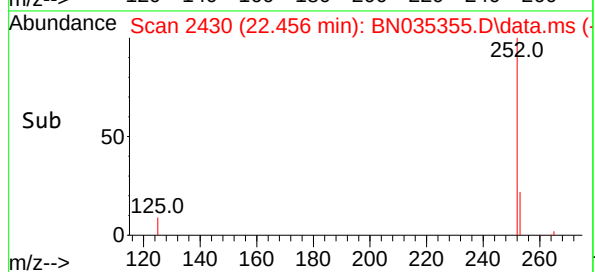
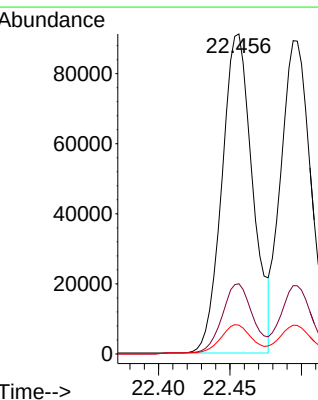
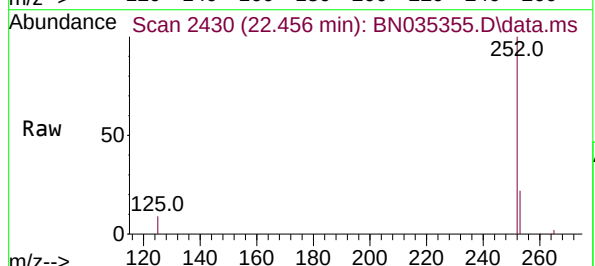
Tgt Ion:252 Resp: 136261

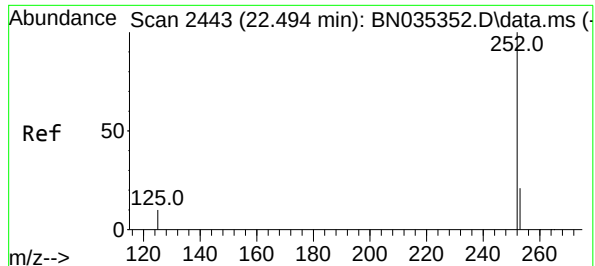
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.0 9.6 14.4#





#38

Benzo(k)fluoranthene

Concen: 3.439 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

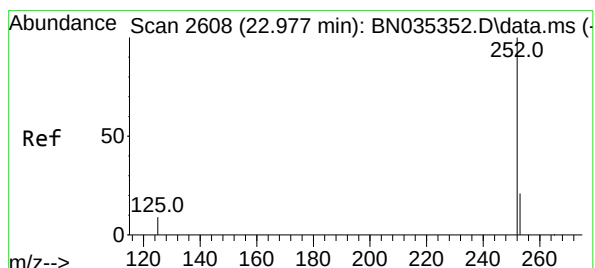
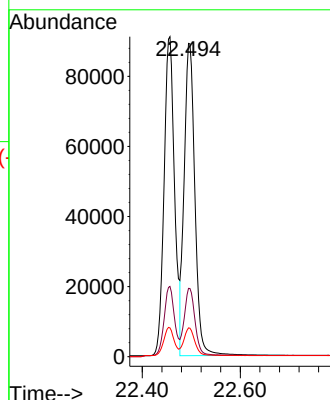
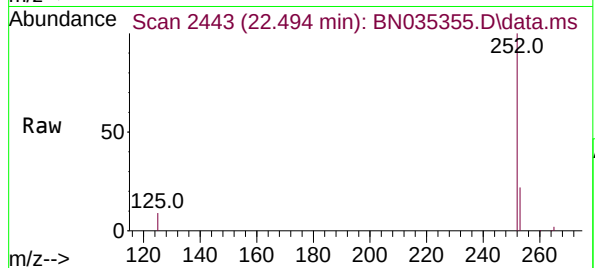
Tgt Ion:252 Resp: 134789

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 9.2 10.2 15.4#



#39

Benzo(a)pyrene

Concen: 3.328 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

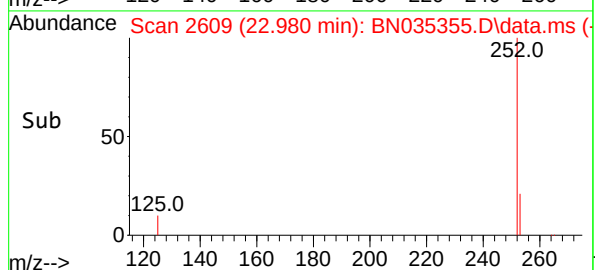
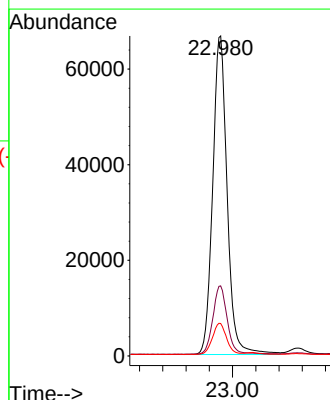
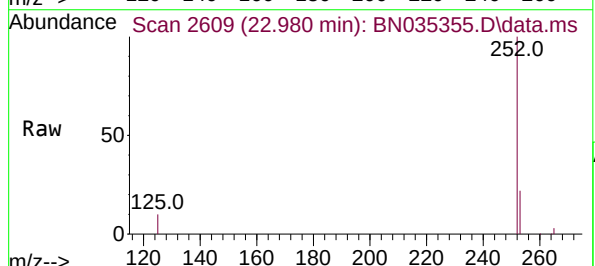
Tgt Ion:252 Resp: 114719

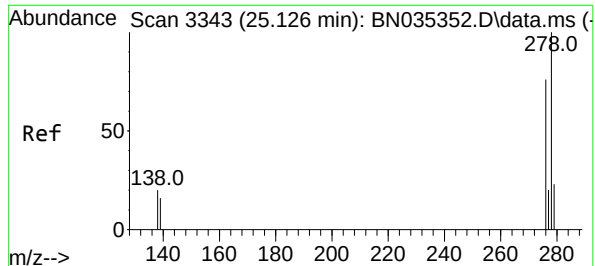
Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.4

125 10.1 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 3.240 ng

RT: 25.123 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

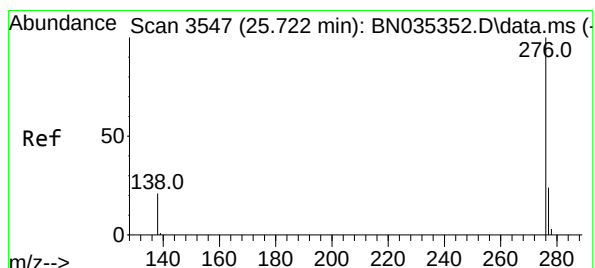
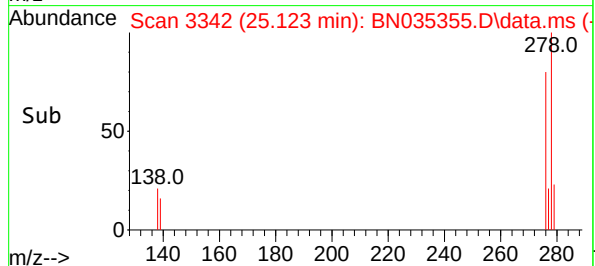
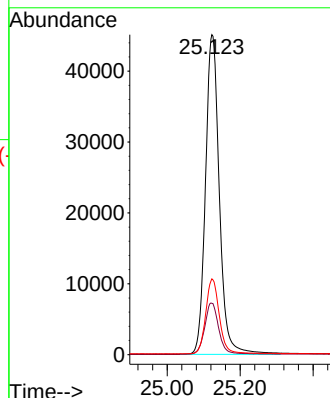
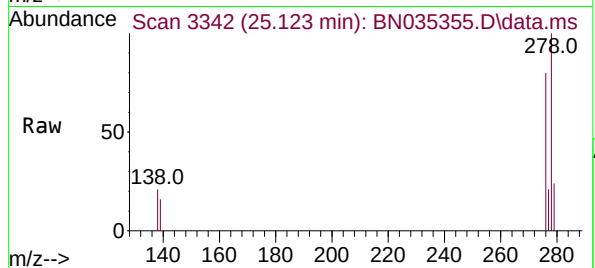
Tgt Ion:278 Resp: 119216

Ion Ratio Lower Upper

278 100

139 16.1 14.2 21.4

279 23.7 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 3.164 ng

RT: 25.722 min Scan# 3547

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

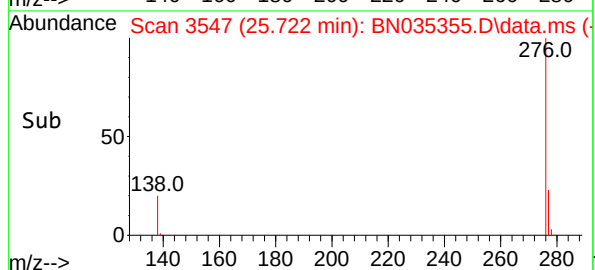
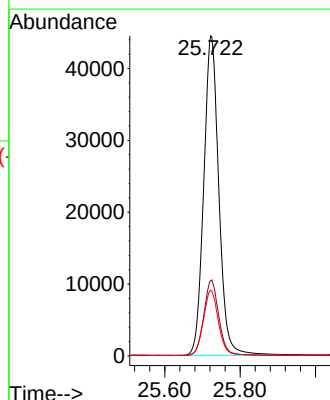
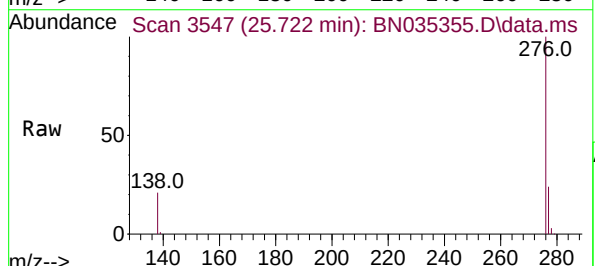
Tgt Ion:276 Resp: 123841

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 20.6 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035356.D
 Acq On : 27 Nov 2024 19:09
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

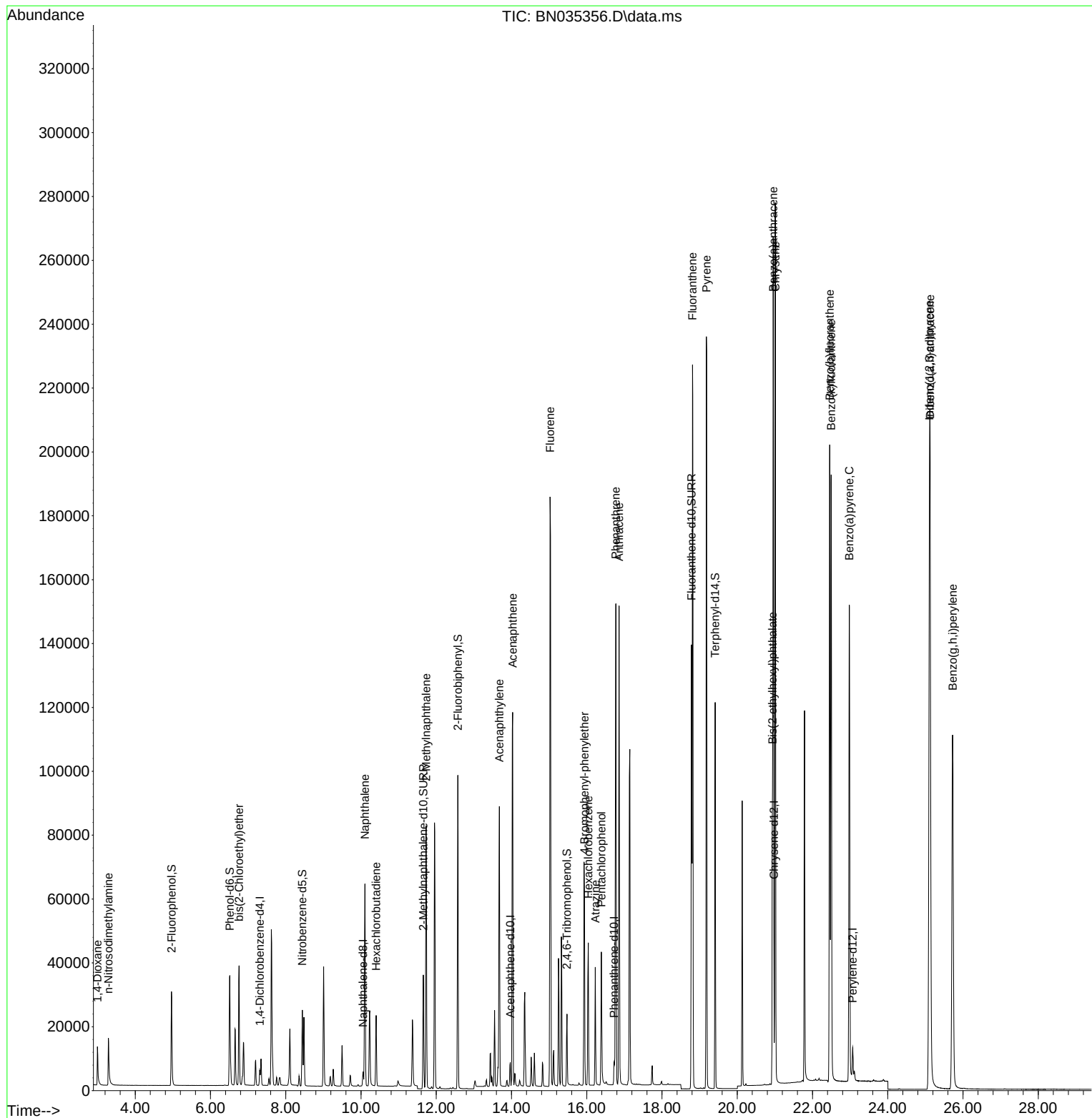
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng	0.00
35) Perylene-d12	23.067	264	12000	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	26472	4.637	ng	0.00
5) Phenol-d6	6.513	99	34560	4.828	ng	0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng	0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng	0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng	99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	# 96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng	99
9) Naphthalene	10.105	128	77668	5.123	ng	97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	# 100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng	98
16) Acenaphthylene	13.679	152	97129	5.209	ng	99
17) Acenaphthene	14.031	154	62170	5.088	ng	98
18) Fluorene	15.026	166	88648	4.932	ng	99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	# 94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng	100
23) Atrazine	16.227	200	25034	4.179	ng	96
24) Pentachlorophenol	16.388	266	19691	6.083	ng	86
25) Phenanthrene	16.773	178	147357	5.343	ng	100
26) Anthracene	16.860	178	139399	5.503	ng	99
28) Fluoranthene	18.812	202	199850	5.270	ng	99
30) Pyrene	19.179	202	206018	5.370	ng	100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng	99
33) Chrysene	21.009	228	204475	5.146	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng	99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng	99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	# 93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	# 92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng	96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng	97

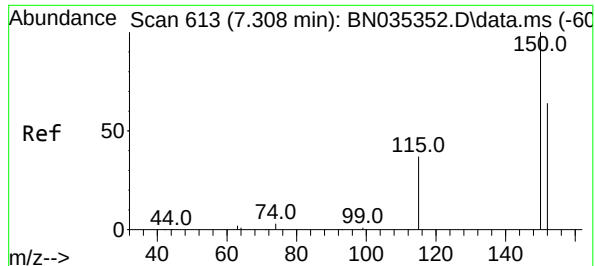
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

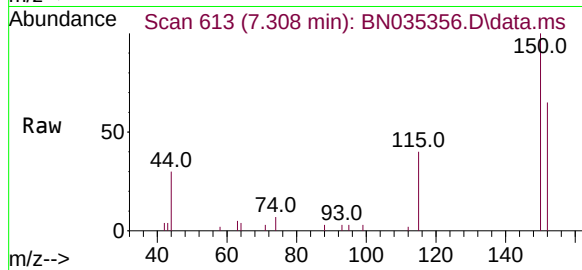
Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



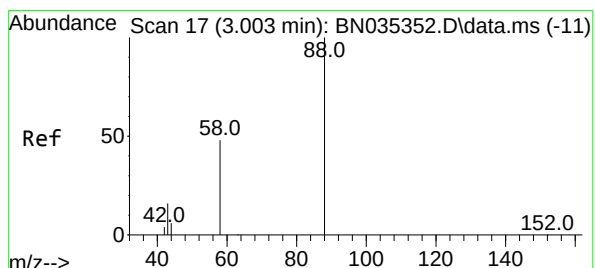
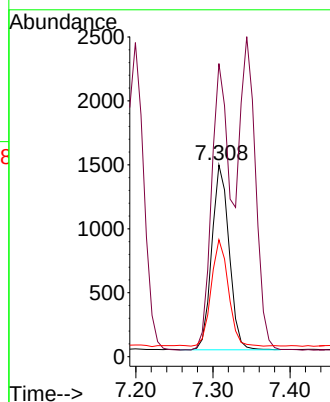
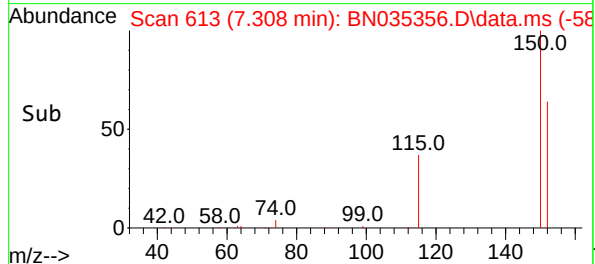


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

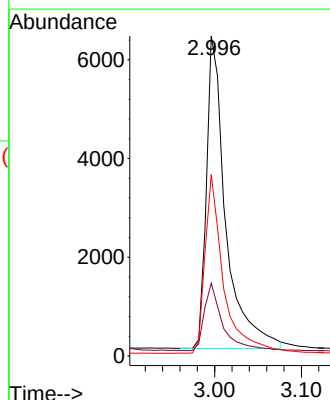
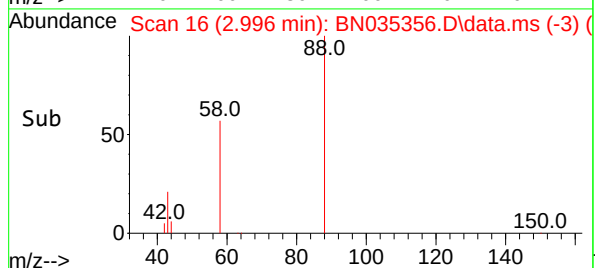
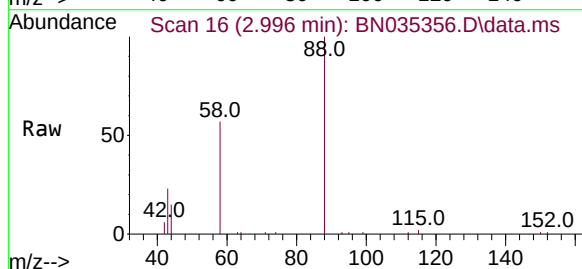


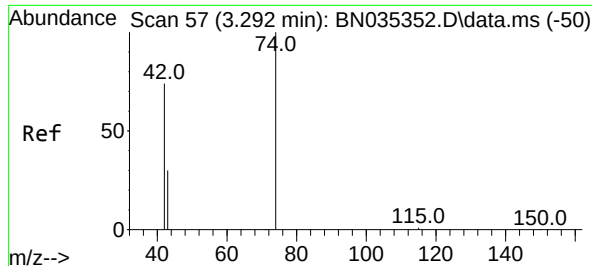
Tgt Ion:152 Resp: 2249
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 61.0 49.6 74.4



#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786
Ion Ratio Lower Upper
88 100
43 20.5 17.2 25.8
58 54.8 44.5 66.7

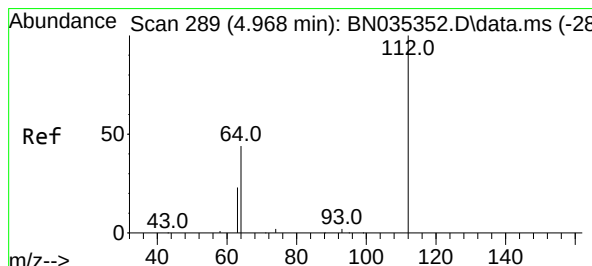
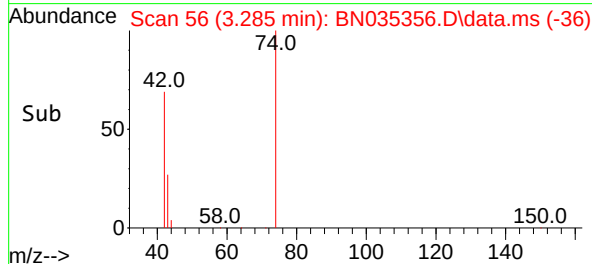
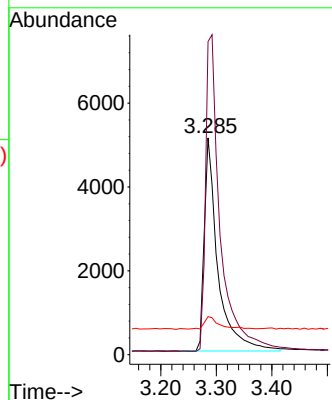
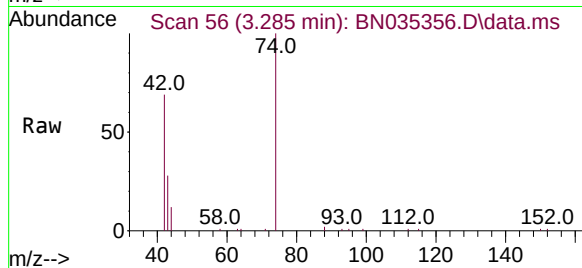




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

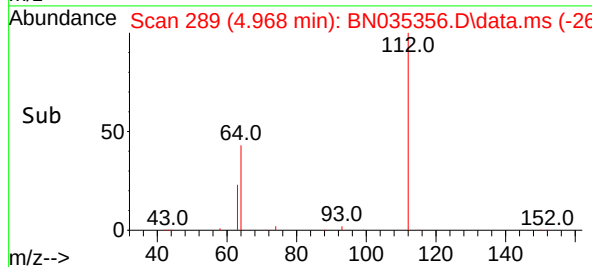
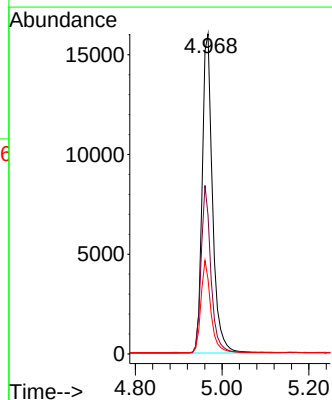
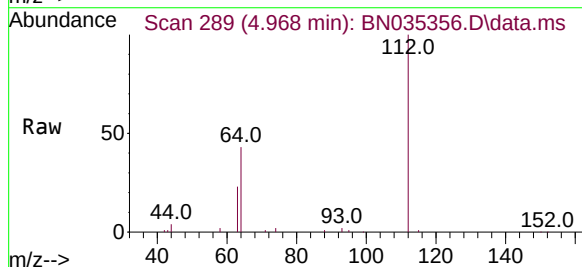
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

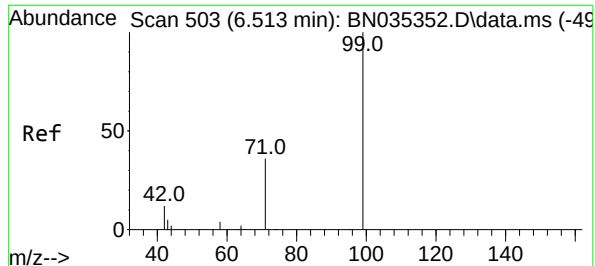
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 112 Resp: 26472
Ion Ratio Lower Upper
112 100
64 50.0 39.8 59.8
63 27.4 21.0 31.6

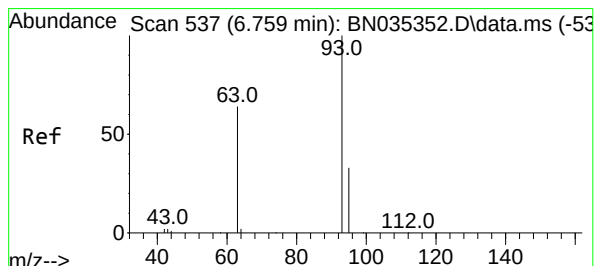
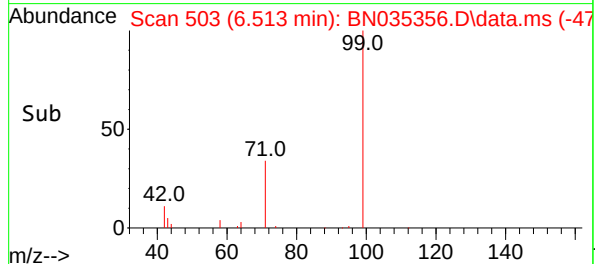
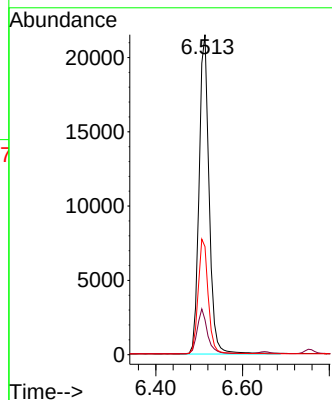
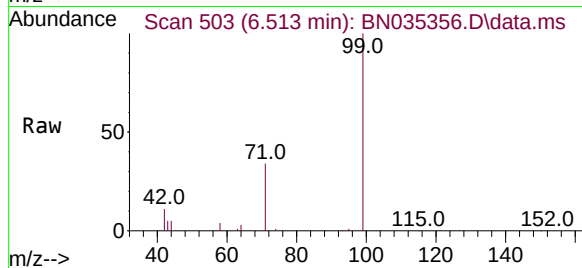




#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

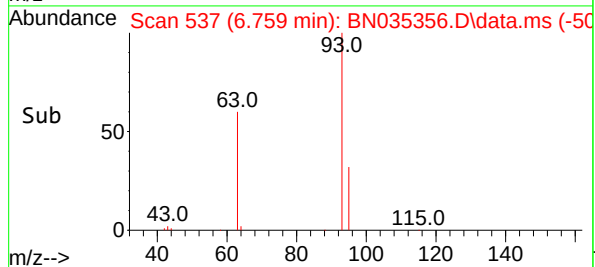
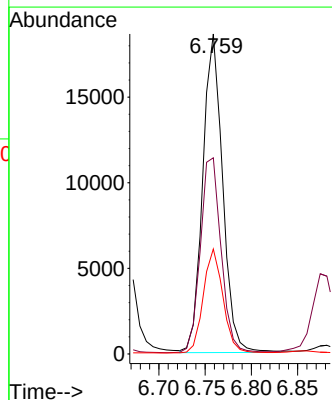
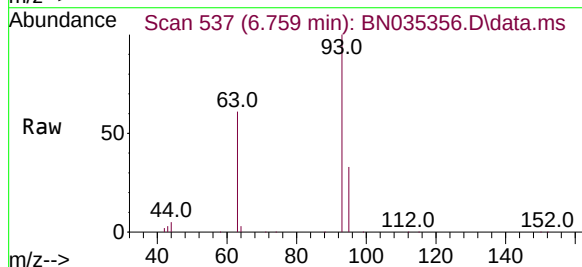
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

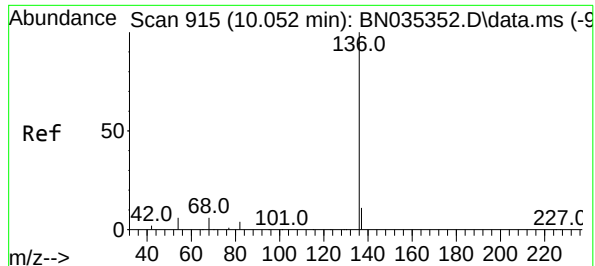
Tgt Ion: 99 Resp: 34560
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.4 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872
Ion Ratio Lower Upper
93 100
63 63.7 50.4 75.6
95 32.1 25.7 38.5

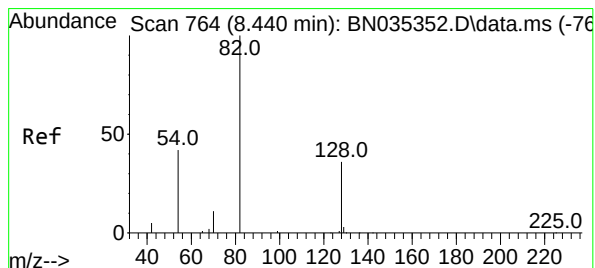
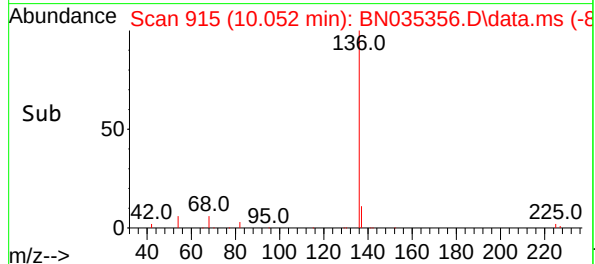
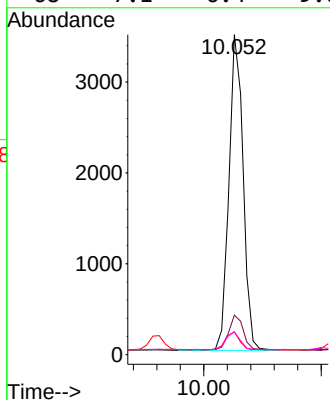
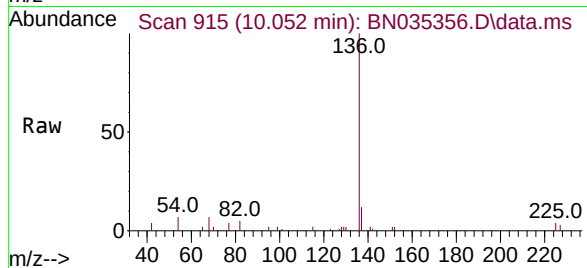




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

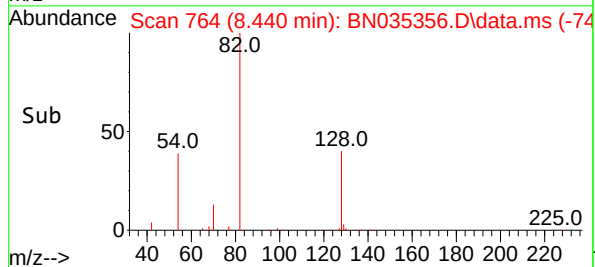
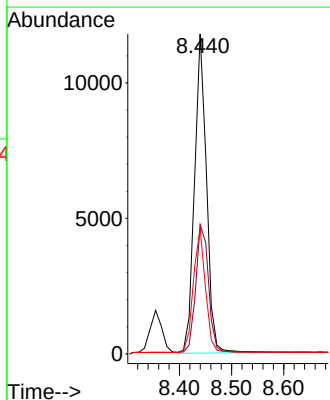
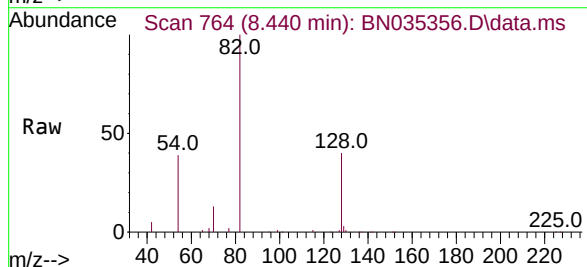
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

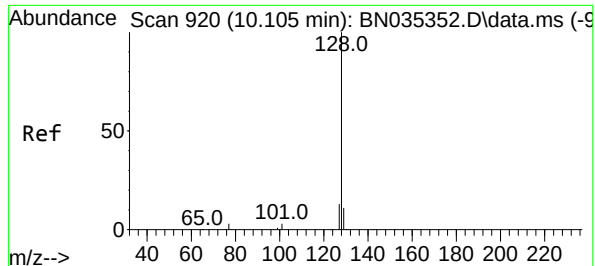
Tgt Ion:	136	Resp:	5807
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6



#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:	82	Resp:	18911
Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1

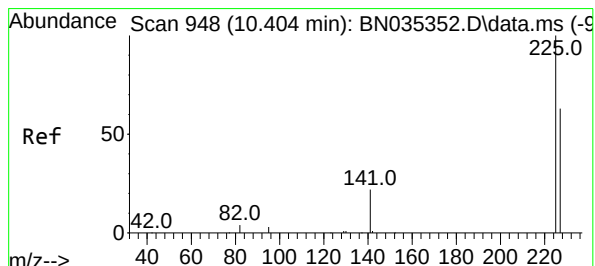
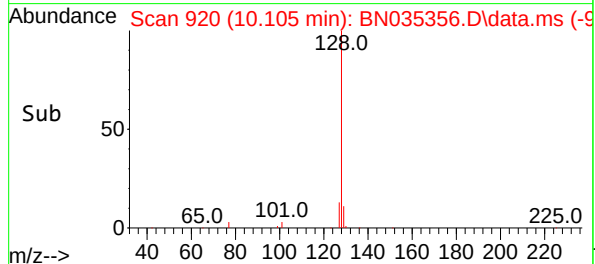
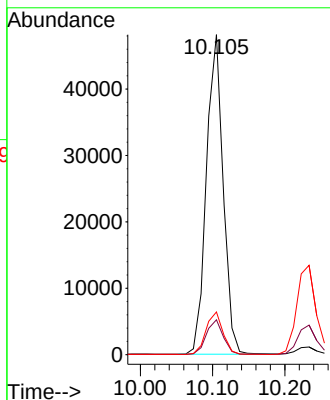
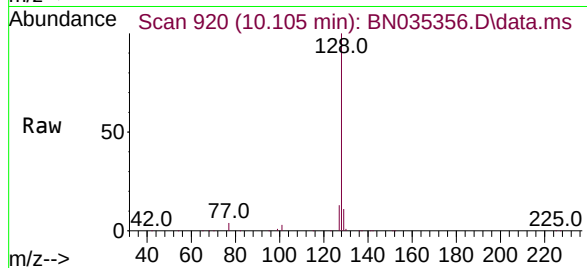




#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

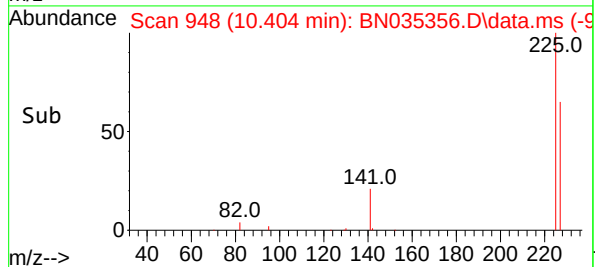
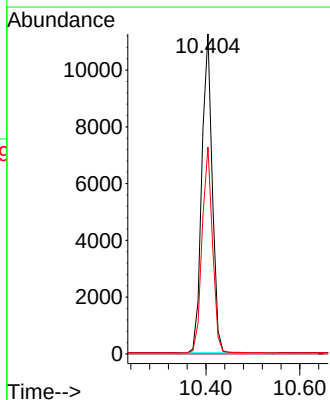
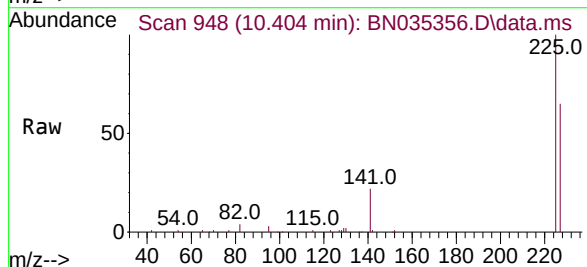
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

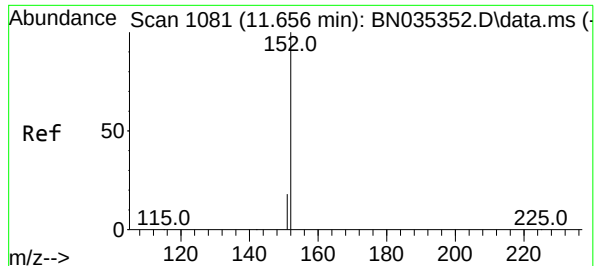
Tgt Ion:128 Resp: 77668
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.4 11.4 17.2



#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9

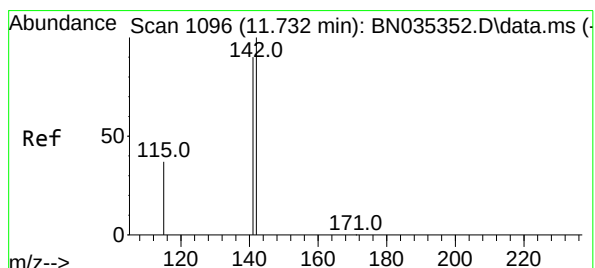
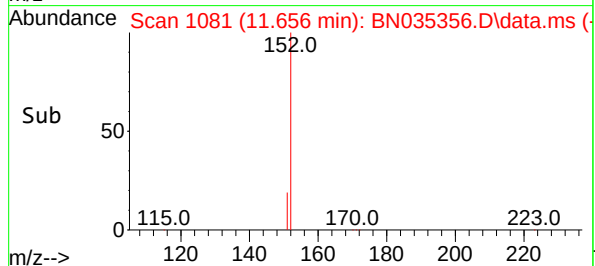
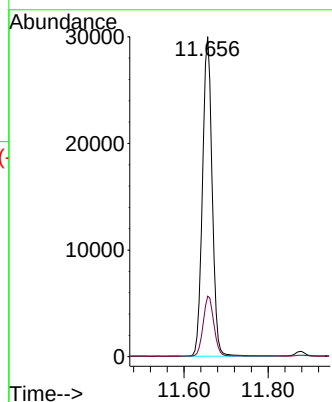
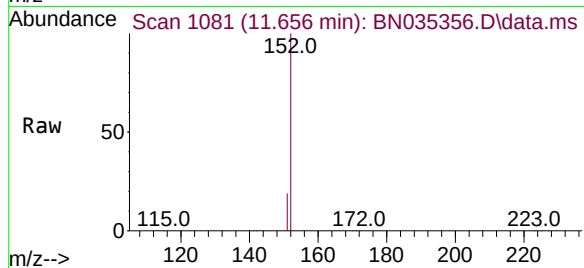




#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

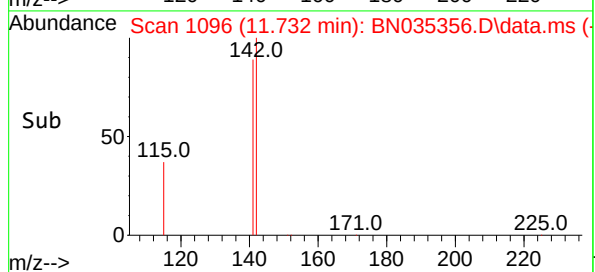
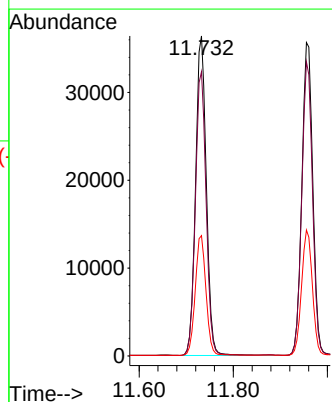
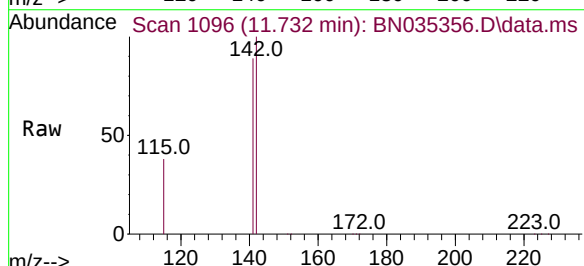
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

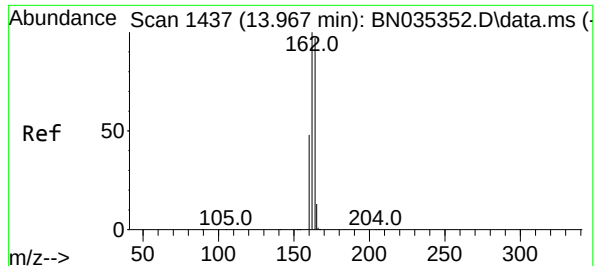
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 37.6 31.4 47.0

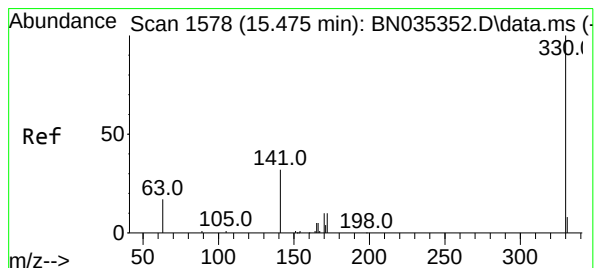
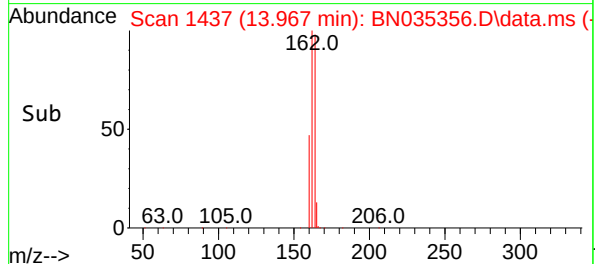
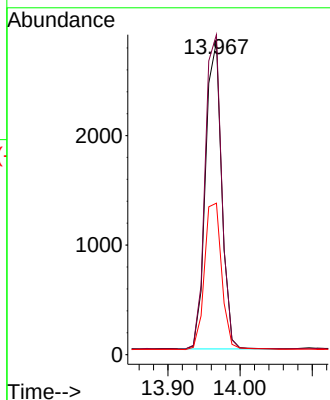
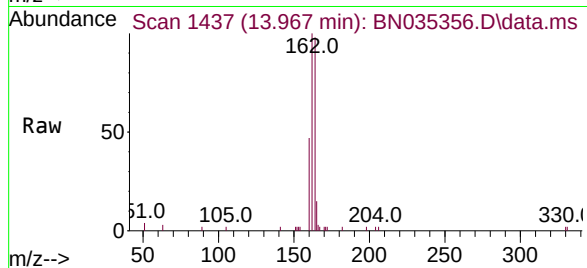




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

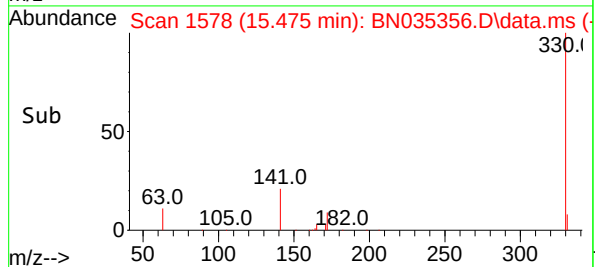
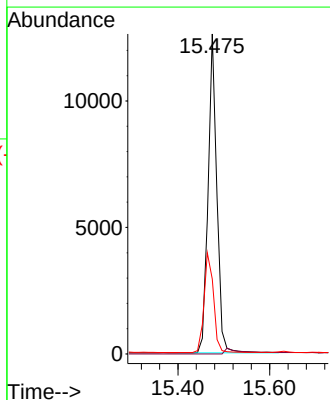
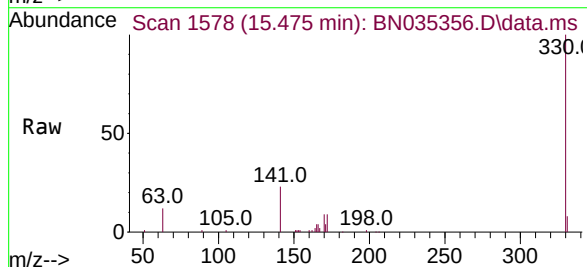
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

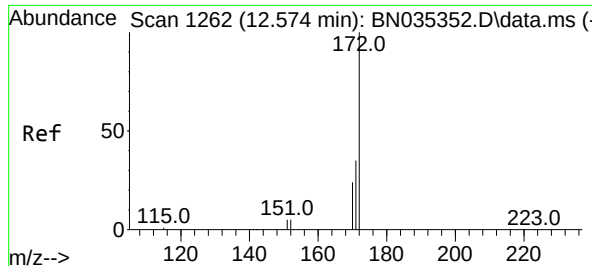
Tgt Ion:164 Resp: 4363
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 48.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.4 26.6 40.0

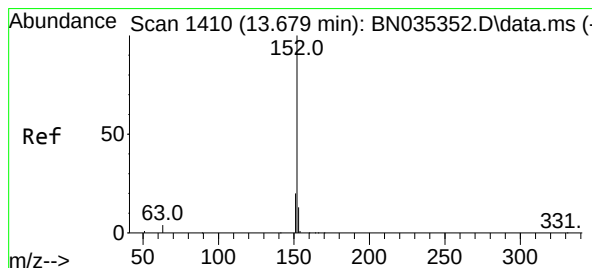
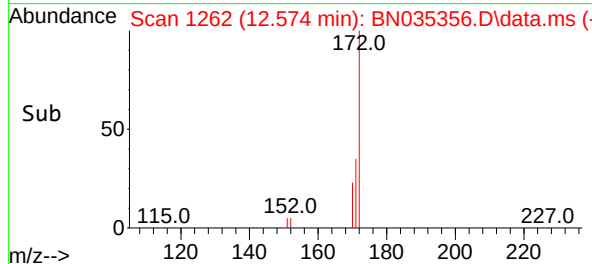
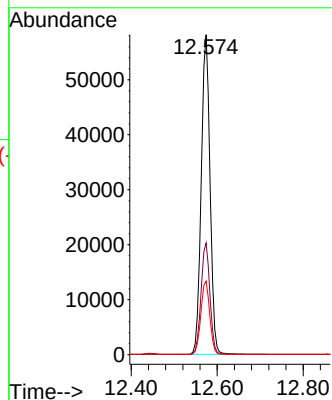
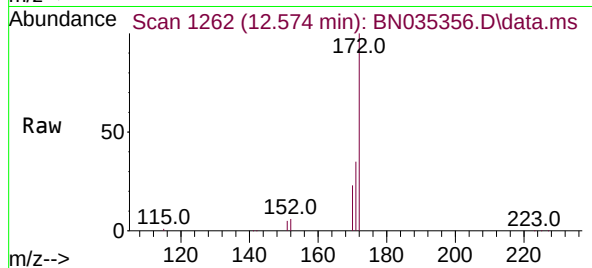




#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

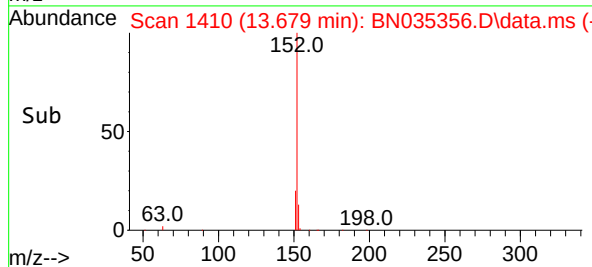
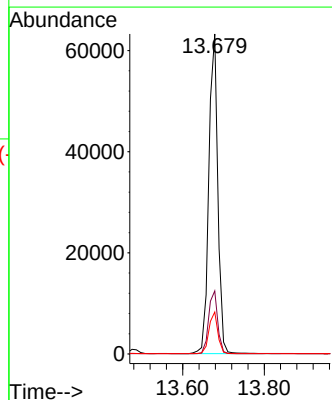
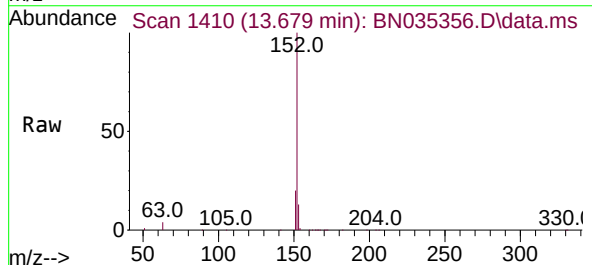
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

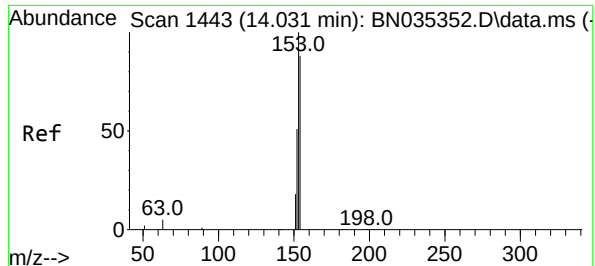
Tgt Ion:172 Resp: 82401
Ion Ratio Lower Upper
172 100
171 34.9 29.0 43.4
170 23.0 19.8 29.8



#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 12.9 10.4 15.6

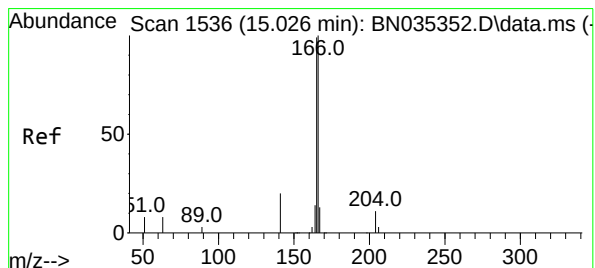
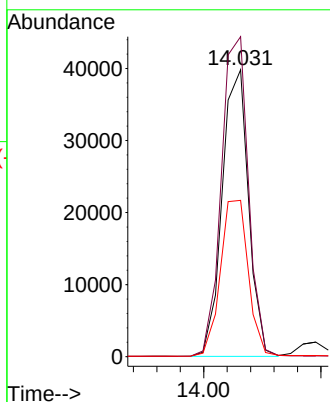
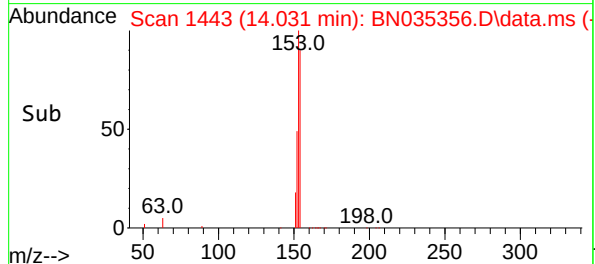
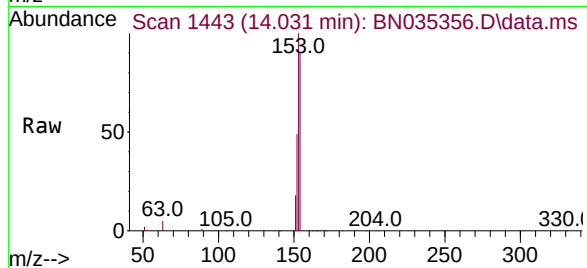




#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

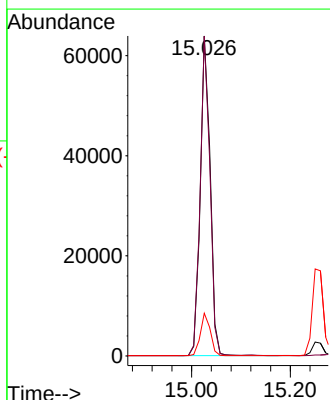
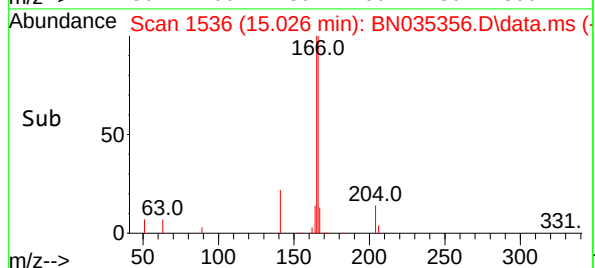
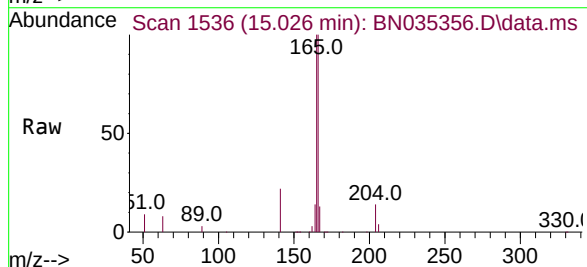
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

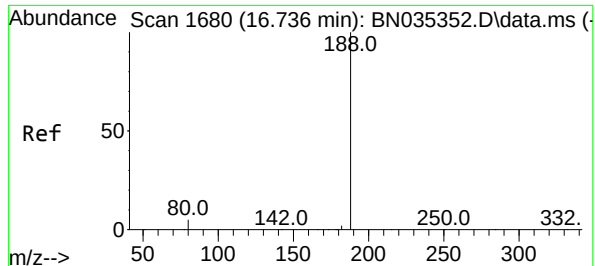
Tgt Ion:154 Resp: 62170
Ion Ratio Lower Upper
154 100
153 114.7 92.6 139.0
152 58.1 49.0 73.6



#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648
Ion Ratio Lower Upper
166 100
165 98.5 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

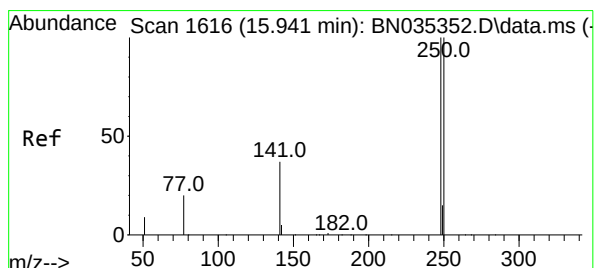
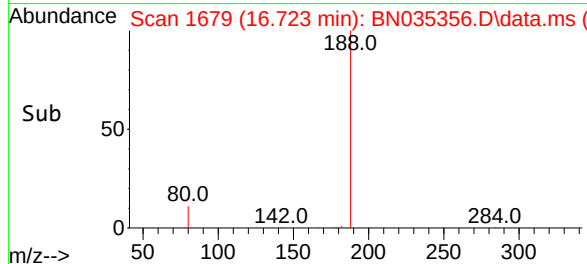
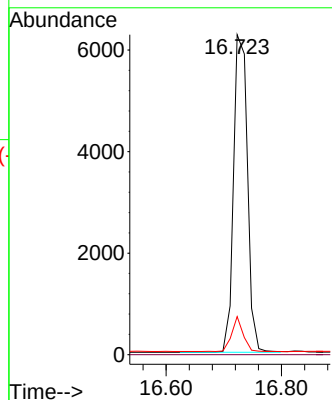
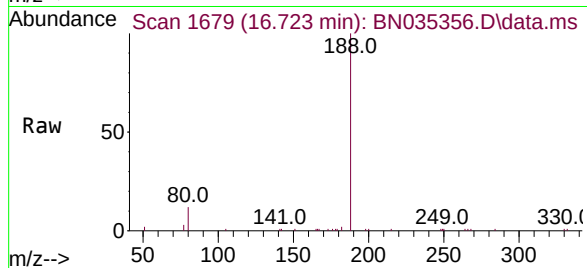
Tgt Ion:188 Resp: 10479

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 4.785 ng

RT: 15.941 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

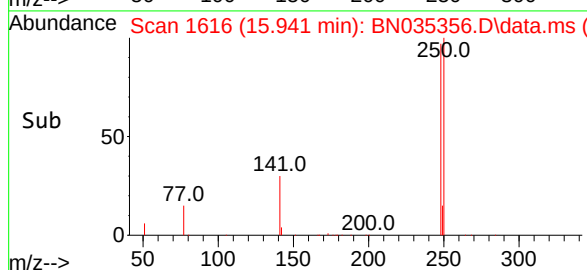
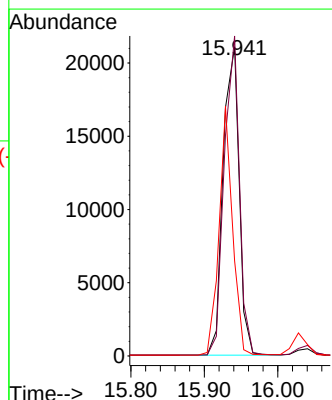
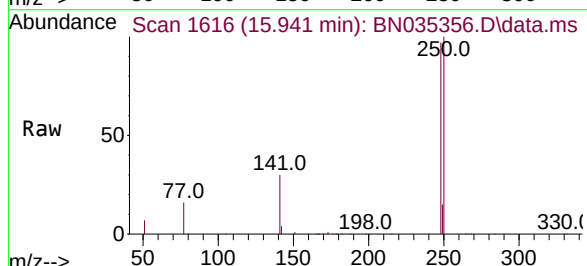
Tgt Ion:248 Resp: 31947

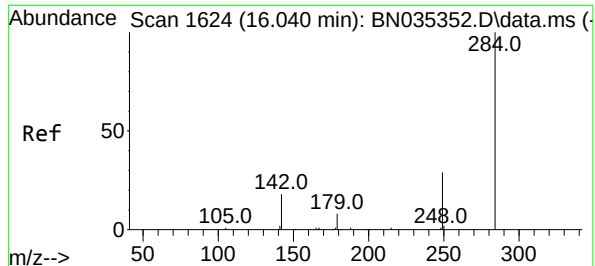
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#

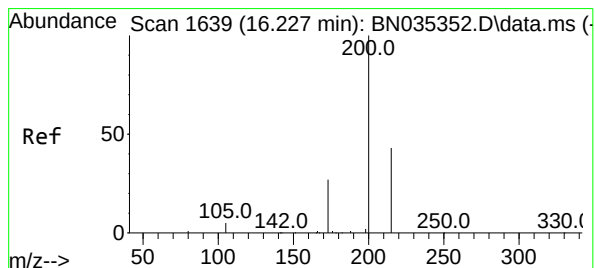
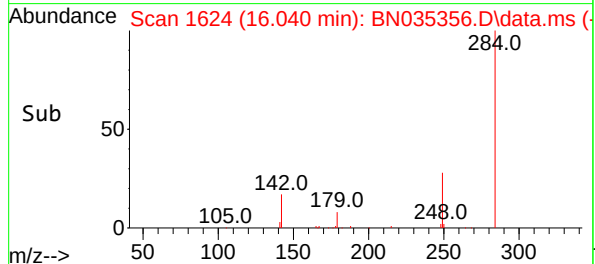
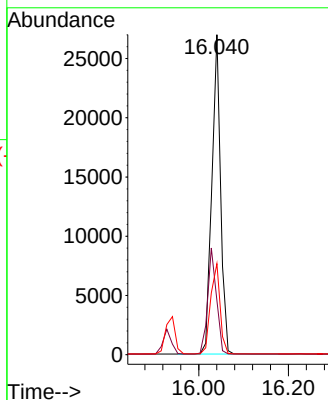
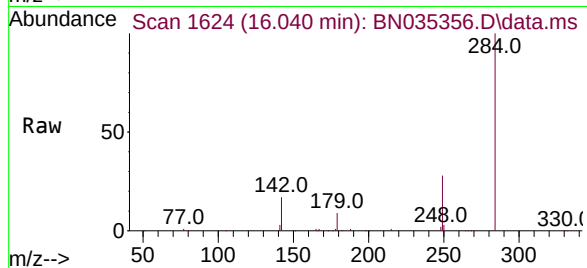




#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

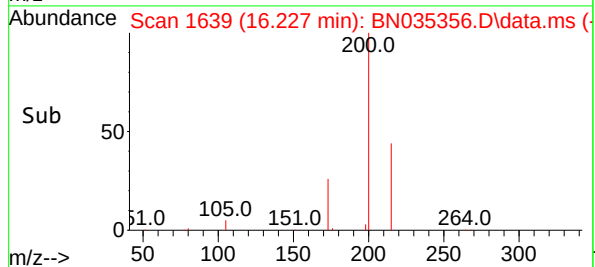
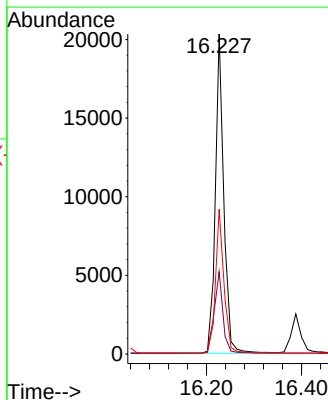
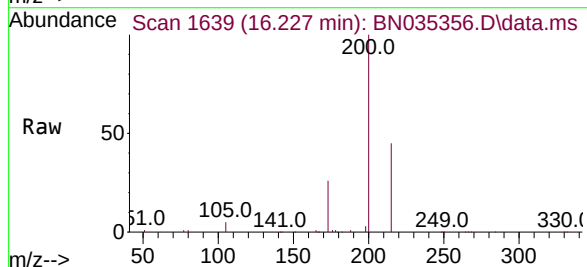
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

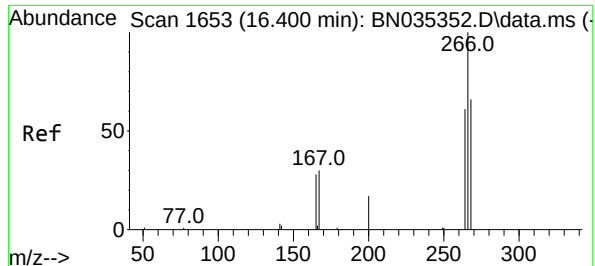
Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8



#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3





#24

Pentachlorophenol

Concen: 6.083 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

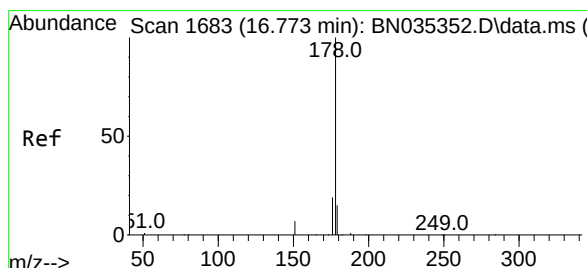
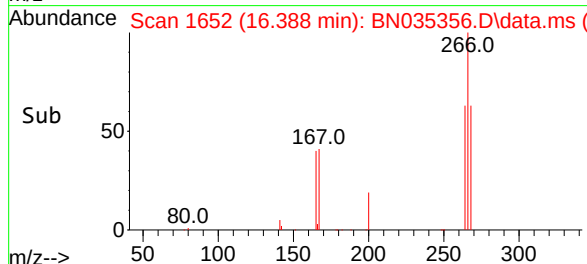
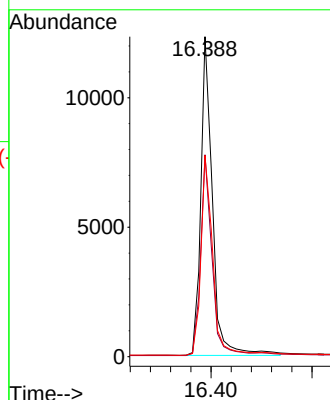
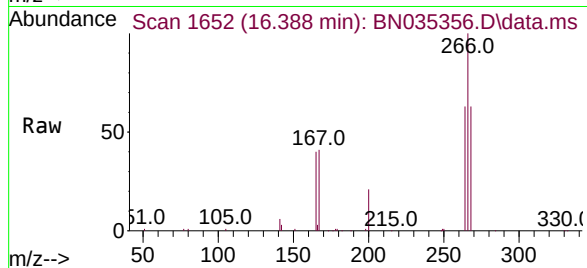
Tgt Ion:266 Resp: 19691

Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 64.1 43.3 64.9



#25

Phenanthrene

Concen: 5.343 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

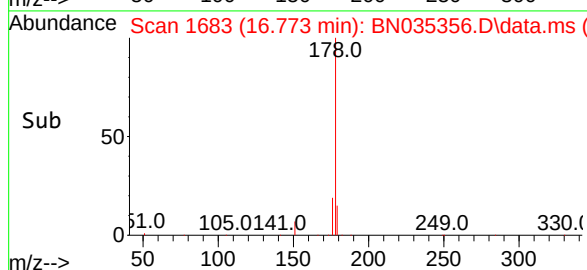
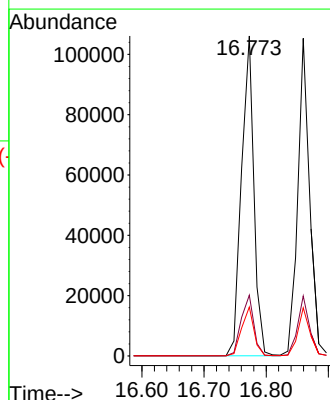
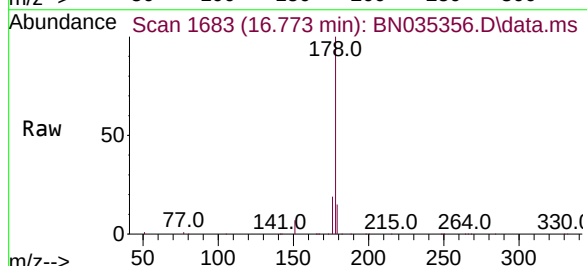
Tgt Ion:178 Resp: 147357

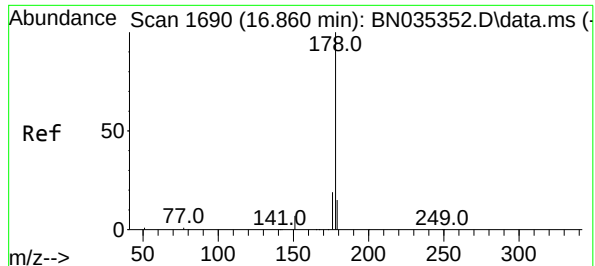
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

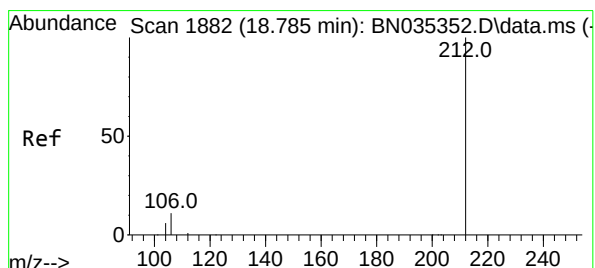
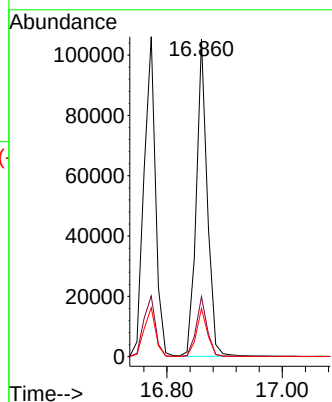
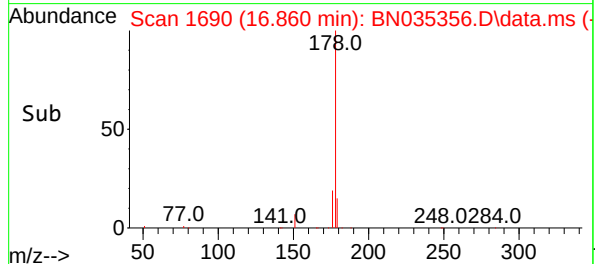
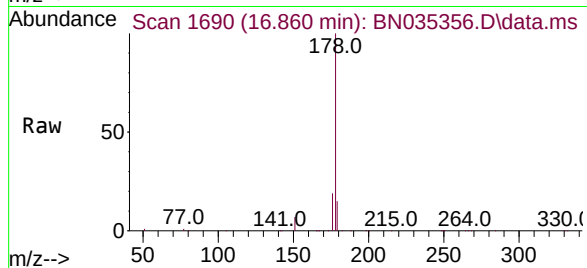




#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

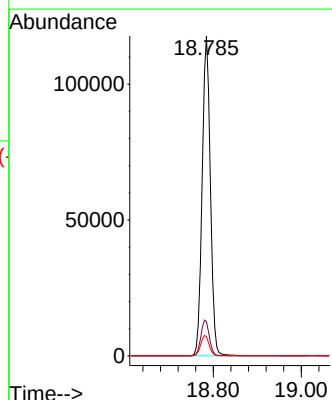
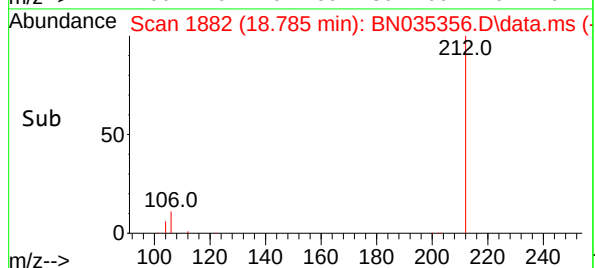
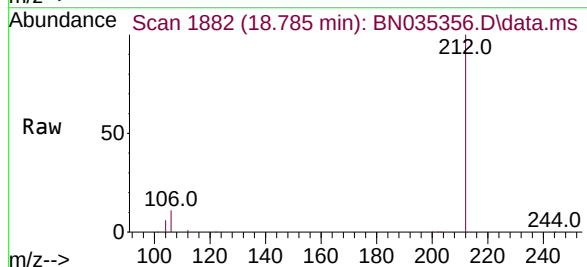
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

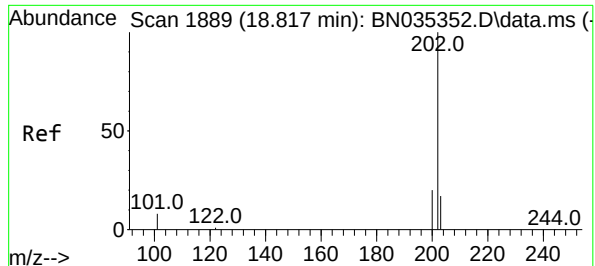
Tgt Ion:178 Resp: 139399
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.6 18.8



#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.5 5.3 7.9

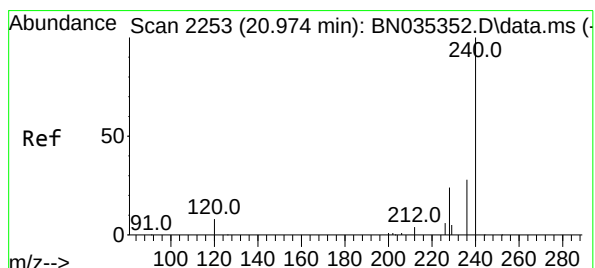
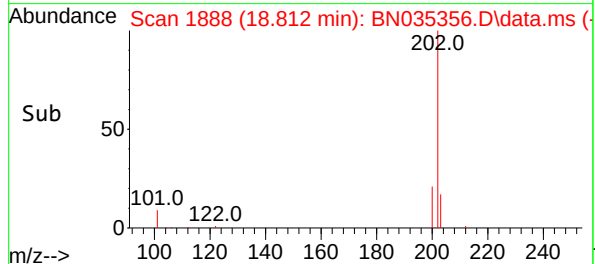
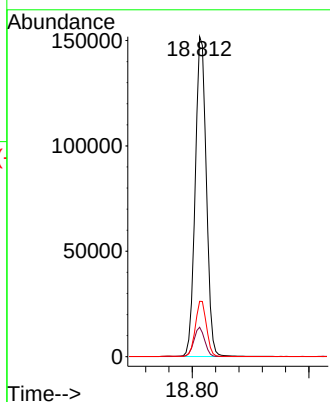
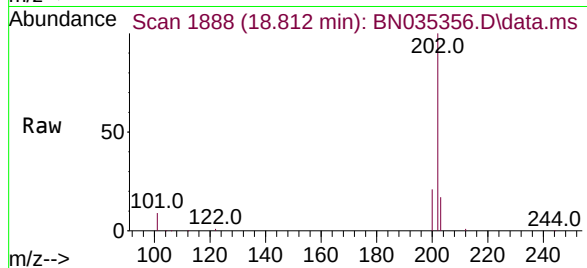




#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

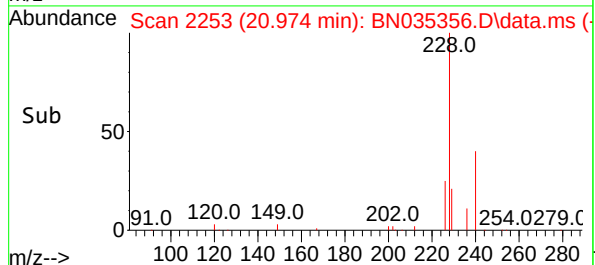
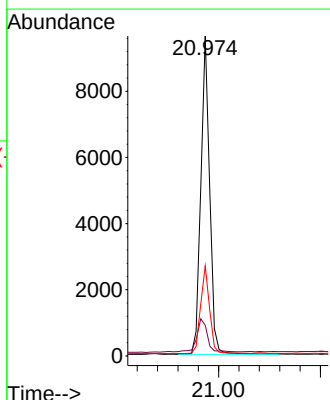
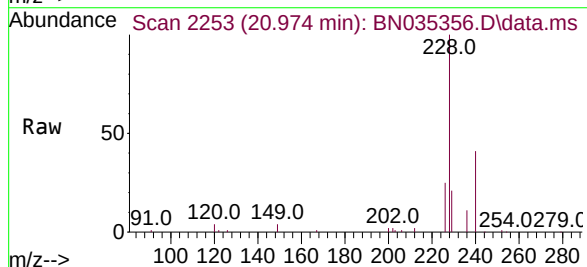
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

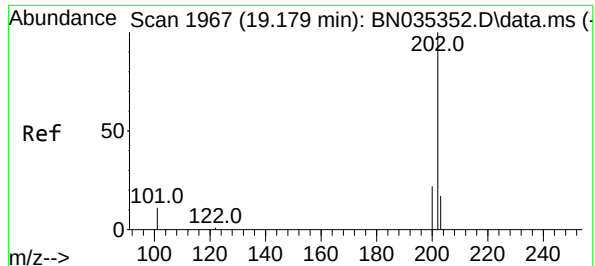
Tgt Ion:202 Resp: 199850
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.4 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520
Ion Ratio Lower Upper
240 100
120 9.6 7.9 11.9
236 28.1 22.9 34.3

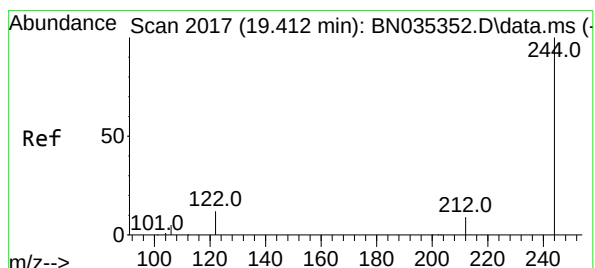
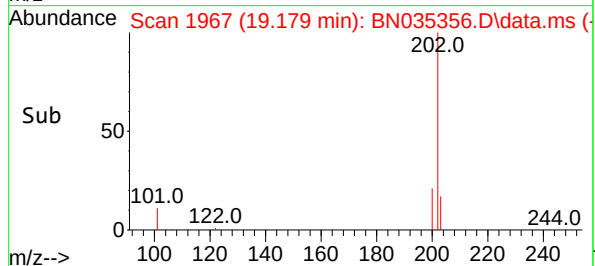
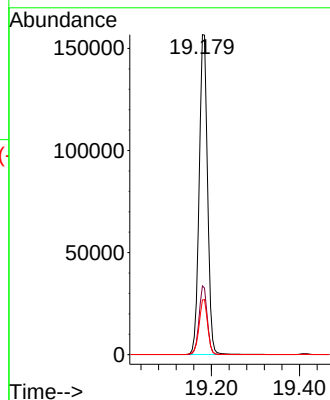
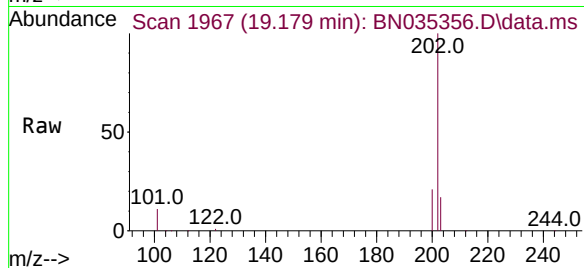




#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

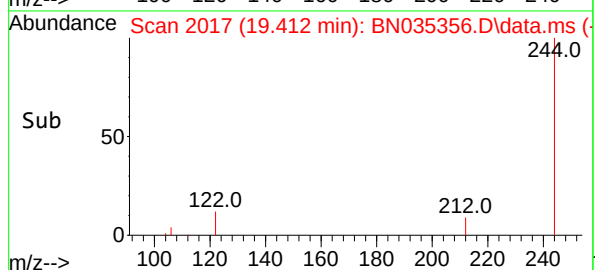
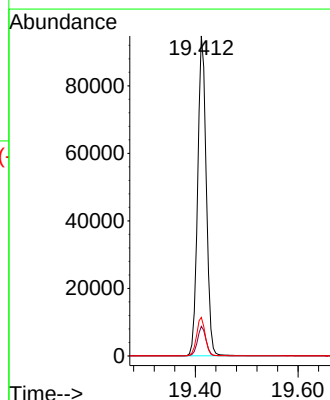
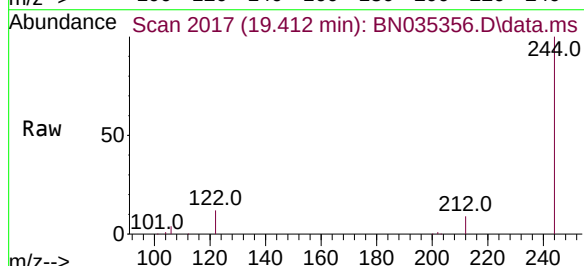
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

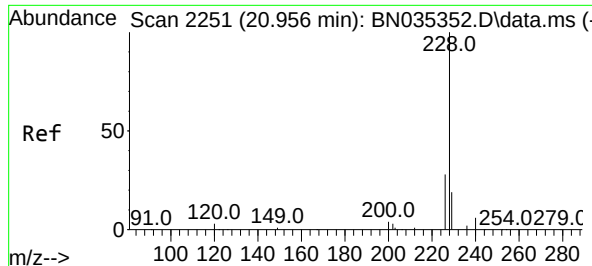
Tgt Ion:202 Resp: 206018
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737
Ion Ratio Lower Upper
244 100
212 9.2 8.1 12.1
122 12.1 10.3 15.5

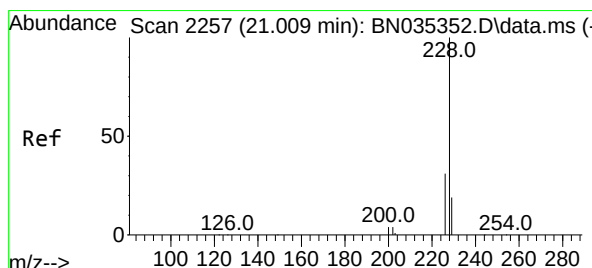
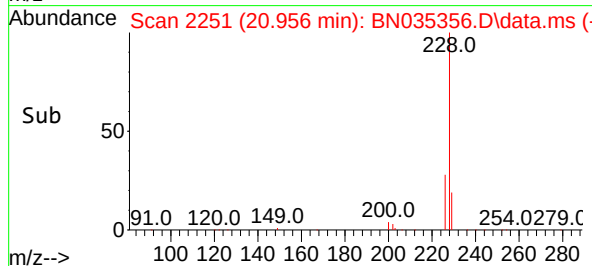
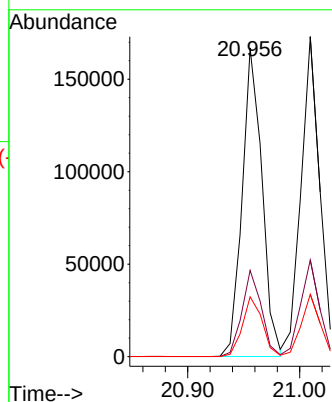
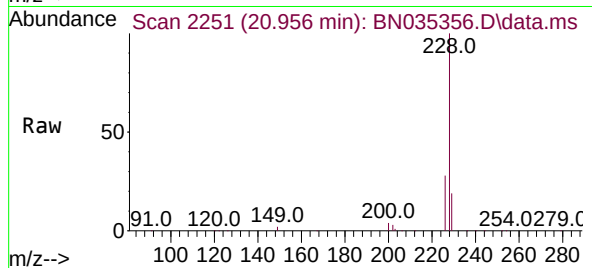




#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

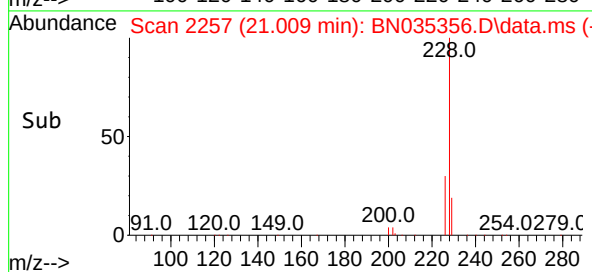
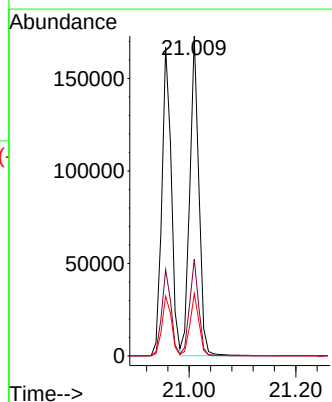
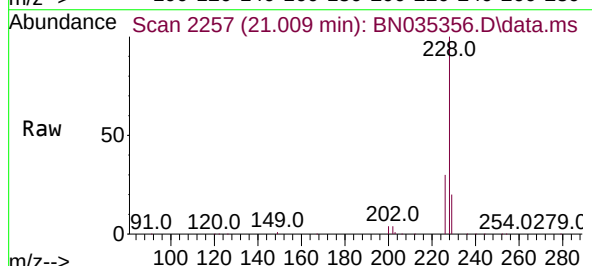
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

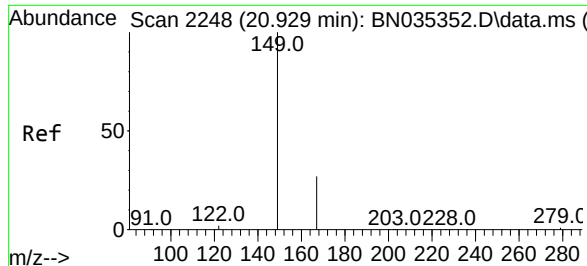
Tgt Ion:228 Resp: 205712
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.4 15.8 23.8



#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475
Ion Ratio Lower Upper
228 100
226 30.2 24.6 37.0
229 19.5 15.9 23.9

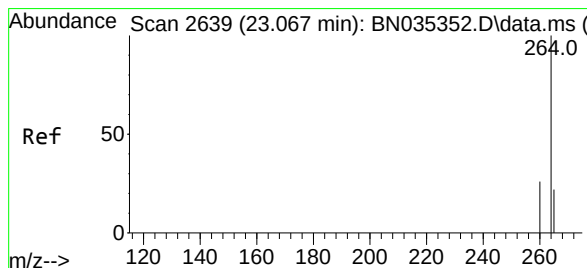
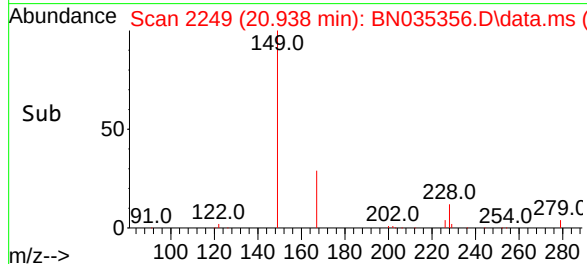
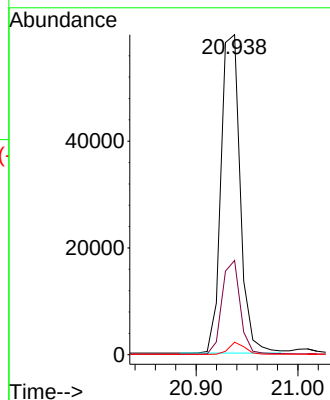
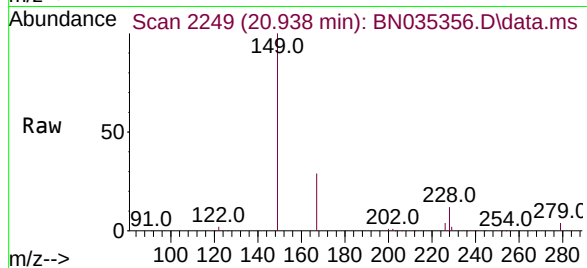




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

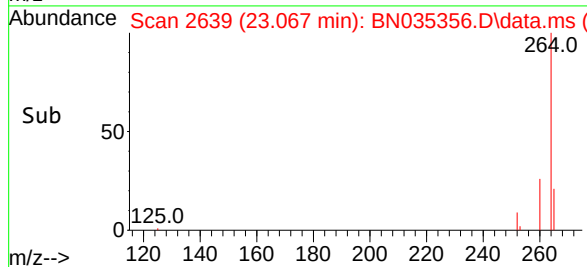
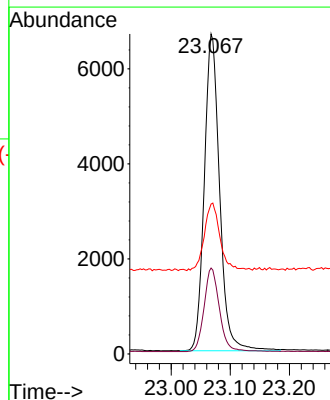
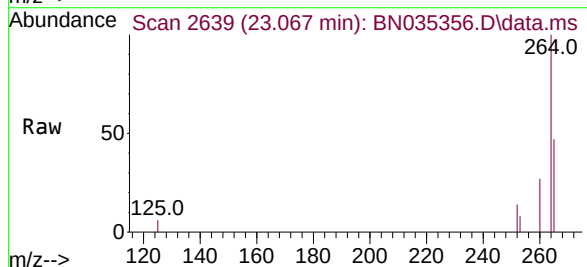
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

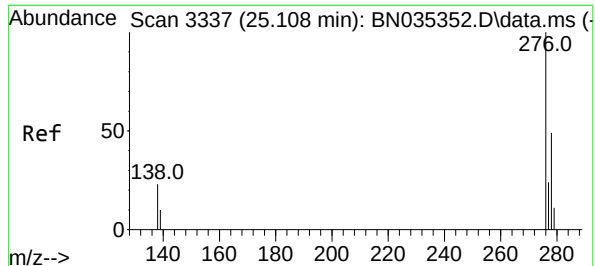
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 46.8 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.279 ng

RT: 25.108 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

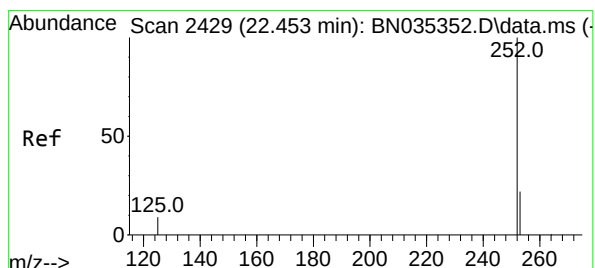
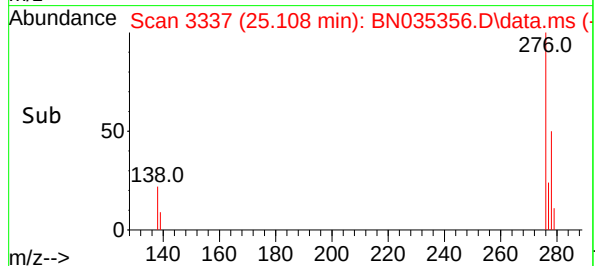
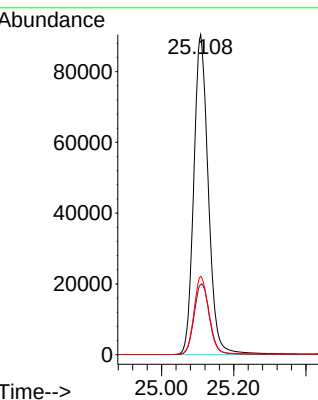
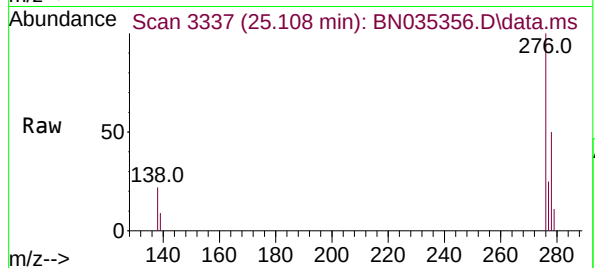
Tgt Ion:276 Resp: 252709

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 25.0 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 5.974 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

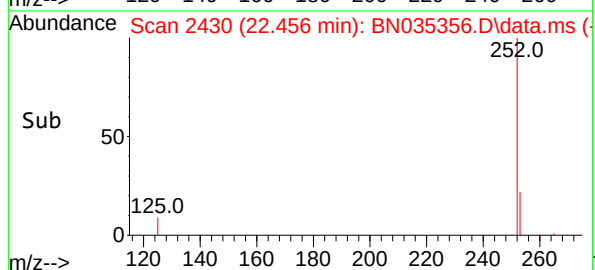
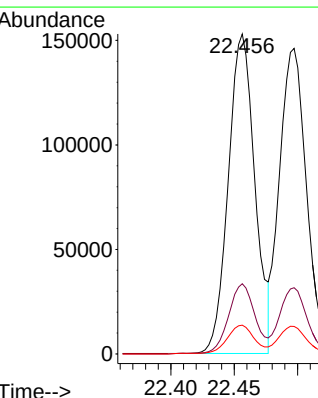
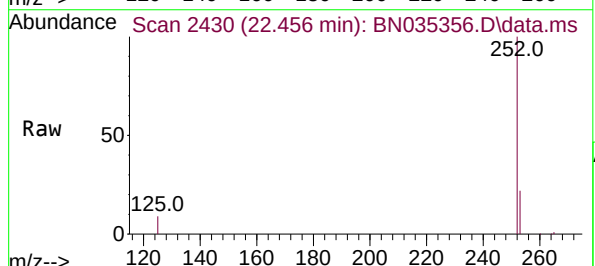
Tgt Ion:252 Resp: 241201

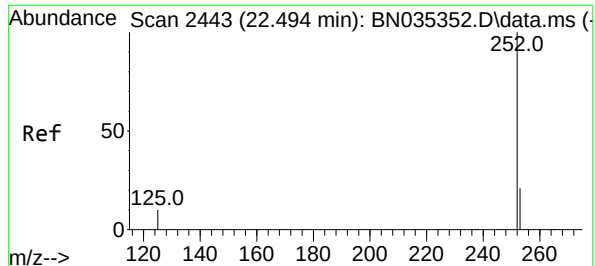
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

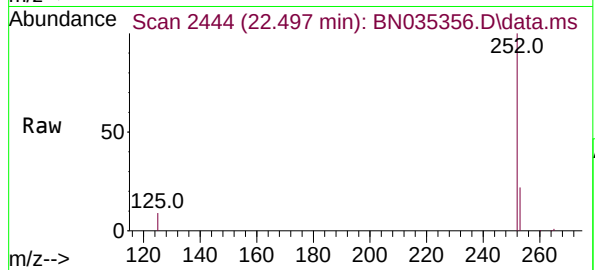
125 9.0 9.6 14.4#



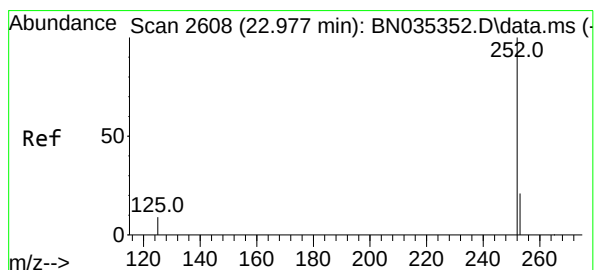
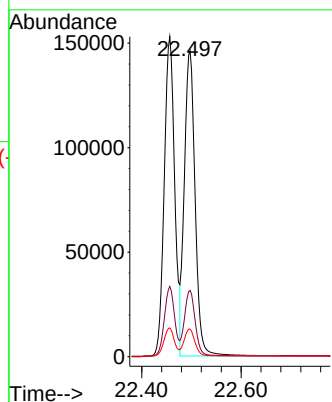


#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

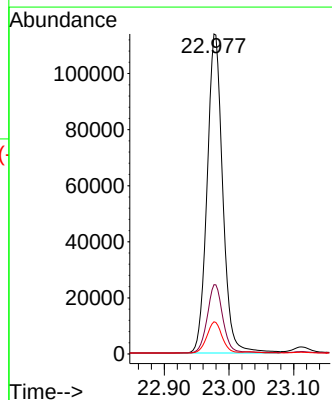
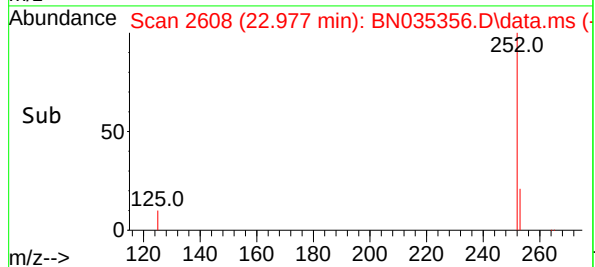
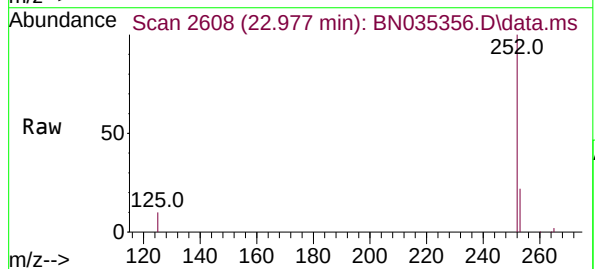


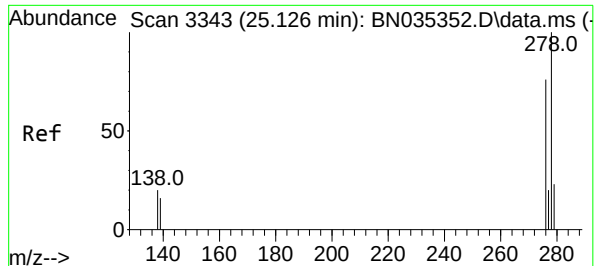
Tgt Ion:252 Resp: 220146
Ion Ratio Lower Upper
252 100
253 21.7 19.5 29.3
125 9.0 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665
Ion Ratio Lower Upper
252 100
253 21.6 20.2 30.4
125 10.0 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 5.269 ng

RT: 25.126 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

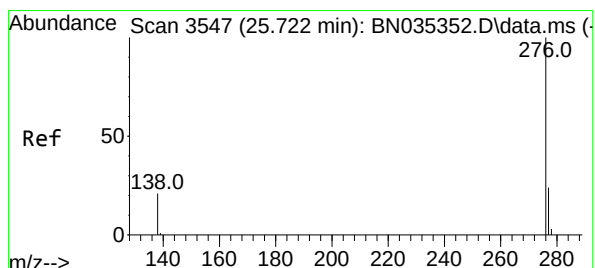
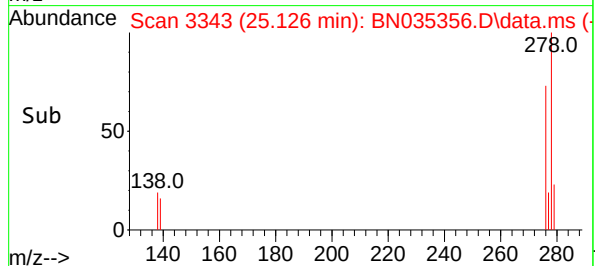
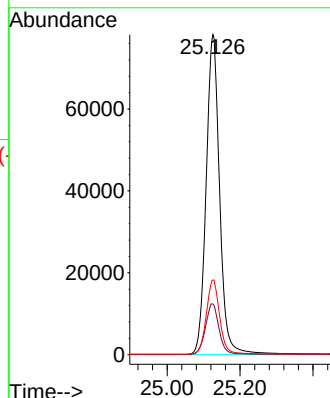
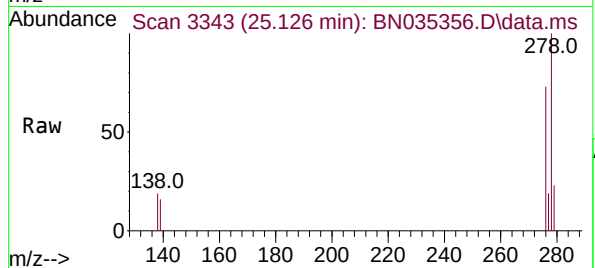
Tgt Ion:278 Resp: 199852

Ion Ratio Lower Upper

278 100

139 15.8 14.2 21.4

279 23.3 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 5.183 ng

RT: 25.725 min Scan# 3548

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

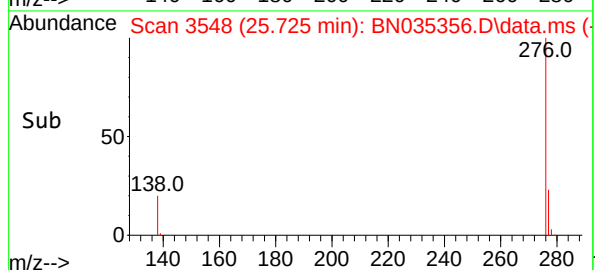
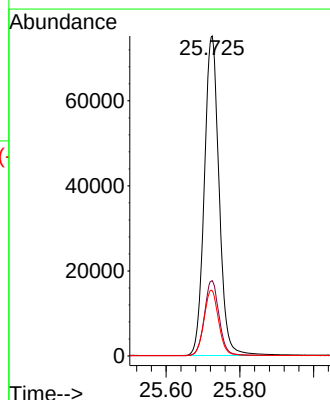
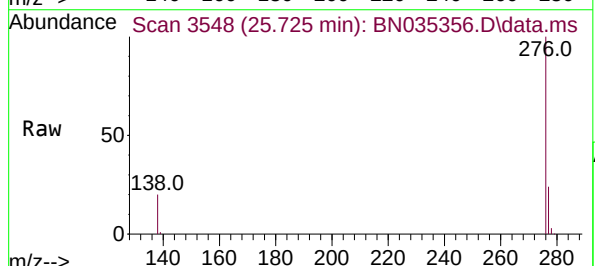
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng	99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	# 88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng	99
9) Naphthalene	10.105	128	4364	0.424	ng	99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng	98
16) Acenaphthylene	13.679	152	5261	0.435	ng	100
17) Acenaphthene	14.031	154	3421	0.426	ng	99
18) Fluorene	15.026	166	4825	0.420	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	# 86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng	99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng	99
23) Atrazine	16.227	200	1227	0.401	ng	99
24) Pentachlorophenol	16.400	266	662	0.301	ng	# 83
25) Phenanthrene	16.773	178	8509	0.421	ng	100
26) Anthracene	16.860	178	7849	0.430	ng	100
28) Fluoranthene	18.812	202	10941	0.402	ng	100
30) Pyrene	19.179	202	11476	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng	100
33) Chrysene	21.009	228	11926	0.436	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng	99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng	99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng	99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng	100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

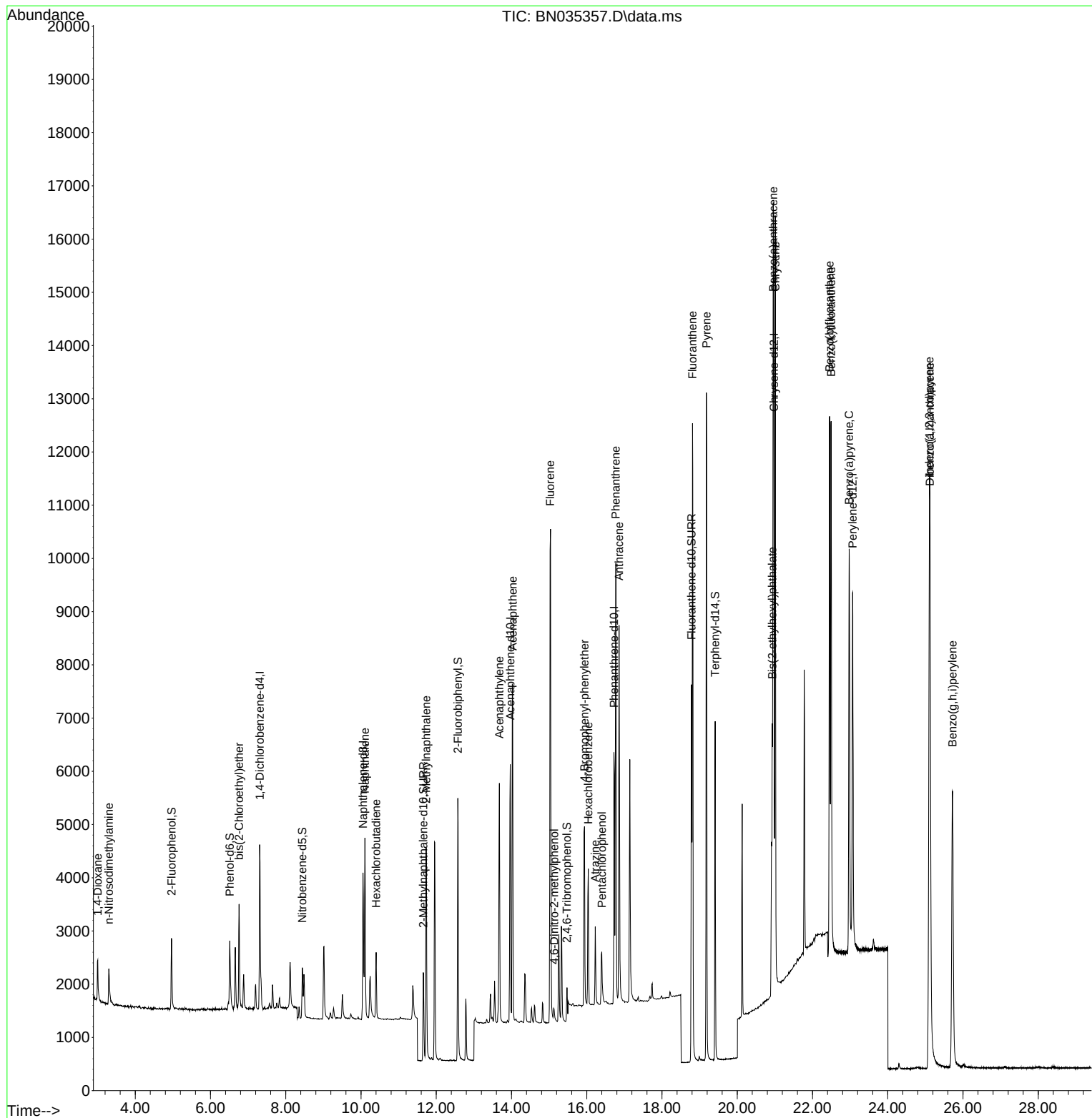
Manual Integrations

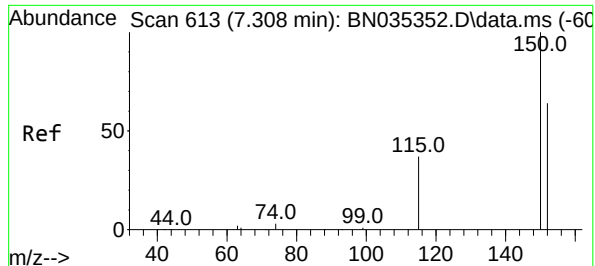
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

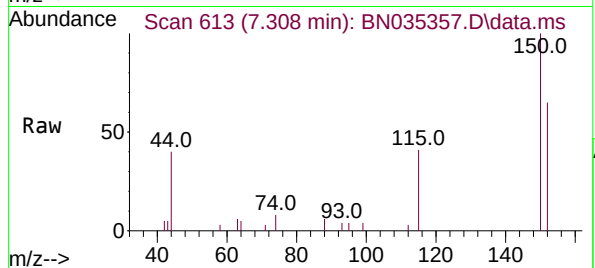
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

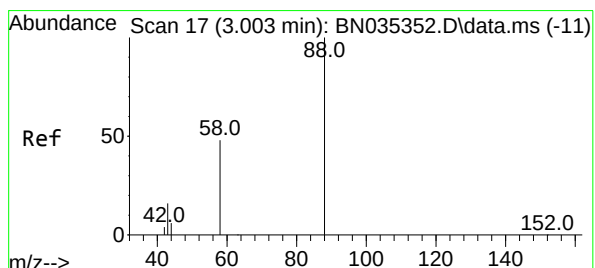
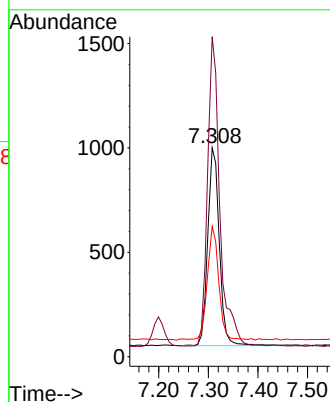
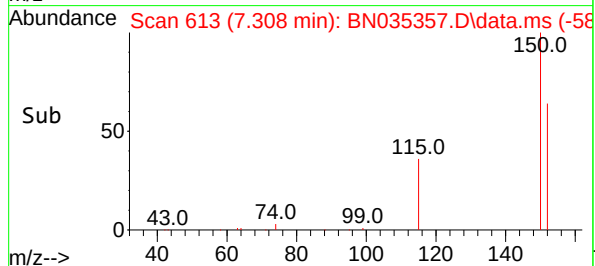
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion: 152 Resp: 1540
Ion Ratio Lower Upper
152 100
150 153.3 124.0 186.0
115 62.4 49.6 74.4

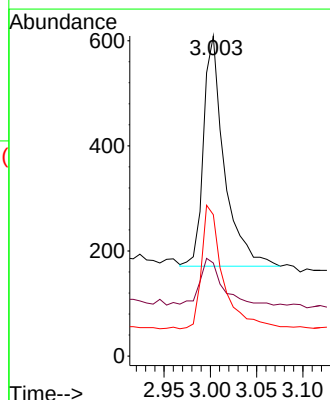
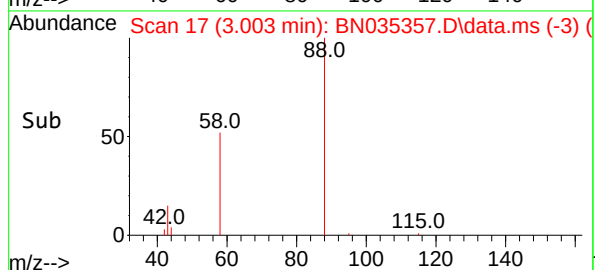
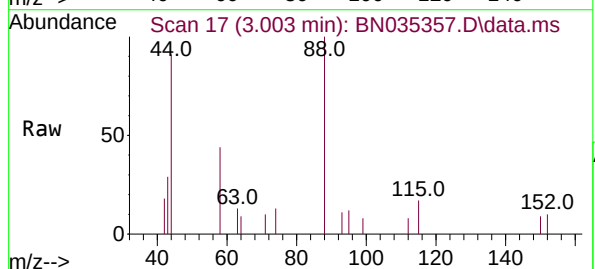
Manual Integrations
APPROVED

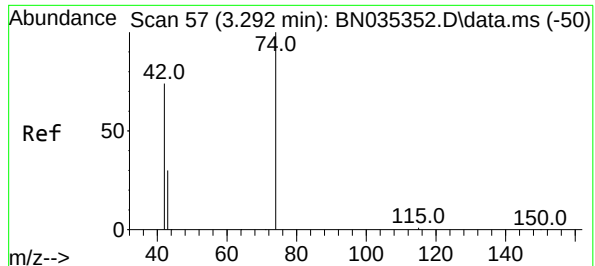
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

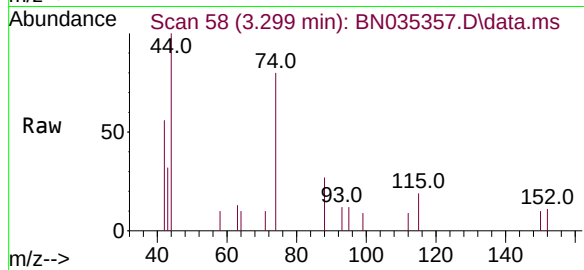
Tgt Ion: 88 Resp: 684
Ion Ratio Lower Upper
88 100
43 21.8 17.2 25.8
58 56.0 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

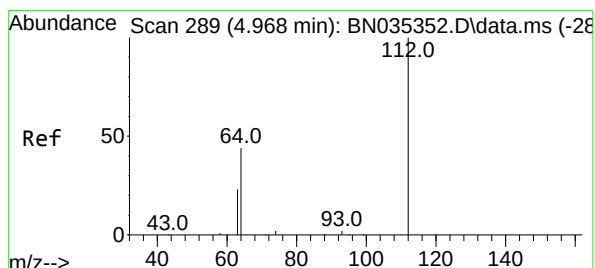
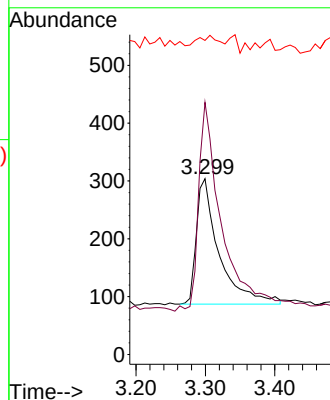
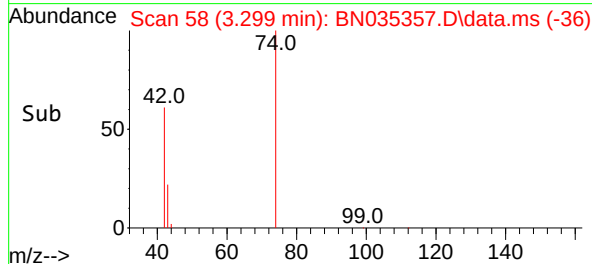
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4

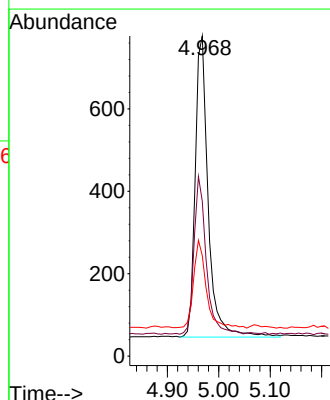
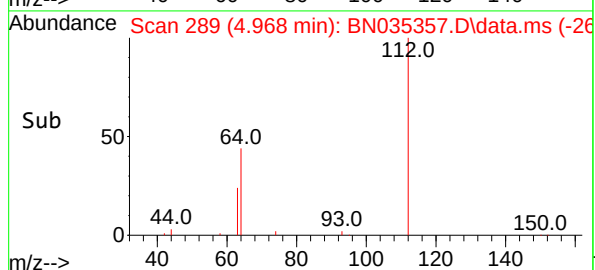
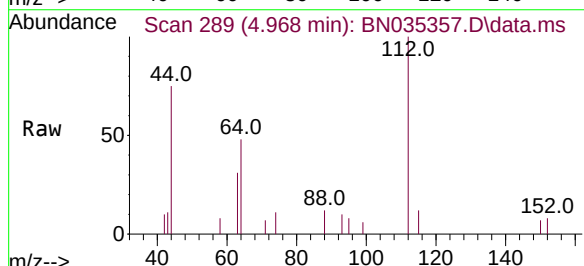
Manual Integrations
APPROVED

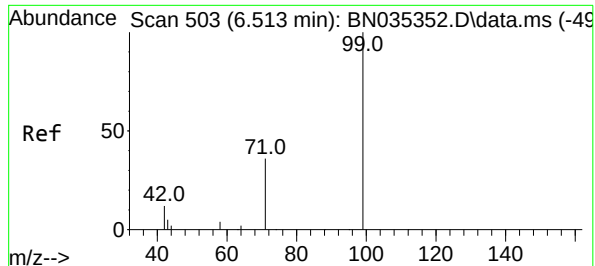
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

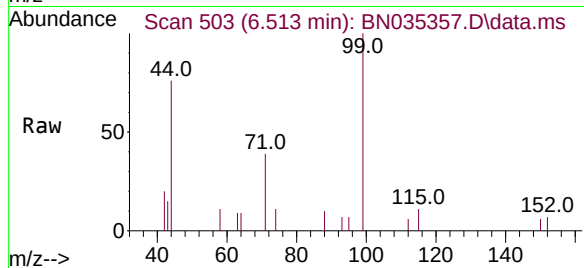
Tgt Ion:112 Resp: 1280
Ion Ratio Lower Upper
112 100
64 49.0 39.8 59.8
63 28.4 21.0 31.6





#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

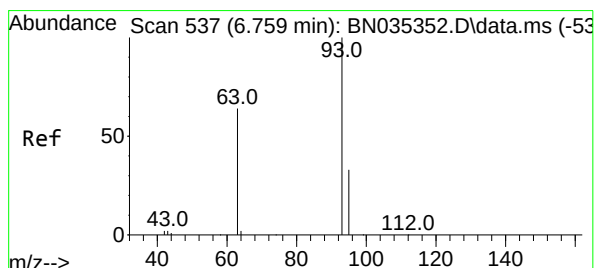
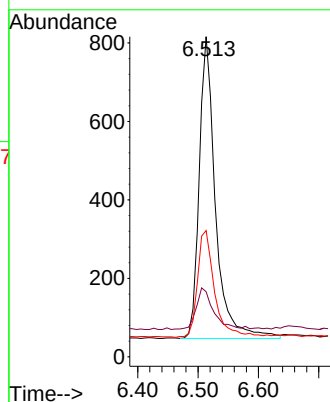
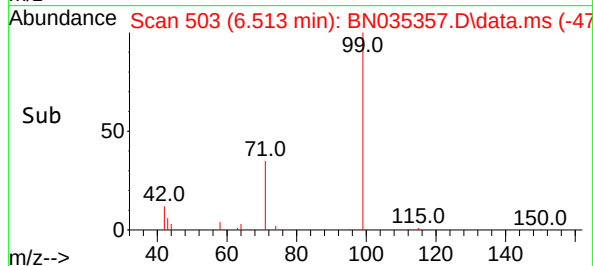
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion: 99 Resp: 143
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 37.2 29.3 43.9

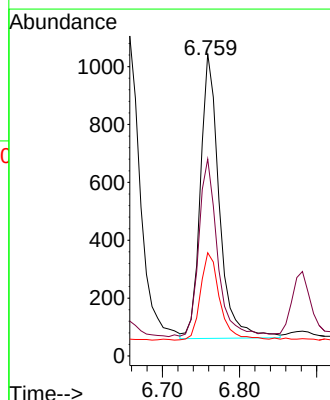
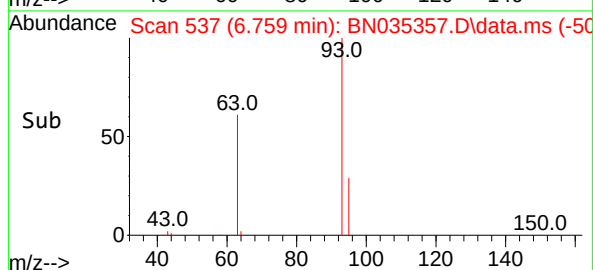
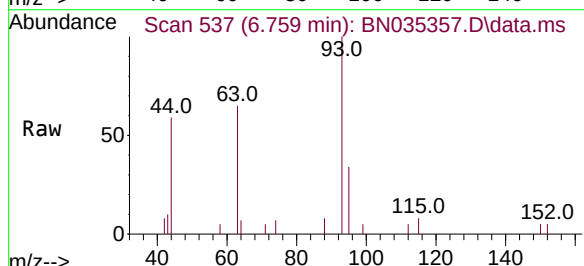
Manual Integrations
APPROVED

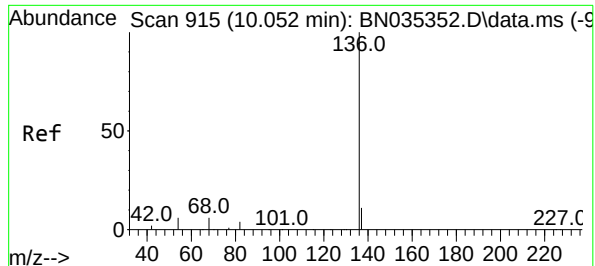
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

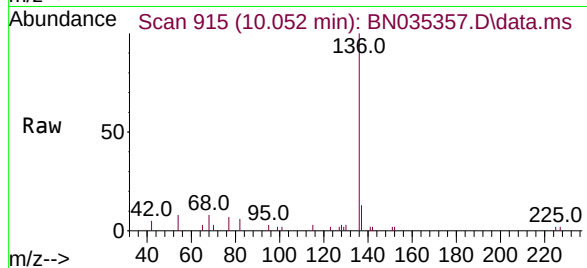
Tgt Ion: 93 Resp: 1676
Ion Ratio Lower Upper
93 100
63 62.1 50.4 75.6
95 31.4 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

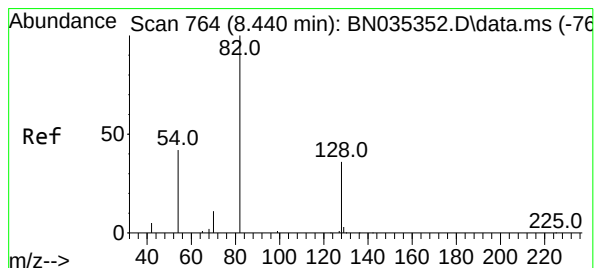
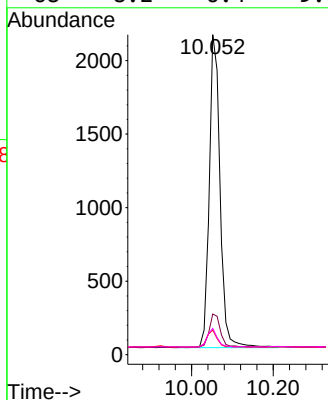
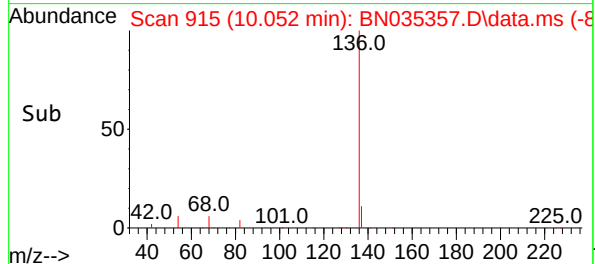
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

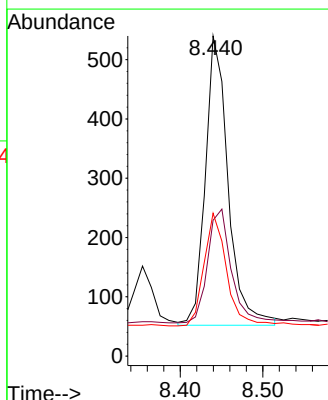
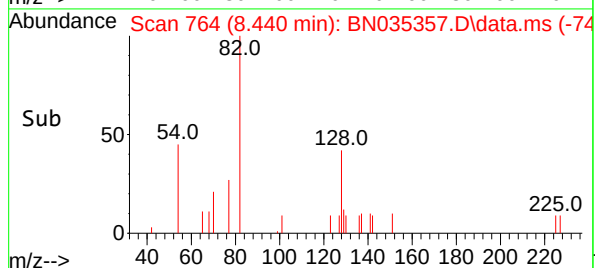
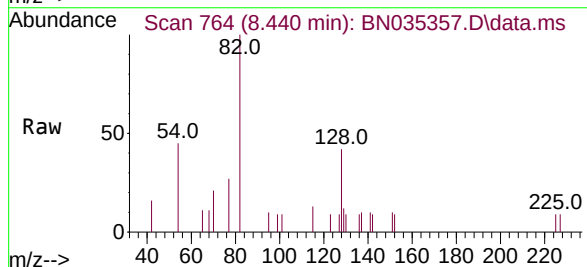
Manual Integrations
APPROVED

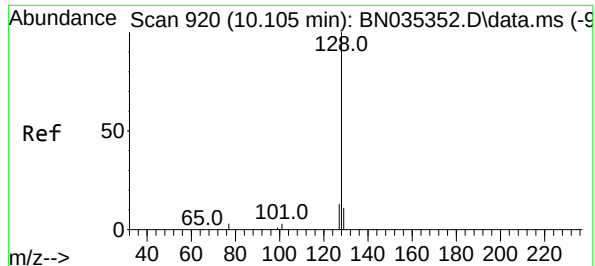
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

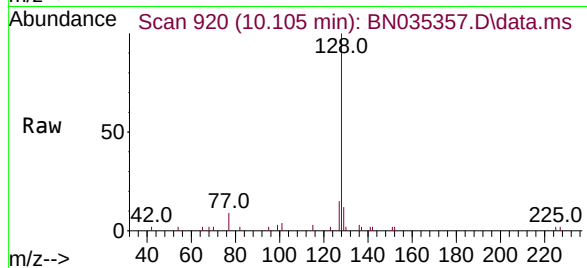
Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1





#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

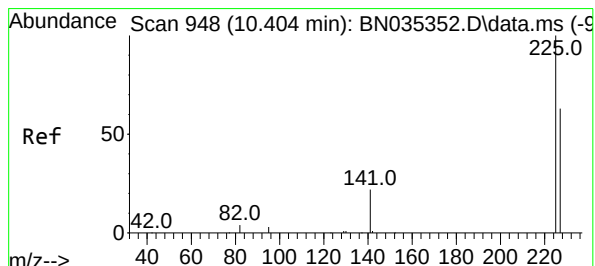
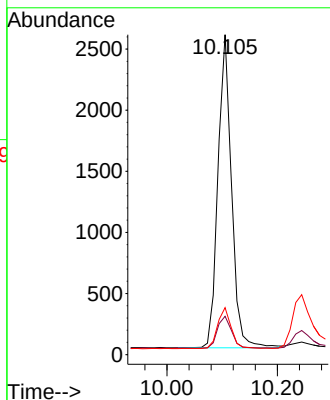
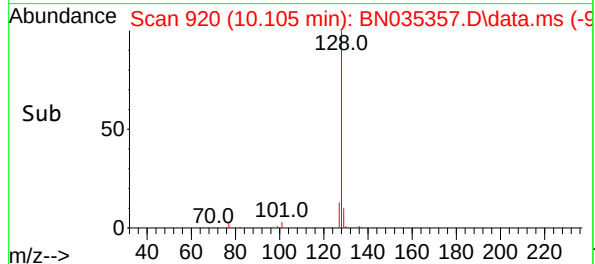
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2

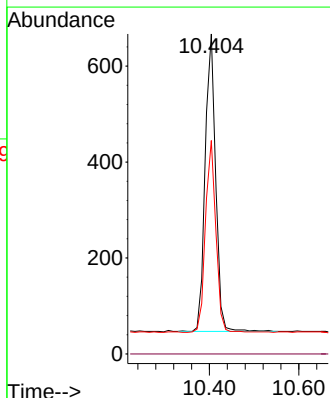
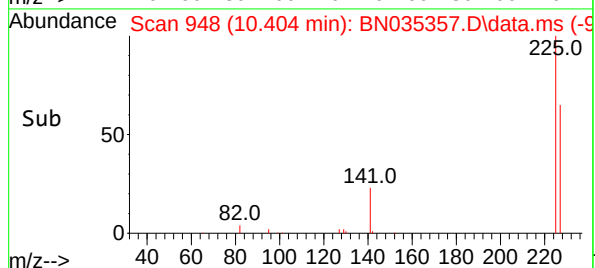
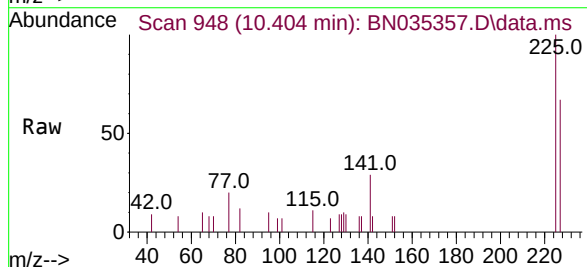
Manual Integrations
APPROVED

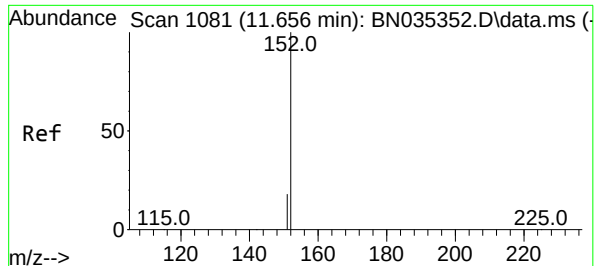
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

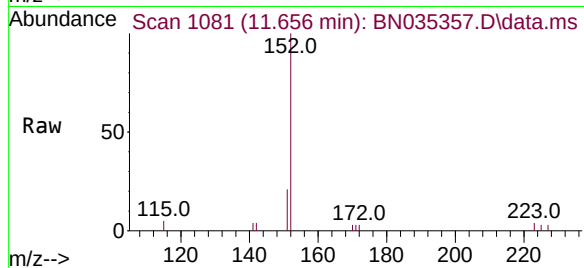
Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

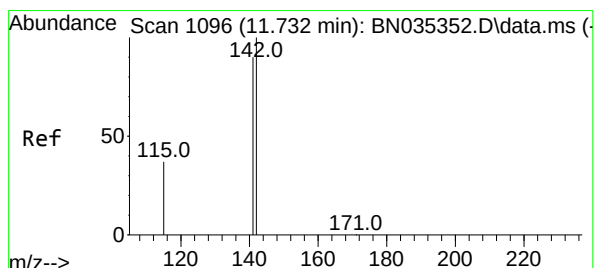
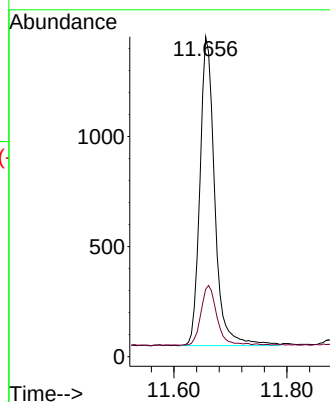
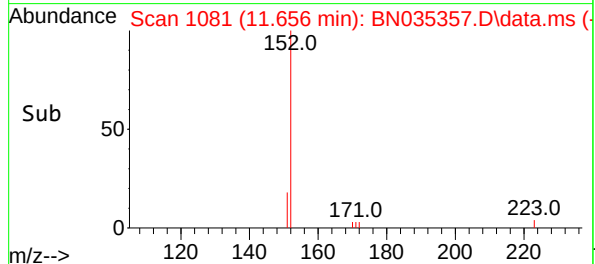
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:152 Resp: 256
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0

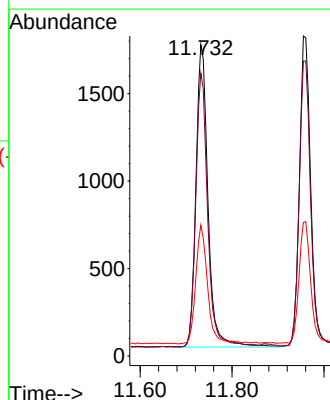
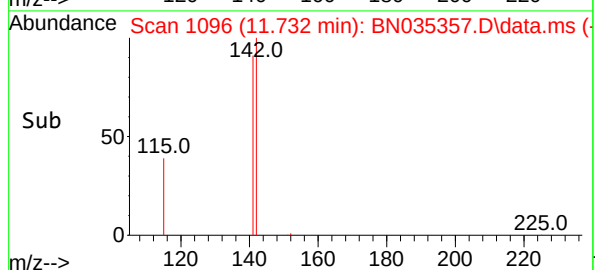
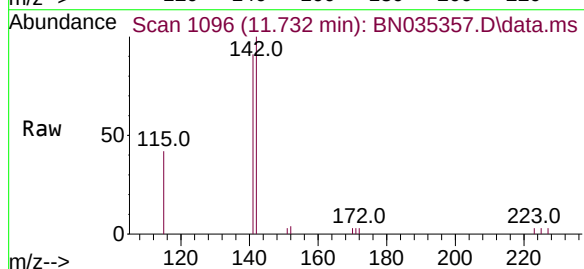
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APPROVED

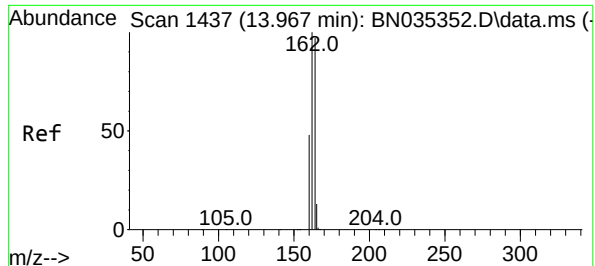
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

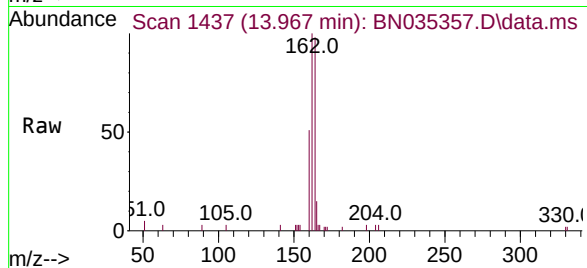
Tgt Ion:142 Resp: 3157
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

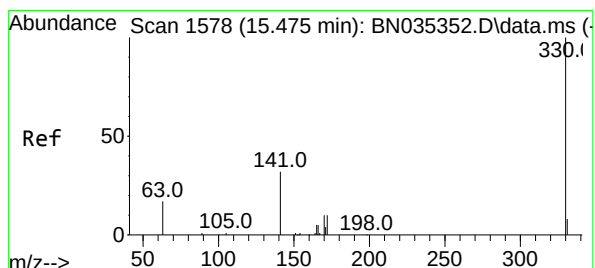
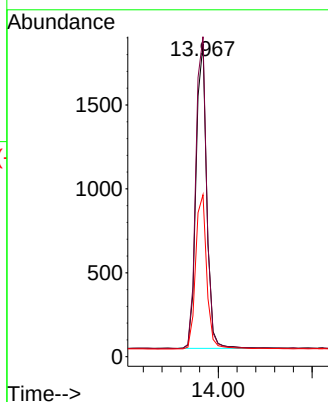
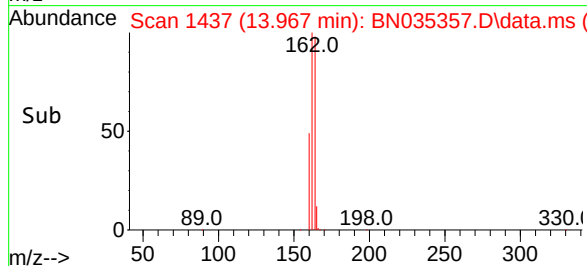
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



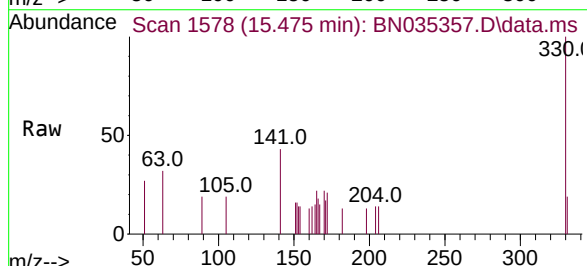
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1

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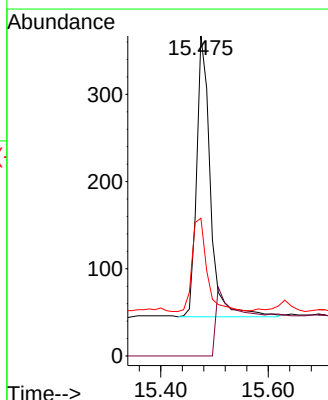
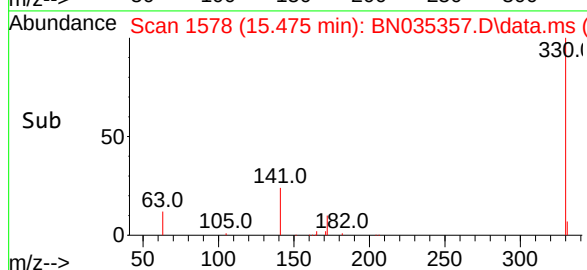
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

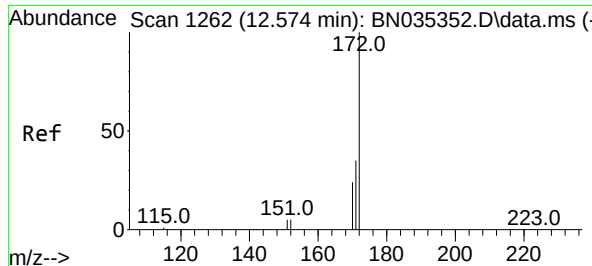


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



Tgt Ion:330 Resp: 617
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.427 ng

RT: 12.574 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

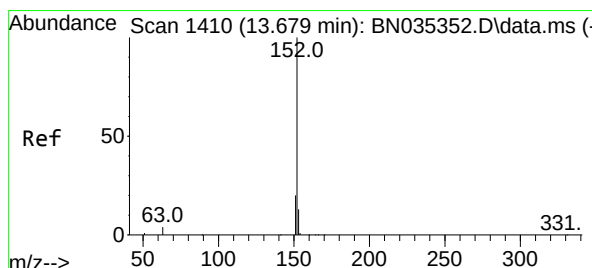
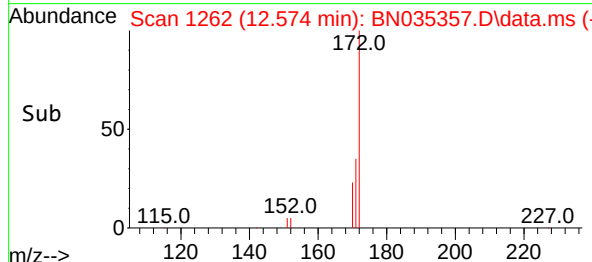
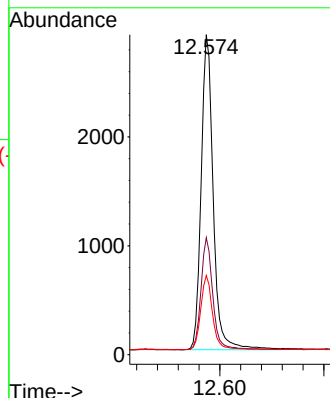
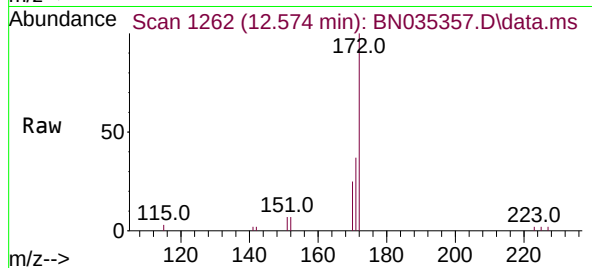
Tgt Ion:172	Resp:	464
Ion Ratio	Lower	Upper
172	100	
171	36.5	29.0 43.4
170	24.7	19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.435 ng

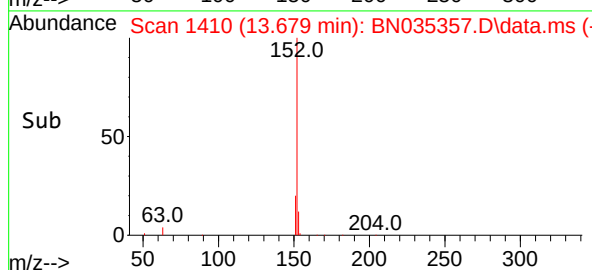
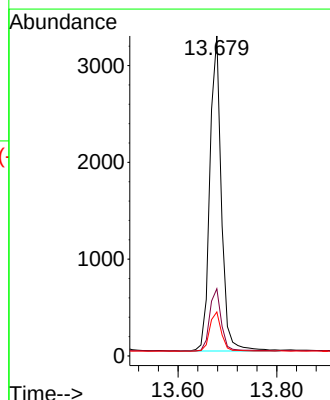
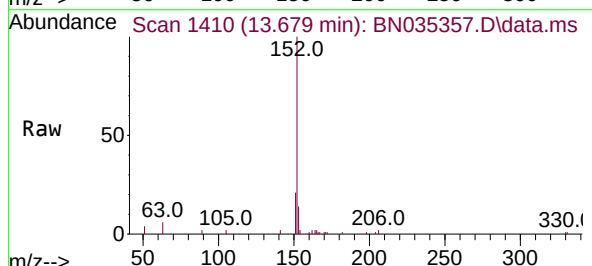
RT: 13.679 min Scan# 1410

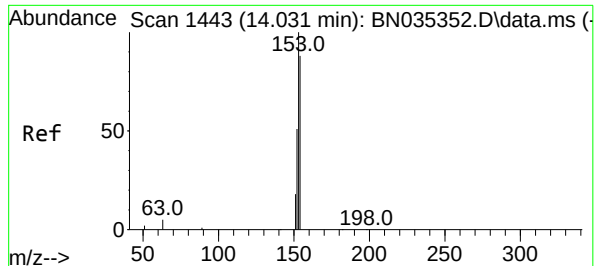
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:152	Resp:	5261
Ion Ratio	Lower	Upper
152	100	
151	20.1	16.2 24.2
153	12.7	10.4 15.6





#17

Acenaphthene

Concen: 0.426 ng

RT: 14.031 min Scan# 1443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

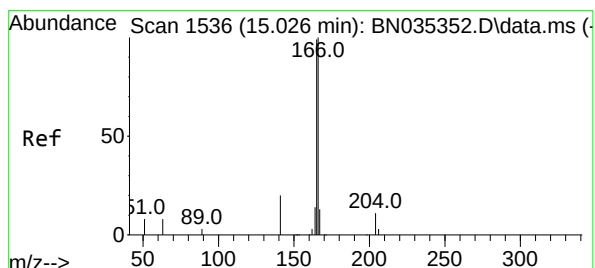
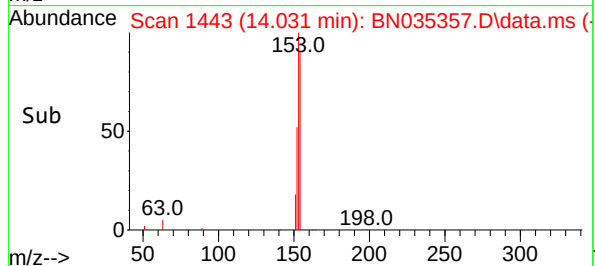
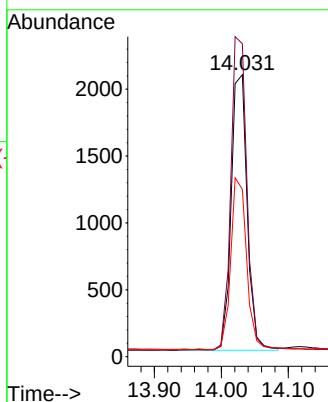
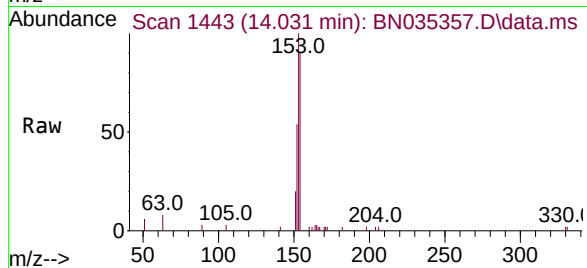
ICVBN112724

Tgt Ion:	154	Resp:	342
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18

Fluorene

Concen: 0.420 ng

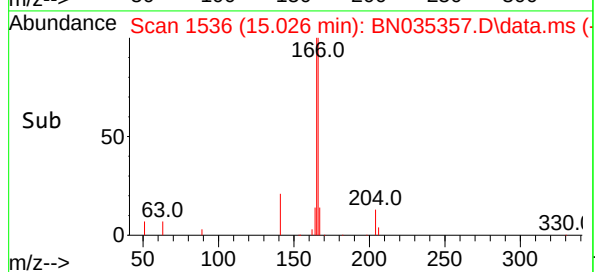
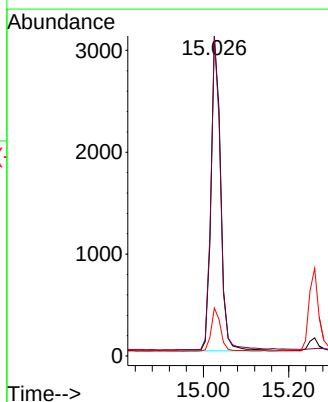
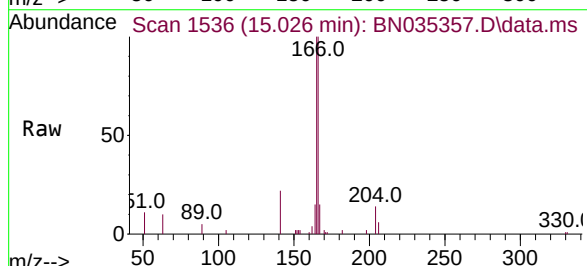
RT: 15.026 min Scan# 1536

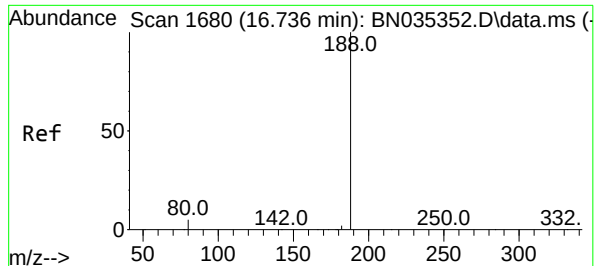
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

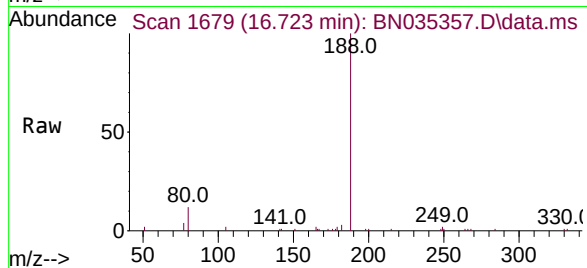
Tgt Ion:	166	Resp:	4825
Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

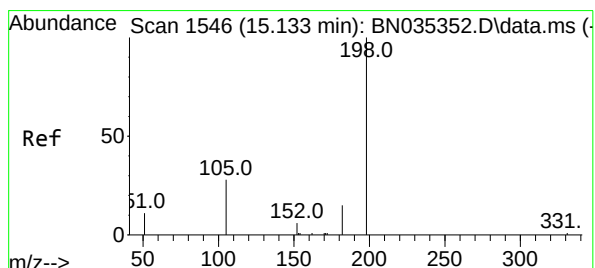
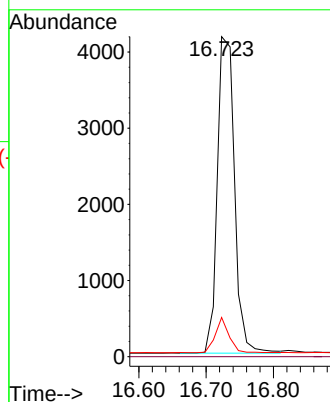
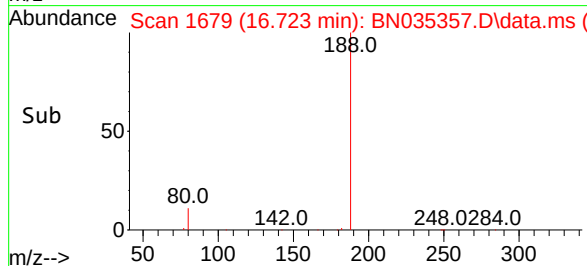
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:188 Resp: 7350
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.2 4.6 6.8

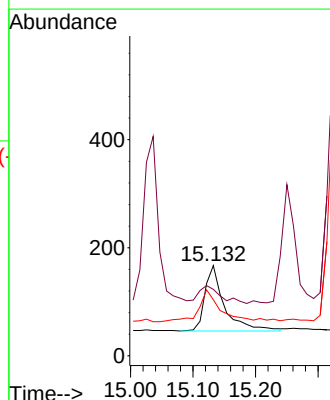
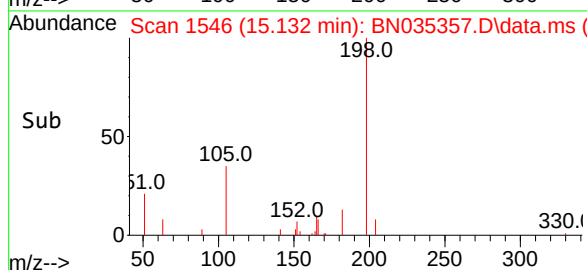
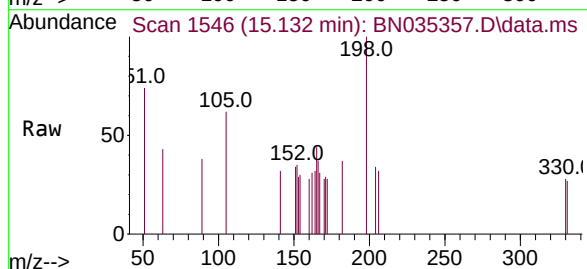
Manual Integrations
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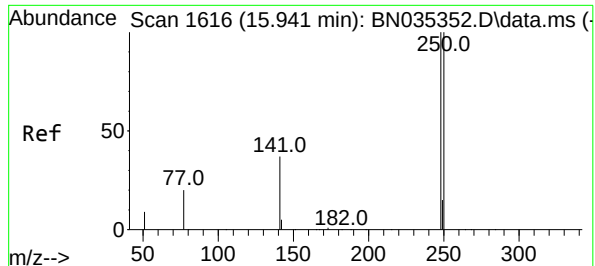
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263
Ion Ratio Lower Upper
198 100
51 73.7 46.5 69.7#
105 62.3 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

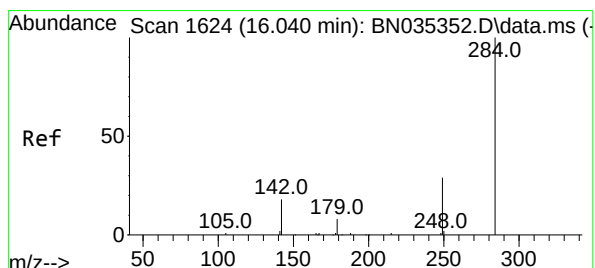
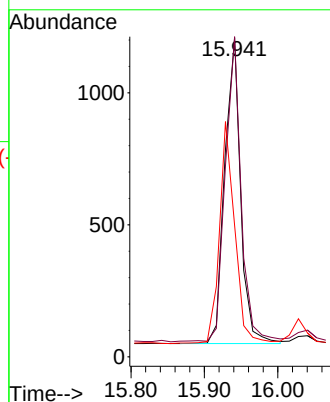
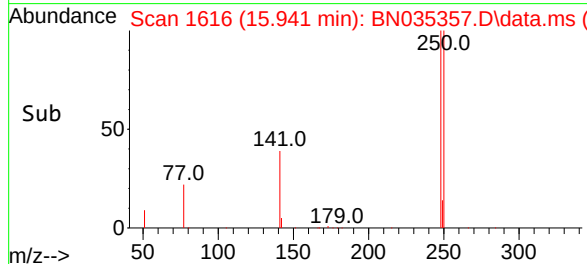
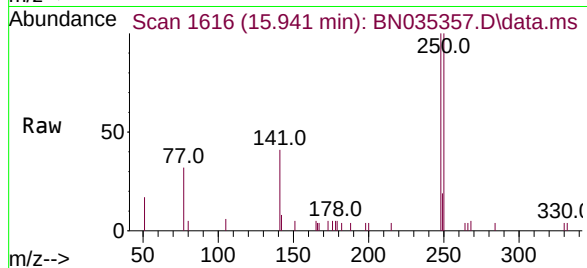
ICVBN112724

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

Manual Integrations

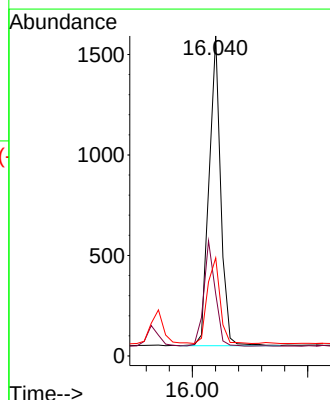
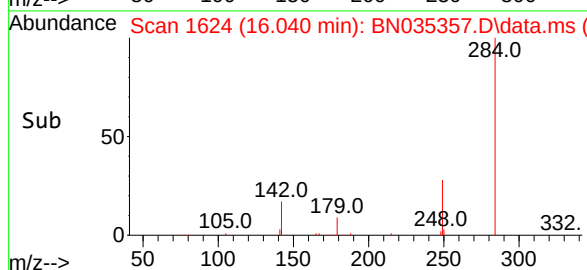
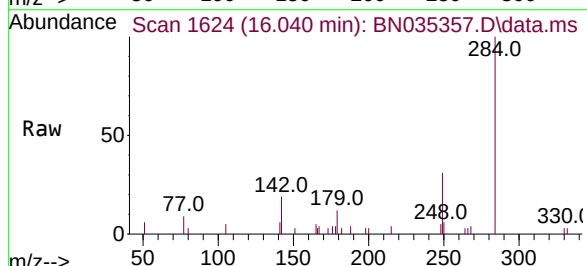
APPROVED

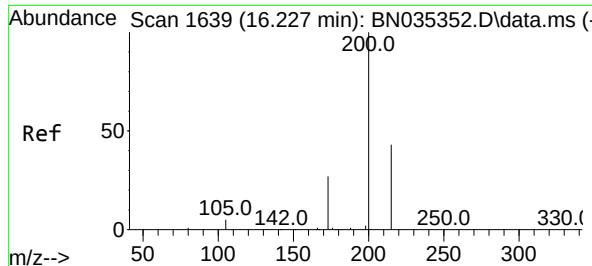
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8





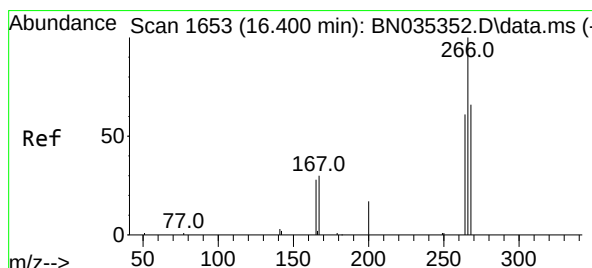
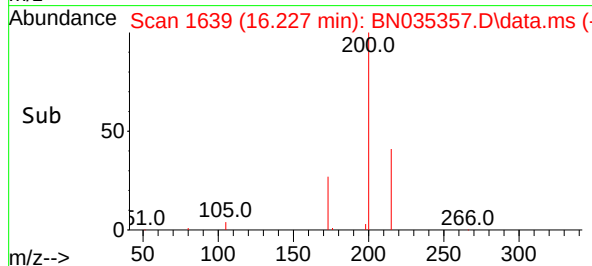
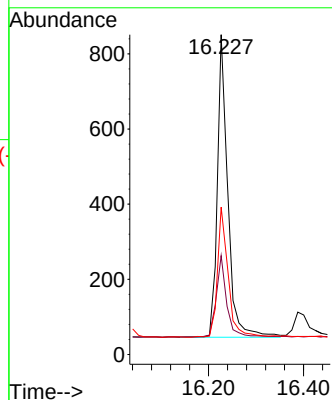
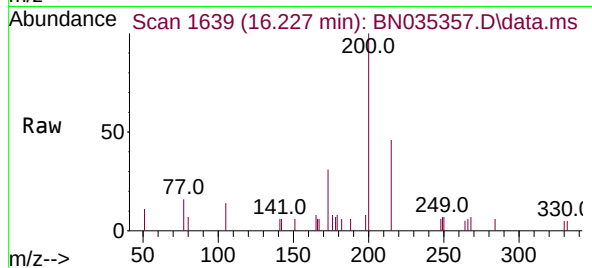
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 46.1 36.9 55.3

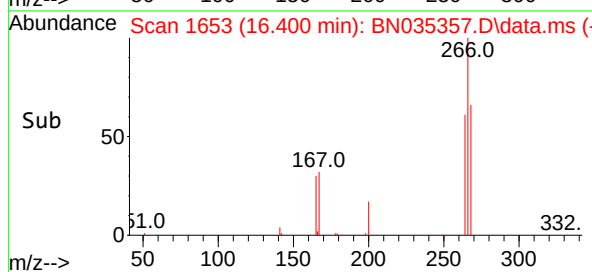
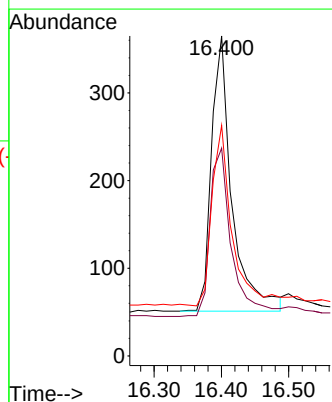
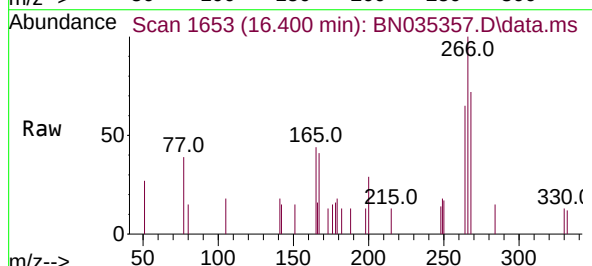
Manual Integrations
APPROVED

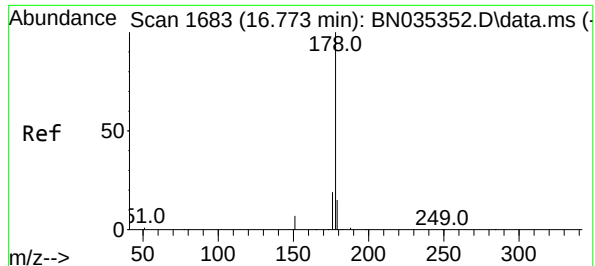
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

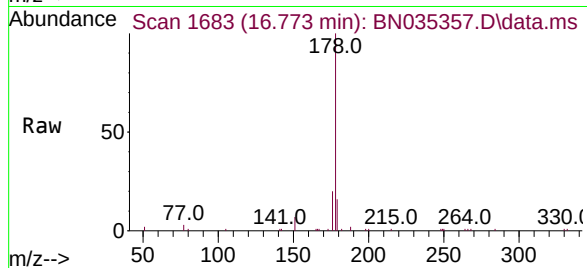
Tgt Ion:266 Resp: 662
Ion Ratio Lower Upper
266 100
264 65.0 42.3 63.5#
268 66.8 43.3 64.9#





#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

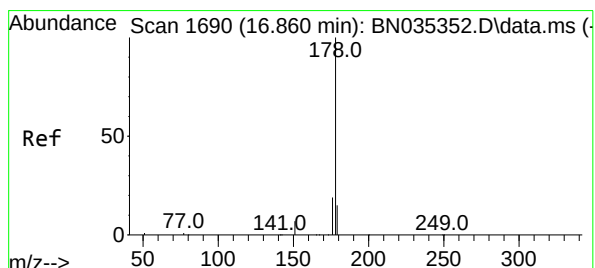
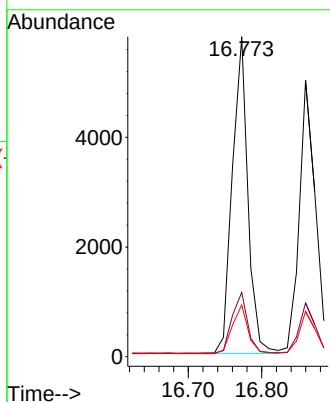
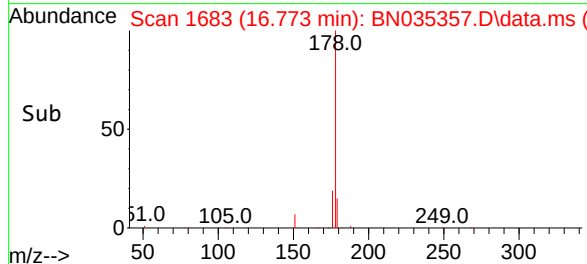
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:178 Resp: 8509
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5

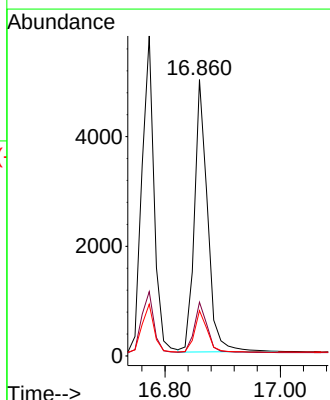
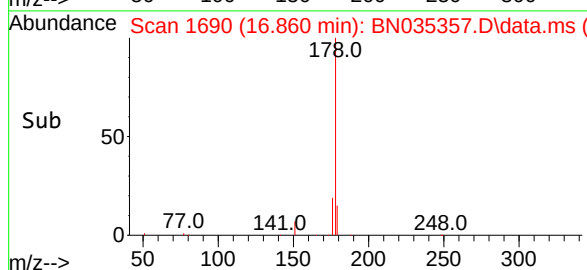
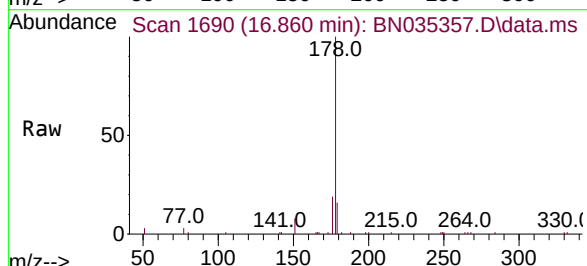
Manual Integrations
APPROVED

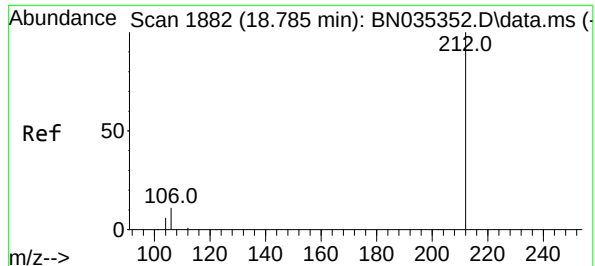
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8





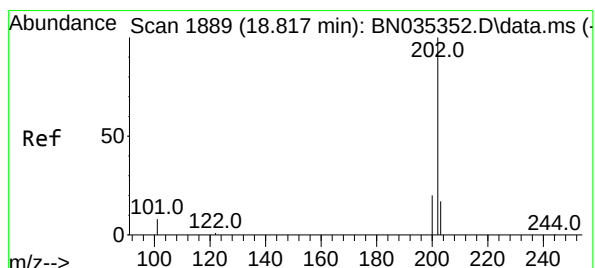
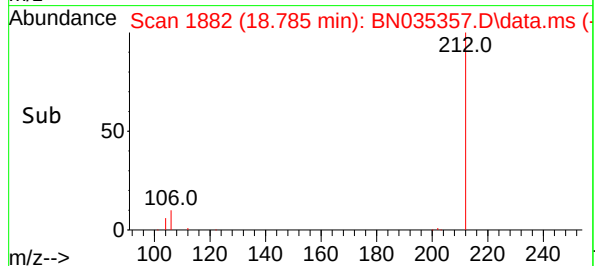
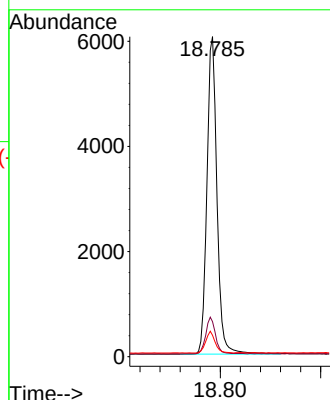
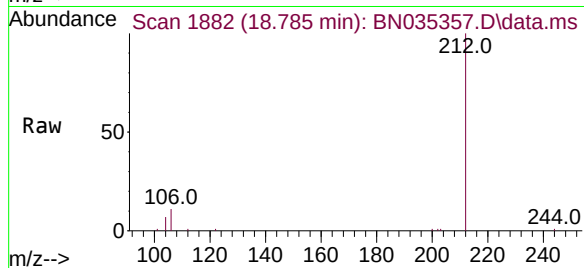
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 841
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.4 5.3 7.9

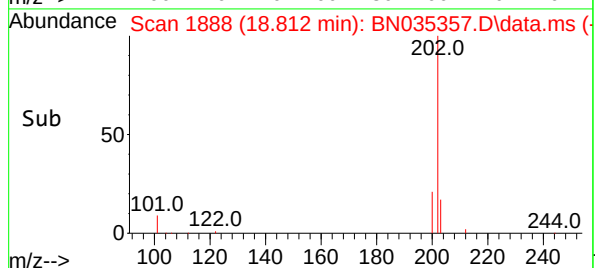
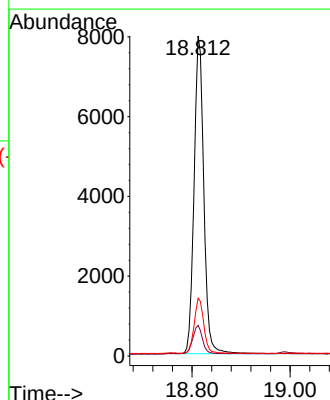
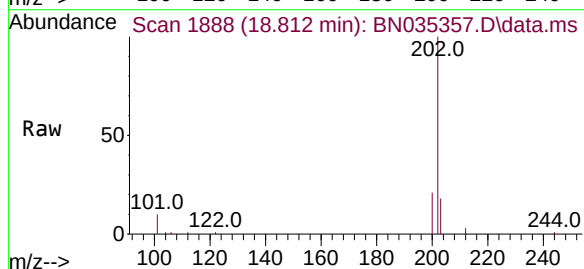
Manual Integrations
APPROVED

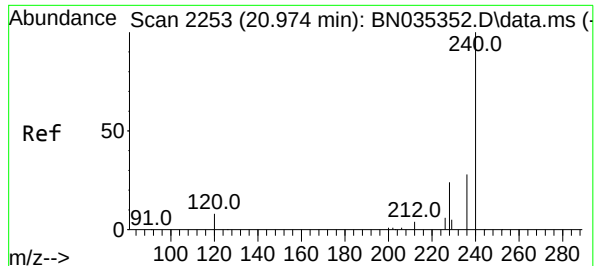
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

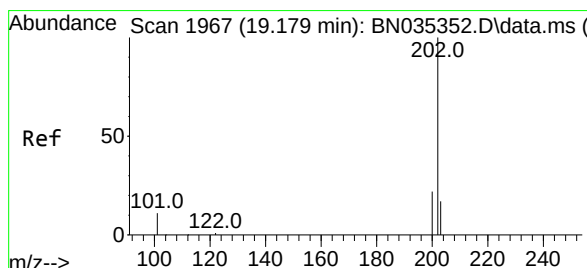
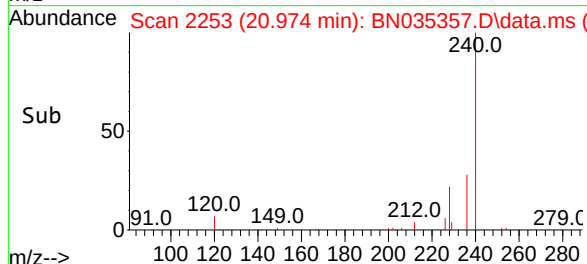
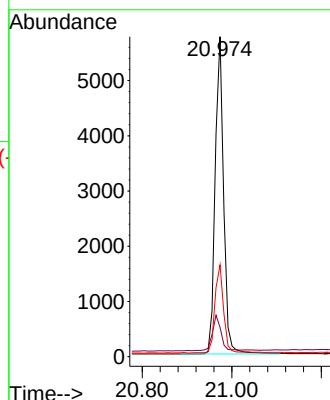
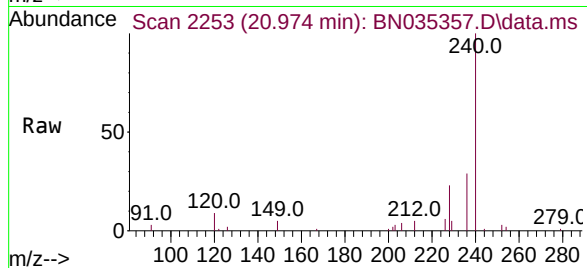
ICVBN112724

Tgt Ion:240	Resp:	7570
Ion	Ratio	Lower Upper
240	100	
120	9.1	7.9 11.9
236	28.7	22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.410 ng

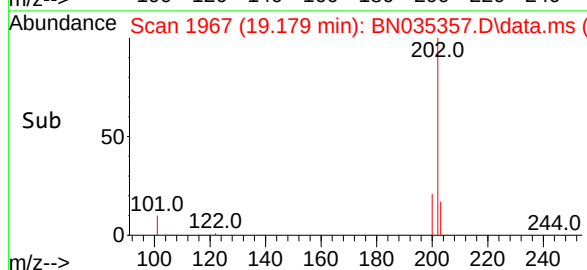
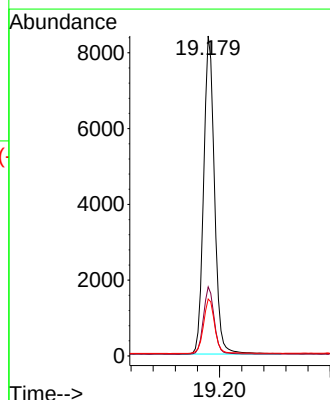
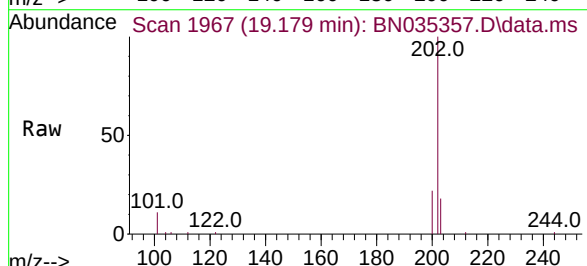
RT: 19.179 min Scan# 1967

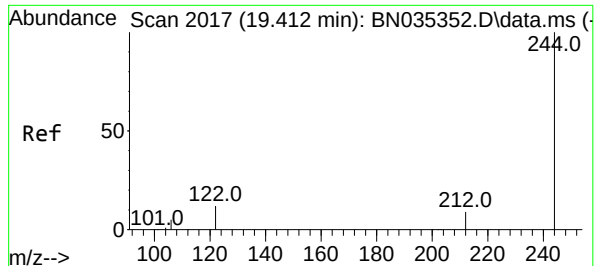
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:202	Resp:	11476
Ion	Ratio	Lower Upper
202	100	
200	20.9	17.0 25.4
203	17.8	14.3 21.5





#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

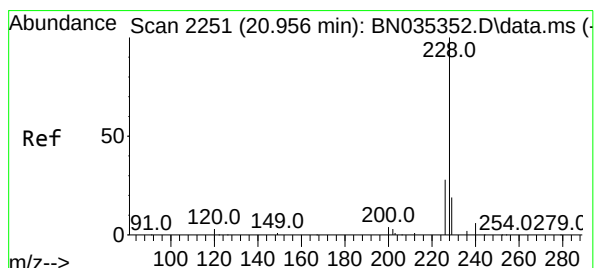
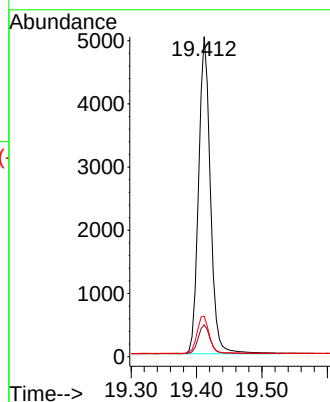
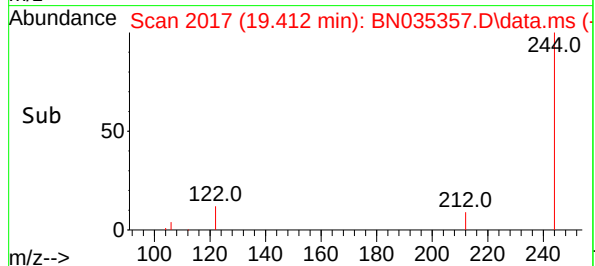
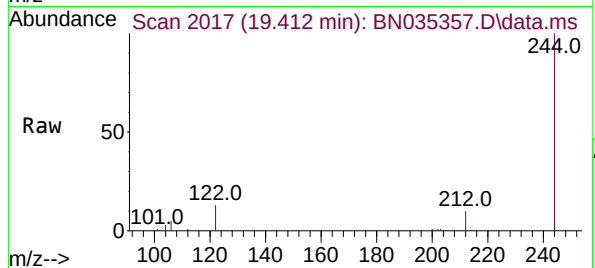
ICVBN112724

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

Manual Integrations

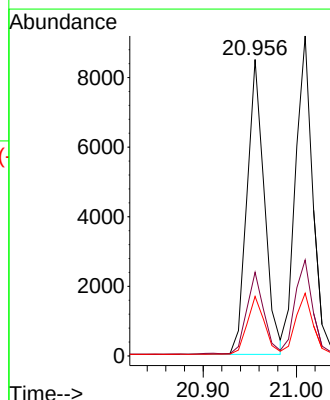
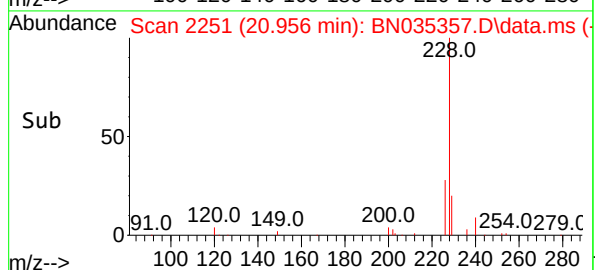
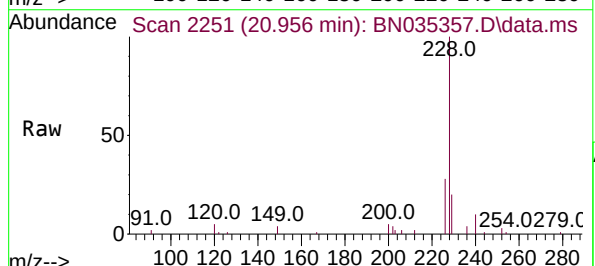
APPROVED

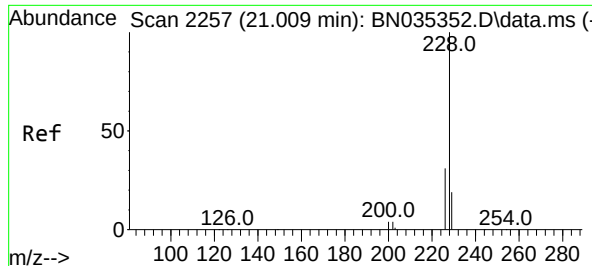
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8





#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

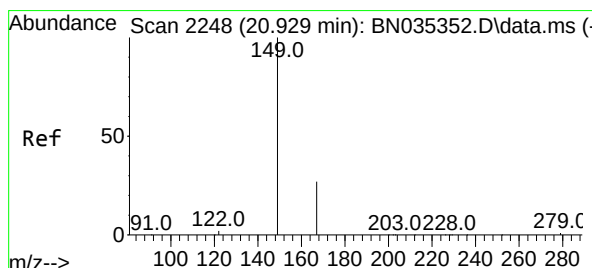
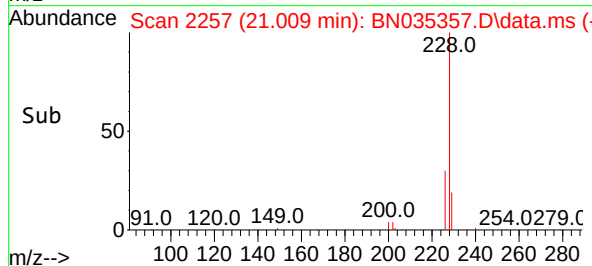
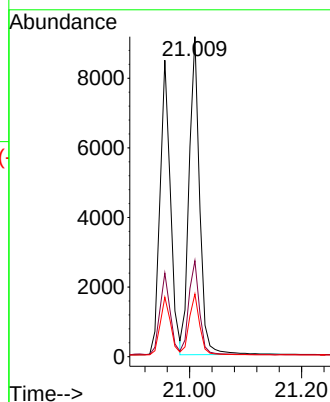
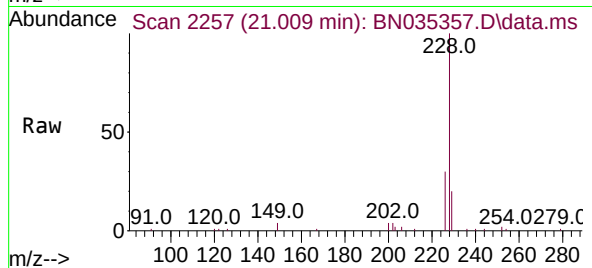
ICVBN112724

Tgt Ion:	228	Resp:	11920
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

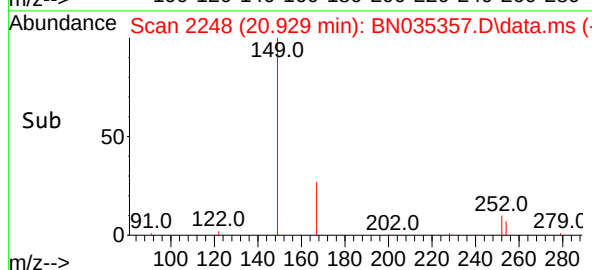
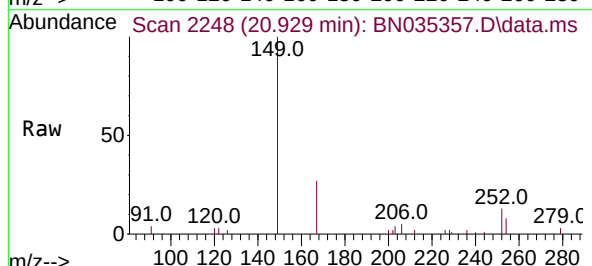
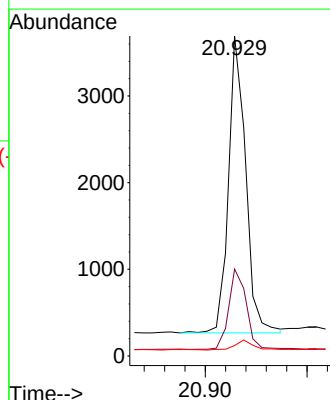
RT: 20.929 min Scan# 2248

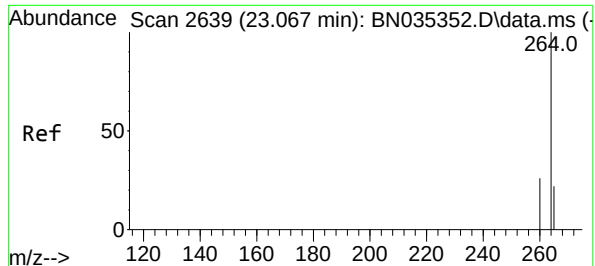
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:	149	Resp:	4016
Ion Ratio	Lower	Upper	
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1





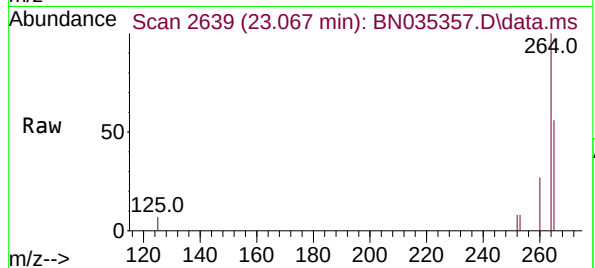
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



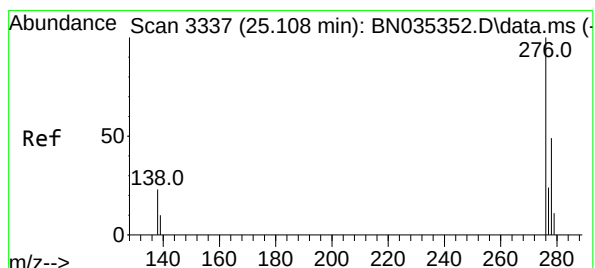
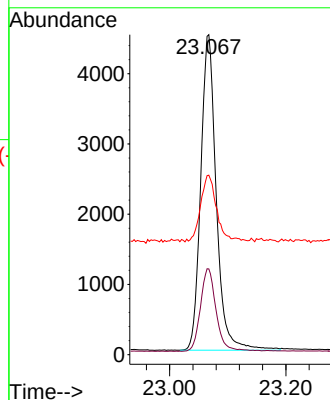
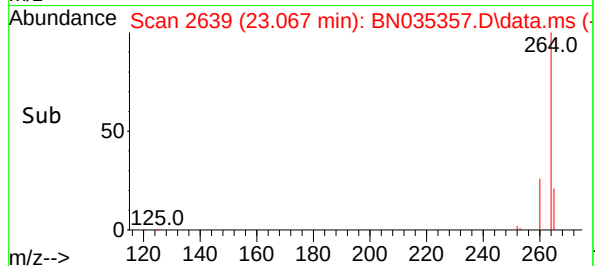
Tgt Ion:264 Resp: 8338
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 56.1 40.2 60.4

Manual Integrations

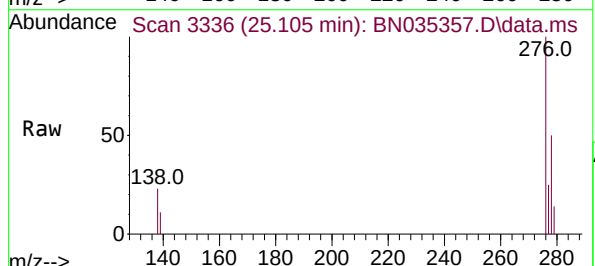
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

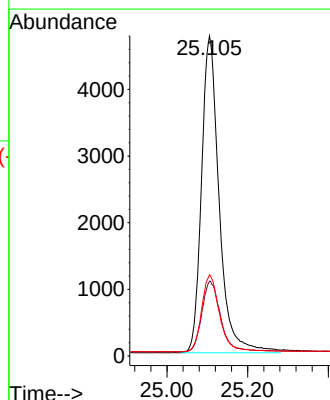
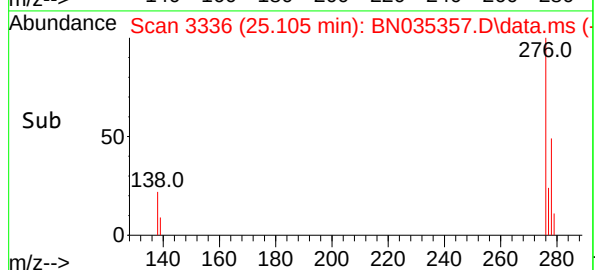
Supervised By :mohammad ahmed 12/03/2024

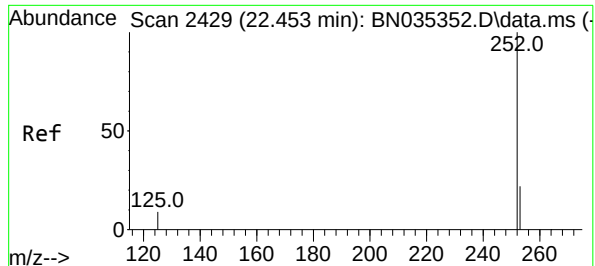


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



Tgt Ion:276 Resp: 14433
Ion Ratio Lower Upper
276 100
138 23.5 19.4 29.0
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

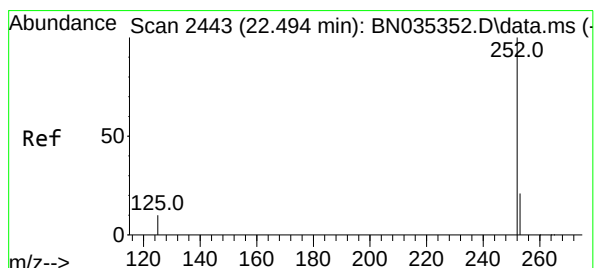
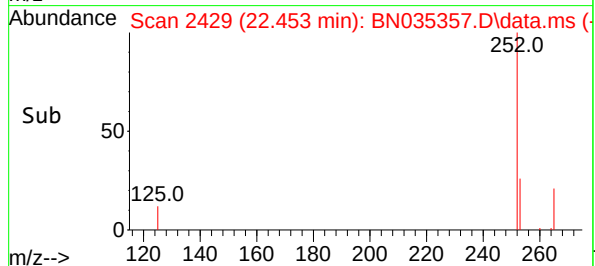
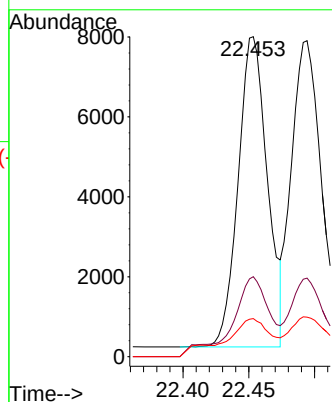
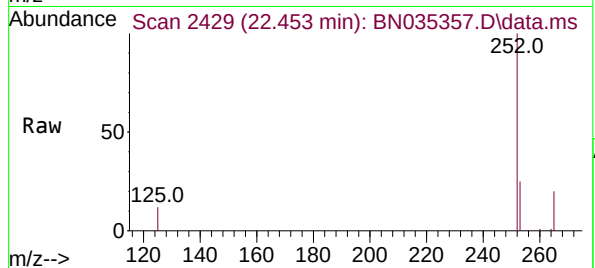
ICVBN112724

Tgt Ion:	252	Resp:	12988
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.422 ng

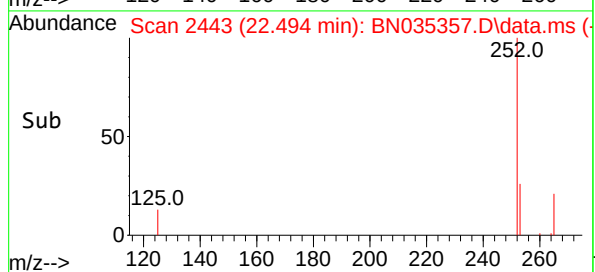
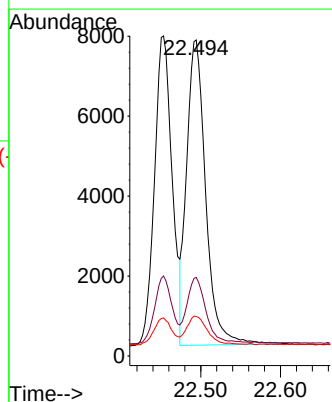
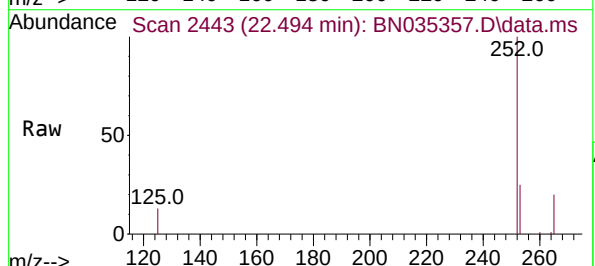
RT: 22.494 min Scan# 2443

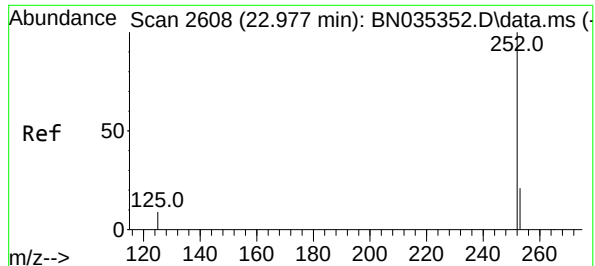
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:	252	Resp:	12669
Ion Ratio	Lower	Upper	
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.442 ng

RT: 22.974 min Scan# 2607

Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

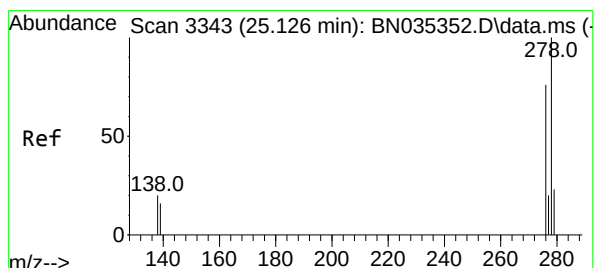
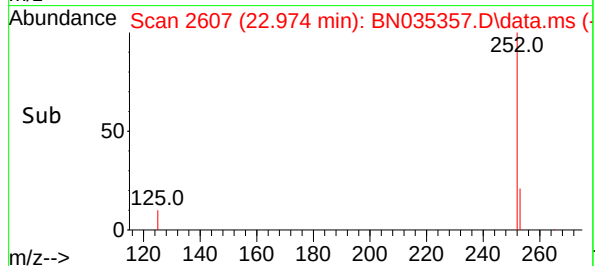
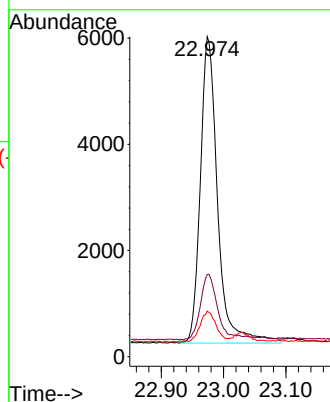
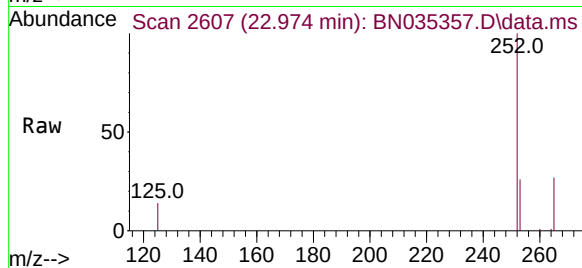
ICVBN112724

Tgt Ion:	252	Resp:	11094
Ion Ratio	Lower	Upper	
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.433 ng

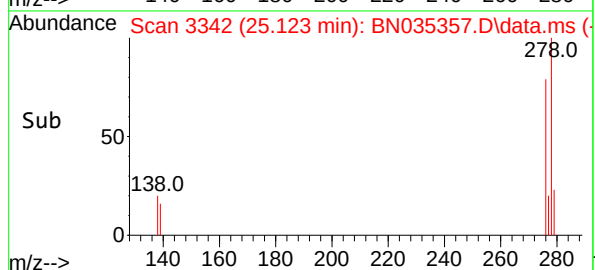
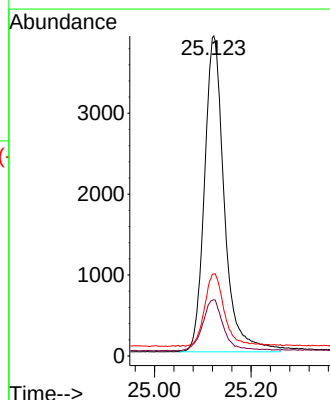
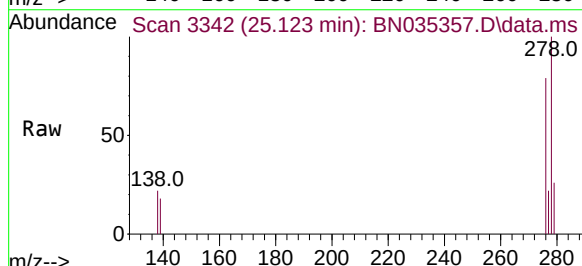
RT: 25.123 min Scan# 3342

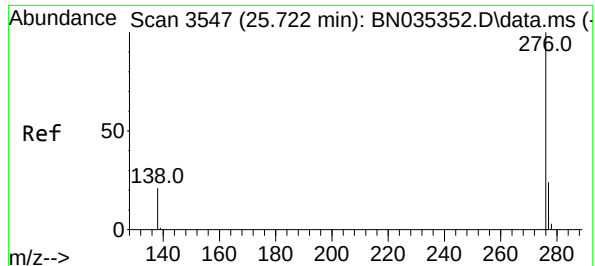
Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:	278	Resp:	11141
Ion Ratio	Lower	Upper	
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.404 ng

RT: 25.722 min Scan# 3

Delta R.T. -0.000 min

Lab File: BN035357.D

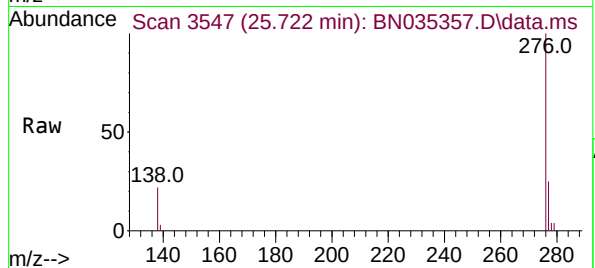
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

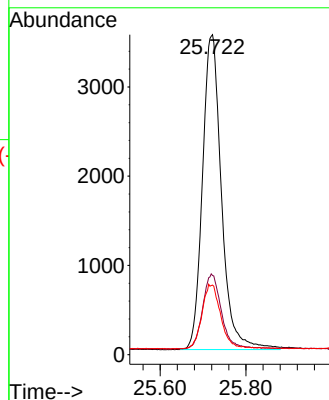
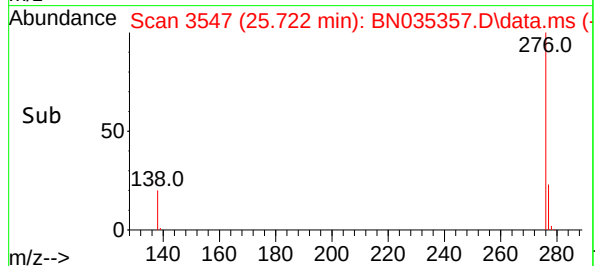
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2	1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3	n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4 S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5 S	Phenol-d6	1.204	0.933	22.5	59	0.00
6	bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8 S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9	Naphthalene	1.055	1.118	-6.0	80	0.00
10	Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12	2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15 S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16	Acenaphthylene	1.680	1.827	-8.8	87	0.00
17	Acenaphthene	1.115	1.188	-6.5	83	0.00
18	Fluorene	1.596	1.676	-5.0	82	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21	4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22	Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23	Atrazine	0.167	0.167	0.0	84	0.00
24	Pentachlorophenol	0.120	0.090	25.0	73	0.00
25	Phenanthrene	1.099	1.158	-5.4	84	0.00
26	Anthracene	0.994	1.068	-7.4	88	0.00
27 SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28	Fluoranthene	1.481	1.489	-0.5	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30	Pyrene	1.477	1.515	-2.6	82	0.00
31 S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32	Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33	Chrysene	1.443	1.574	-9.1	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35 I	Perylene-d12	1.000	1.000	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37	Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38	Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39 C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40	Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41	Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2	1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3	n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4 S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5 S	Phenol-d6	0.400	0.310	22.5	59	0.00
6	bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8 S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9	Naphthalene	0.400	0.424	-6.0	80	0.00
10	Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12	2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15 S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16	Acenaphthylene	0.400	0.435	-8.7	87	0.00
17	Acenaphthene	0.400	0.426	-6.5	83	0.00
18	Fluorene	0.400	0.420	-5.0	82	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23	Atrazine	0.400	0.401	-0.3	84	0.00
24	Pentachlorophenol	0.400	0.301	24.8	73	0.00
25	Phenanthrene	0.400	0.421	-5.2	84	0.00
26	Anthracene	0.400	0.430	-7.5	88	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28	Fluoranthene	0.400	0.402	-0.5	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30	Pyrene	0.400	0.410	-2.5	82	0.00
31 S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32	Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33	Chrysene	0.400	0.436	-9.0	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35 I	Perylene-d12	0.400	0.400	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37	Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38	Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39 C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41	Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	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: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/09/2024 17:07

Lab File ID: BN035510.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.627		0.2	20.0
Fluoranthene-d10	1.134	1.031		-9.1	20.0
2-Fluorophenol	1.001	1.045		4.4	20.0
Phenol-d6	1.204	1.324		10.0	20.0
Nitrobenzene-d5	0.244	0.260		6.6	20.0
2-Fluorobiphenyl	1.512	1.514		0.1	20.0
2,4,6-Tribromophenol	0.284	0.274		-3.5	20.0
Terphenyl-d14	0.789	0.816		3.4	20.0
1,4-Dioxane	0.382	0.363		-5.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035510.D
 Acq On : 09 Dec 2024 17:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 09 17:33:24 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1975	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	5582	0.400	ng	#-0.01
13) Acenaphthene-d10	13.956	164	4021	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9077	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	8166	0.400	ng	0.00
35) Perylene-d12	23.059	264	8385	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	2063	0.417	ng	-0.01
5) Phenol-d6	6.506	99	2615	0.440	ng	0.00
8) Nitrobenzene-d5	8.429	82	1449m	0.425	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3499	0.401	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	1103	0.386	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	6086	0.400	ng	-0.01
27) Fluoranthene-d10	18.775	212	9358	0.364	ng	0.00
31) Terphenyl-d14	19.407	244	6666	0.414	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	717	0.380	ng	98
3) n-Nitrosodimethylamine	3.292	42	635	0.404	ng	# 98
6) bis(2-Chloroethyl)ether	6.752	93	1927	0.386	ng	98
9) Naphthalene	10.095	128	5725	0.389	ng	99
10) Hexachlorobutadiene	10.383	225	1406	0.414	ng	# 100
12) 2-Methylnaphthalene	11.722	142	4137	0.392	ng	99
16) Acenaphthylene	13.668	152	6383	0.378	ng	100
17) Acenaphthene	14.021	154	4360	0.389	ng	99
18) Fluorene	15.015	166	6050	0.377	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	175	0.196	ng	# 56
21) 4-Bromophenyl-phenylether	15.929	248	2075	0.391	ng	# 90
22) Hexachlorobenzene	16.028	284	2587	0.415	ng	99
23) Atrazine	16.227	200	1463	0.387	ng	94
24) Pentachlorophenol	16.388	266	925	0.341	ng	86
25) Phenanthrene	16.760	178	9661	0.387	ng	100
26) Anthracene	16.860	178	8433	0.374	ng	100
28) Fluoranthene	18.808	202	12158	0.362	ng	99
30) Pyrene	19.175	202	12397	0.411	ng	100
32) Benzo(a)anthracene	20.947	228	10365	0.363	ng	99
33) Chrysene	21.000	228	11620	0.394	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4418	0.392	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	12024	0.367	ng	97
37) Benzo(b)fluoranthene	22.447	252	13501	0.440	ng	98
38) Benzo(k)fluoranthene	22.488	252	11908	0.394	ng	99
39) Benzo(a)pyrene	22.968	252	9314	0.369	ng	97
40) Dibenzo(a,h)anthracene	25.114	278	9233	0.357	ng	97
41) Benzo(g,h,i)perylene	25.710	276	9987	0.369	ng	97

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

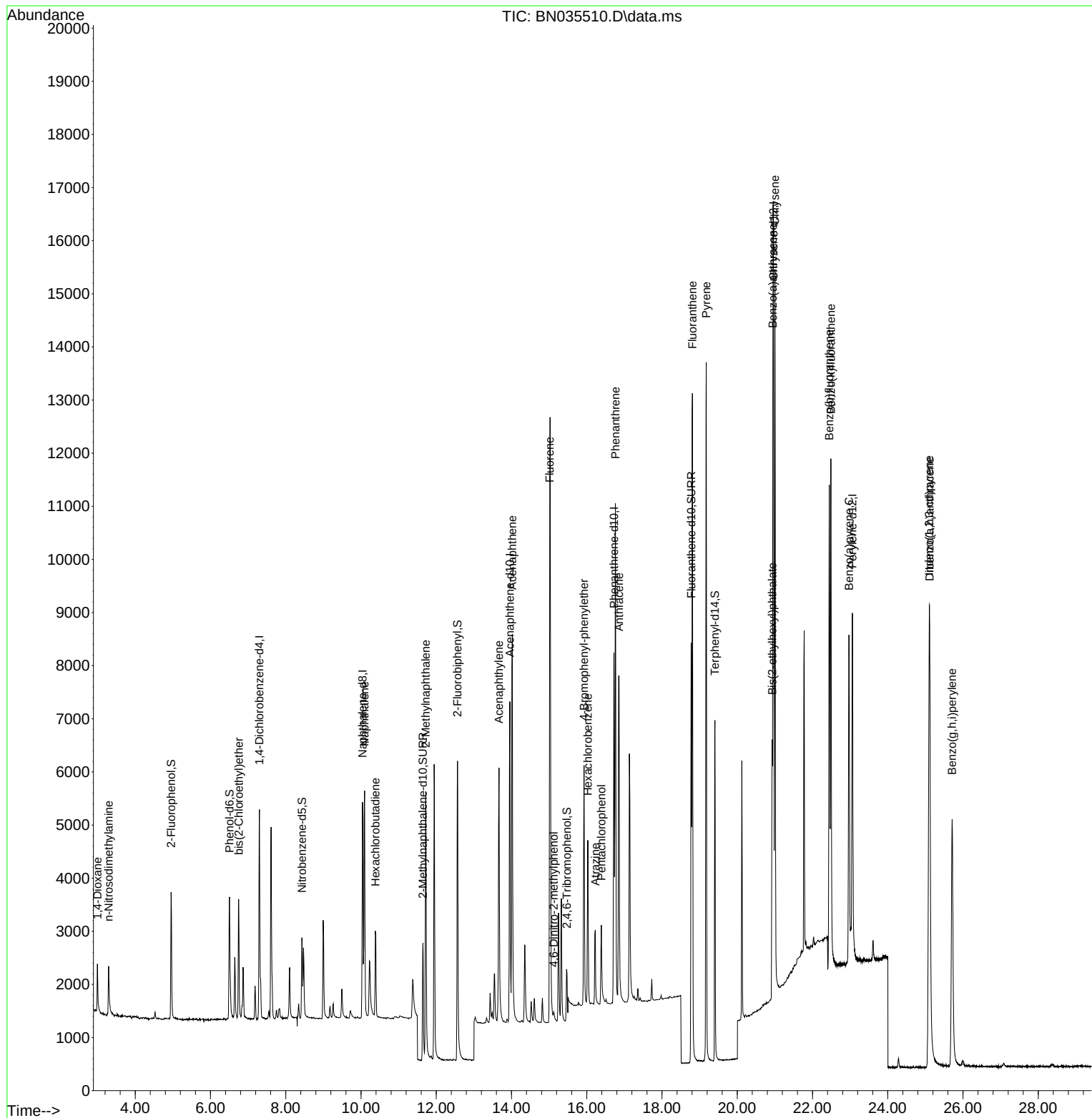
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

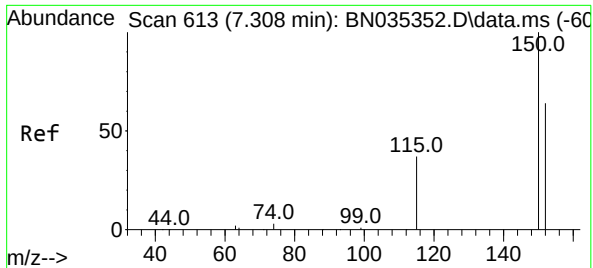
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

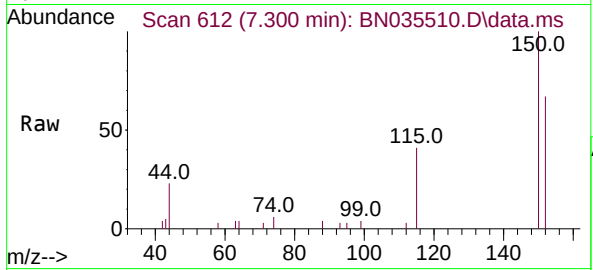
Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

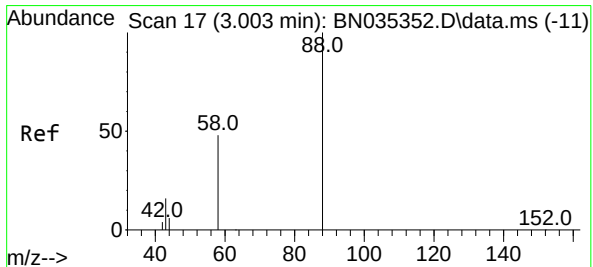
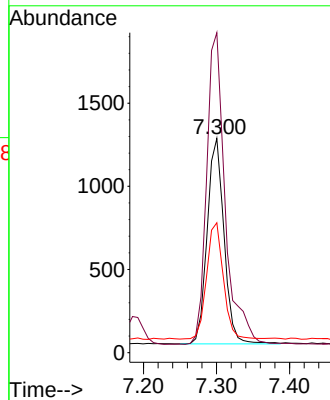
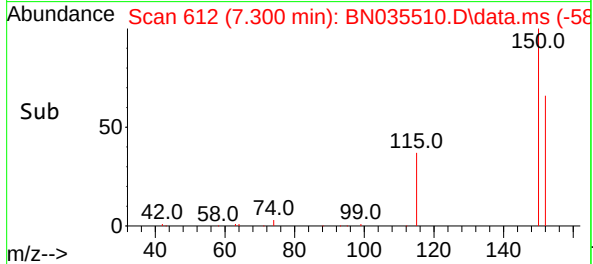
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 197
Ion Ratio Lower Upper
152 100
150 149.4 124.0 186.0
115 60.6 49.6 74.4

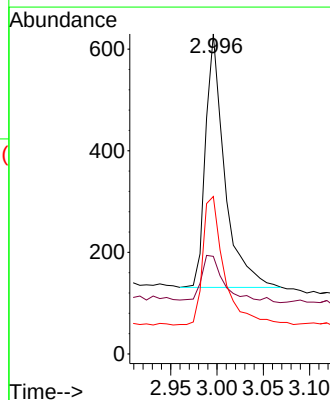
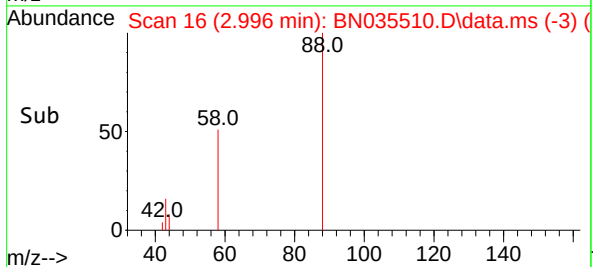
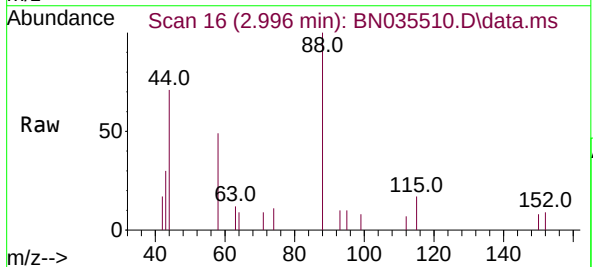
Manual Integrations
APPROVED

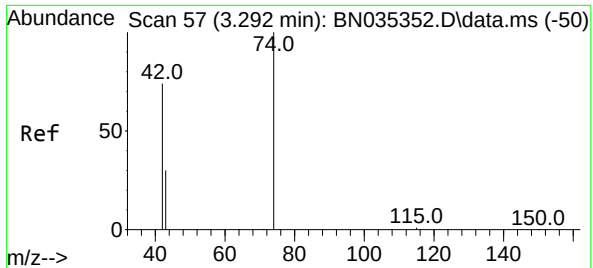
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.380 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

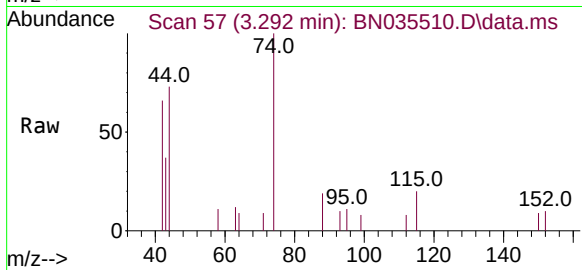
Tgt Ion: 88 Resp: 717
Ion Ratio Lower Upper
88 100
43 23.3 17.2 25.8
58 56.8 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

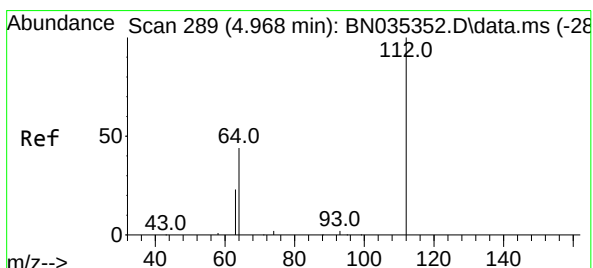
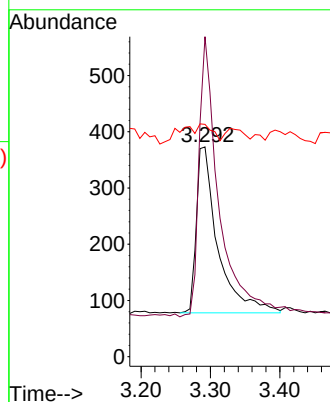
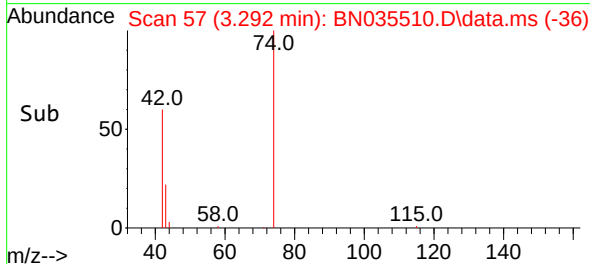
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 63
Ion Ratio Lower Upper
42 100
74 159.1 124.9 187.3
44 6.5 2.2 3.4

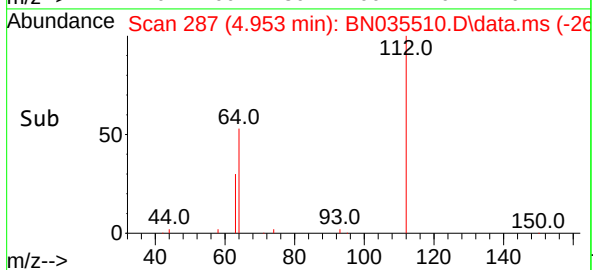
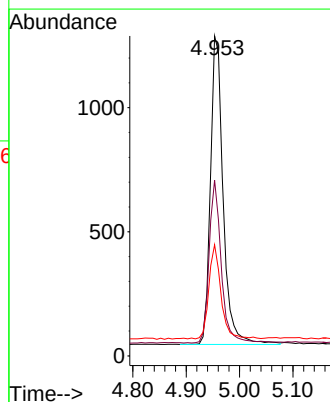
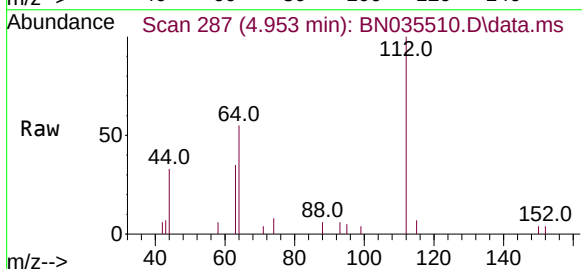
Manual Integrations
APPROVED

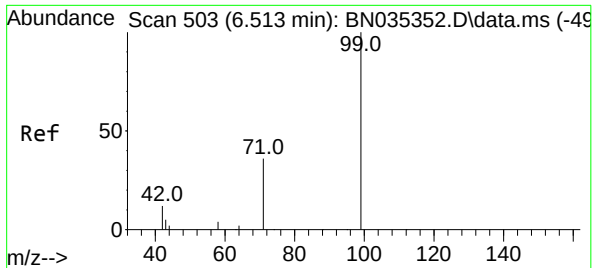
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.015 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:112 Resp: 2063
Ion Ratio Lower Upper
112 100
64 50.6 39.8 59.8
63 28.9 21.0 31.6





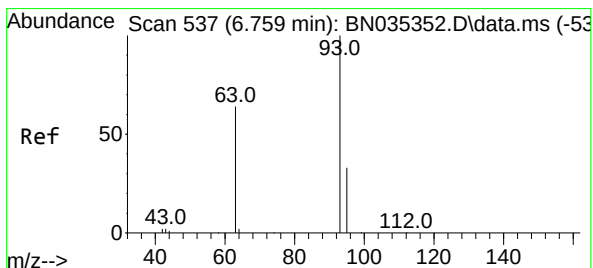
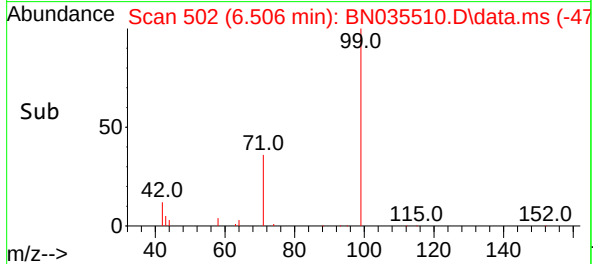
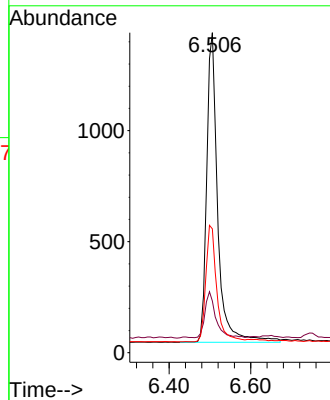
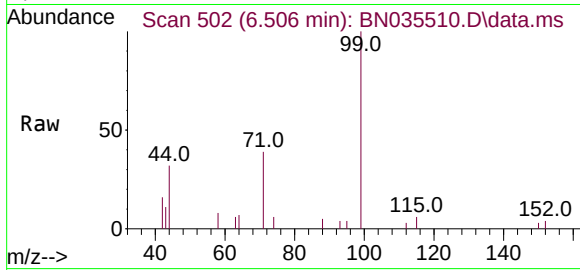
#5
Phenol-d6
Concen: 0.440 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 261
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.2
71 37.6 29.3 43.9

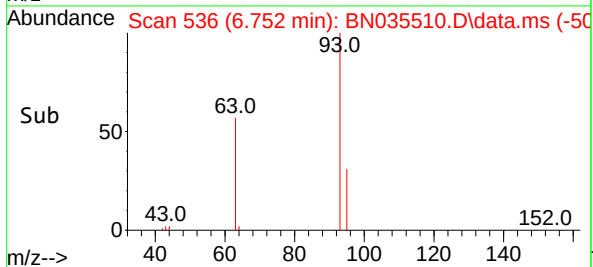
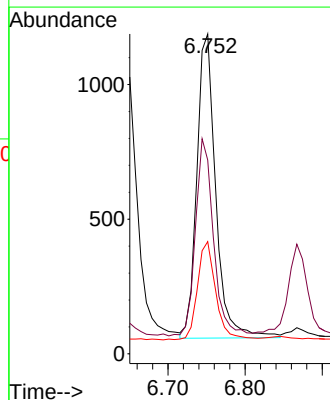
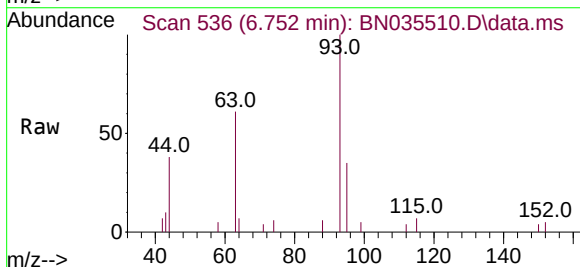
Manual Integrations
APPROVED

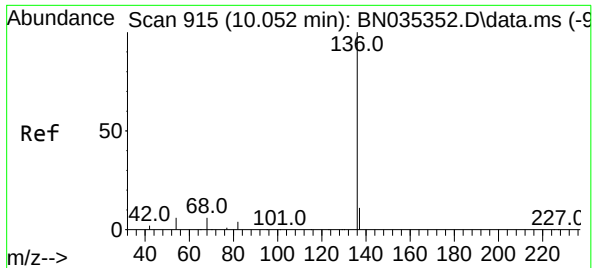
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 93 Resp: 1927
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.4 25.7 38.5





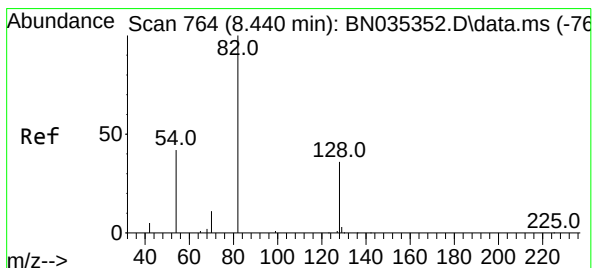
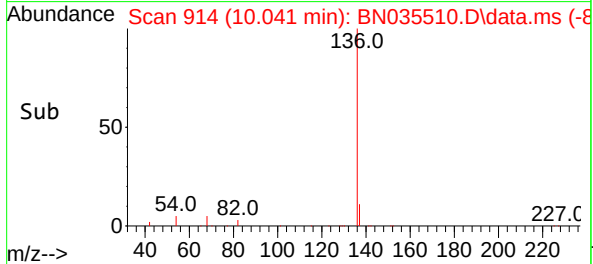
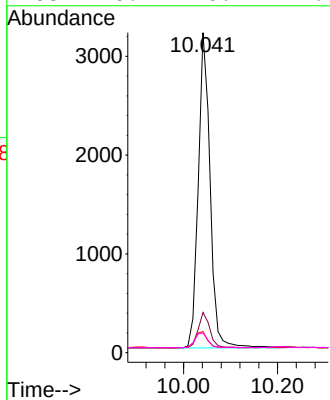
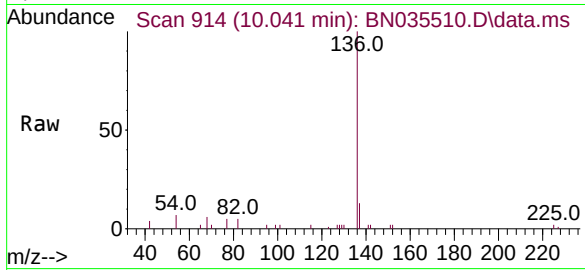
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 558
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 6.6 6.1 9.1
68 6.1 6.4 9.6#

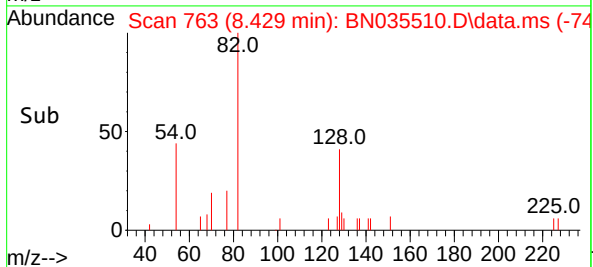
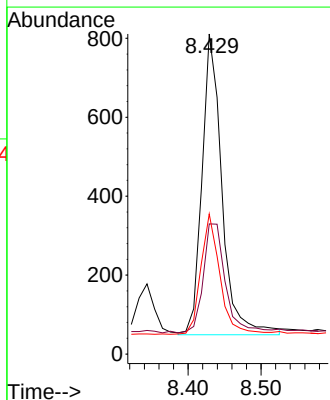
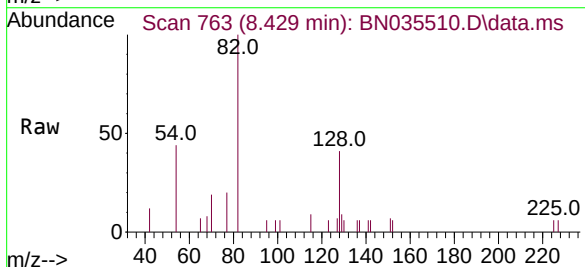
Manual Integrations
APPROVED

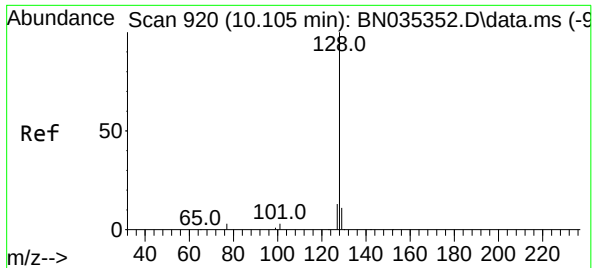
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.425 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 82 Resp: 1449
Ion Ratio Lower Upper
82 100
128 40.7 33.4 50.0
54 43.8 36.7 55.1





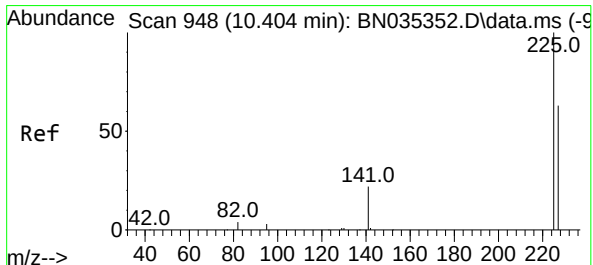
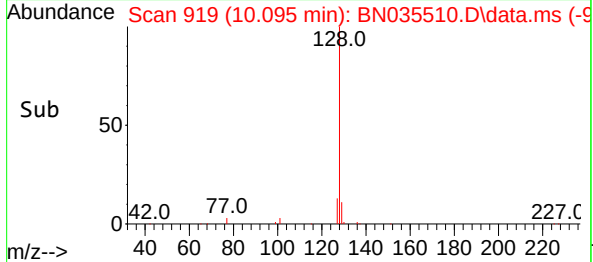
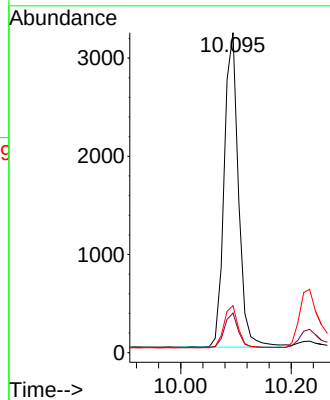
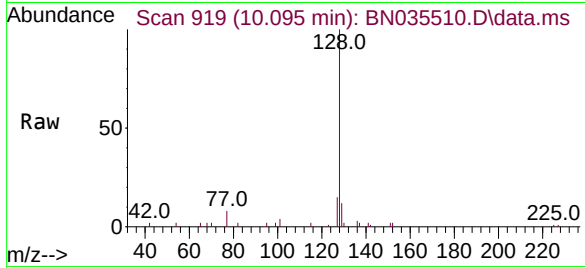
#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 572
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.7 11.4 17.2

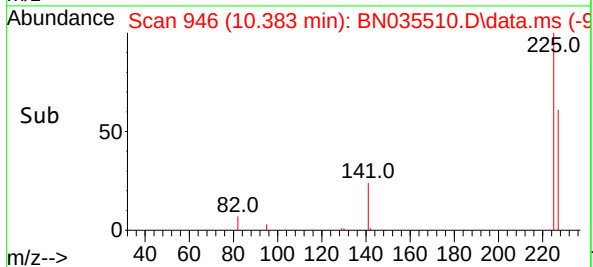
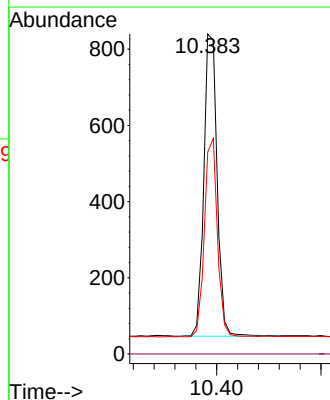
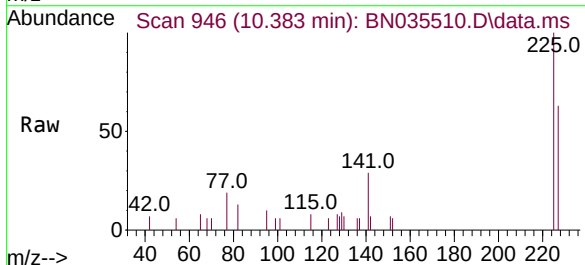
Manual Integrations
APPROVED

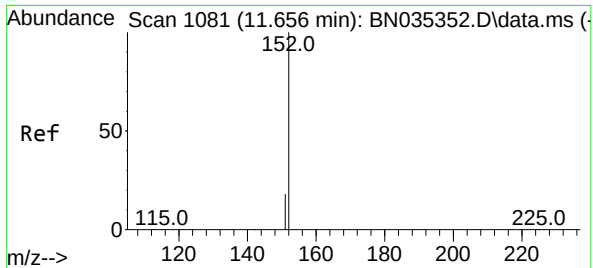
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

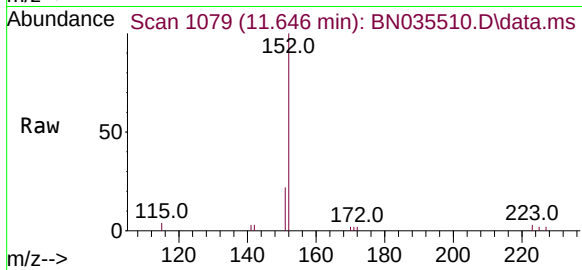
Tgt Ion:225 Resp: 1406
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

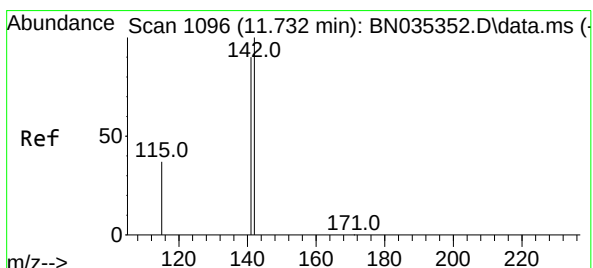
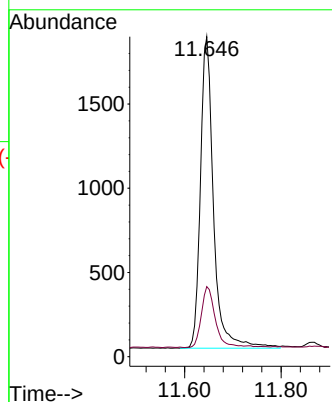
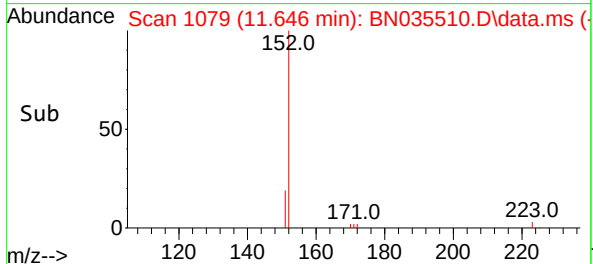
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 3498
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

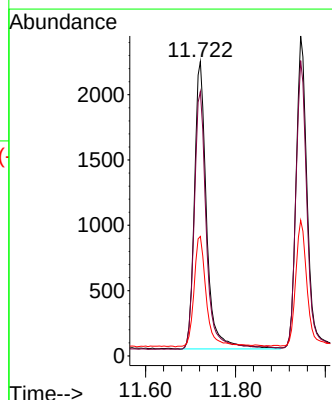
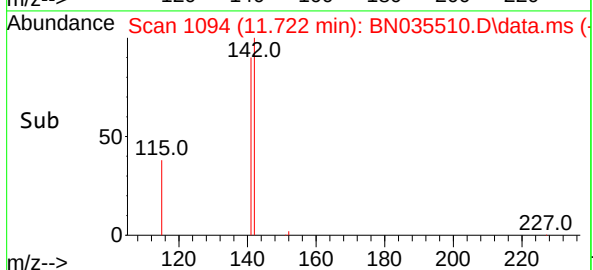
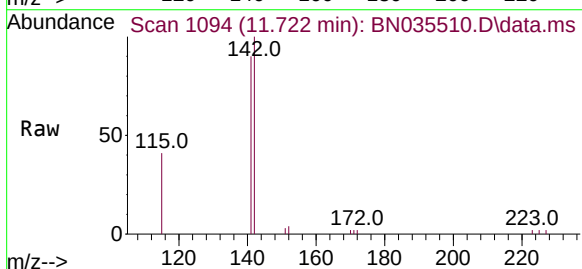
Manual Integrations
APPROVED

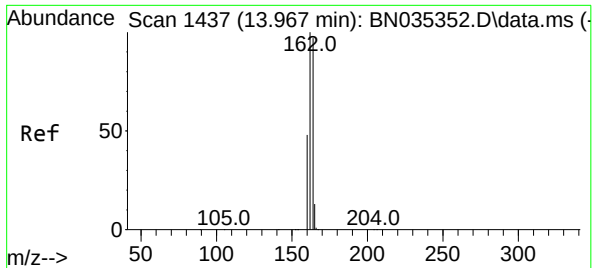
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:142 Resp: 4137
Ion Ratio Lower Upper
142 100
141 89.8 72.2 108.4
115 40.6 31.4 47.0





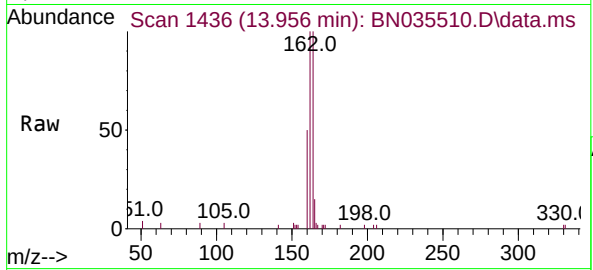
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

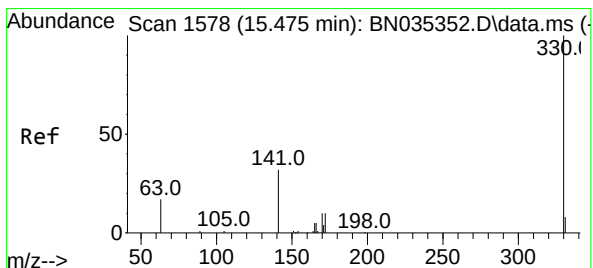
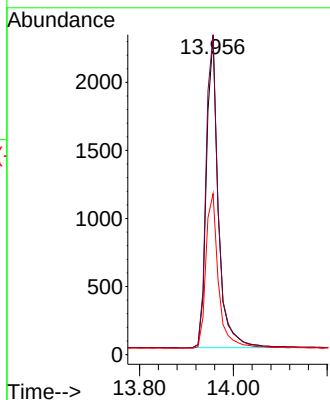
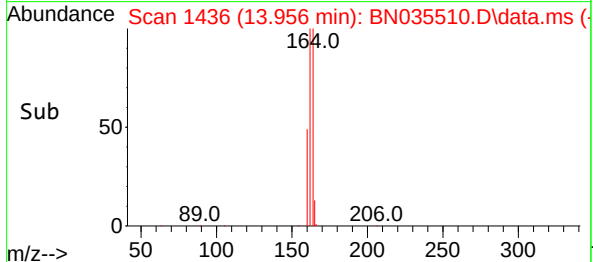


Tgt Ion:164 Resp: 402
Ion Ratio Lower Upper
164 100
162 100.5 82.2 123.2
160 50.5 40.1 60.1

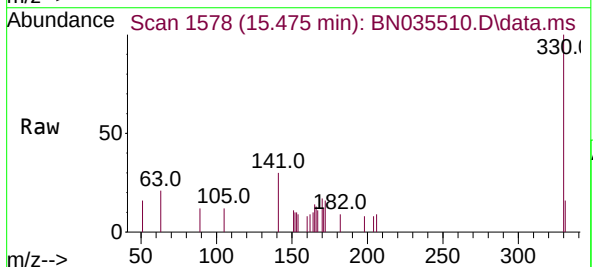
Manual Integrations

APPROVED

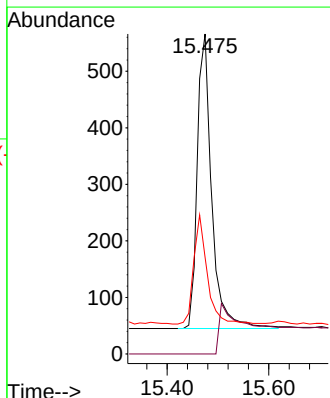
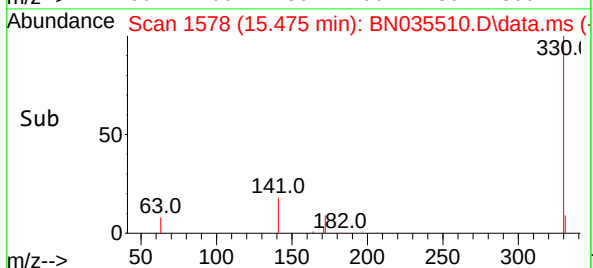
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

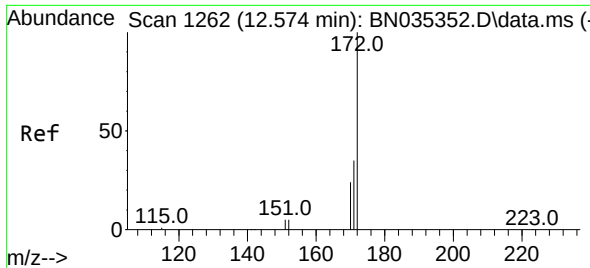


#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07



Tgt Ion:330 Resp: 1103
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

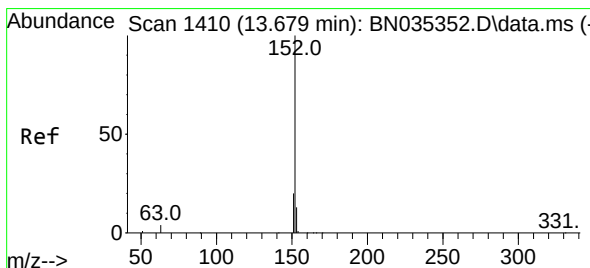
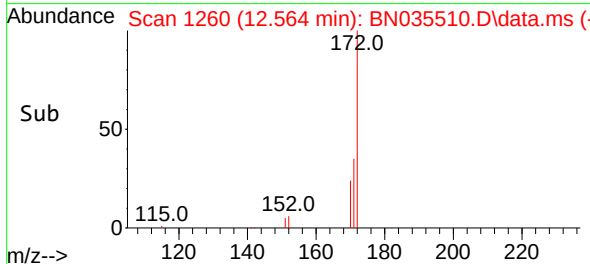
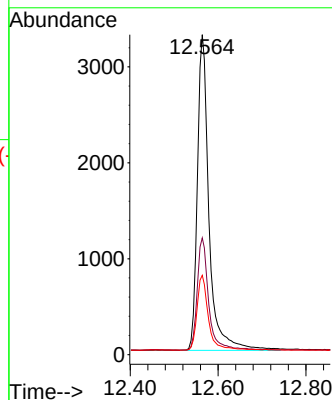
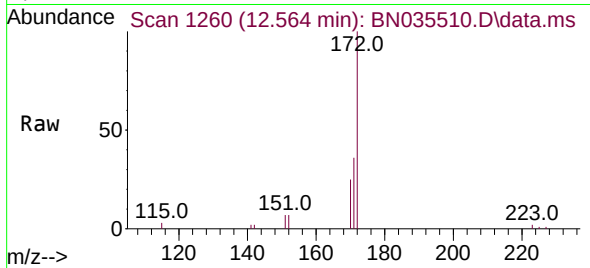
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.8	19.8	29.8

Manual Integrations

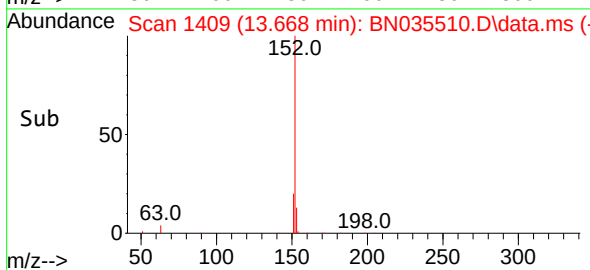
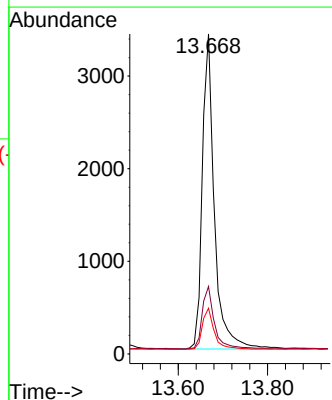
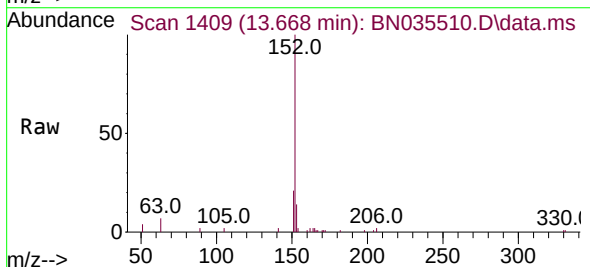
APPROVED

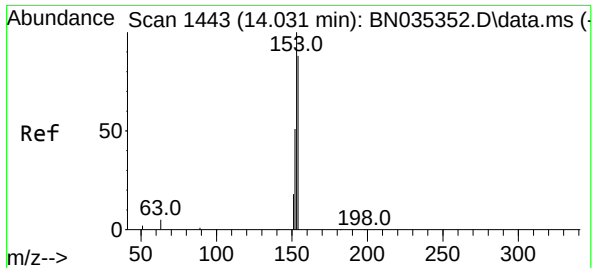
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

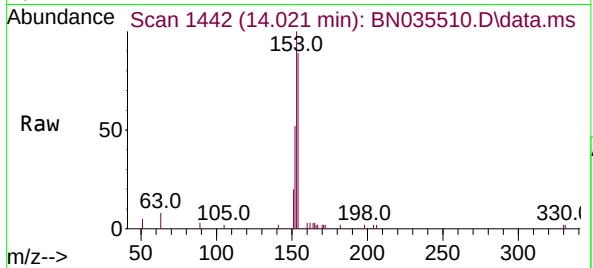
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6





#17
Acenaphthene
Concen: 0.389 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

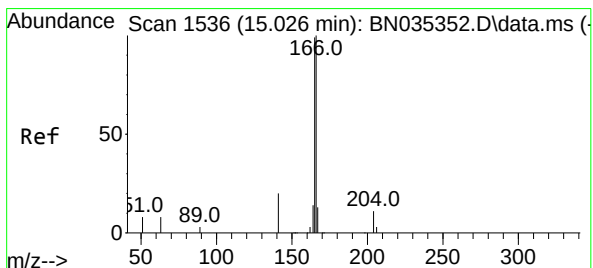
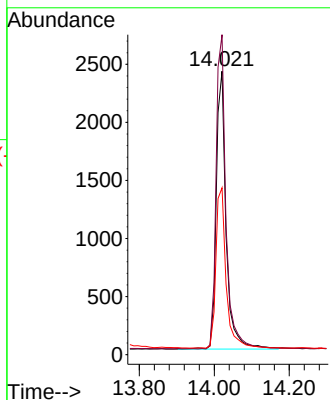
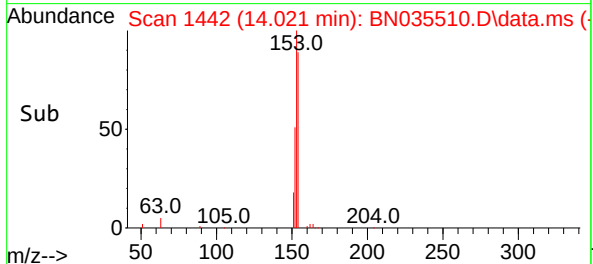
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 4360
Ion Ratio Lower Upper
154 100
153 114.5 92.6 139.0
152 60.1 49.0 73.6

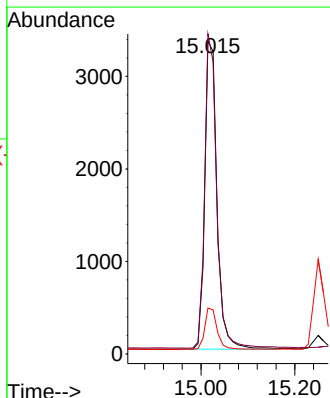
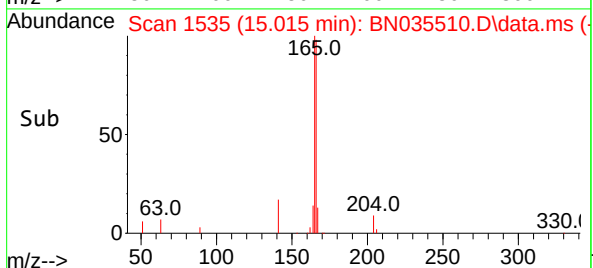
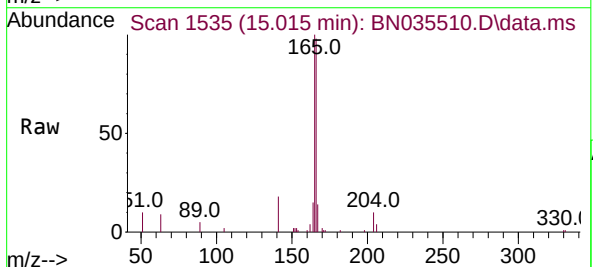
Manual Integrations
APPROVED

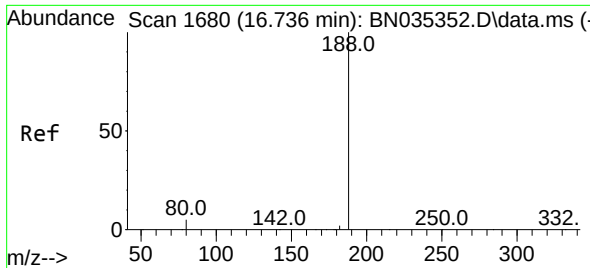
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.377 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

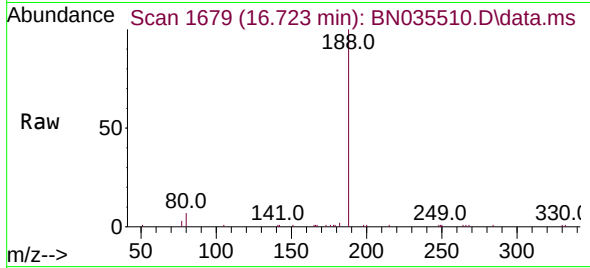
Tgt Ion:166 Resp: 6050
Ion Ratio Lower Upper
166 100
165 99.4 79.7 119.5
167 13.6 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

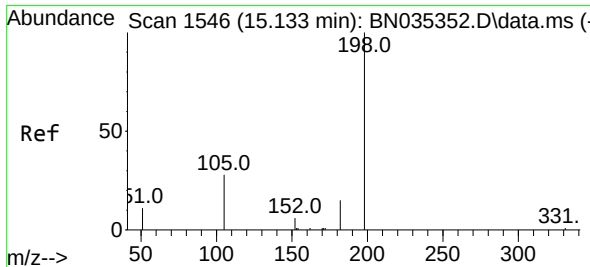
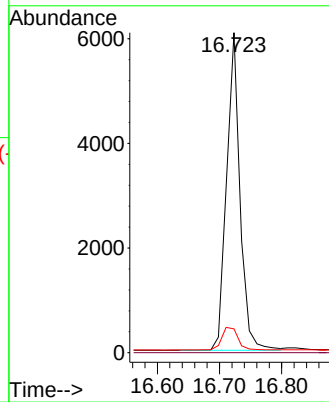
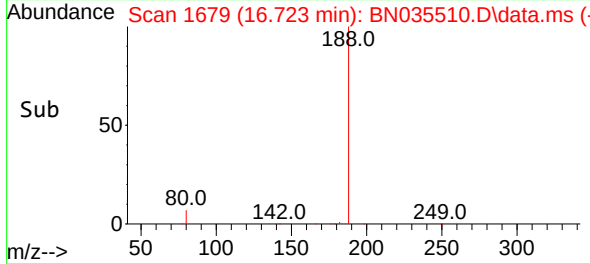
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 907
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.4 4.6 6.8

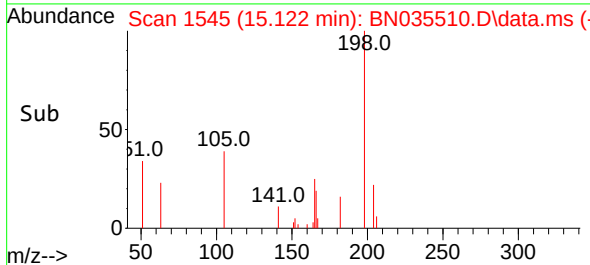
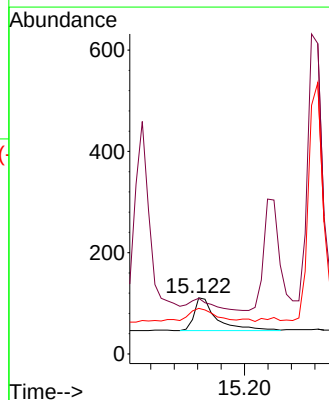
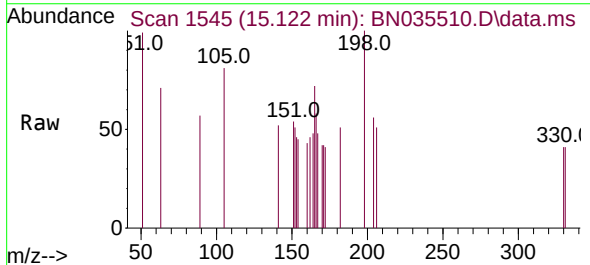
Manual Integrations
APPROVED

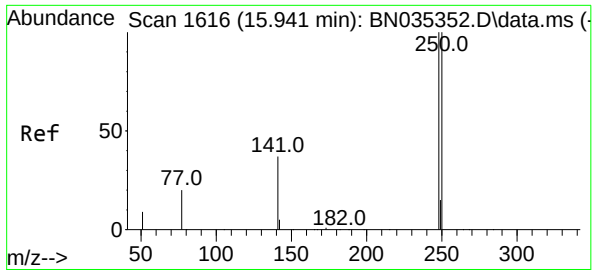
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.196 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

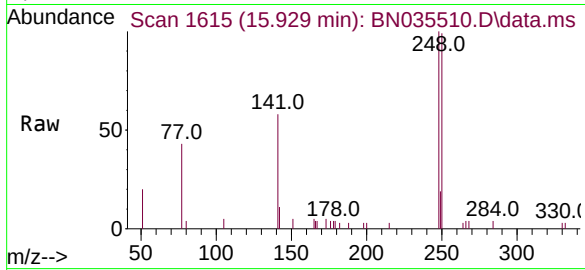
Tgt Ion:198 Resp: 175
Ion Ratio Lower Upper
198 100
51 99.1 46.5 69.7#
105 81.1 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

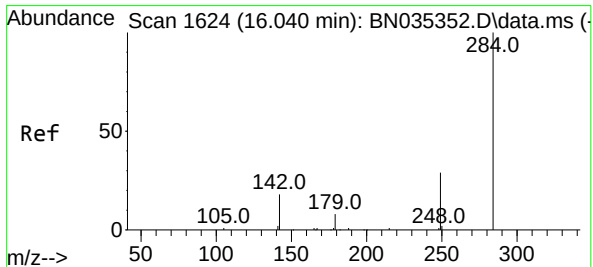
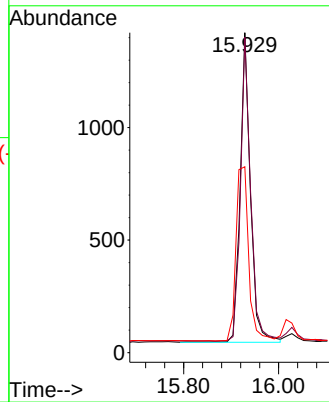
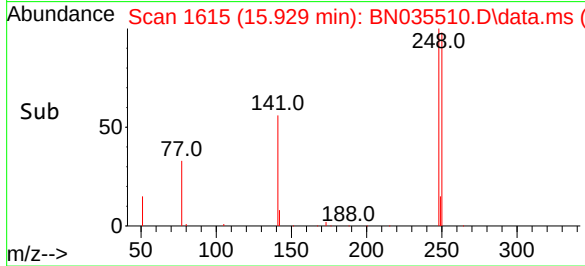
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 2075
Ion Ratio Lower Upper
248 100
250 98.6 80.6 120.8
141 58.1 31.5 47.3

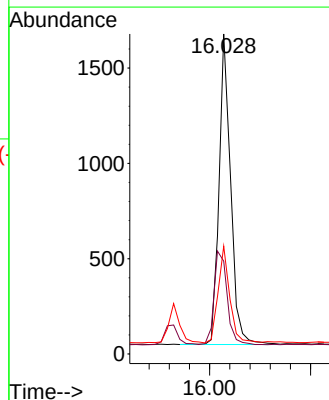
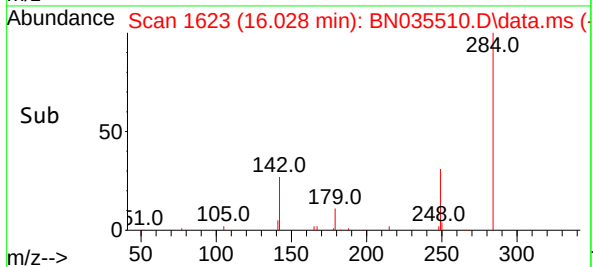
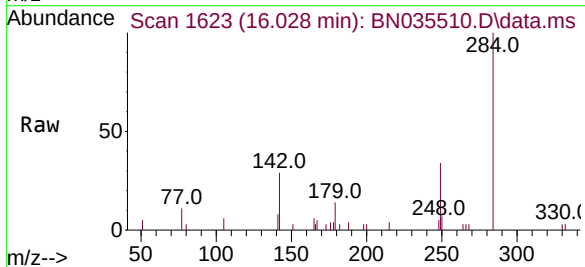
Manual Integrations
APPROVED

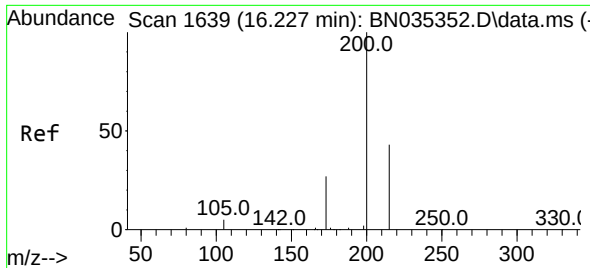
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

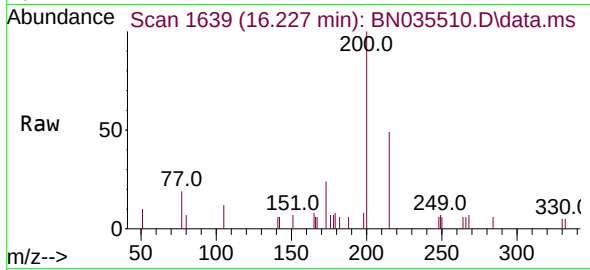
Tgt Ion:284 Resp: 2587
Ion Ratio Lower Upper
284 100
142 34.1 26.7 40.1
249 31.2 24.6 36.8





#23
Atrazine
Concen: 0.387 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

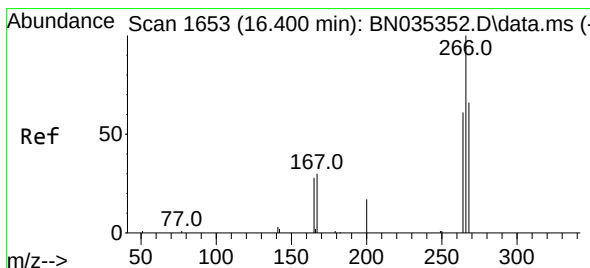
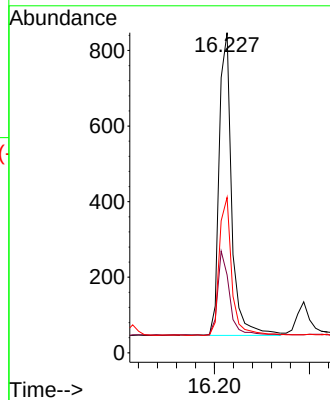
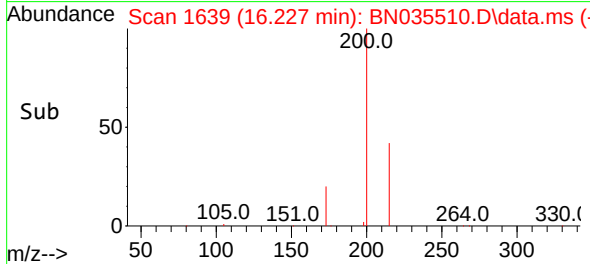
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 146
Ion Ratio Lower Upper
200 100
173 24.3 24.1 36.1
215 48.5 36.9 55.3

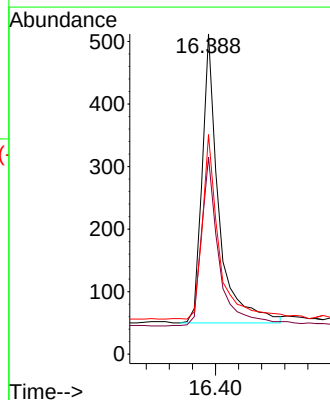
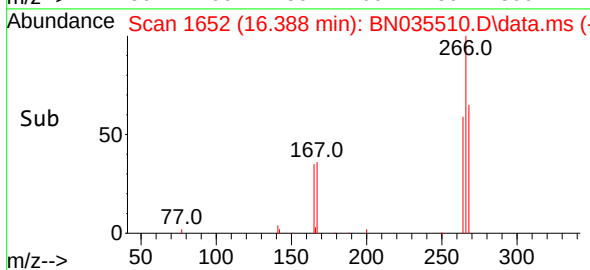
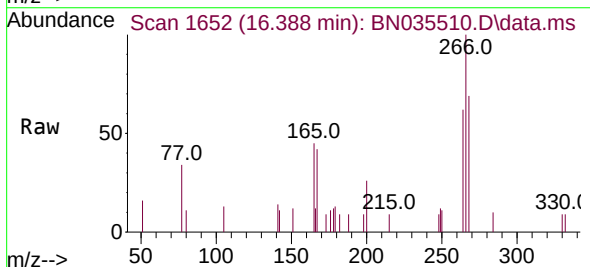
Manual Integrations
APPROVED

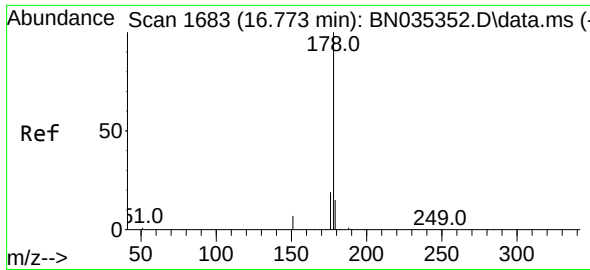
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:266 Resp: 925
Ion Ratio Lower Upper
266 100
264 63.2 42.3 63.5
268 64.3 43.3 64.9





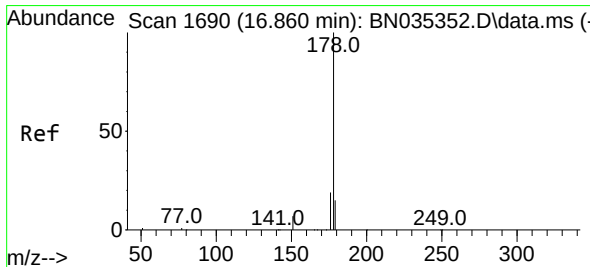
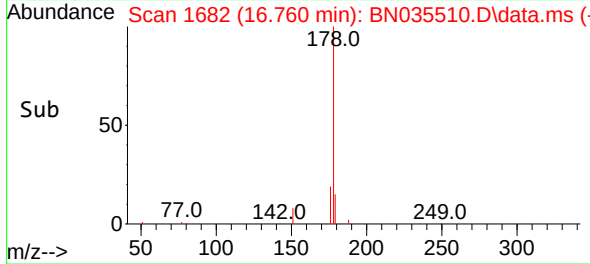
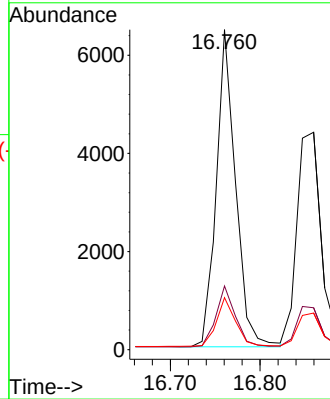
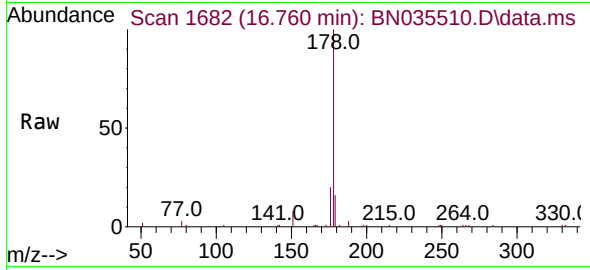
#25
Phenanthrene
Concen: 0.387 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 966
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.6 12.3 18.5

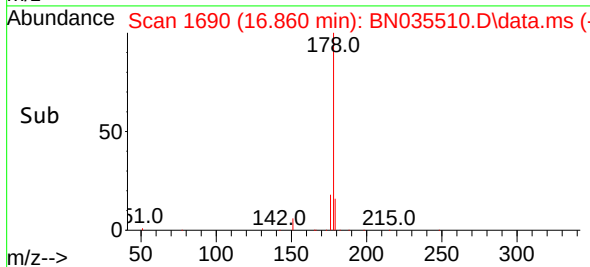
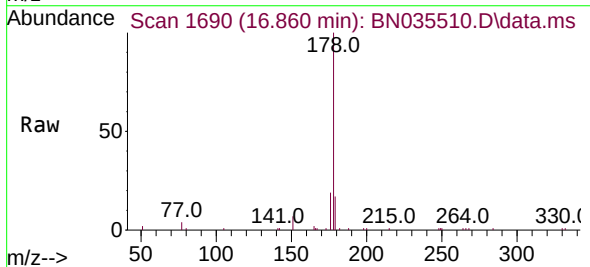
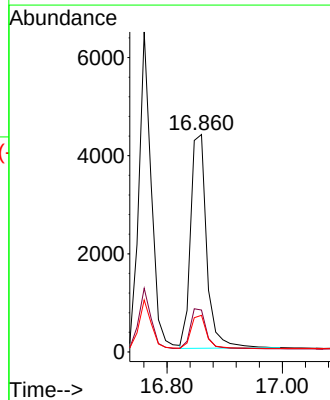
Manual Integrations
APPROVED

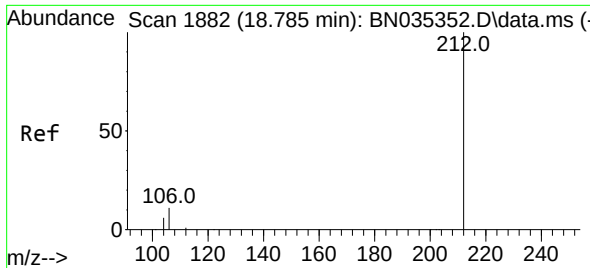
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:178 Resp: 8433
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8





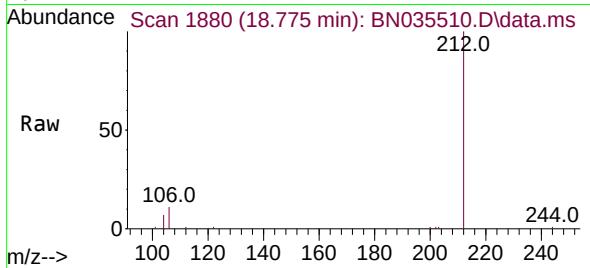
#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

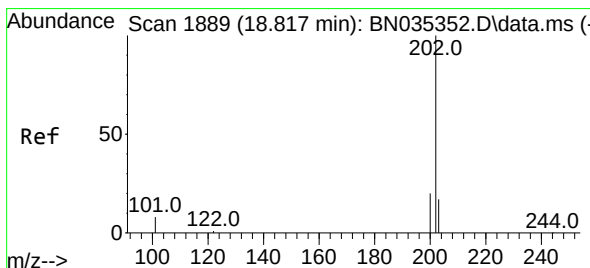
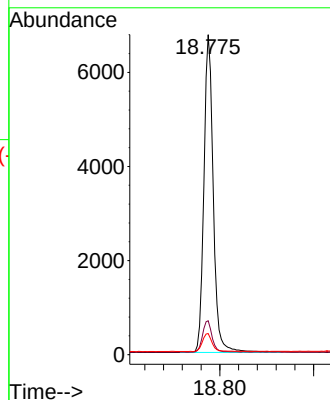
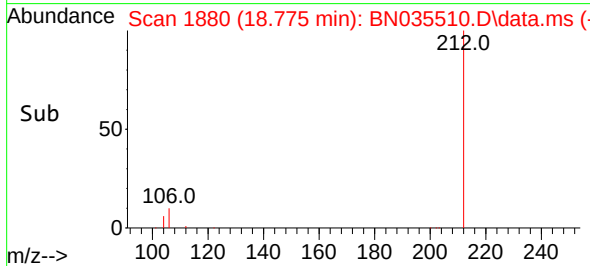


Tgt Ion:212 Resp: 9358
Ion Ratio Lower Upper
212 100
106 10.1 9.2 13.8
104 5.9 5.3 7.9

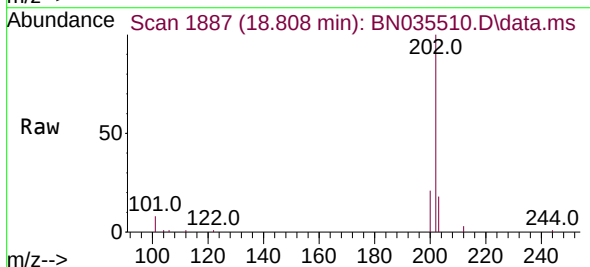
Manual Integrations

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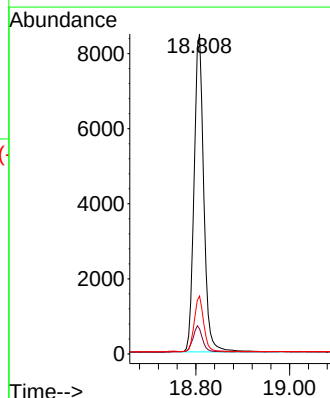
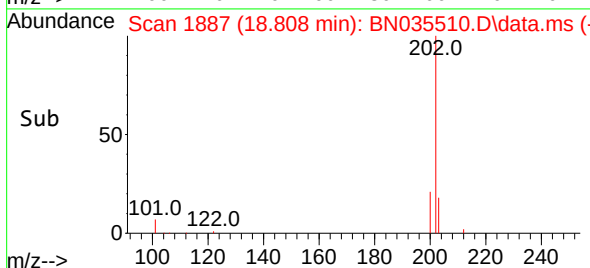
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

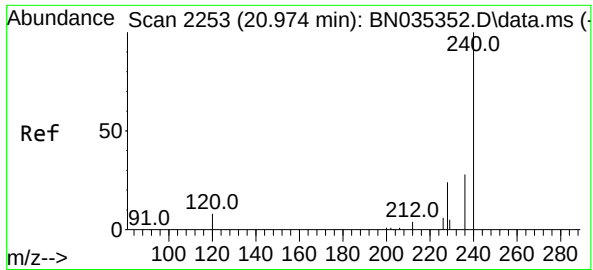


#28
Fluoranthene
Concen: 0.362 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07



Tgt Ion:202 Resp: 12158
Ion Ratio Lower Upper
202 100
101 8.0 7.4 11.0
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 816

Ion Ratio Lower Upper

240 100

120 10.6 7.9 11.9

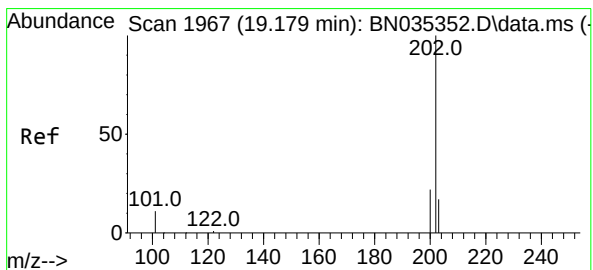
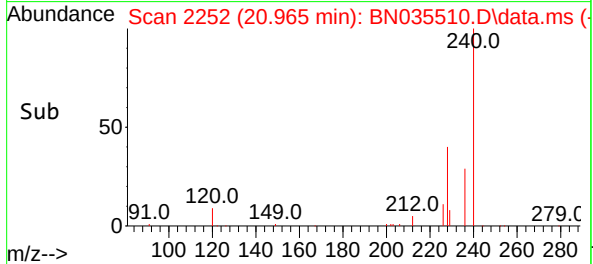
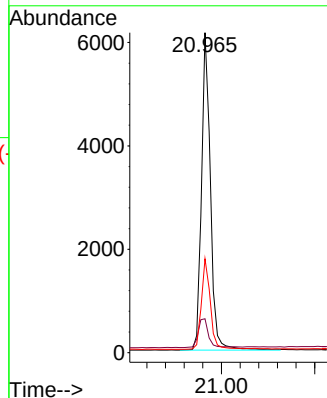
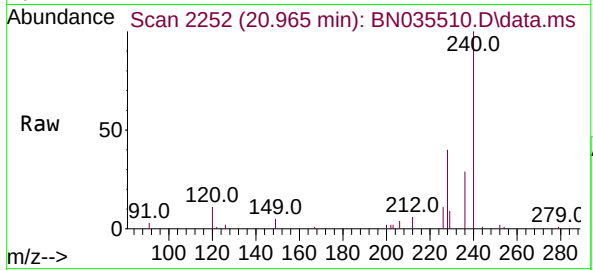
236 29.4 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#30

Pyrene

Concen: 0.411 ng

RT: 19.175 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

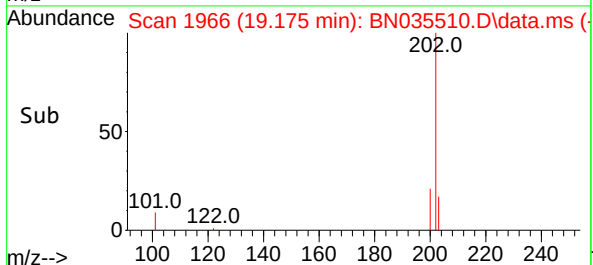
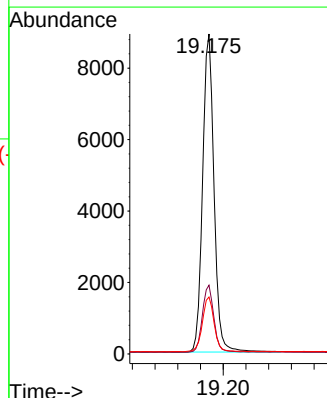
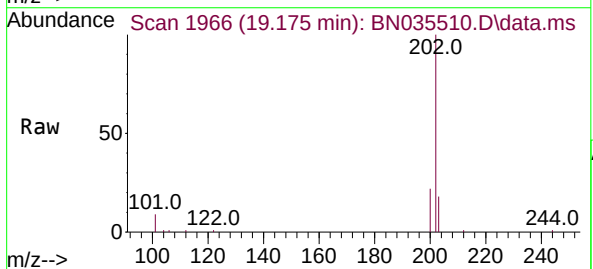
Tgt Ion:202 Resp: 12397

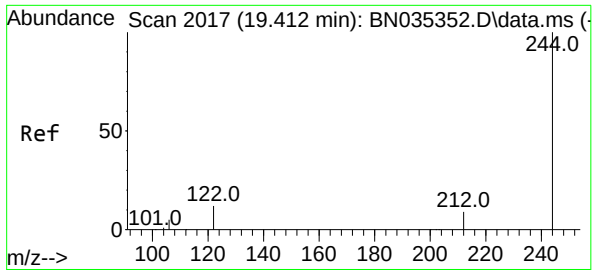
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.7 14.3 21.5





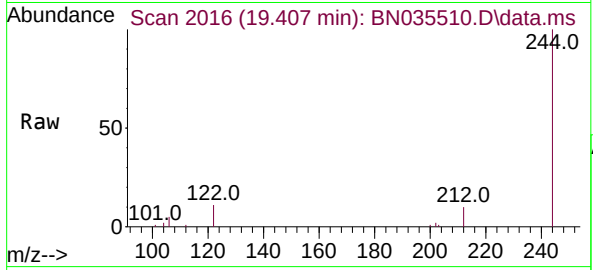
#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

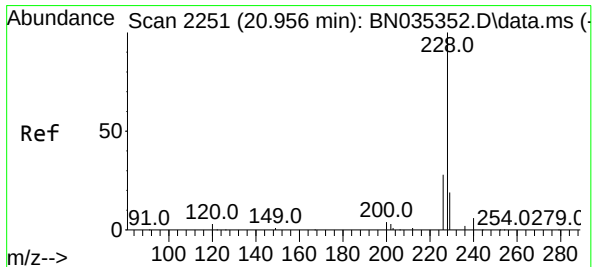
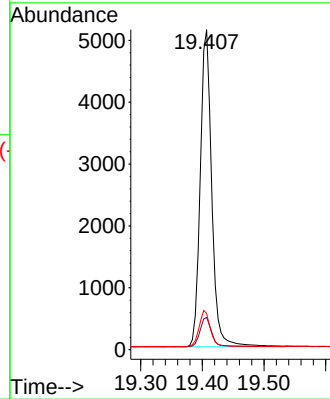
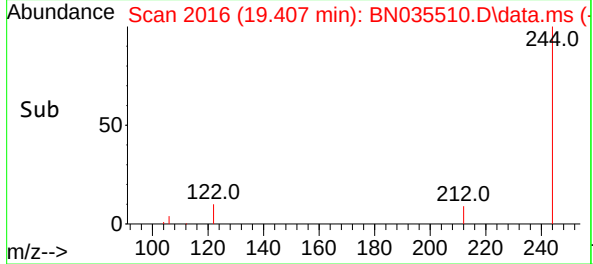


Tgt Ion:244 Resp: 6660
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 11.3 10.3 15.5

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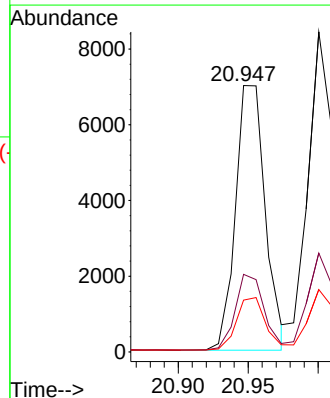
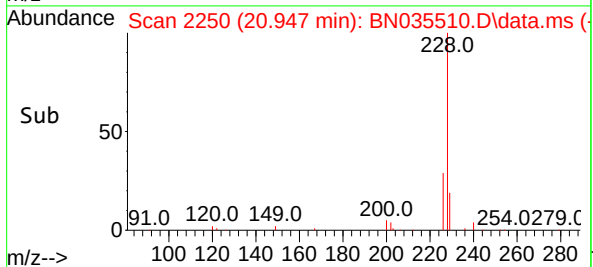
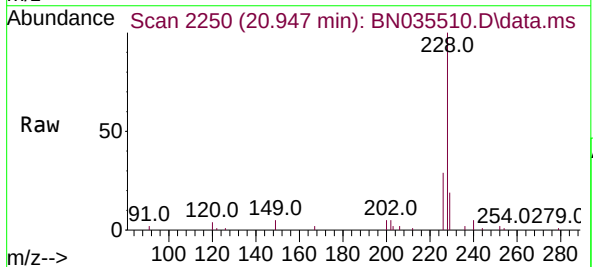
APPROVED

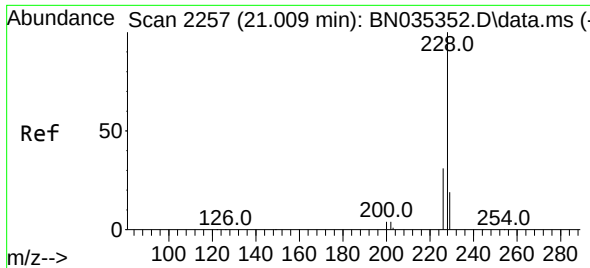
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

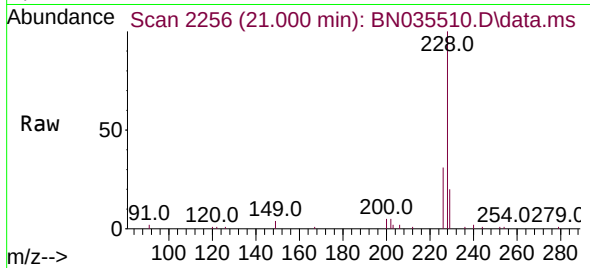
Tgt Ion:228 Resp: 10365
Ion Ratio Lower Upper
228 100
226 29.1 22.5 33.7
229 19.5 15.8 23.8





#33
Chrysene
Concen: 0.394 ng
RT: 21.000 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

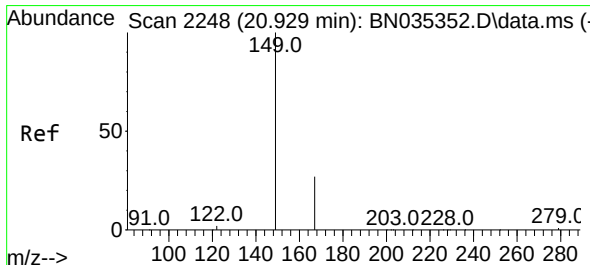
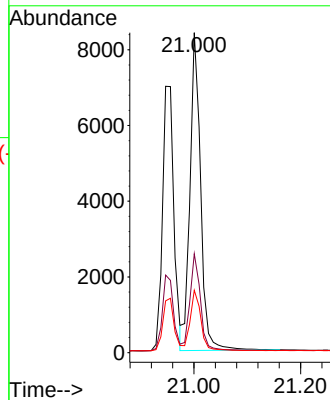
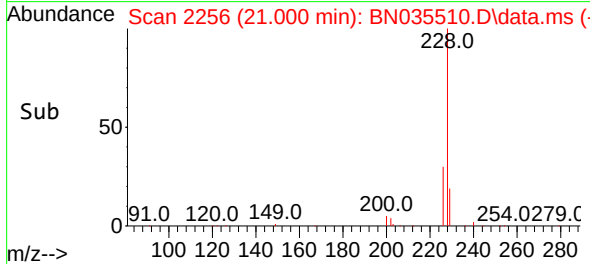
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 11620
Ion Ratio Lower Upper
228 100
226 30.9 24.6 37.0
229 19.5 15.9 23.9

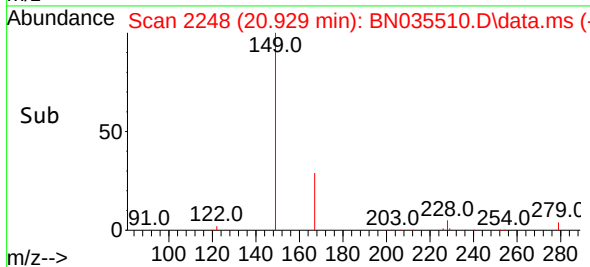
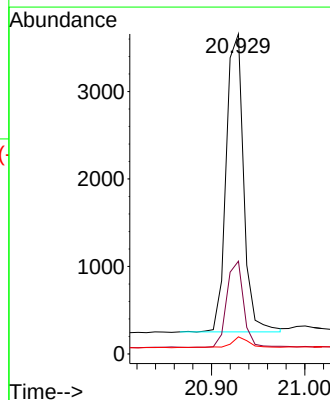
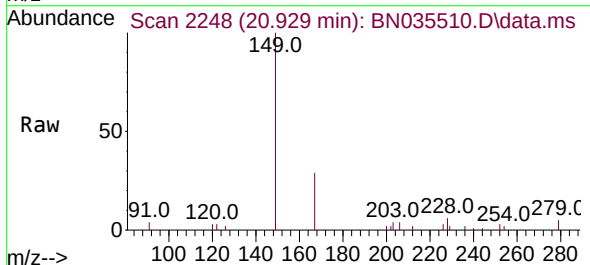
Manual Integrations
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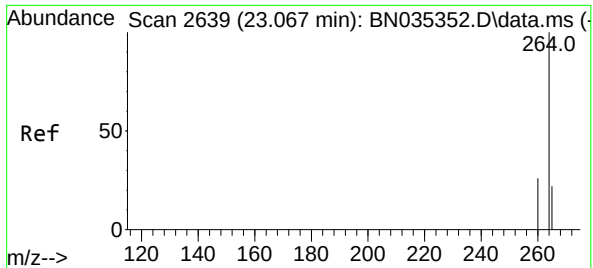
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.392 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

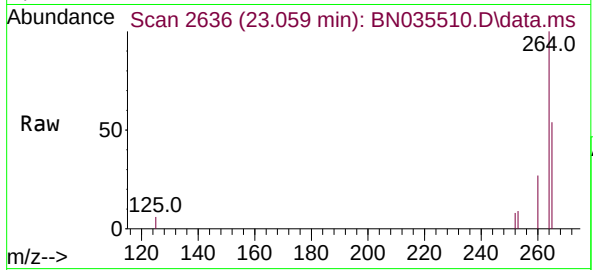
Tgt Ion:149 Resp: 4418
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 3.4 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

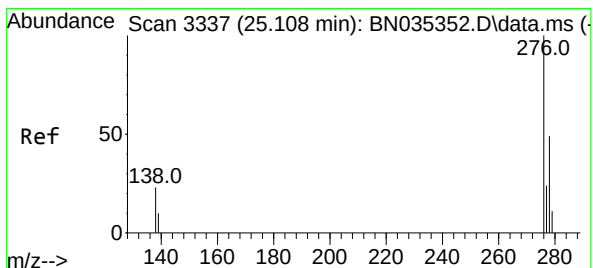
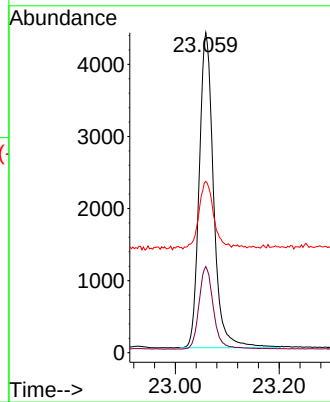
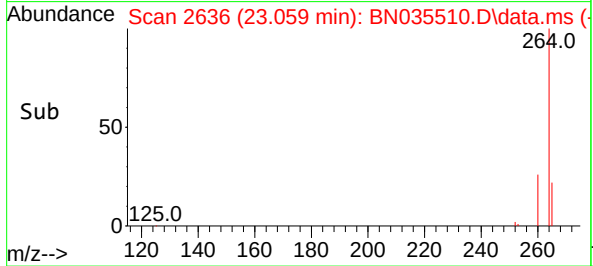
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 838
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 53.6 40.2 60.4

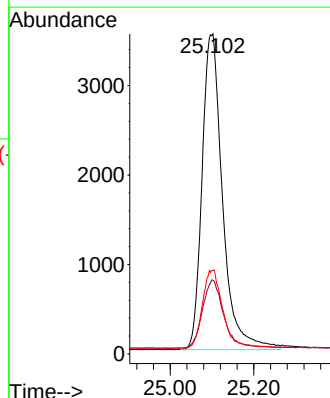
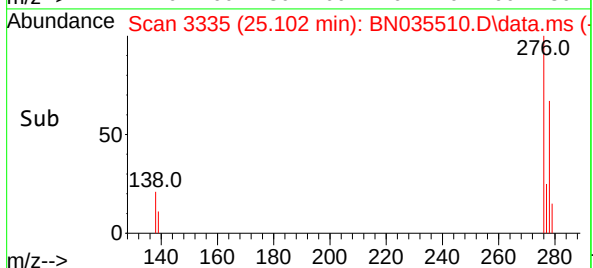
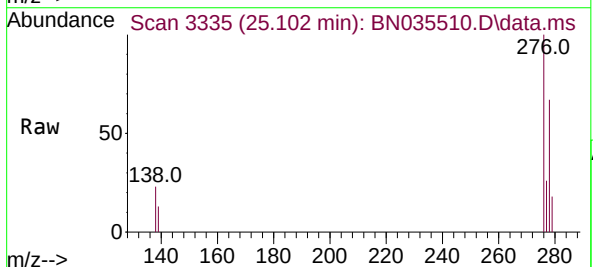
Manual Integrations
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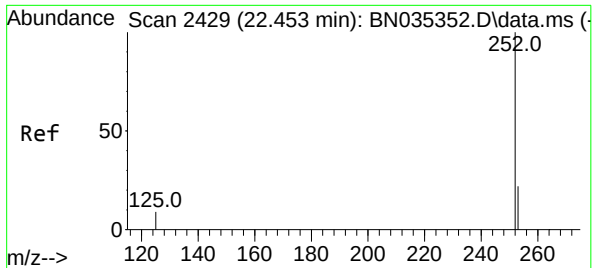
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:276 Resp: 12024
Ion Ratio Lower Upper
276 100
138 21.7 19.4 29.0
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.440 ng

RT: 22.447 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

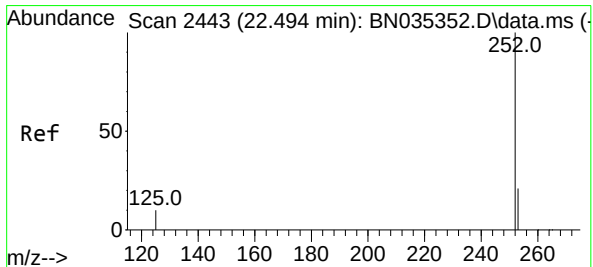
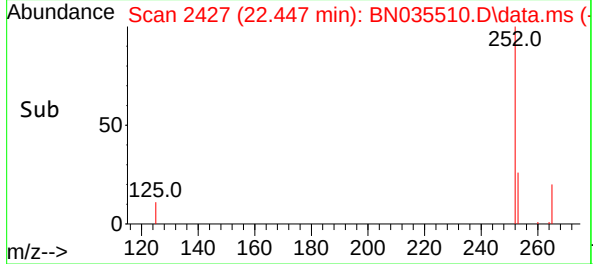
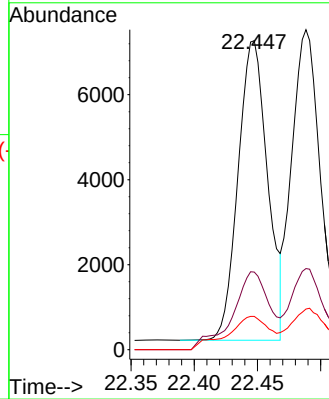
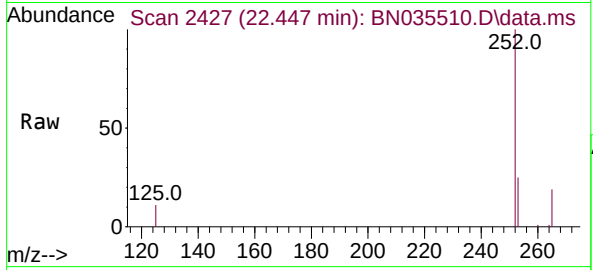
Tgt Ion:	252	Resp:	1350
Ion Ratio	Lower	Upper	
252	100		
253	25.1	19.6	29.4
125	10.8	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.394 ng

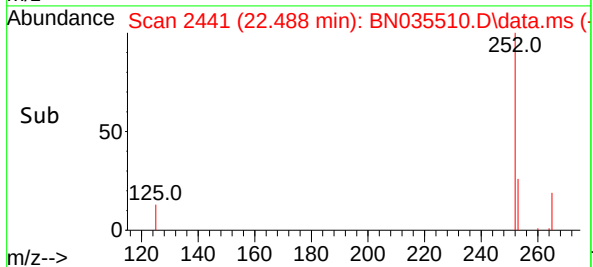
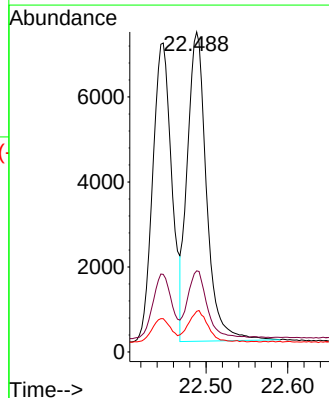
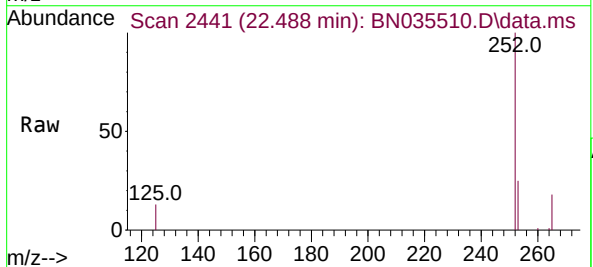
RT: 22.488 min Scan# 2441

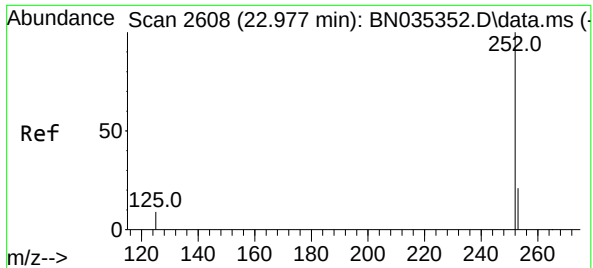
Delta R.T. -0.006 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Tgt Ion:	252	Resp:	11908
Ion Ratio	Lower	Upper	
252	100		
253	25.4	19.5	29.3
125	12.7	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 22.968 min Scan# 20

Delta R.T. -0.009 min

Lab File: BN035510.D

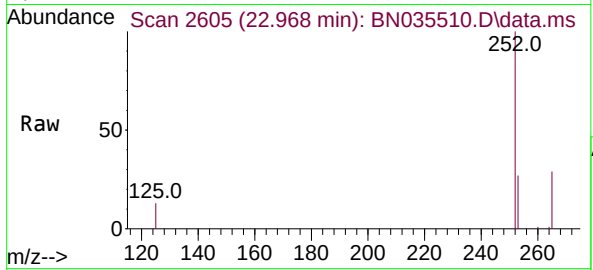
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



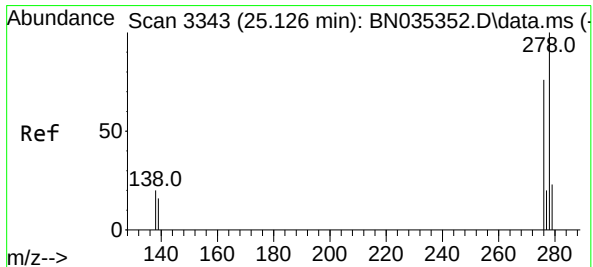
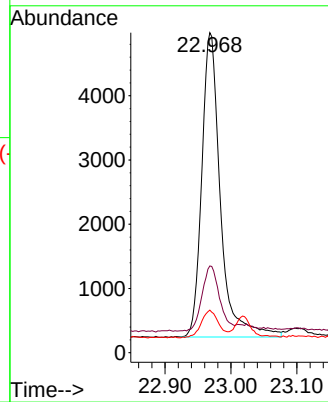
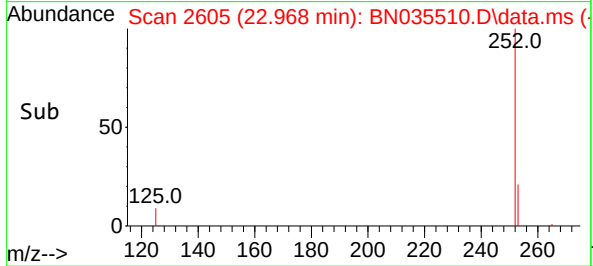
Tgt Ion:	252	Resp:	9314
Ion Ratio	Lower	Upper	
252	100		
253	27.1	20.2	30.4
125	13.3	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

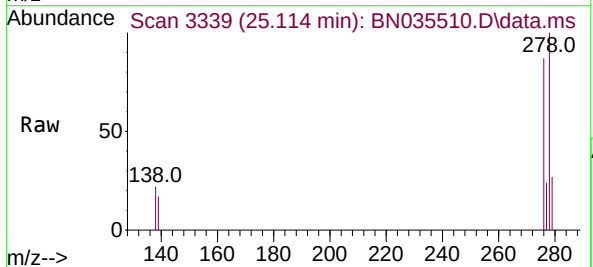
Concen: 0.357 ng

RT: 25.114 min Scan# 3339

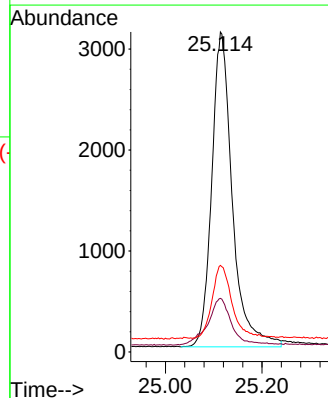
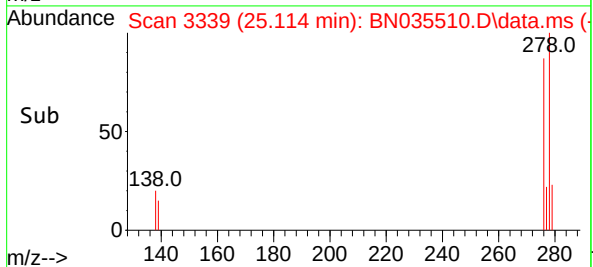
Delta R.T. -0.012 min

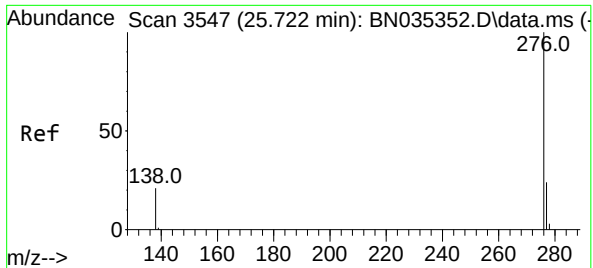
Lab File: BN035510.D

Acq: 09 Dec 2024 17:07



Tgt Ion:	278	Resp:	9233
Ion Ratio	Lower	Upper	
278	100		
139	16.8	14.2	21.4
279	27.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 25.710 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN035510.D

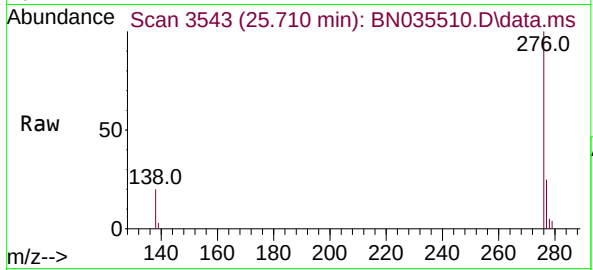
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 998

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

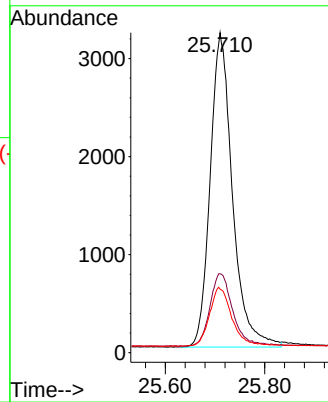
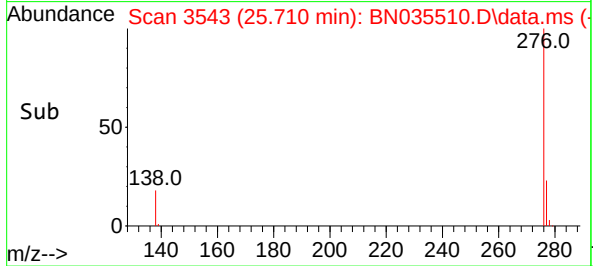
138 19.9 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035510.D
 Acq On : 09 Dec 2024 17:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	96	0.00
2	1,4-Dioxane	0.382	0.363	5.0	93	0.00
3	n-Nitrosodimethylamine	0.319	0.322	-0.9	95	0.00
4 S	2-Fluorophenol	1.001	1.045	-4.4	99	-0.01
5 S	Phenol-d6	1.204	1.324	-10.0	107	0.00
6	bis(2-Chloroethyl)ether	1.012	0.976	3.6	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	-0.01
8 S	Nitrobenzene-d5	0.244	0.260	-6.6	118	-0.01
9	Naphthalene	1.055	1.026	2.7	105	-0.01
10	Hexachlorobutadiene	0.243	0.252	-3.7	109	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.627	-0.2	108	-0.01
12	2-Methylnaphthalene	0.755	0.741	1.9	107	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.274	3.5	113	0.00
15 S	2-Fluorobiphenyl	1.512	1.514	-0.1	106	-0.01
16	Acenaphthylene	1.680	1.587	5.5	105	-0.01
17	Acenaphthene	1.115	1.084	2.8	106	-0.01
18	Fluorene	1.596	1.505	5.7	103	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.019	51.3#	52	-0.01
21	4-Bromophenyl-phenylether	0.234	0.229	2.1	97	-0.01
22	Hexachlorobenzene	0.275	0.285	-3.6	100	-0.01
23	Atrazine	0.167	0.161	3.6	100	0.00
24	Pentachlorophenol	0.120	0.102	15.0	102	-0.01
25	Phenanthrene	1.099	1.064	3.2	95	-0.01
26	Anthracene	0.994	0.929	6.5	95	0.00
27 SURR	Fluoranthene-d10	1.134	1.031	9.1	92	0.00
28	Fluoranthene	1.481	1.339	9.6	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	86	0.00
30	Pyrene	1.477	1.518	-2.8	88	0.00
31 S	Terphenyl-d14	0.789	0.816	-3.4	88	0.00
32	Benzo(a)anthracene	1.399	1.269	9.3	80	0.00
33	Chrysene	1.443	1.423	1.4	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.541	2.2	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.434	8.3	72	0.00
37	Benzo(b)fluoranthene	1.463	1.610	-10.0	95	0.00
38	Benzo(k)fluoranthene	1.440	1.420	1.4	78	0.00
39 C	Benzo(a)pyrene	1.205	1.111	7.8	75	0.00
40	Dibenzo(a,h)anthracene	1.234	1.101	10.8	71	-0.01
41	Benzo(g,h,i)perylene	1.289	1.191	7.6	74	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035510.D
 Acq On : 09 Dec 2024 17:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	96	0.00
2	1,4-Dioxane	0.400	0.380	5.0	93	0.00
3	n-Nitrosodimethylamine	0.400	0.404	-1.0	95	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	99	-0.01
5 S	Phenol-d6	0.400	0.440	-10.0	107	0.00
6	bis(2-Chloroethyl)ether	0.400	0.386	3.5	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	-0.01
8 S	Nitrobenzene-d5	0.400	0.425	-6.2	118	-0.01
9	Naphthalene	0.400	0.389	2.8	105	-0.01
10	Hexachlorobutadiene	0.400	0.414	-3.5	109	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.401	-0.3	108	-0.01
12	2-Methylnaphthalene	0.400	0.392	2.0	107	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.386	3.5	113	0.00
15 S	2-Fluorobiphenyl	0.400	0.400	0.0	106	-0.01
16	Acenaphthylene	0.400	0.378	5.5	105	-0.01
17	Acenaphthene	0.400	0.389	2.8	106	-0.01
18	Fluorene	0.400	0.377	5.8	103	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.196	51.0#	52	-0.01
21	4-Bromophenyl-phenylether	0.400	0.391	2.3	97	-0.01
22	Hexachlorobenzene	0.400	0.415	-3.7	100	-0.01
23	Atrazine	0.400	0.387	3.3	100	0.00
24	Pentachlorophenol	0.400	0.341	14.8	102	-0.01
25	Phenanthrene	0.400	0.387	3.3	95	-0.01
26	Anthracene	0.400	0.374	6.5	95	0.00
27 SURR	Fluoranthene-d10	0.400	0.364	9.0	92	0.00
28	Fluoranthene	0.400	0.362	9.5	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	86	0.00
30	Pyrene	0.400	0.411	-2.7	88	0.00
31 S	Terphenyl-d14	0.400	0.414	-3.5	88	0.00
32	Benzo(a)anthracene	0.400	0.363	9.3	80	0.00
33	Chrysene	0.400	0.394	1.5	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.392	2.0	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	72	0.00
37	Benzo(b)fluoranthene	0.400	0.440	-10.0	95	0.00
38	Benzo(k)fluoranthene	0.400	0.394	1.5	78	0.00
39 C	Benzo(a)pyrene	0.400	0.369	7.8	75	0.00
40	Dibenzo(a,h)anthracene	0.400	0.357	10.8	71	-0.01
41	Benzo(g,h,i)perylene	0.400	0.369	7.8	74	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 00:55

Lab File ID: BN035523.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.625		-0.2	50.0
Fluoranthene-d10	1.134	1.005		-11.4	50.0
2-Fluorophenol	1.001	1.013		1.2	50.0
Phenol-d6	1.204	1.247		3.6	50.0
Nitrobenzene-d5	0.244	0.265		8.6	50.0
2-Fluorobiphenyl	1.512	1.447		-4.3	50.0
2,4,6-Tribromophenol	0.284	0.266		-6.3	50.0
Terphenyl-d14	0.789	0.812		2.9	50.0
1,4-Dioxane	0.382	0.386		1.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035523.D
 Acq On : 10 Dec 2024 00:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1809	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4948	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3762	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8986	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7813	0.400	ng	0.00
35) Perylene-d12	23.056	264	7976	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1833	0.405	ng	-0.01
5) Phenol-d6	6.506	99	2256	0.414	ng	0.00
8) Nitrobenzene-d5	8.429	82	1313m	0.434	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3094	0.400	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	1002	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5445	0.383	ng	-0.01
27) Fluoranthene-d10	18.775	212	9035	0.355	ng	0.00
31) Terphenyl-d14	19.407	244	6345	0.412	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	698	0.404	ng	98
3) n-Nitrosodimethylamine	3.292	42	617	0.428	ng	# 95
6) bis(2-Chloroethyl)ether	6.752	93	1719	0.376	ng	100
9) Naphthalene	10.095	128	5071	0.389	ng	99
10) Hexachlorobutadiene	10.383	225	1254	0.417	ng	# 99
12) 2-Methylnaphthalene	11.722	142	3664	0.392	ng	99
16) Acenaphthylene	13.668	152	5848	0.370	ng	99
17) Acenaphthene	14.021	154	4030	0.384	ng	100
18) Fluorene	15.026	166	5811	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	248	0.281	ng	# 70
21) 4-Bromophenyl-phenylether	15.929	248	2058	0.392	ng	# 87
22) Hexachlorobenzene	16.028	284	2505	0.406	ng	99
23) Atrazine	16.227	200	1338	0.358	ng	95
24) Pentachlorophenol	16.388	266	807	0.301	ng	88
25) Phenanthrene	16.760	178	9239	0.374	ng	100
26) Anthracene	16.860	178	8006	0.359	ng	100
28) Fluoranthene	18.808	202	11681	0.351	ng	99
30) Pyrene	19.175	202	11847	0.411	ng	100
32) Benzo(a)anthracene	20.947	228	9669	0.354	ng	99
33) Chrysene	21.001	228	11263	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4196	0.389	ng	99
36) Indeno(1,2,3-cd)pyrene	25.096	276	11338	0.364	ng	97
37) Benzo(b)fluoranthene	22.445	252	13396	0.459	ng	97
38) Benzo(k)fluoranthene	22.486	252	11357	0.395	ng	99
39) Benzo(a)pyrene	22.968	252	8586	0.357	ng	97
40) Dibenzo(a,h)anthracene	25.114	278	8605	0.350	ng	96
41) Benzo(g,h,i)perylene	25.708	276	9565	0.372	ng	99

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

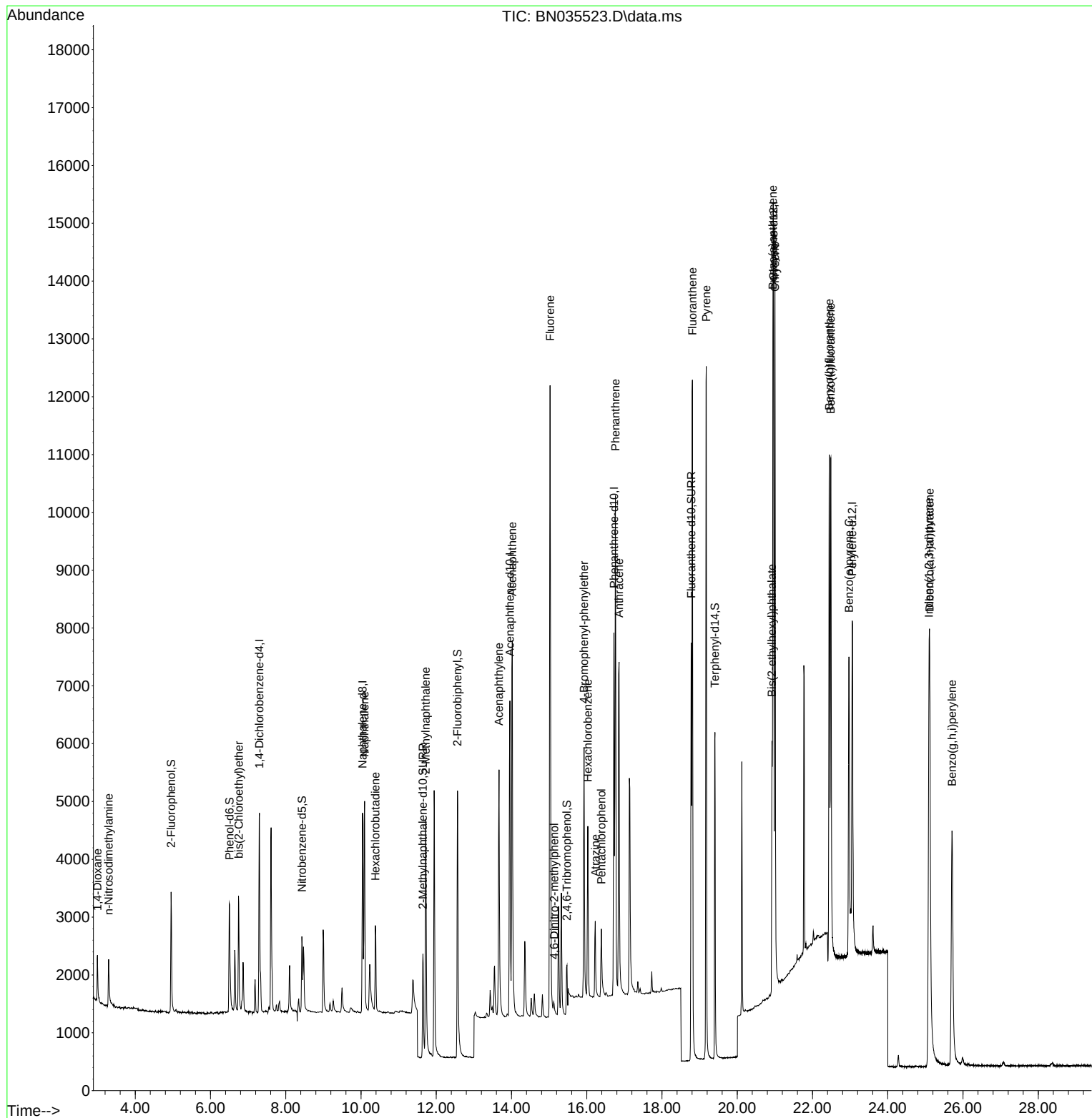
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035523.D
 Acq On : 10 Dec 2024 00:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

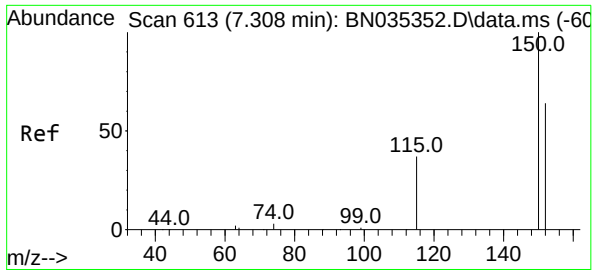
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

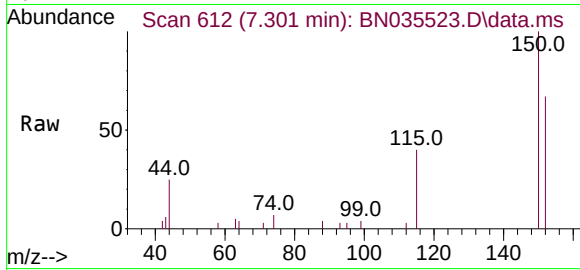
Quant Time: Dec 10 01:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

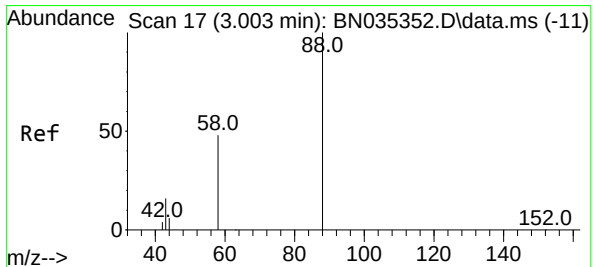
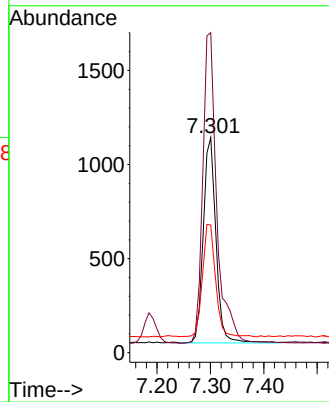
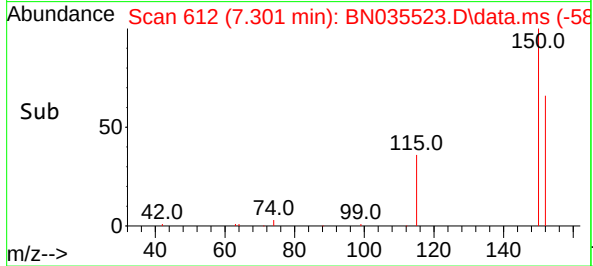
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 1809
Ion Ratio Lower Upper
152 100
150 148.8 124.0 186.0
115 59.4 49.6 74.4

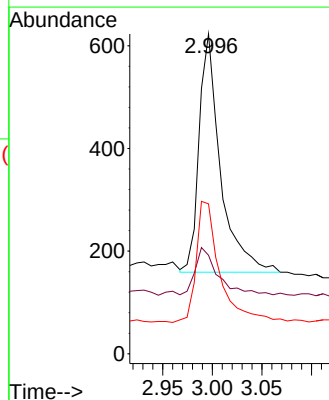
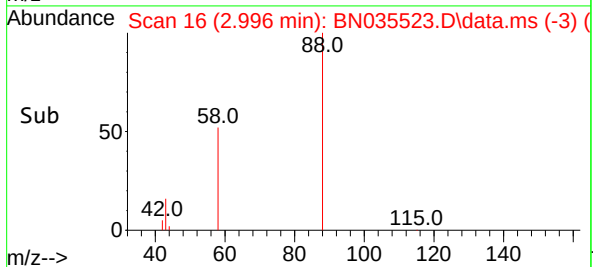
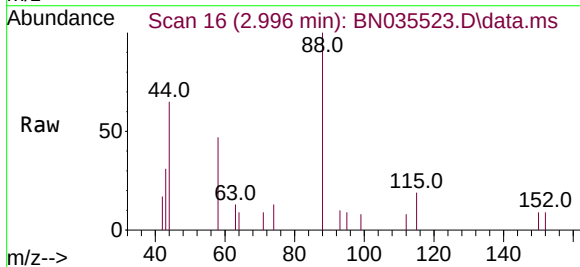
Manual Integrations
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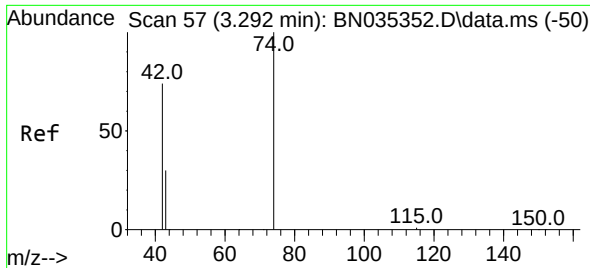
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

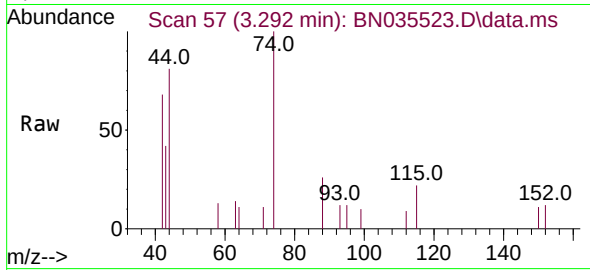
Tgt Ion: 88 Resp: 698
Ion Ratio Lower Upper
88 100
43 22.5 17.2 25.8
58 54.0 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

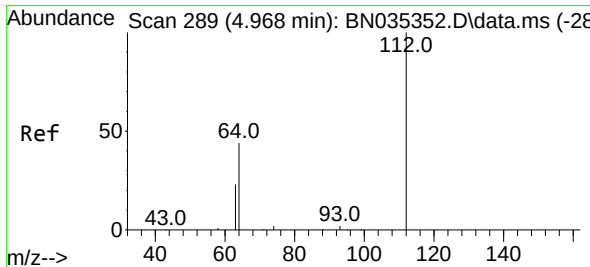
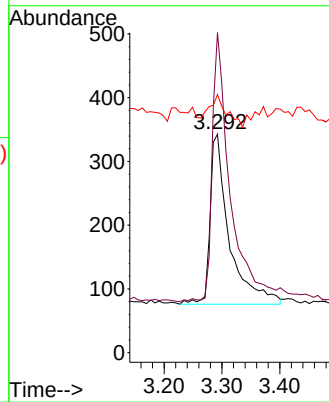
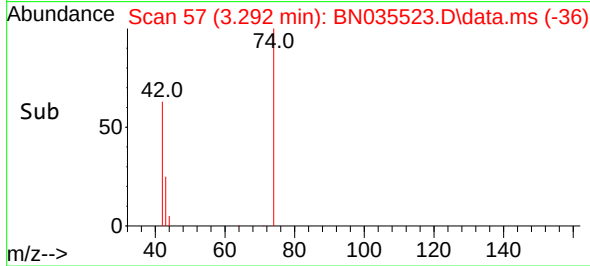
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 61
Ion Ratio Lower Upper
42 100
74 150.1 124.9 187.3
44 17.0 2.2 3.4

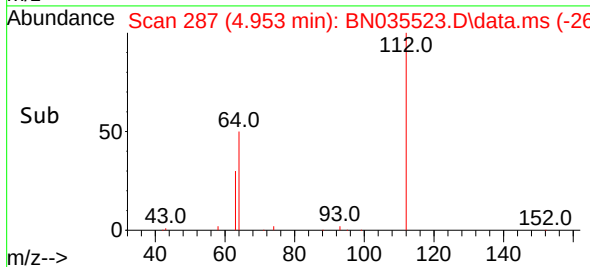
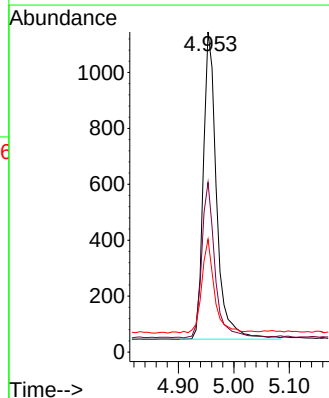
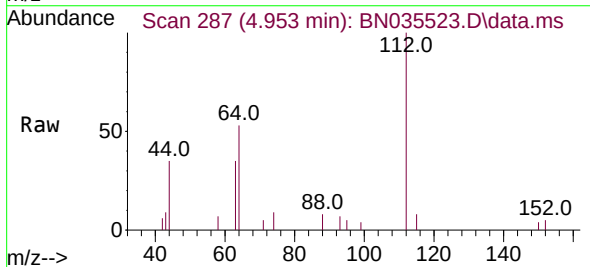
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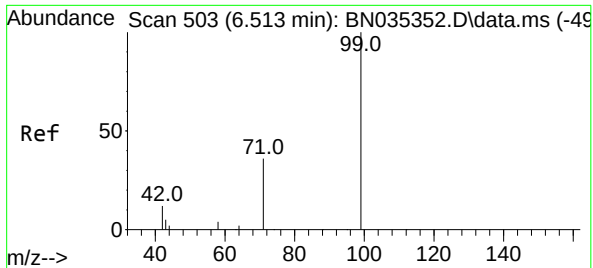
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:112 Resp: 1833
Ion Ratio Lower Upper
112 100
64 50.2 39.8 59.8
63 28.5 21.0 31.6





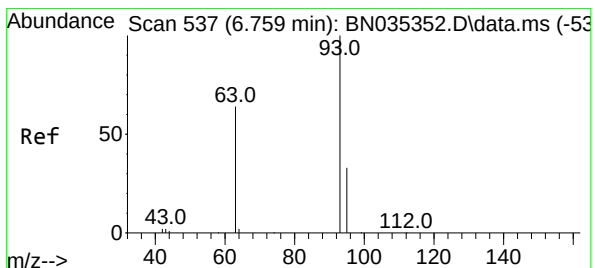
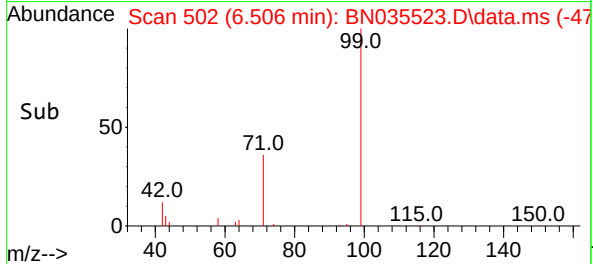
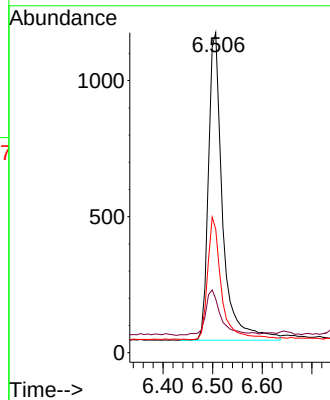
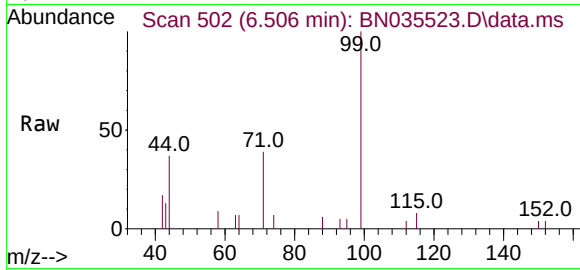
#5
Phenol-d6
Concen: 0.414 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2250
Ion Ratio Lower Upper
99 100
42 16.2 11.4 17.2
71 39.1 29.3 43.9

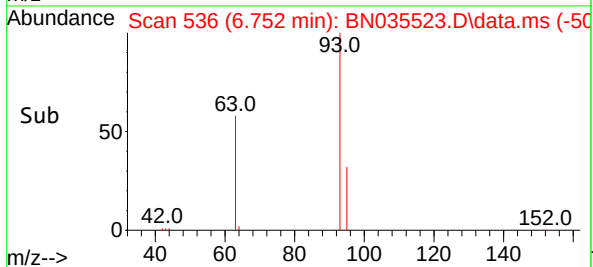
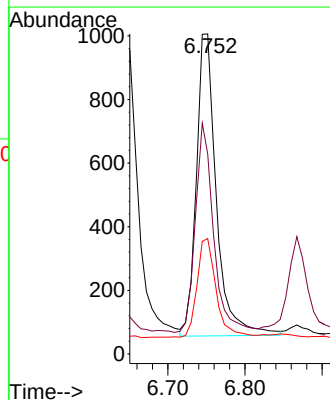
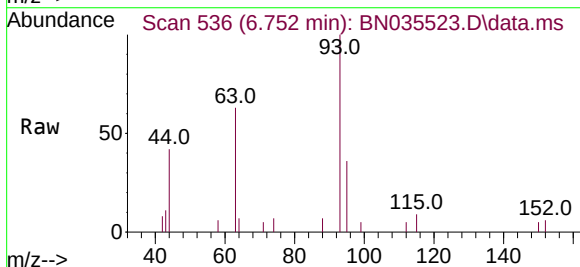
Manual Integrations
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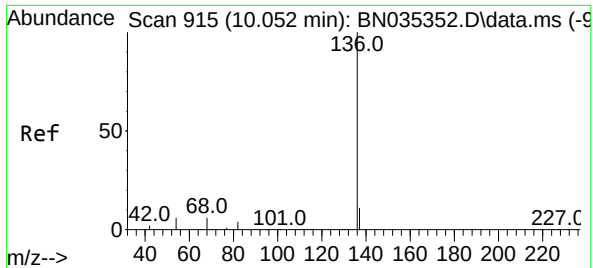
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

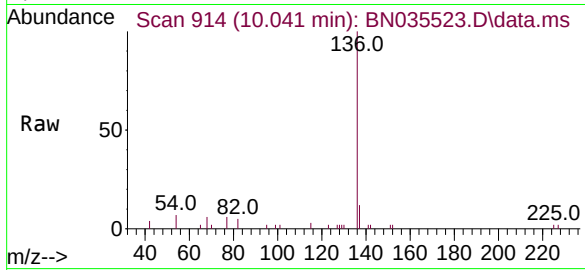
Tgt Ion: 93 Resp: 1719
Ion Ratio Lower Upper
93 100
63 62.8 50.4 75.6
95 31.6 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

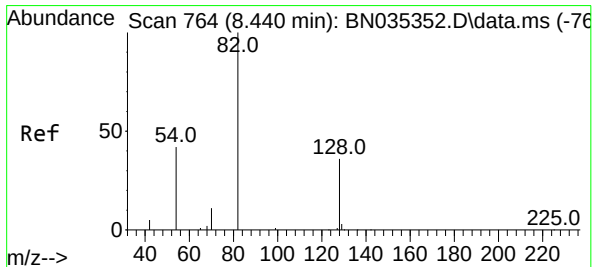
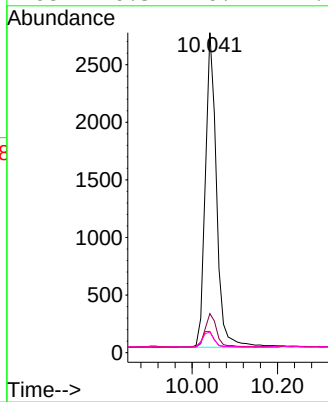
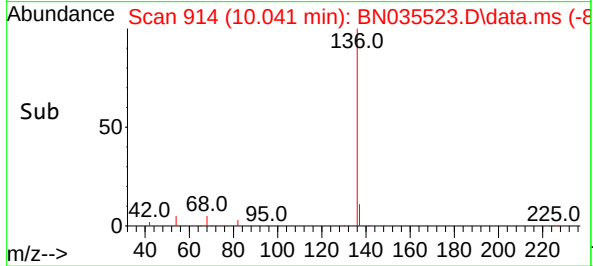
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 4948
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 6.7 6.1 9.1
68 6.5 6.4 9.6

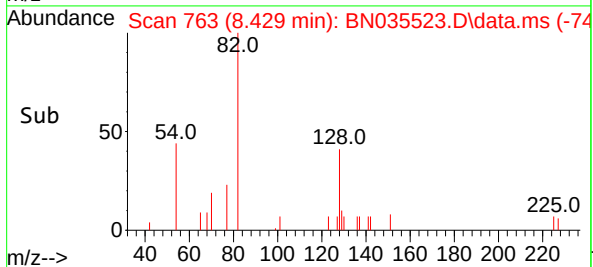
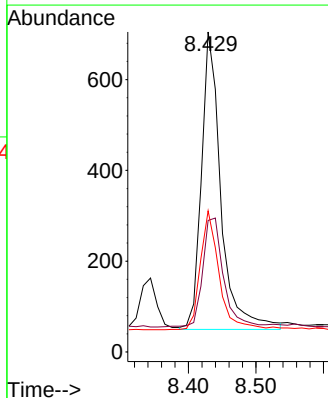
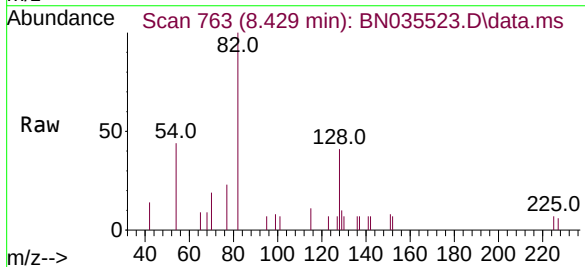
Manual Integrations
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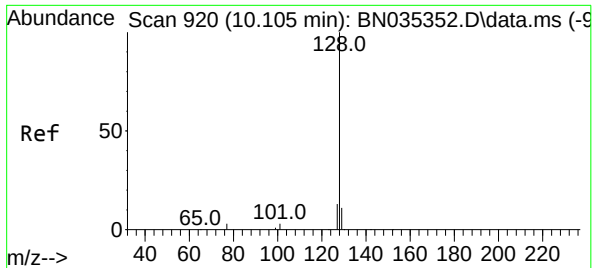
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.434 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 82 Resp: 1313
Ion Ratio Lower Upper
82 100
128 41.1 33.4 50.0
54 44.1 36.7 55.1





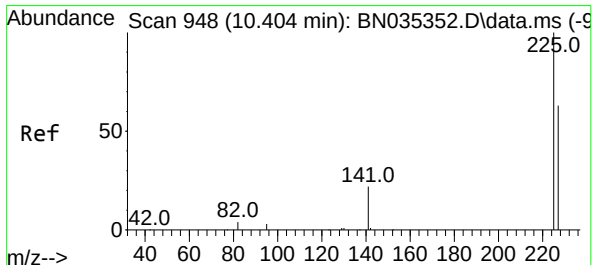
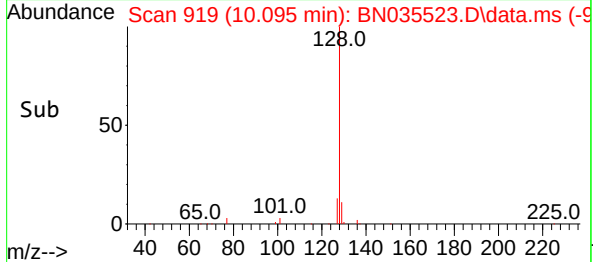
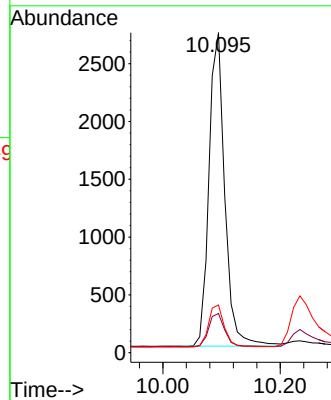
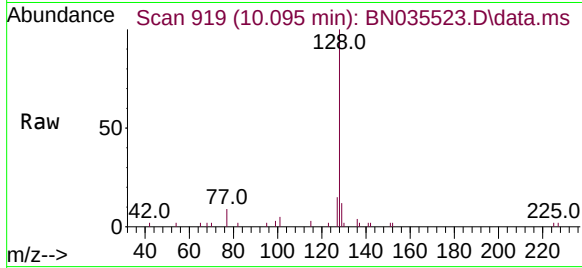
#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 507
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.9 11.4 17.2

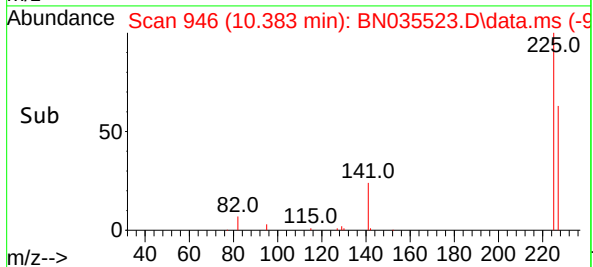
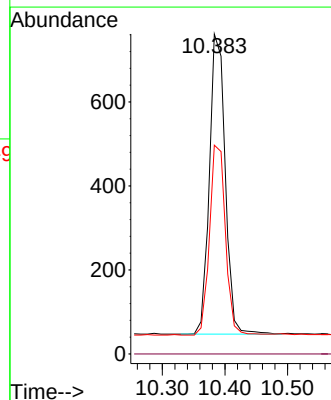
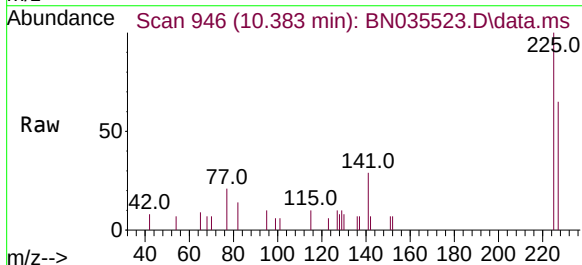
Manual Integrations
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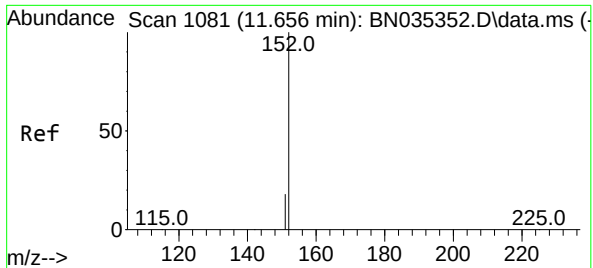
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

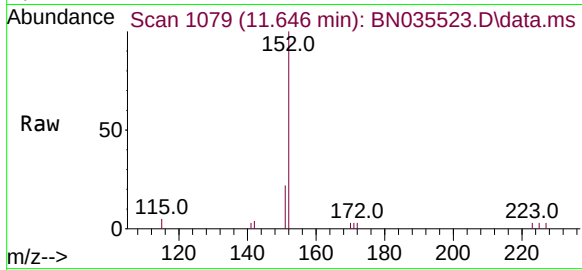
Tgt Ion:225 Resp: 1254
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

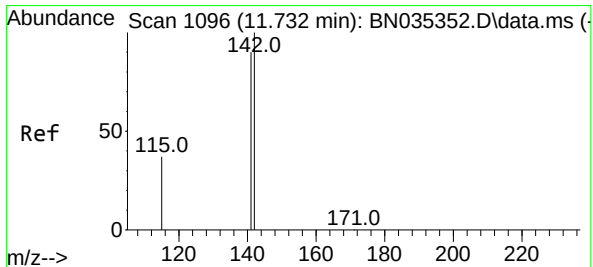
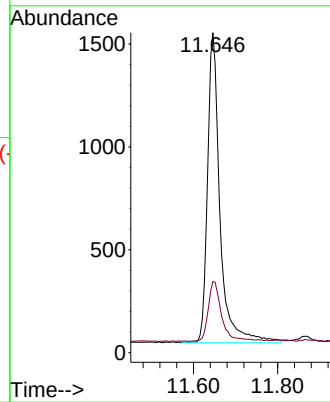
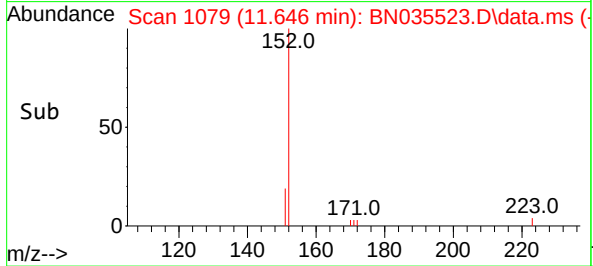
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 3094
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

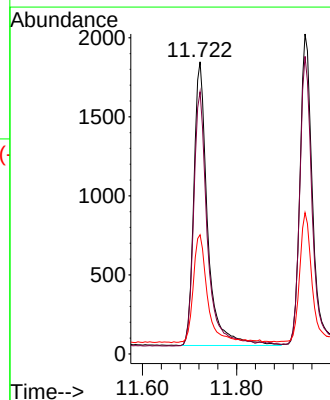
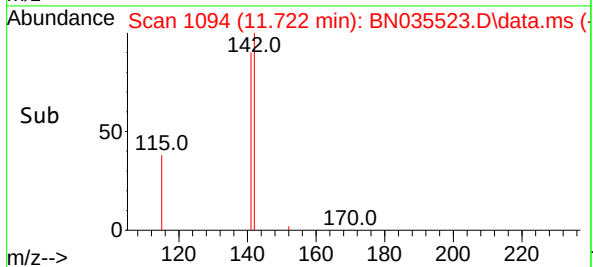
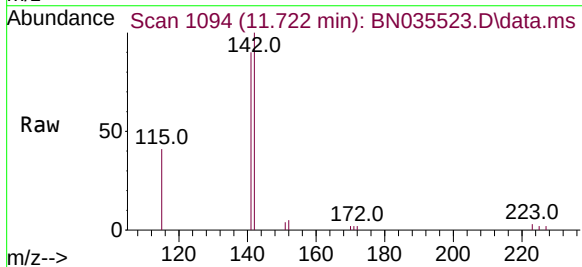
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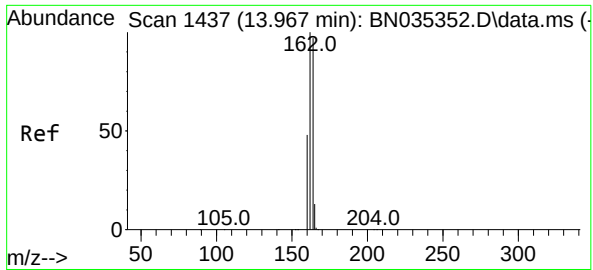
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

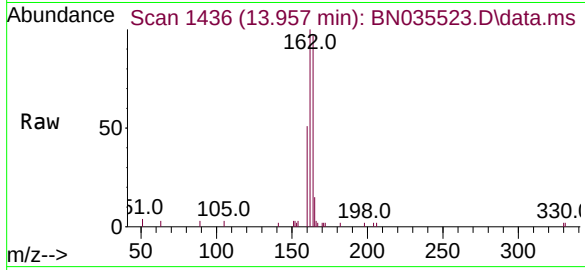
Tgt Ion:142 Resp: 3664
Ion Ratio Lower Upper
142 100
141 89.8 72.2 108.4
115 40.8 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

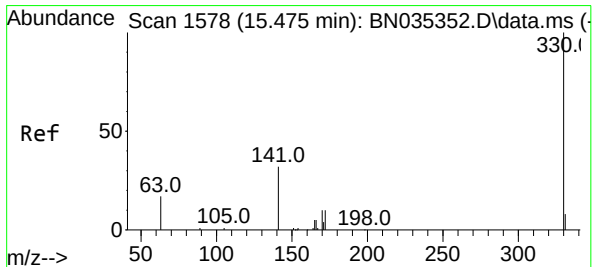
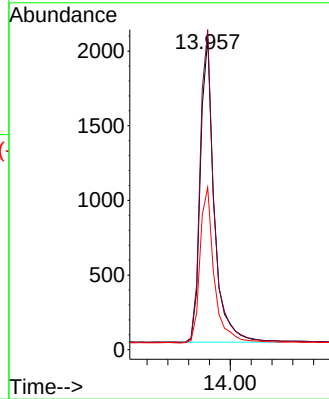
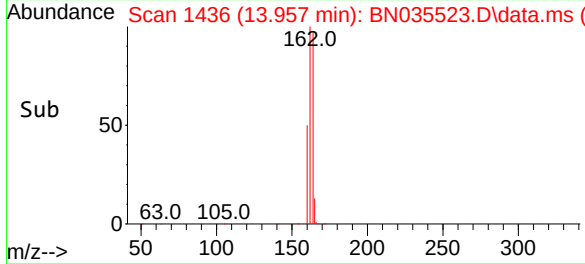
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 3762
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 52.1 40.1 60.1

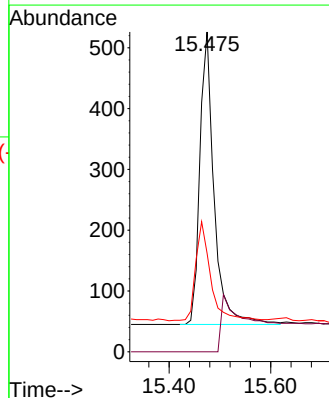
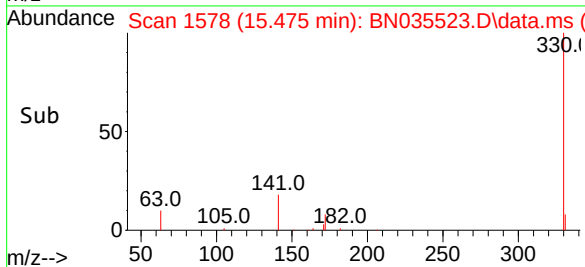
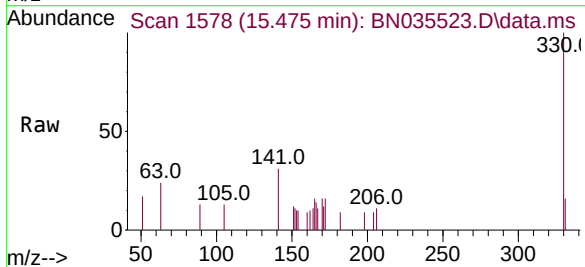
Manual Integrations
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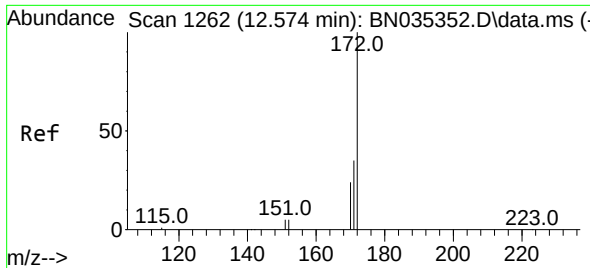
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:330 Resp: 1002
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.8 26.6 40.0





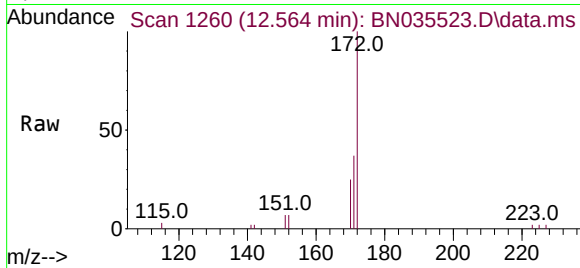
#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

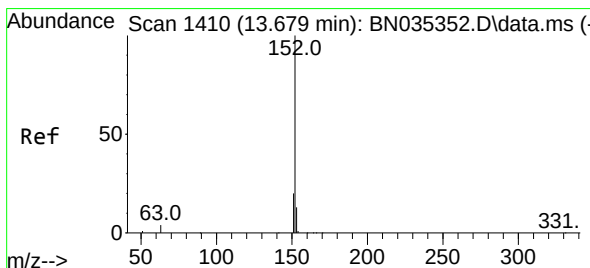
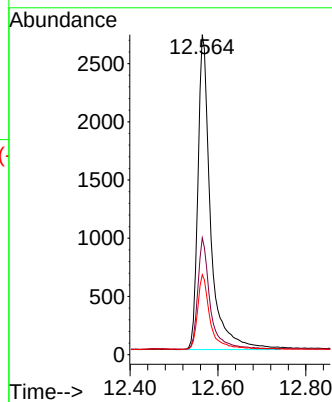
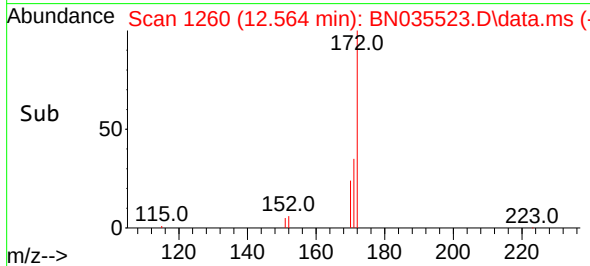


Tgt Ion:172 Resp: 544
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 25.0 19.8 29.8

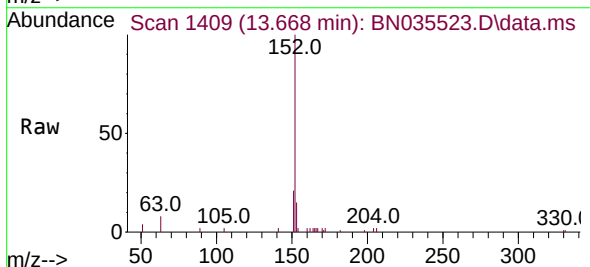
Manual Integrations

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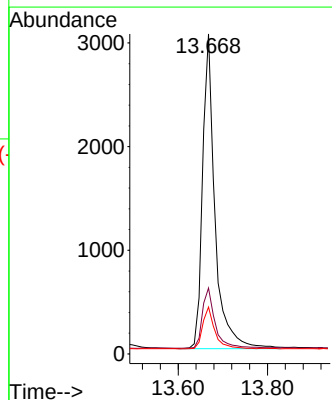
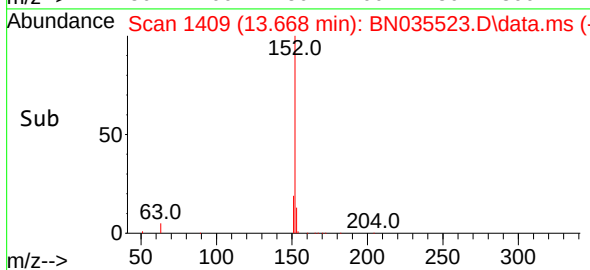
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

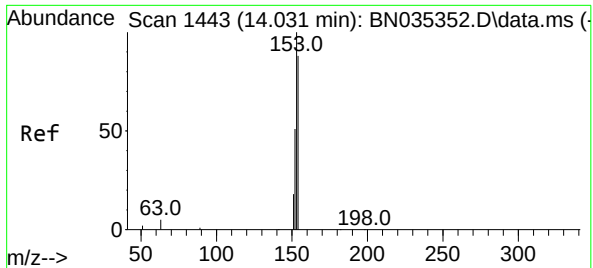


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55



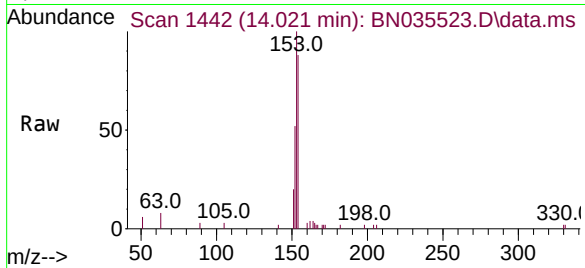
Tgt Ion:152 Resp: 5848
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.384 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

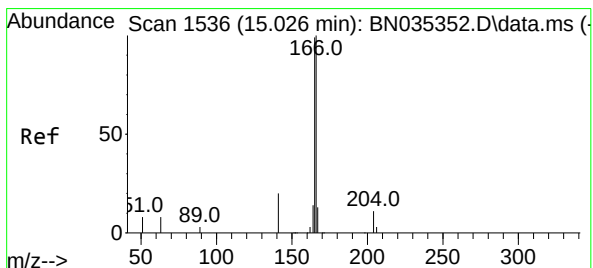
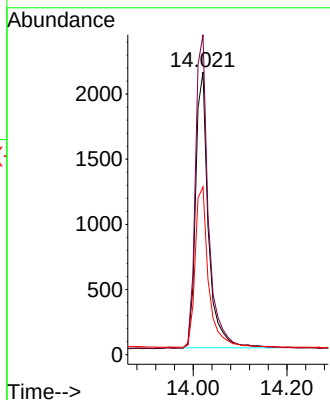
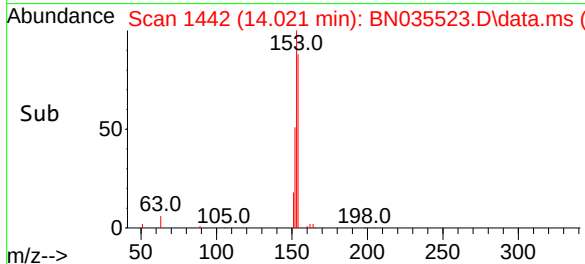
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 4030
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 61.0 49.0 73.6

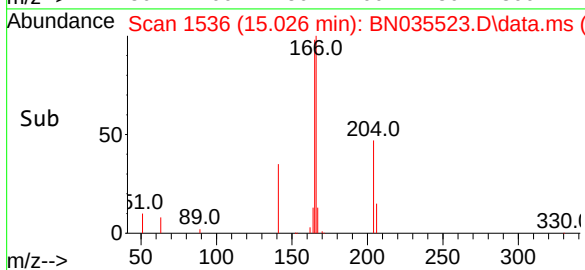
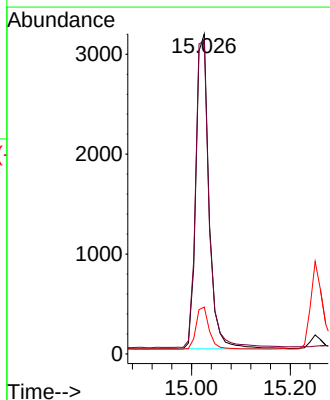
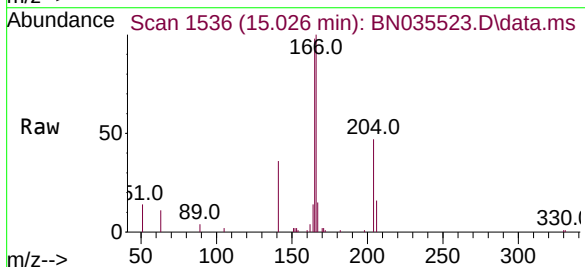
Manual Integrations
APPROVED

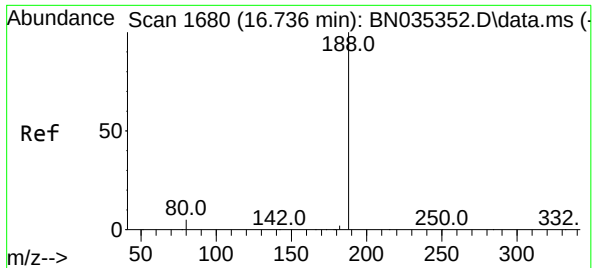
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

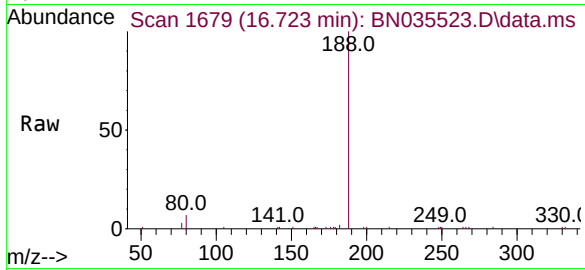
Tgt Ion:166 Resp: 5811
Ion Ratio Lower Upper
166 100
165 100.8 79.7 119.5
167 13.3 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

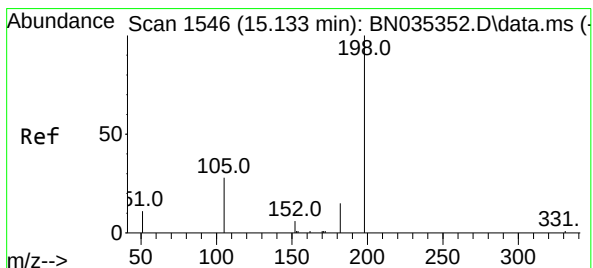
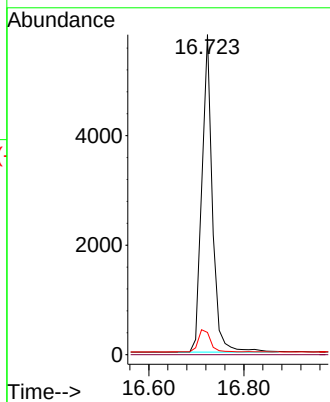
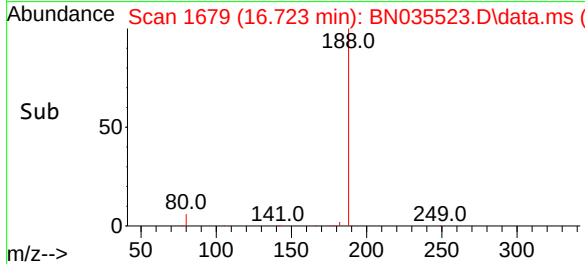
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:188 Resp: 8980
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.0 4.6 6.8

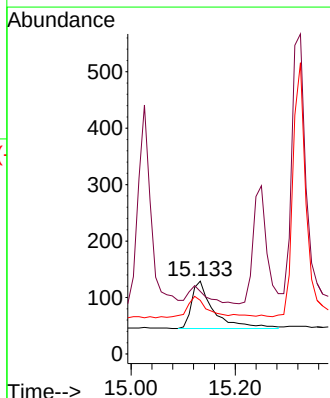
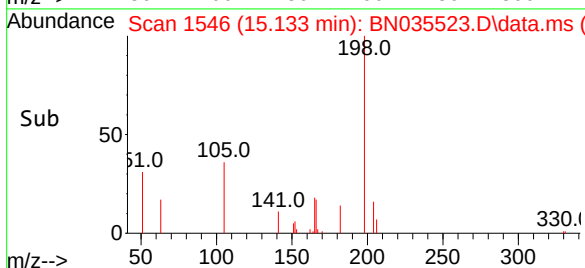
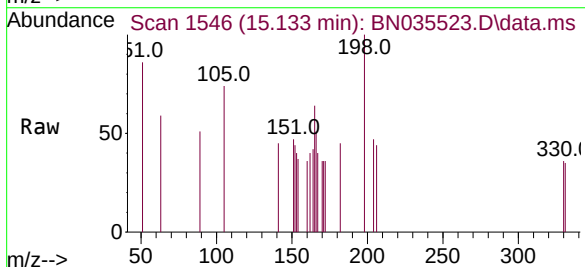
Manual Integrations
APPROVED

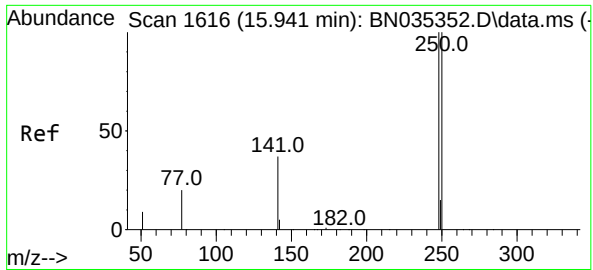
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.281 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

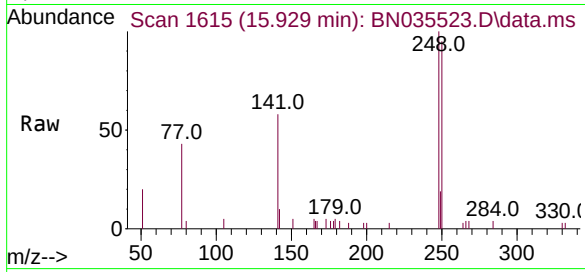
Tgt Ion:198 Resp: 248
Ion Ratio Lower Upper
198 100
51 86.0 46.5 69.7#
105 73.6 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

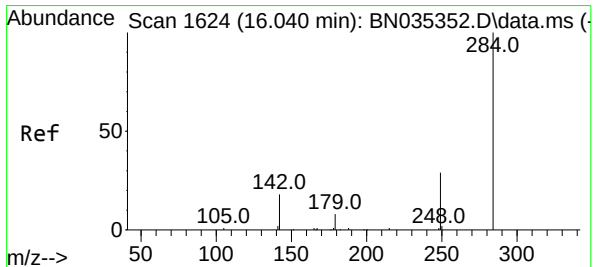
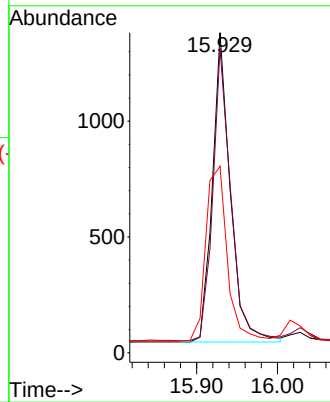
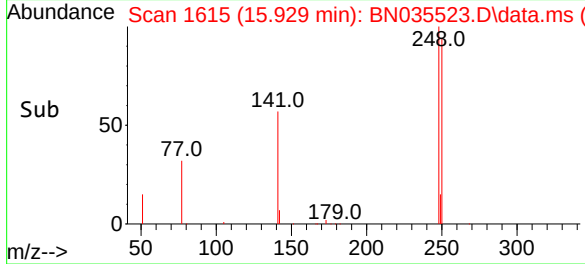
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 205
Ion Ratio Lower Upper
248 100
250 95.2 80.6 120.8
141 58.2 31.5 47.3

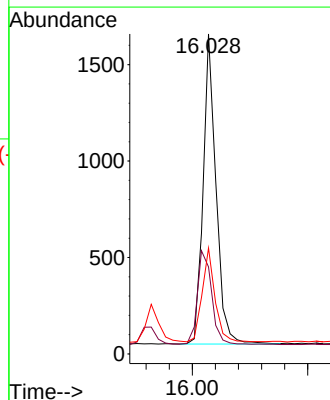
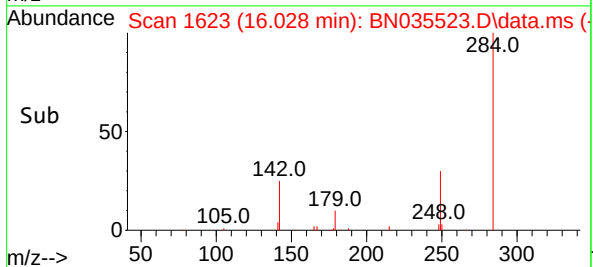
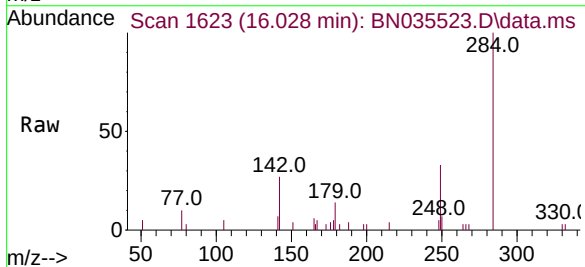
Manual Integrations
APPROVED

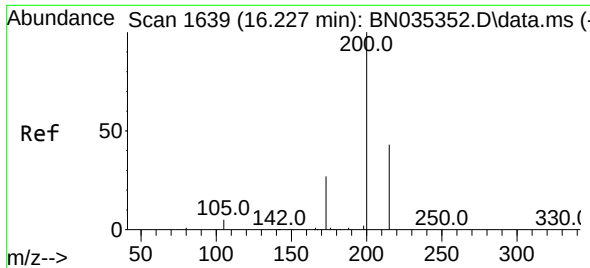
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

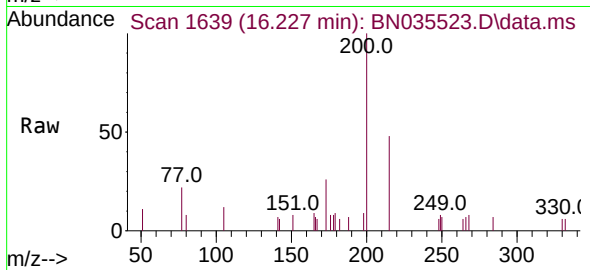
Tgt Ion:284 Resp: 2505
Ion Ratio Lower Upper
284 100
142 33.7 26.7 40.1
249 29.9 24.6 36.8





#23
Atrazine
Concen: 0.358 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

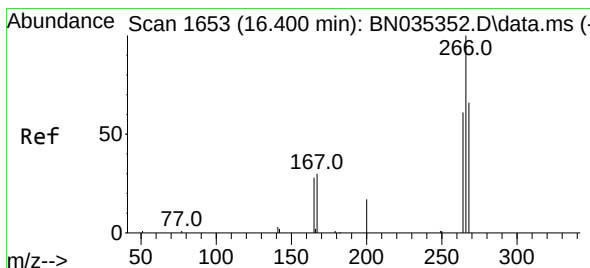
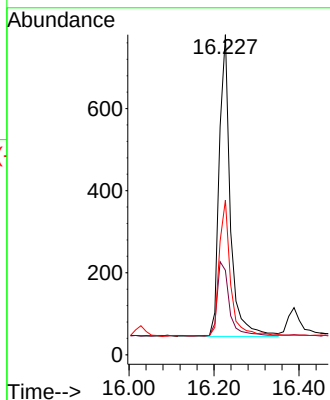
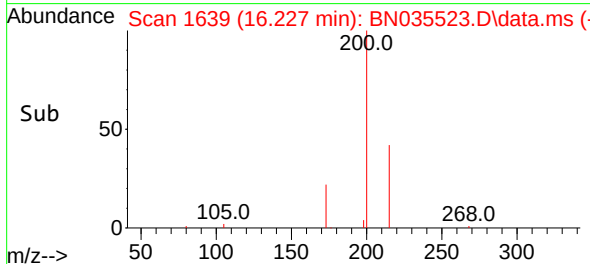
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 1338
Ion Ratio Lower Upper
200 100
173 26.4 24.1 36.1
215 48.3 36.9 55.3

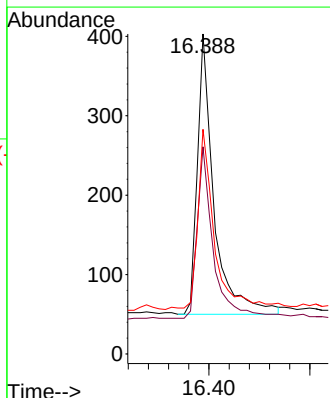
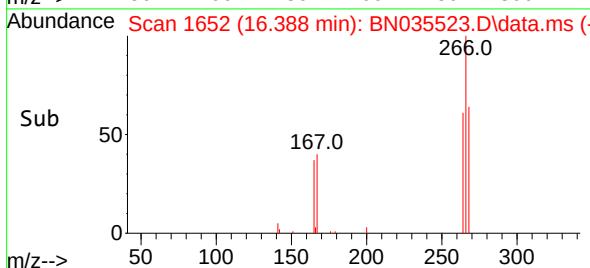
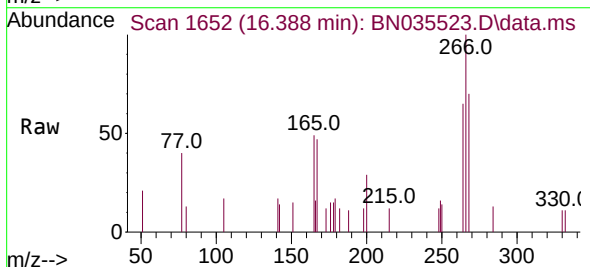
Manual Integrations
APPROVED

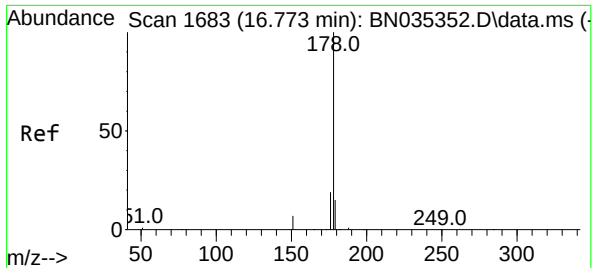
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

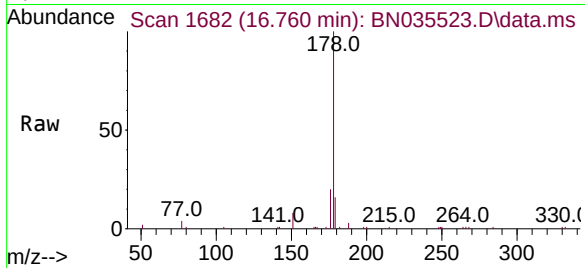
Tgt Ion:266 Resp: 807
Ion Ratio Lower Upper
266 100
264 58.9 42.3 63.5
268 64.6 43.3 64.9





#25
Phenanthrene
Concen: 0.374 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

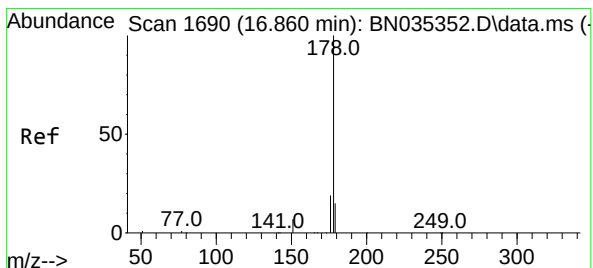
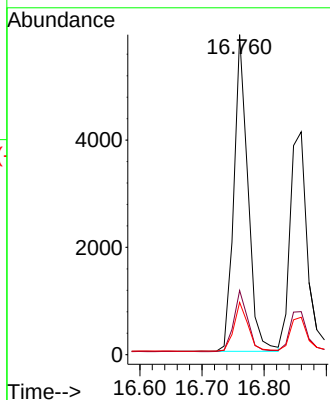
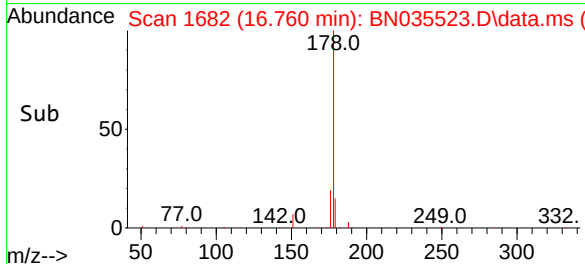
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 9239
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.3 18.5

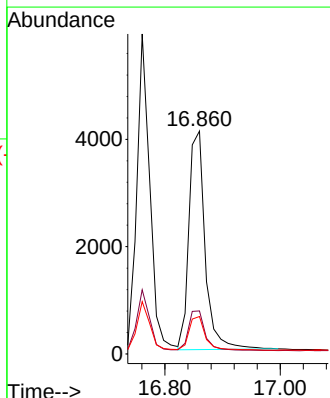
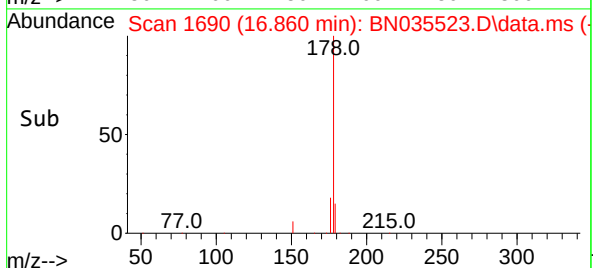
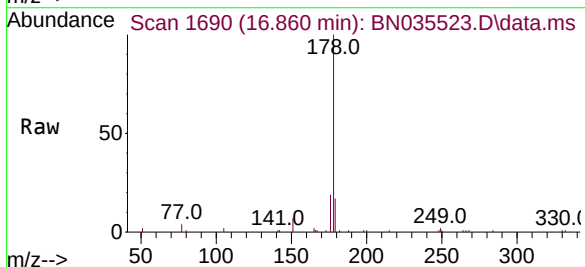
Manual Integrations
APPROVED

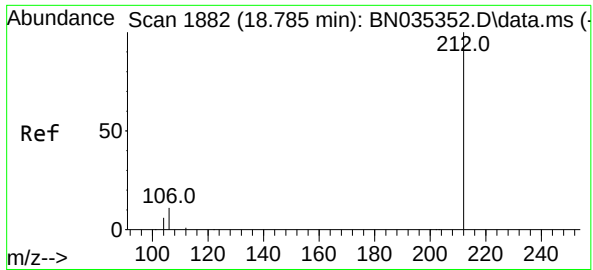
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.359 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:178 Resp: 8006
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.355 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

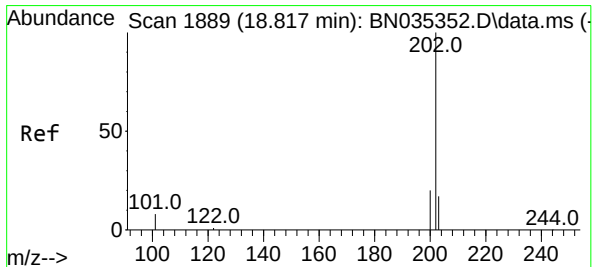
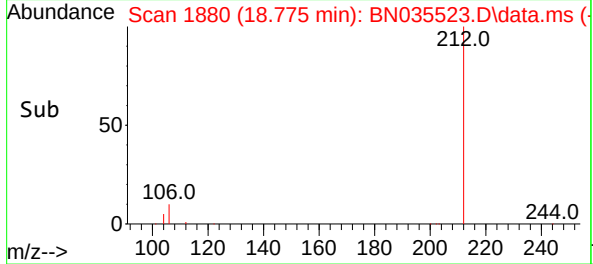
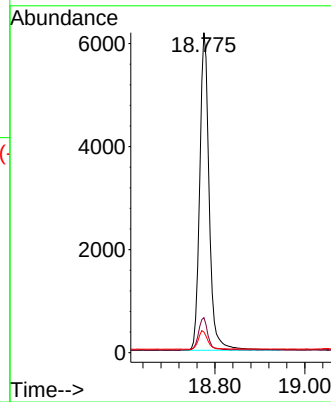
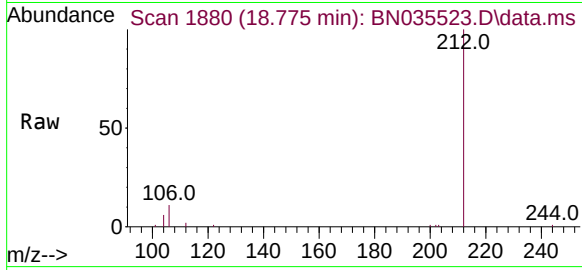
Tgt Ion:	212	Resp:	903
Ion Ratio	Lower	Upper	
212	100		
106	10.0	9.2	13.8
104	5.7	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#28

Fluoranthene

Concen: 0.351 ng

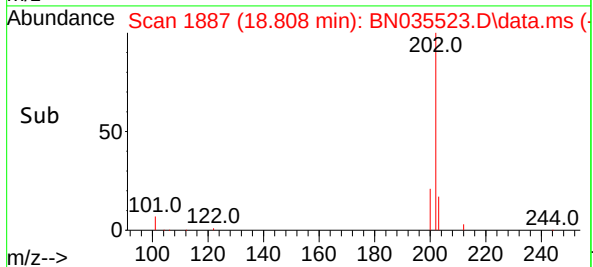
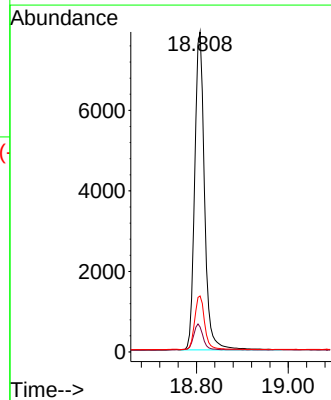
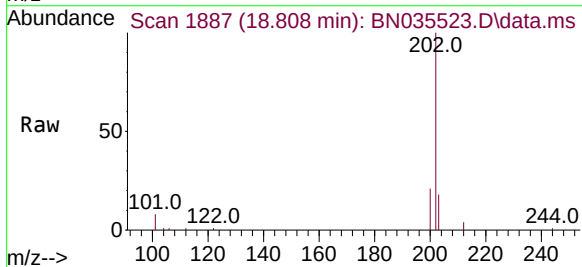
RT: 18.808 min Scan# 1887

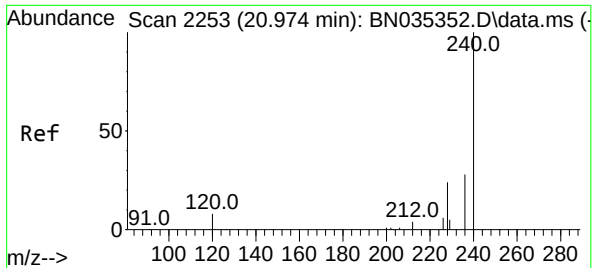
Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Tgt Ion:	202	Resp:	11681
Ion Ratio	Lower	Upper	
202	100		
101	8.1	7.4	11.0
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 781

Ion Ratio Lower Upper

240 100

120 9.8 7.9 11.9

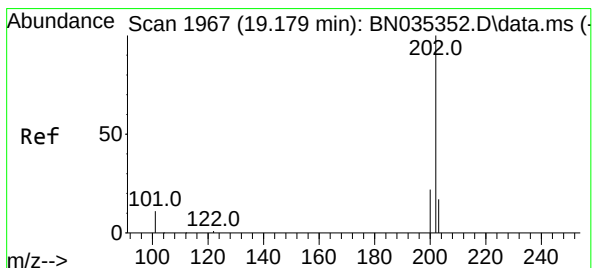
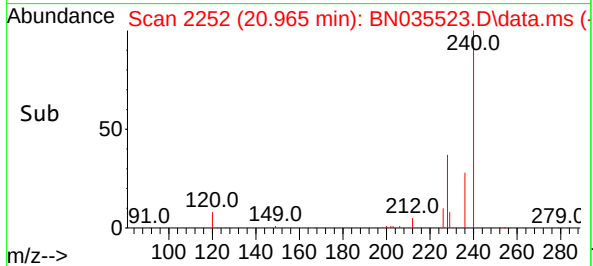
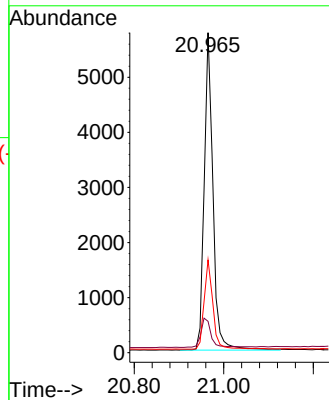
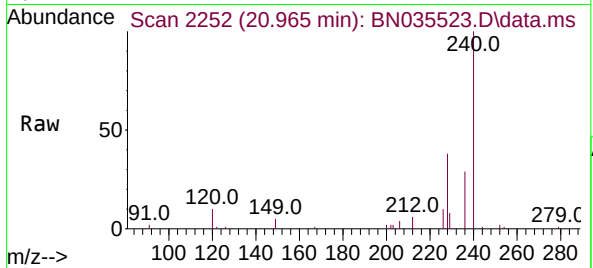
236 29.0 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#30

Pyrene

Concen: 0.411 ng

RT: 19.175 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

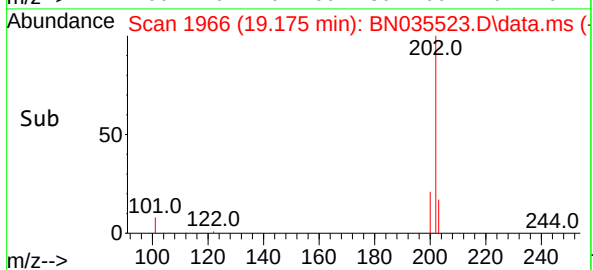
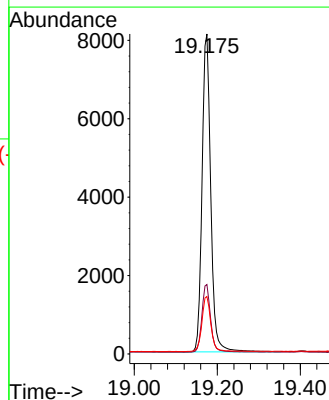
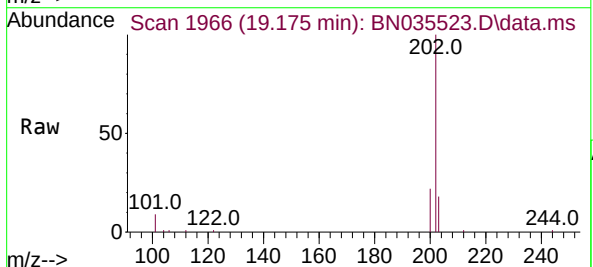
Tgt Ion:202 Resp: 11847

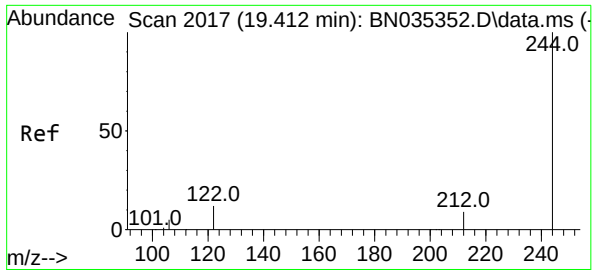
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.9 14.3 21.5





#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

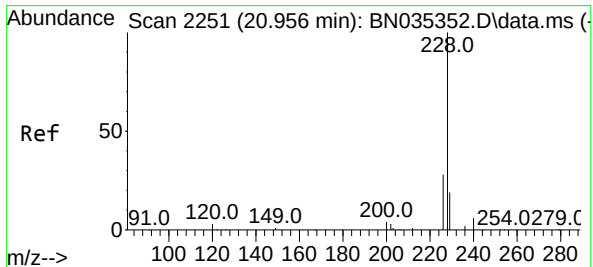
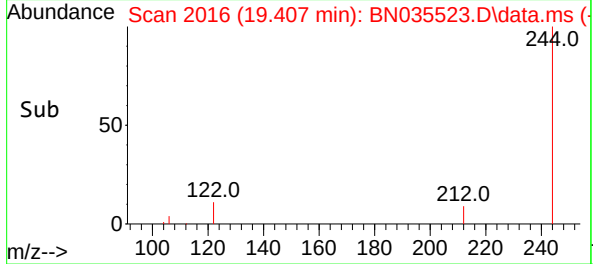
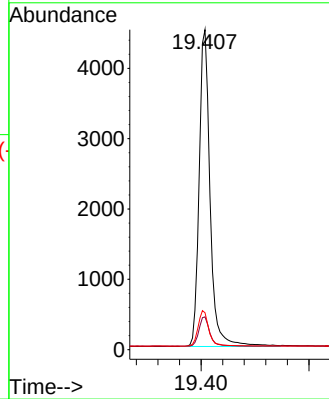
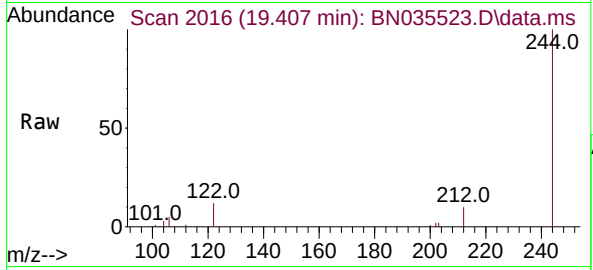
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.6	10.3	15.5

Manual Integrations

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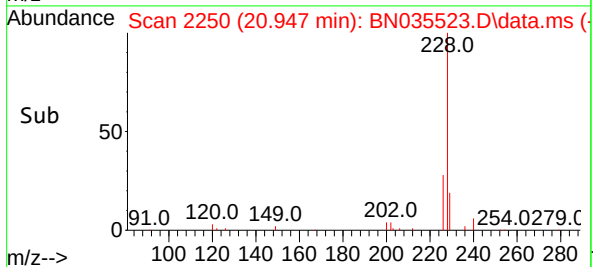
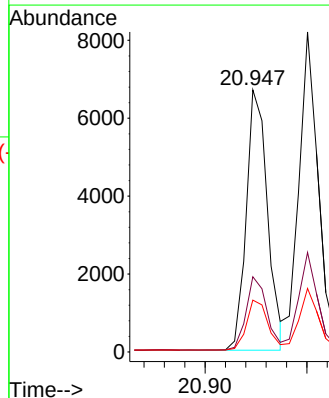
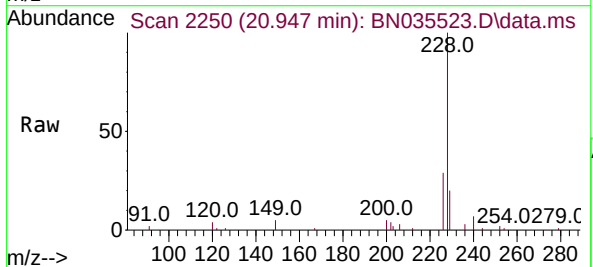
Reviewed By :Yogesh Patel 12/11/2024

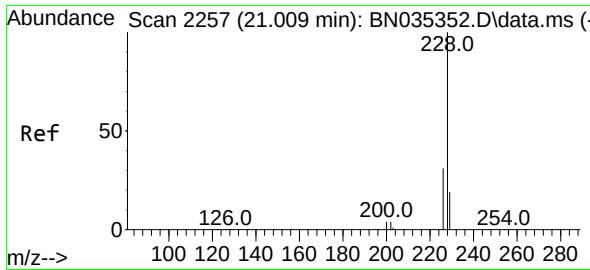
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

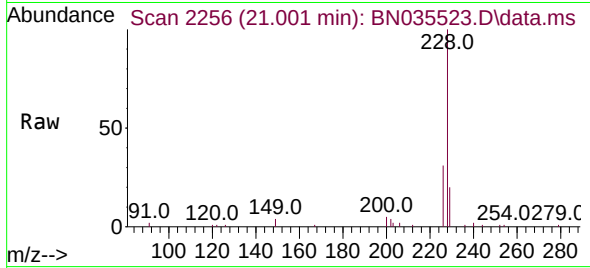
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	19.8	15.8	23.8





#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 21126
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

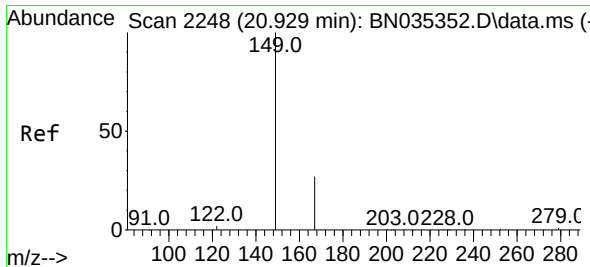
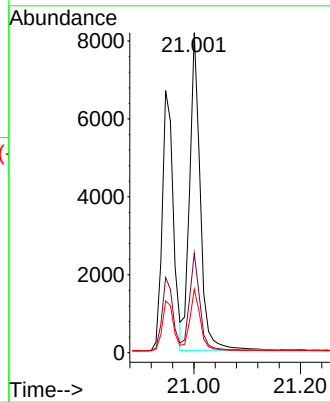
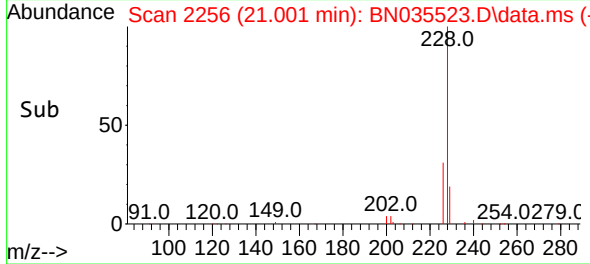
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 1126
Ion Ratio Lower Upper
228 100
226 31.1 24.6 37.0
229 19.8 15.9 23.9

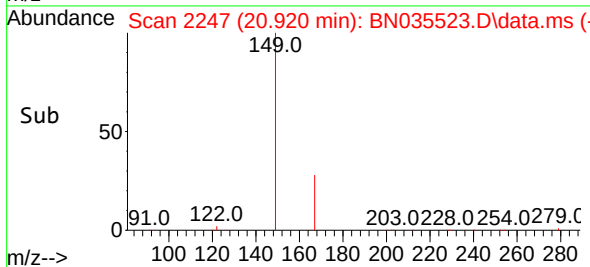
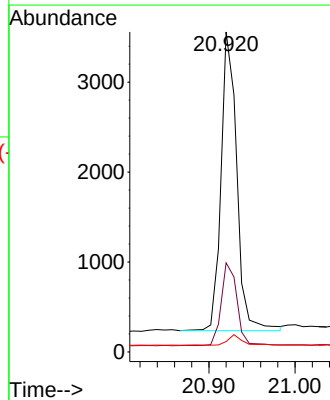
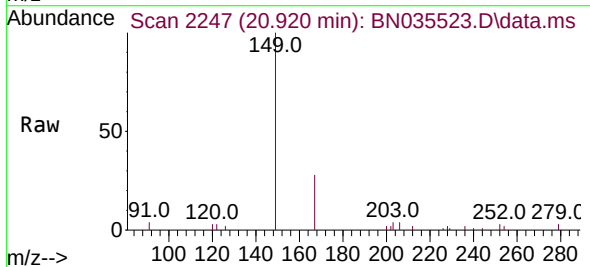
Manual Integrations
APPROVED

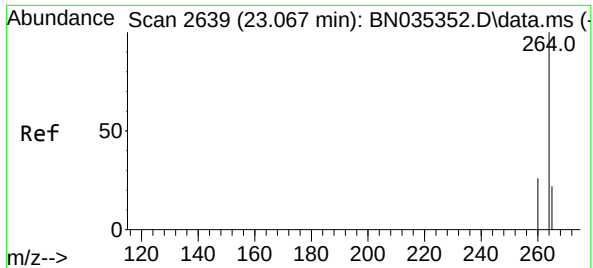
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.389 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

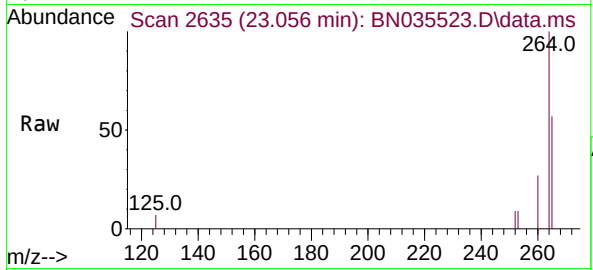
Tgt Ion:149 Resp: 4196
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.056 min Scan# 2635
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

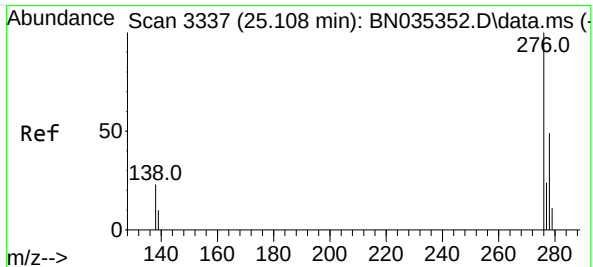
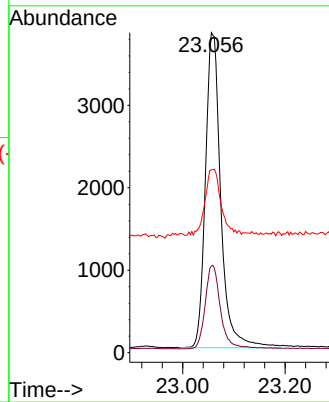
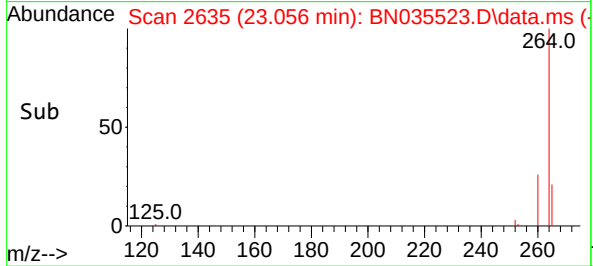
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 7970
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 57.1 40.2 60.4

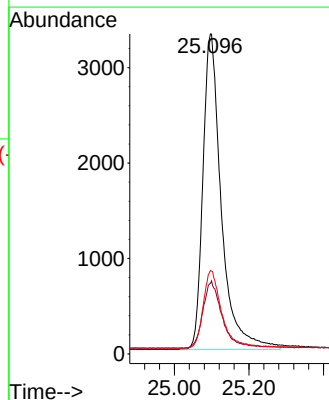
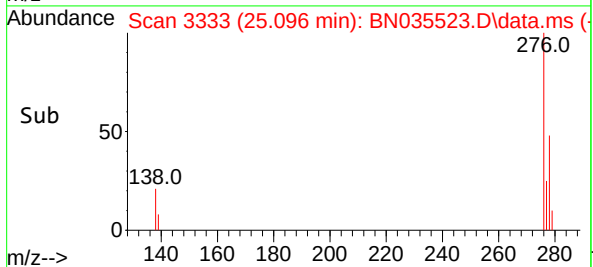
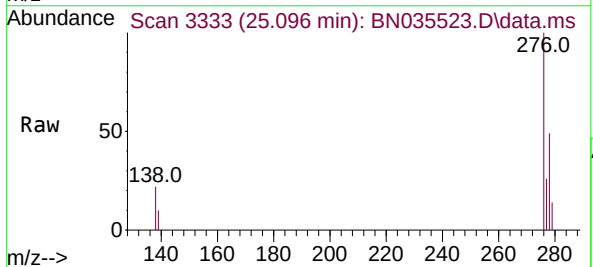
Manual Integrations
APPROVED

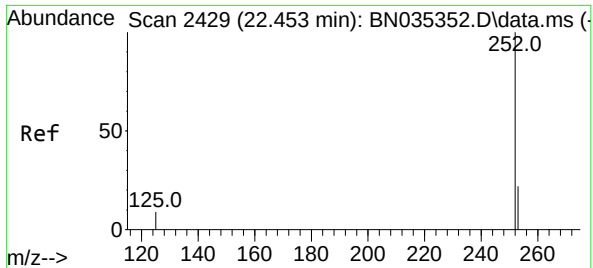
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:276 Resp: 11338
Ion Ratio Lower Upper
276 100
138 21.5 19.4 29.0
277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.459 ng

RT: 22.445 min Scan# 2429

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 13390

Ion Ratio Lower Upper

252 100

253 25.6 19.6 29.4

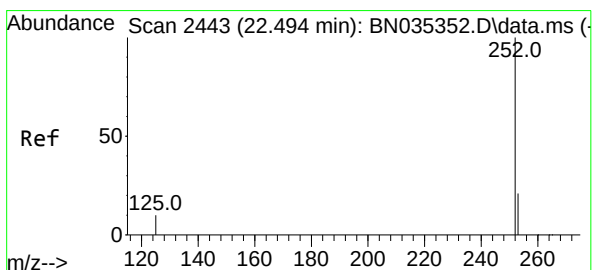
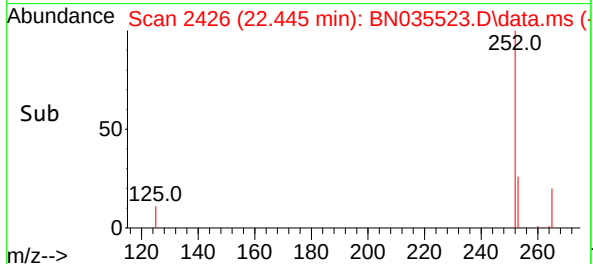
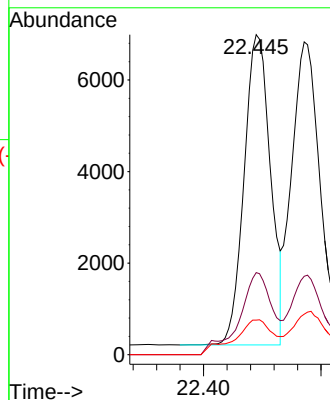
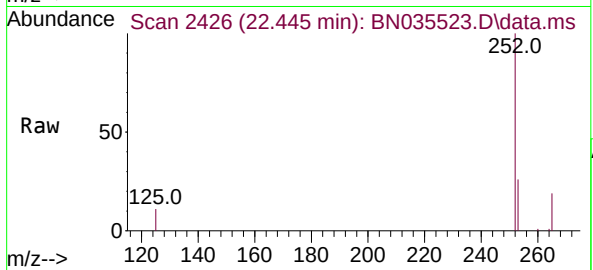
125 10.8 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.395 ng

RT: 22.486 min Scan# 2440

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

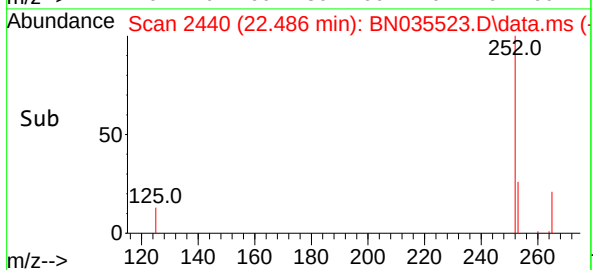
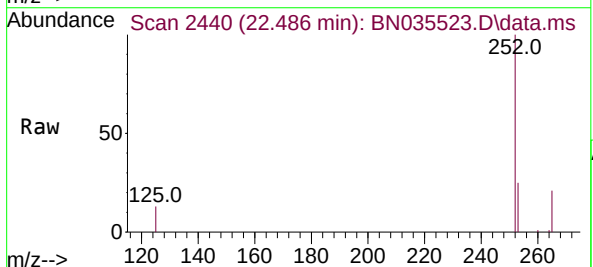
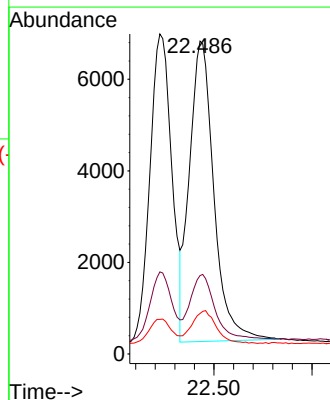
Tgt Ion:252 Resp: 11357

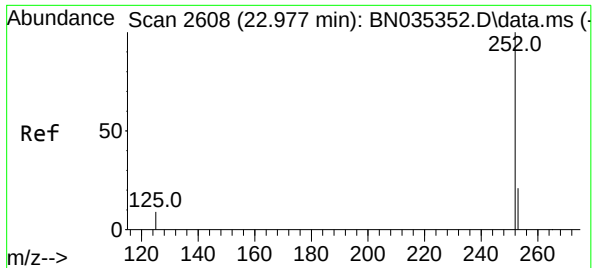
Ion Ratio Lower Upper

252 100

253 25.1 19.5 29.3

125 12.9 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.357 ng

RT: 22.968 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

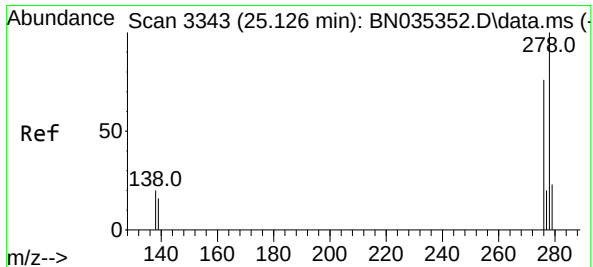
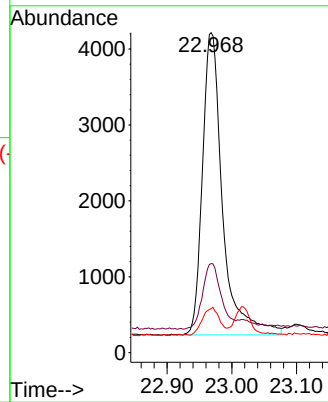
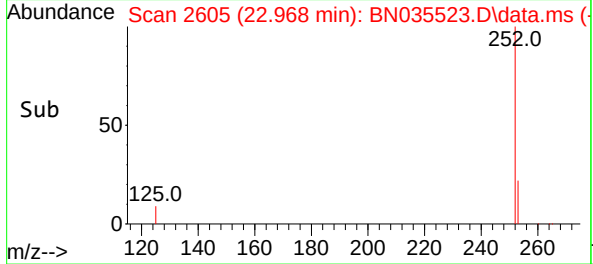
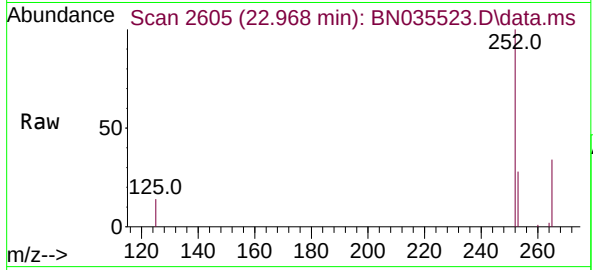
Tgt Ion:	252	Resp:	8580
Ion Ratio	Lower	Upper	
252	100		
253	27.9	20.2	30.4
125	13.7	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

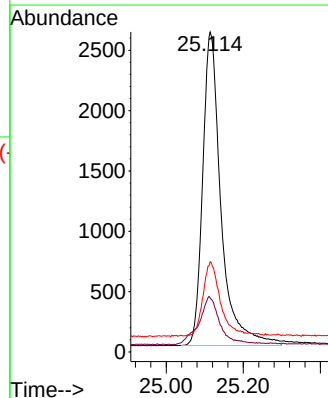
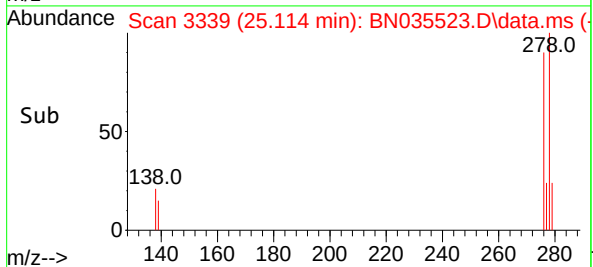
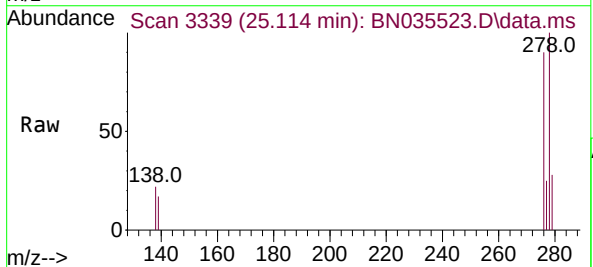
RT: 25.114 min Scan# 3339

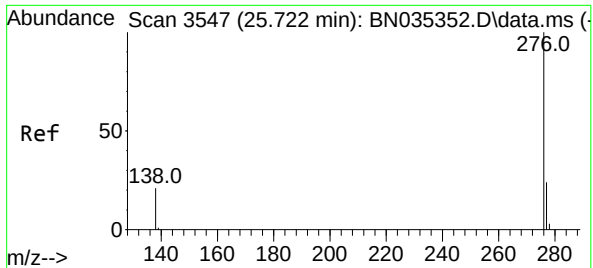
Delta R.T. -0.012 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Tgt Ion:	278	Resp:	8605
Ion Ratio	Lower	Upper	
278	100		
139	16.9	14.2	21.4
279	28.2	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 25.708 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN035523.D

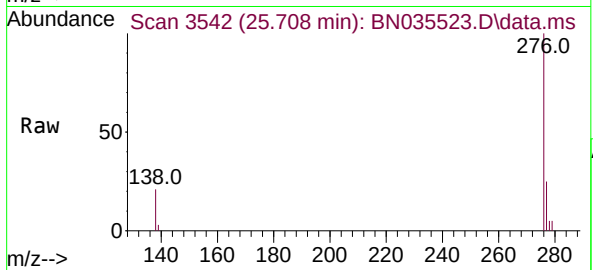
Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 956

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

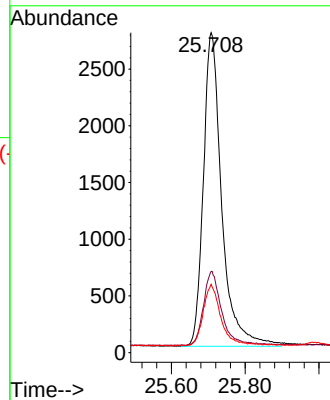
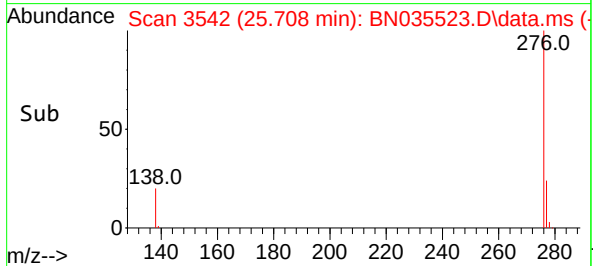
138 21.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035523.D
 Acq On : 10 Dec 2024 00:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 01:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	88	0.00
2	1,4-Dioxane	0.382	0.386	-1.0	91	0.00
3	n-Nitrosodimethylamine	0.319	0.341	-6.9	92	0.00
4 S	2-Fluorophenol	1.001	1.013	-1.2	88	-0.01
5 S	Phenol-d6	1.204	1.247	-3.6	92	0.00
6	bis(2-Chloroethyl)ether	1.012	0.950	6.1	85	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	95	-0.01
8 S	Nitrobenzene-d5	0.244	0.265	-8.6	107	-0.01
9	Naphthalene	1.055	1.025	2.8	93	-0.01
10	Hexachlorobutadiene	0.243	0.253	-4.1	97	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.625	0.2	96	-0.01
12	2-Methylnaphthalene	0.755	0.741	1.9	95	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	99	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.266	6.3	103	0.00
15 S	2-Fluorobiphenyl	1.512	1.447	4.3	95	-0.01
16	Acenaphthylene	1.680	1.554	7.5	97	-0.01
17	Acenaphthene	1.115	1.071	3.9	98	-0.01
18	Fluorene	1.596	1.545	3.2	99	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.028	28.2#	74	0.00
21	4-Bromophenyl-phenylether	0.234	0.229	2.1	96	-0.01
22	Hexachlorobenzene	0.275	0.279	-1.5	97	-0.01
23	Atrazine	0.167	0.149	10.8	92	0.00
24	Pentachlorophenol	0.120	0.090	25.0	89	-0.01
25	Phenanthrene	1.099	1.028	6.5	91	-0.01
26	Anthracene	0.994	0.891	10.4	90	0.00
27 SURR	Fluoranthene-d10	1.134	1.005	11.4	88	0.00
28	Fluoranthene	1.481	1.300	12.2	87	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30	Pyrene	1.477	1.516	-2.6	84	0.00
31 S	Terphenyl-d14	0.789	0.812	-2.9	84	0.00
32	Benzo(a)anthracene	1.399	1.238	11.5	75	0.00
33	Chrysene	1.443	1.442	0.1	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.537	2.9	85	0.00
35 I	Perylene-d12	1.000	1.000	0.0	74	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.422	9.1	68	-0.01
37	Benzo(b)fluoranthene	1.463	1.680	-14.8	94	0.00
38	Benzo(k)fluoranthene	1.440	1.424	1.1	75	0.00
39 C	Benzo(a)pyrene	1.205	1.076	10.7	69	0.00
40	Dibenzo(a,h)anthracene	1.234	1.079	12.6	66	-0.01
41	Benzo(g,h,i)perylene	1.289	1.199	7.0	71	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035523.D
 Acq On : 10 Dec 2024 00:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 01:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	88	0.00
2	1,4-Dioxane	0.400	0.404	-1.0	91	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	92	0.00
4 S	2-Fluorophenol	0.400	0.405	-1.3	88	-0.01
5 S	Phenol-d6	0.400	0.414	-3.5	92	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	85	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	95	-0.01
8 S	Nitrobenzene-d5	0.400	0.434	-8.5	107	-0.01
9	Naphthalene	0.400	0.389	2.8	93	-0.01
10	Hexachlorobutadiene	0.400	0.417	-4.2	97	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.400	0.0	96	-0.01
12	2-Methylnaphthalene	0.400	0.392	2.0	95	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	99	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.375	6.3	103	0.00
15 S	2-Fluorobiphenyl	0.400	0.383	4.3	95	-0.01
16	Acenaphthylene	0.400	0.370	7.5	97	-0.01
17	Acenaphthene	0.400	0.384	4.0	98	-0.01
18	Fluorene	0.400	0.387	3.3	99	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.281	29.8#	74	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	96	-0.01
22	Hexachlorobenzene	0.400	0.406	-1.5	97	-0.01
23	Atrazine	0.400	0.358	10.5	92	0.00
24	Pentachlorophenol	0.400	0.301	24.8	89	-0.01
25	Phenanthrene	0.400	0.374	6.5	91	-0.01
26	Anthracene	0.400	0.359	10.3	90	0.00
27 SURR	Fluoranthene-d10	0.400	0.355	11.3	88	0.00
28	Fluoranthene	0.400	0.351	12.3	87	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30	Pyrene	0.400	0.411	-2.7	84	0.00
31 S	Terphenyl-d14	0.400	0.412	-3.0	84	0.00
32	Benzo(a)anthracene	0.400	0.354	11.5	75	0.00
33	Chrysene	0.400	0.400	0.0	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.389	2.8	85	0.00
35 I	Perylene-d12	0.400	0.400	0.0	74	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	68	-0.01
37	Benzo(b)fluoranthene	0.400	0.459	-14.8	94	0.00
38	Benzo(k)fluoranthene	0.400	0.395	1.3	75	0.00
39 C	Benzo(a)pyrene	0.400	0.357	10.8	69	0.00
40	Dibenzo(a,h)anthracene	0.400	0.350	12.5	66	-0.01
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	71	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 09:33

Lab File ID: BN035525.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.622		-0.6	20.0
Fluoranthene-d10	1.134	0.995		-12.3	20.0
2-Fluorophenol	1.001	1.042		4.1	20.0
Phenol-d6	1.204	1.276		6.0	20.0
Nitrobenzene-d5	0.244	0.257		5.3	20.0
2-Fluorobiphenyl	1.512	1.496		-1.1	20.0
2,4,6-Tribromophenol	0.284	0.249		-12.3	20.0
Terphenyl-d14	0.789	0.834		5.7	20.0
1,4-Dioxane	0.382	0.382		0.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035525.D
 Acq On : 10 Dec 2024 09:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:27:43 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	2237	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	6161	0.400	ng	#-0.01
13) Acenaphthene-d10	13.957	164	4478	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	11122	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	9383	0.400	ng	0.00
35) Perylene-d12	23.059	264	8820	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	2331	0.416	ng	-0.01
5) Phenol-d6	6.499	99	2854	0.424	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1583m	0.421	ng	-0.01
11) 2-Methylnaphthalene-d10	11.641	152	3832	0.397	ng	-0.02
14) 2,4,6-Tribromophenol	15.475	330	1114	0.350	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	6697	0.396	ng	-0.01
27) Fluoranthene-d10	18.775	212	11062	0.351	ng	0.00
31) Terphenyl-d14	19.407	244	7824	0.423	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	855	0.400	ng	98
3) n-Nitrosodimethylamine	3.292	42	766	0.430	ng	# 97
6) bis(2-Chloroethyl)ether	6.744	93	2173	0.384	ng	99
9) Naphthalene	10.084	128	6356	0.391	ng	99
10) Hexachlorobutadiene	10.383	225	1563	0.417	ng	# 99
12) 2-Methylnaphthalene	11.717	142	4569	0.393	ng	98
16) Acenaphthylene	13.668	152	6981	0.371	ng	99
17) Acenaphthene	14.010	154	4775	0.382	ng	100
18) Fluorene	15.015	166	6863	0.384	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	302	0.276	ng	# 80
21) 4-Bromophenyl-phenylether	15.929	248	2441	0.375	ng	# 88
22) Hexachlorobenzene	16.028	284	2985	0.391	ng	98
23) Atrazine	16.227	200	1581	0.341	ng	96
24) Pentachlorophenol	16.388	266	1026	0.309	ng	86
25) Phenanthrene	16.760	178	11604	0.380	ng	100
26) Anthracene	16.860	178	9999	0.362	ng	100
28) Fluoranthene	18.808	202	14397	0.350	ng	99
30) Pyrene	19.175	202	14606	0.422	ng	100
32) Benzo(a)anthracene	20.947	228	11650	0.355	ng	99
33) Chrysene	21.000	228	13503	0.399	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4730	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.093	276	11862	0.344	ng	98
37) Benzo(b)fluoranthene	22.445	252	14172	0.439	ng	99
38) Benzo(k)fluoranthene	22.485	252	12715	0.400	ng	99
39) Benzo(a)pyrene	22.971	252	9673	0.364	ng	98
40) Dibenzo(a,h)anthracene	25.117	278	8943	0.329	ng	97
41) Benzo(g,h,i)perylene	25.710	276	10586	0.372	ng	98

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

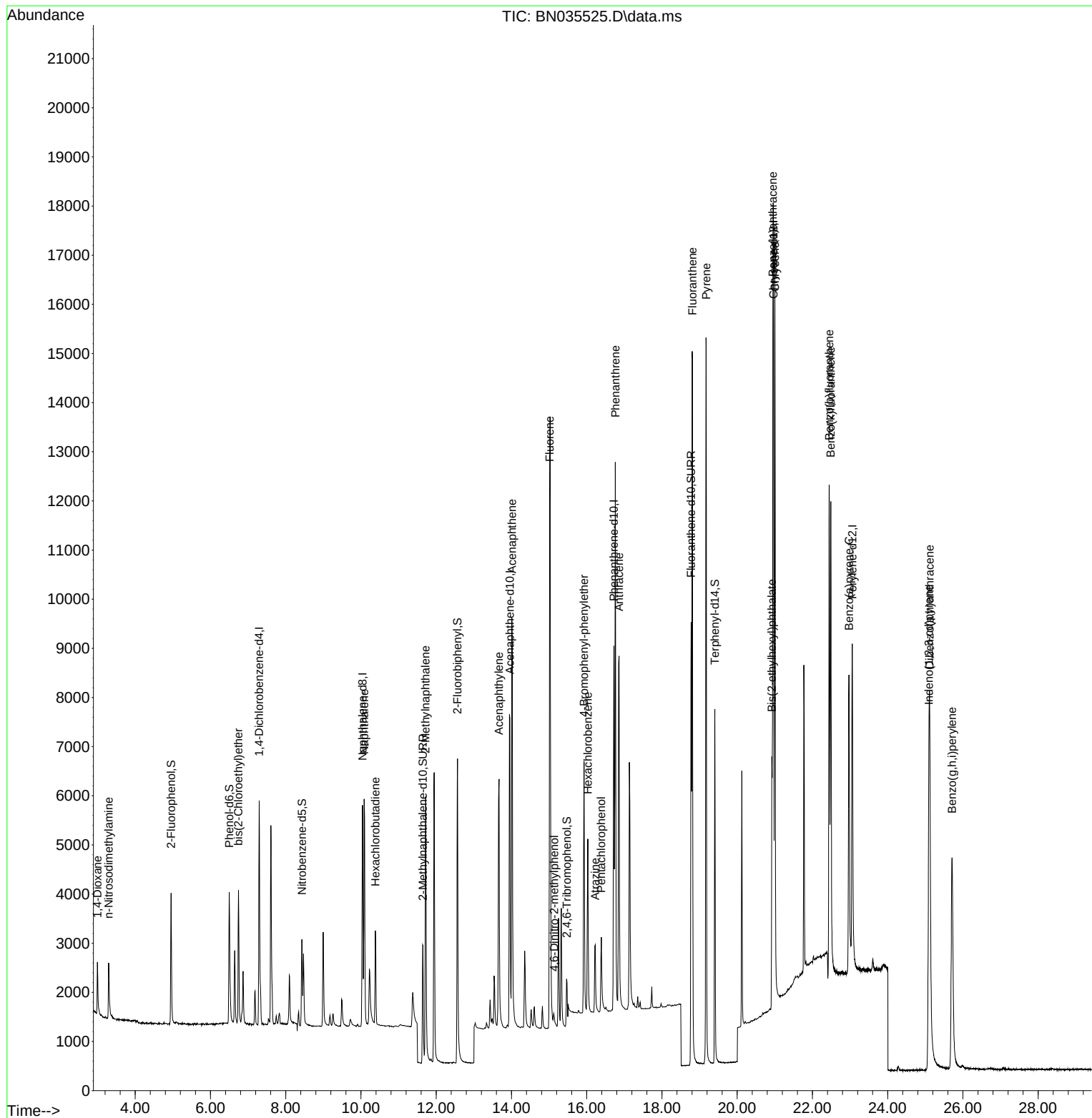
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Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

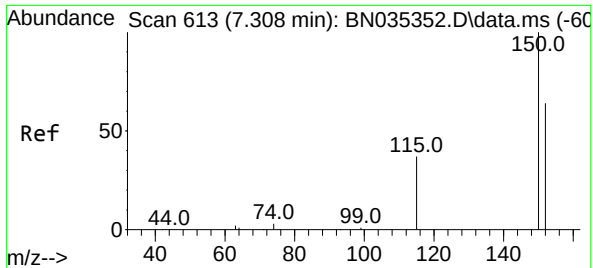
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

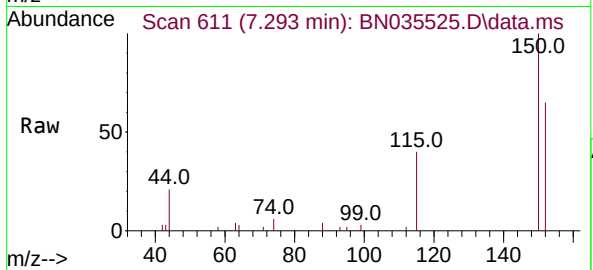
Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

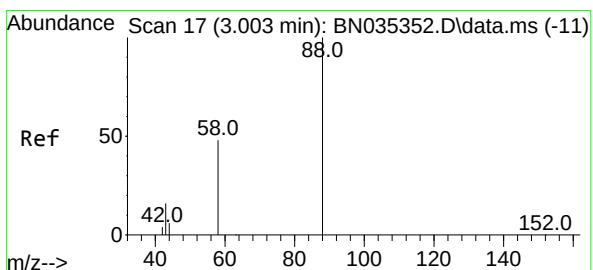
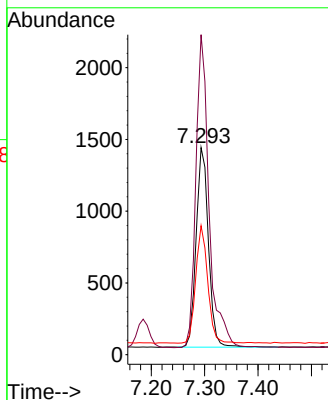
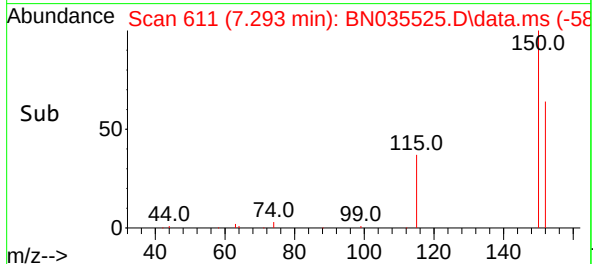
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 223
Ion Ratio Lower Upper
152 100
150 154.5 124.0 186.0
115 62.3 49.6 74.4

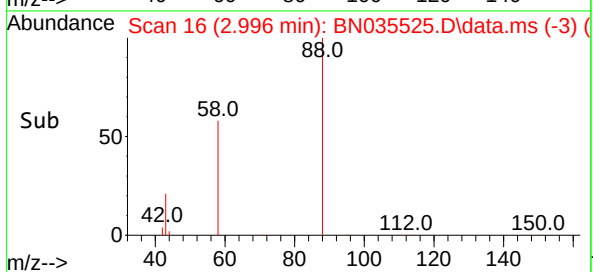
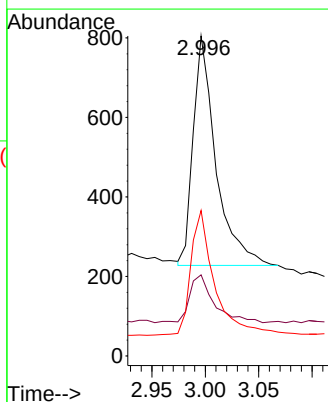
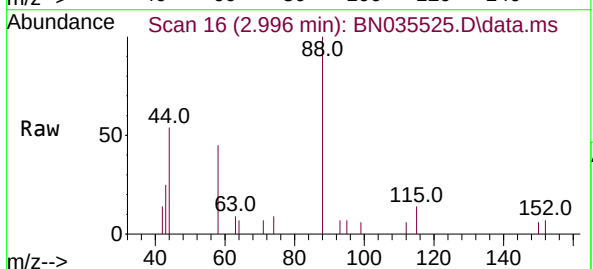
Manual Integrations
APPROVED

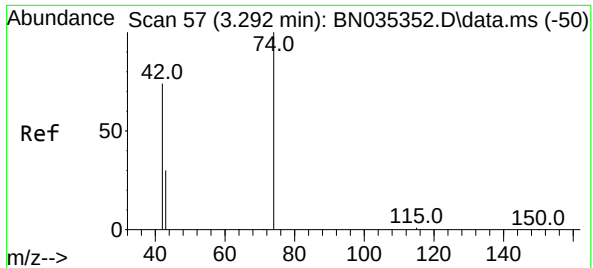
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

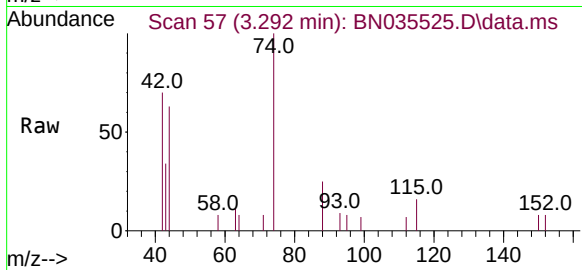
Tgt Ion: 88 Resp: 855
Ion Ratio Lower Upper
88 100
43 20.9 17.2 25.8
58 57.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

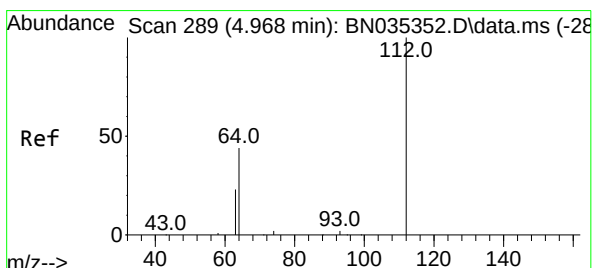
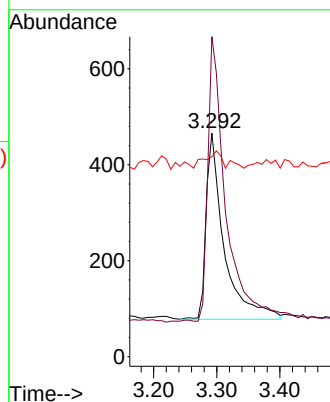
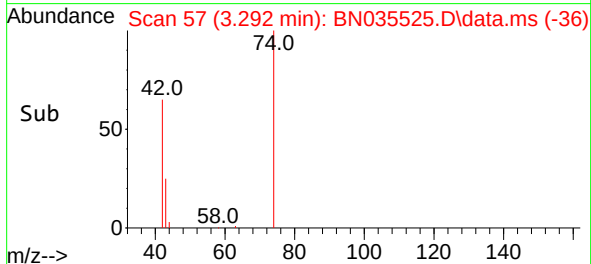
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 760
Ion Ratio Lower Upper
42 100
74 152.3 124.9 187.3
44 8.4 2.2 3.4

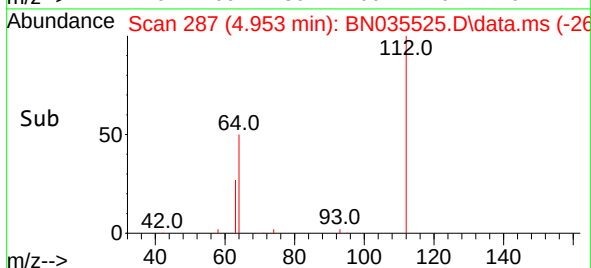
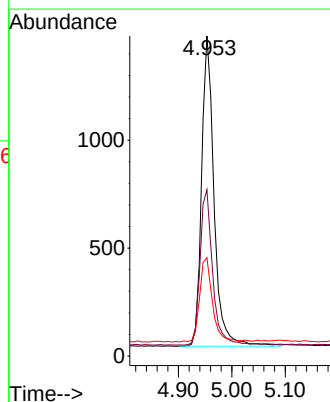
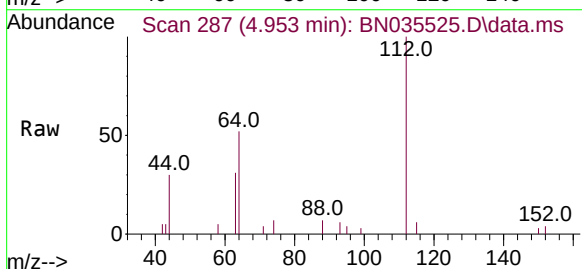
Manual Integrations
APPROVED

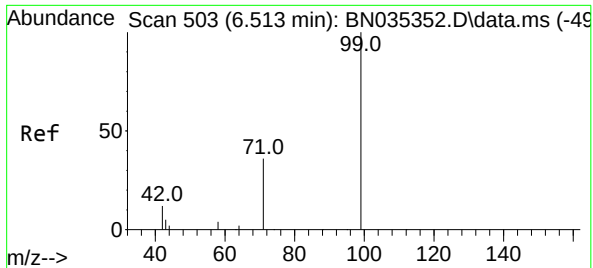
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.416 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:112 Resp: 2331
Ion Ratio Lower Upper
112 100
64 50.8 39.8 59.8
63 28.1 21.0 31.6





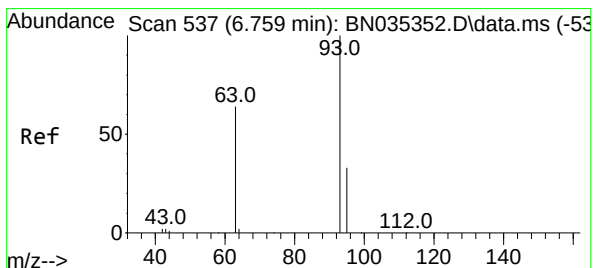
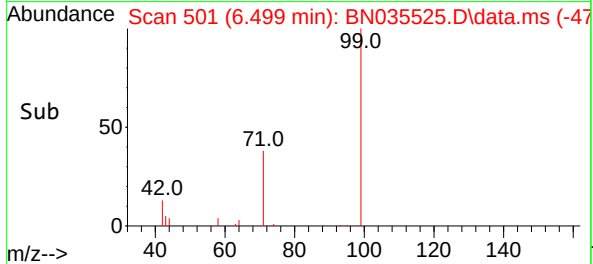
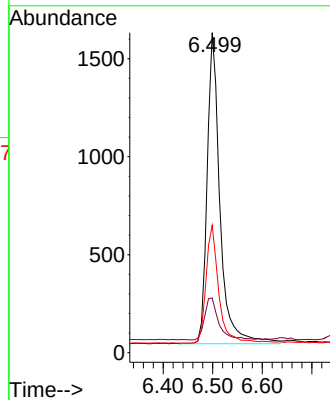
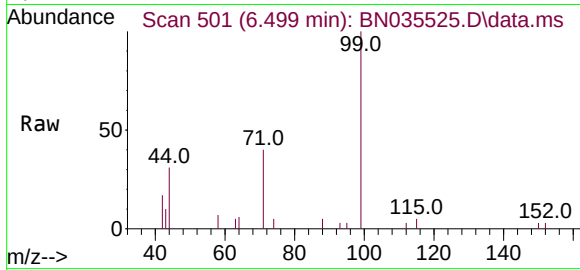
#5
Phenol-d6
Concen: 0.424 ng
RT: 6.499 min Scan# 501
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2854
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.2
71 37.2 29.3 43.9

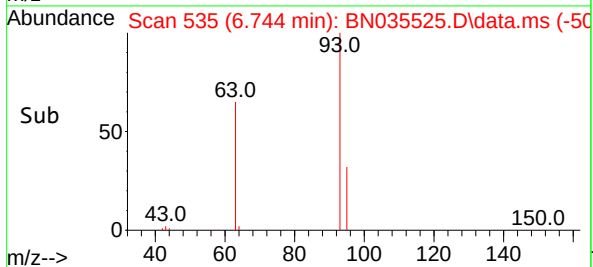
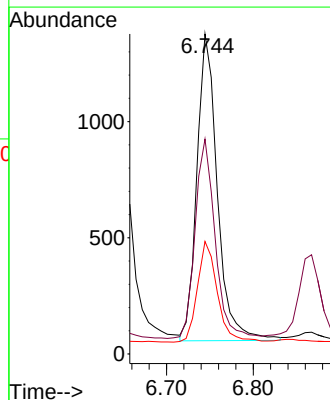
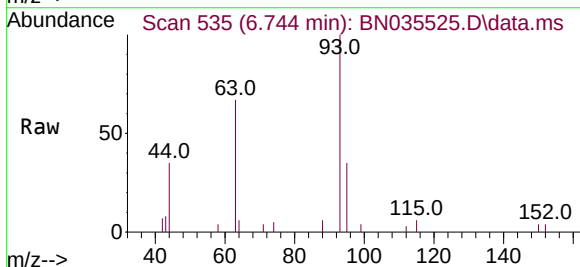
Manual Integrations
APPROVED

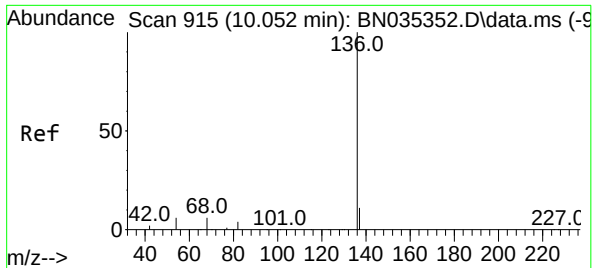
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

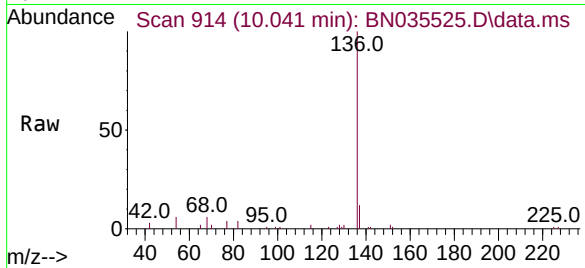
Tgt Ion: 93 Resp: 2173
Ion Ratio Lower Upper
93 100
63 63.6 50.4 75.6
95 32.0 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

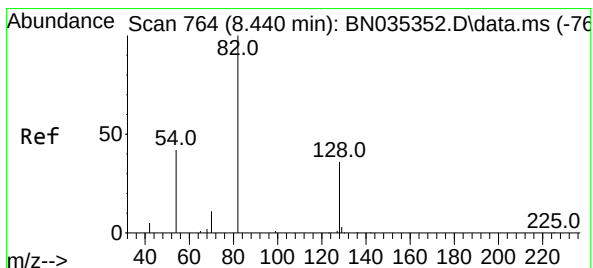
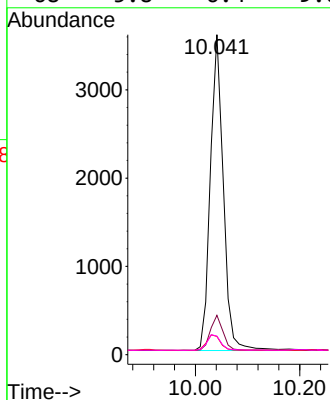
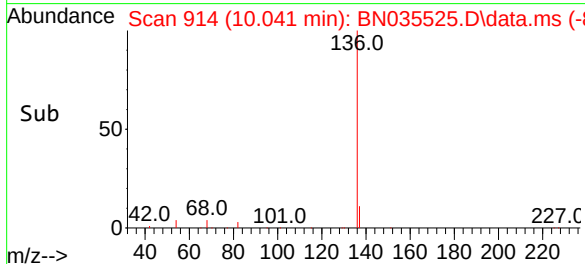
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 616
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 5.7 6.1 9.1
68 5.8 6.4 9.6#

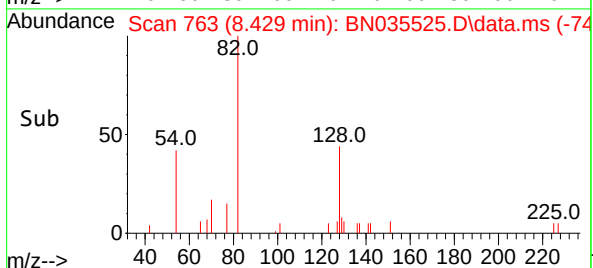
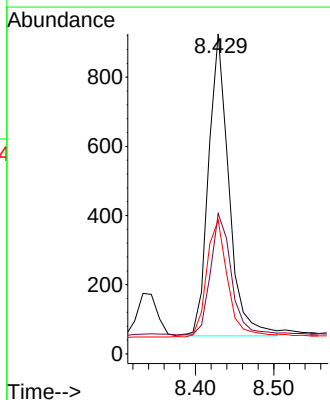
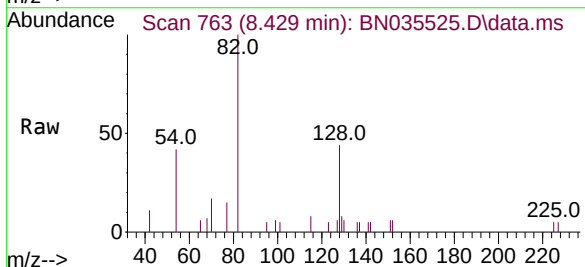
Manual Integrations
APPROVED

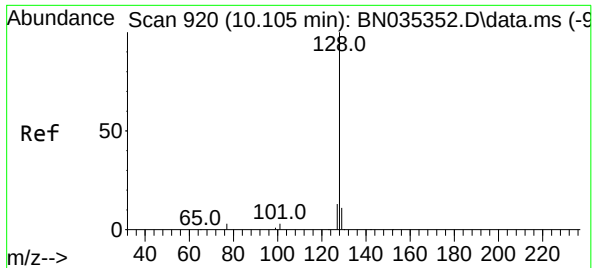
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.421 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 82 Resp: 1583
Ion Ratio Lower Upper
82 100
128 43.9 33.4 50.0
54 41.8 36.7 55.1





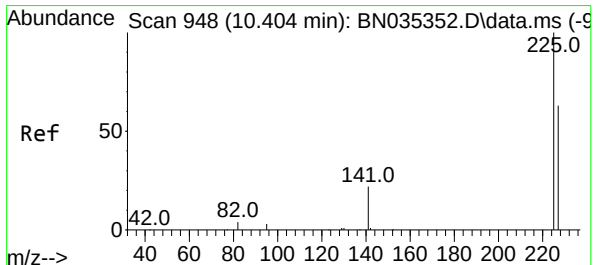
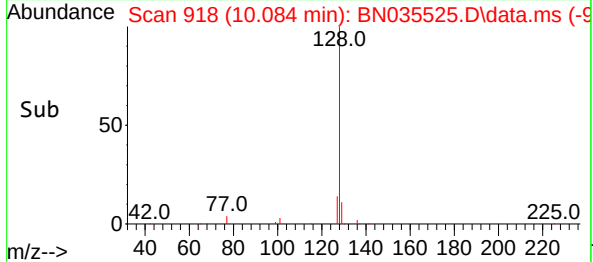
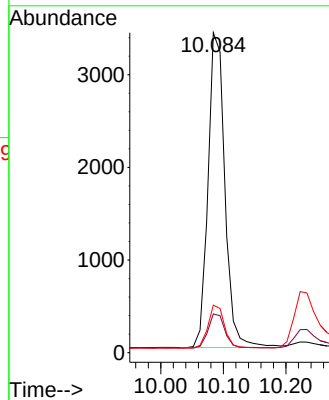
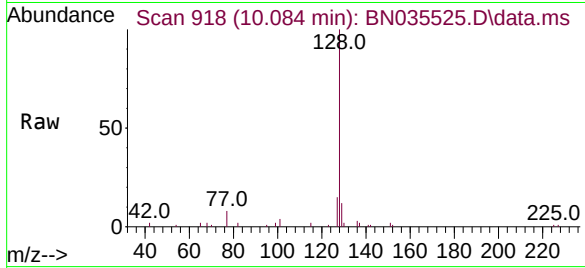
#9
Naphthalene
Concen: 0.391 ng
RT: 10.084 min Scan# 918
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6350
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.8 11.4 17.2

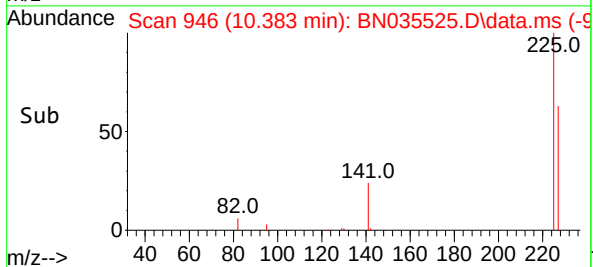
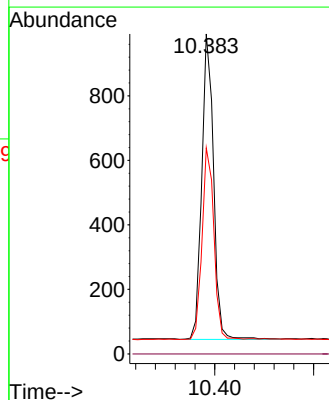
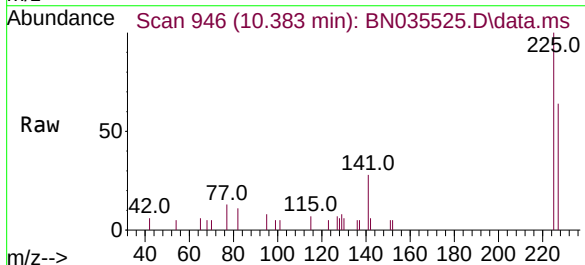
Manual Integrations
APPROVED

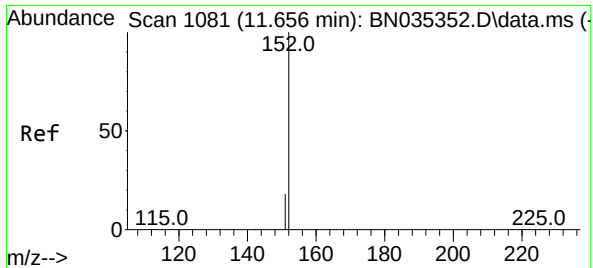
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

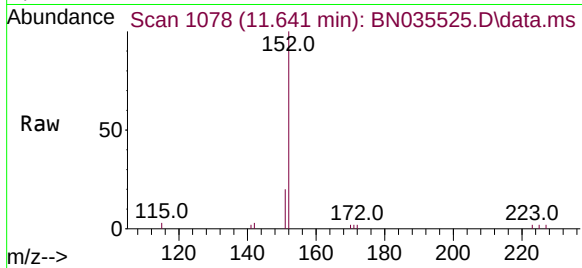
Tgt Ion:225 Resp: 1563
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.641 min Scan# 1078
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

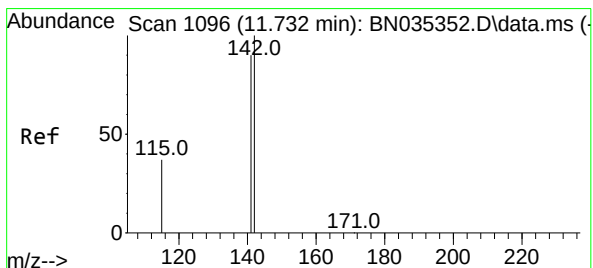
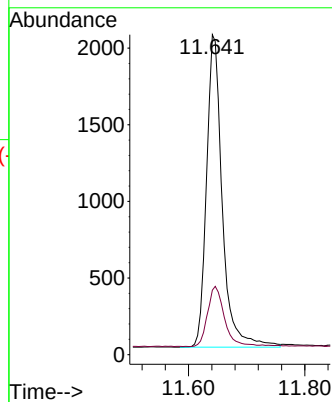
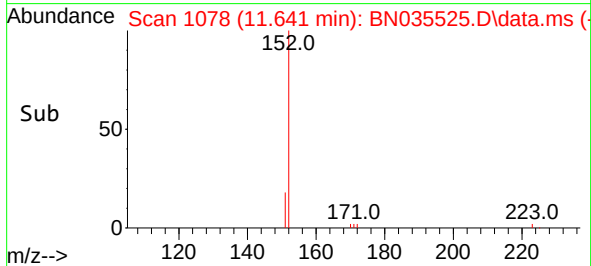
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 383
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

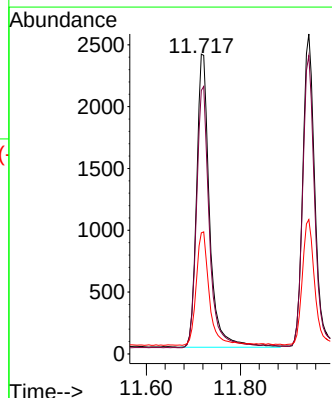
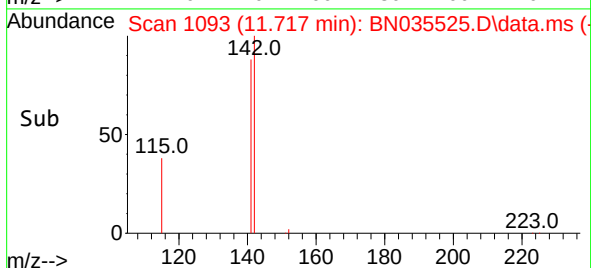
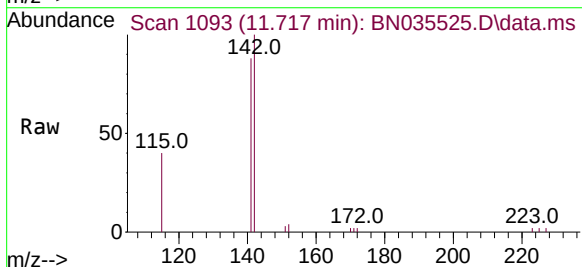
Manual Integrations
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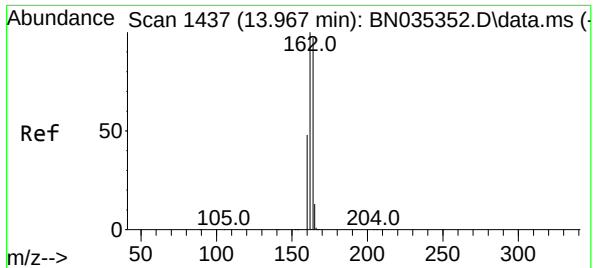
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

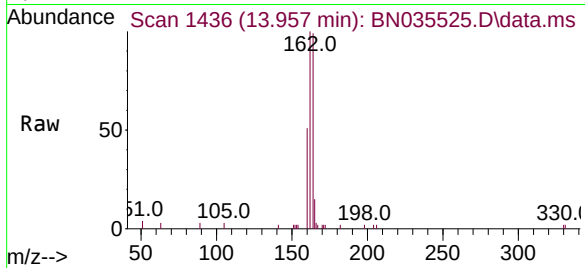
Tgt Ion:142 Resp: 4569
Ion Ratio Lower Upper
142 100
141 87.9 72.2 108.4
115 40.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

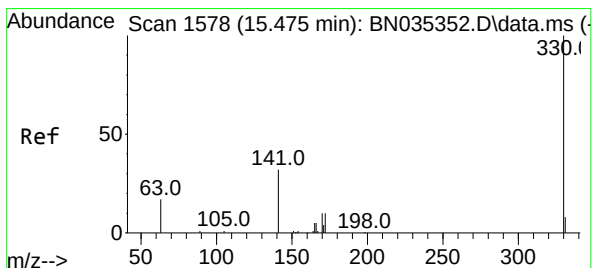
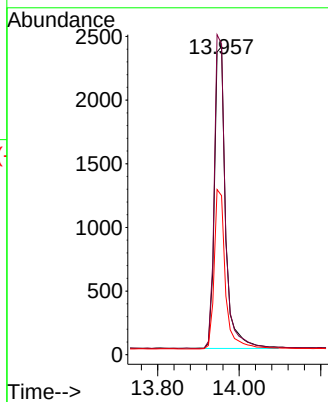
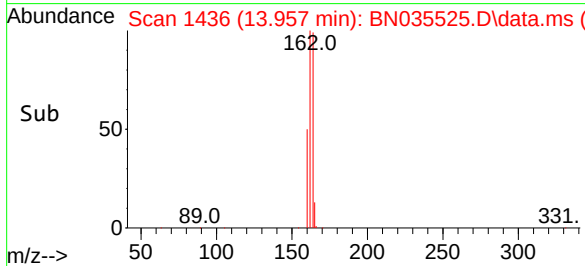
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 4478
Ion Ratio Lower Upper
164 100
162 100.9 82.2 123.2
160 51.7 40.1 60.1

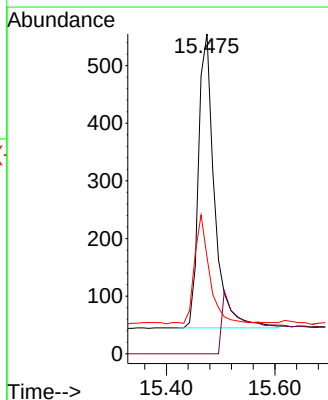
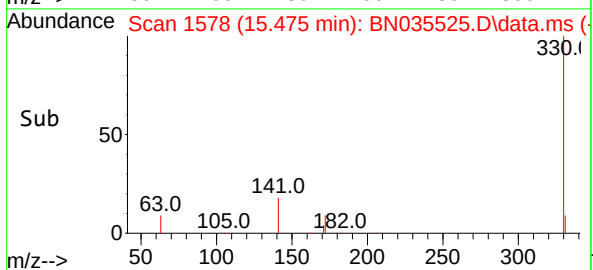
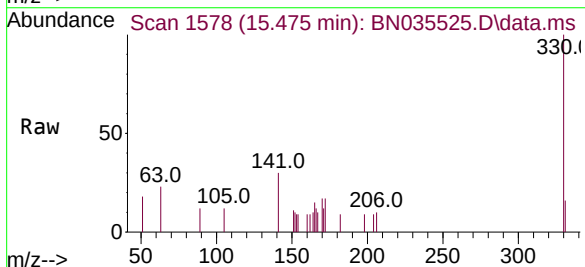
Manual Integrations
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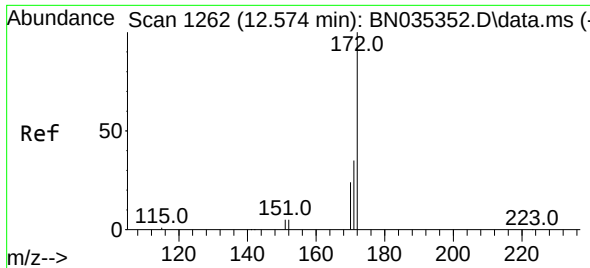
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:330 Resp: 1114
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0





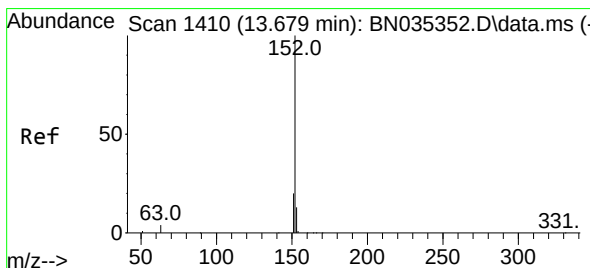
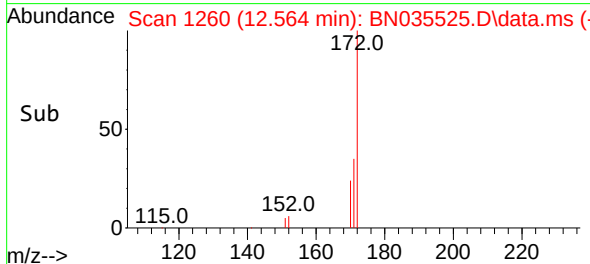
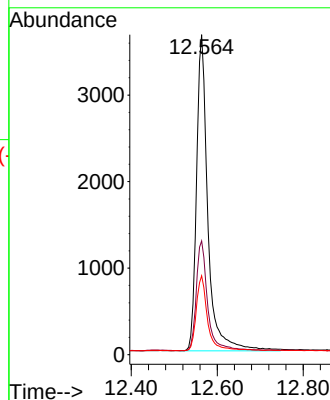
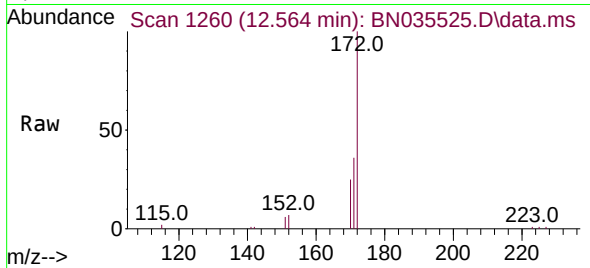
#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 669
Ion Ratio Lower Upper
172 100
171 35.6 29.0 43.4
170 24.6 19.8 29.8

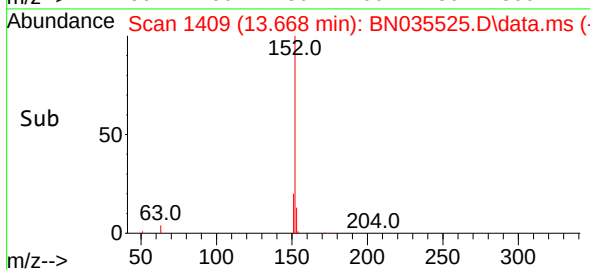
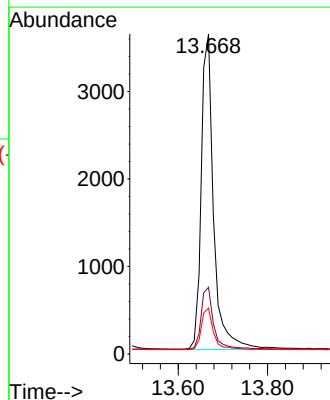
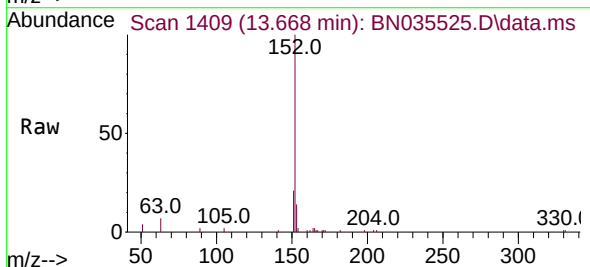
Manual Integrations
APPROVED

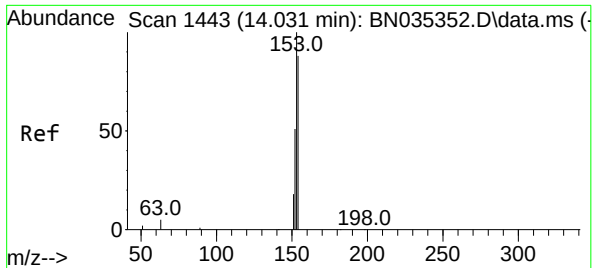
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

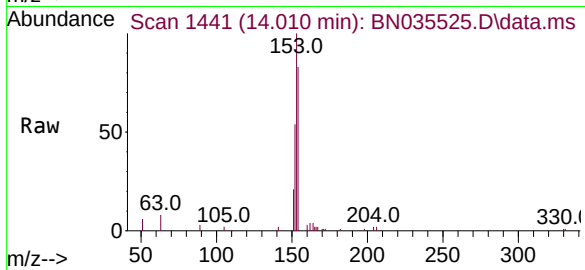
Tgt Ion:152 Resp: 6981
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2
153 12.8 10.4 15.6





#17
Acenaphthene
Concen: 0.382 ng
RT: 14.010 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

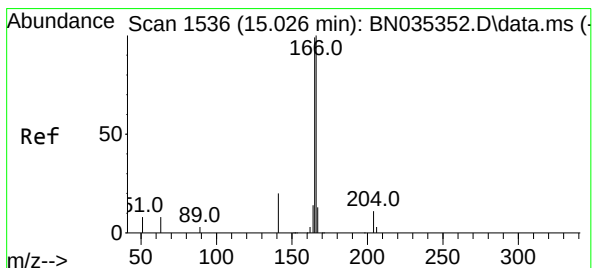
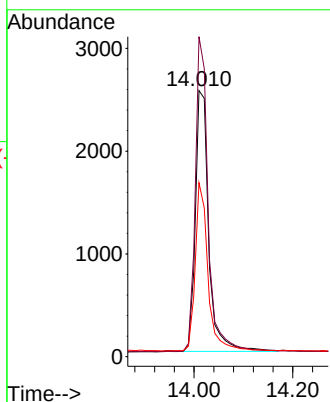
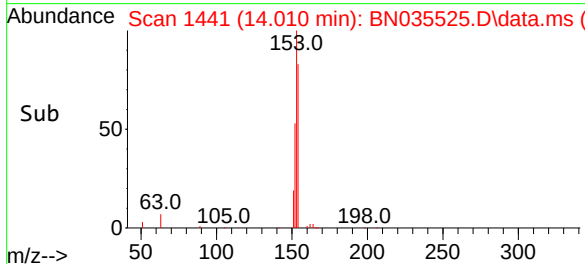
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 4775
Ion Ratio Lower Upper
154 100
153 115.9 92.6 139.0
152 61.6 49.0 73.6

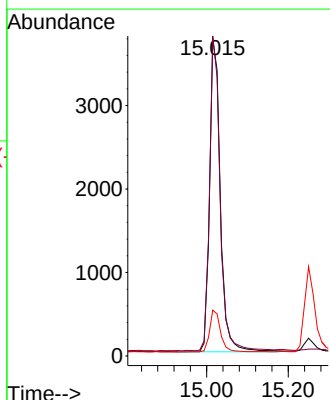
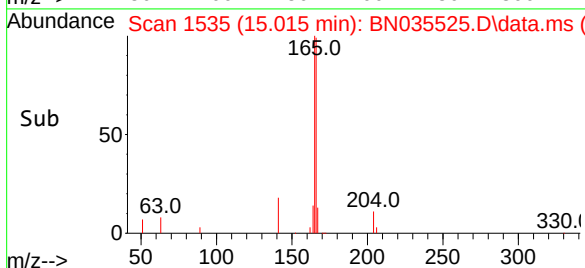
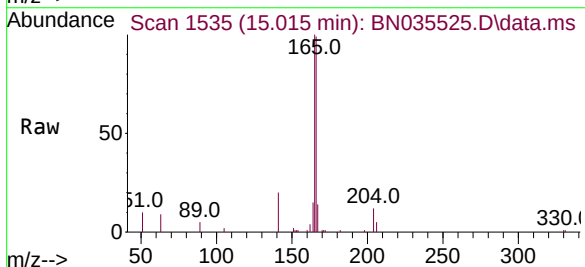
Manual Integrations
APPROVED

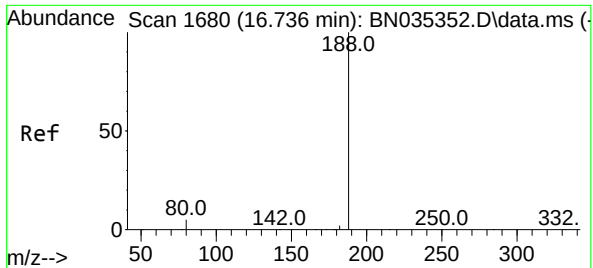
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.384 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:166 Resp: 6863
Ion Ratio Lower Upper
166 100
165 98.9 79.7 119.5
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1112

Delta R.T. -0.012 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 1112

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

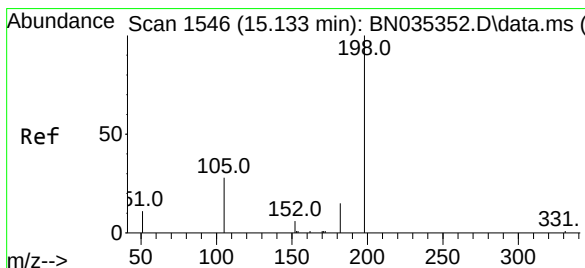
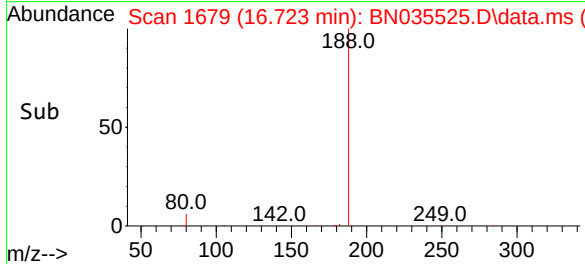
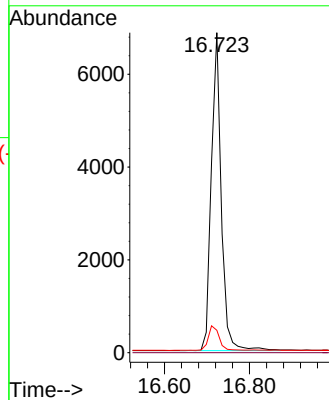
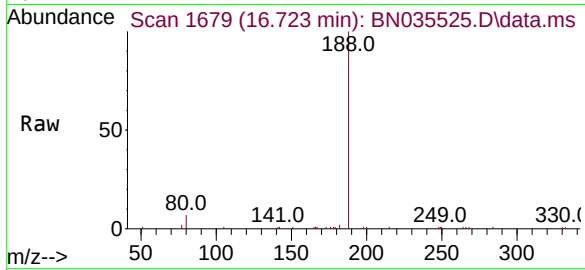
80 7.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.276 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

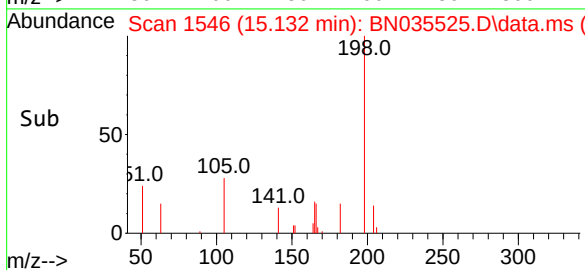
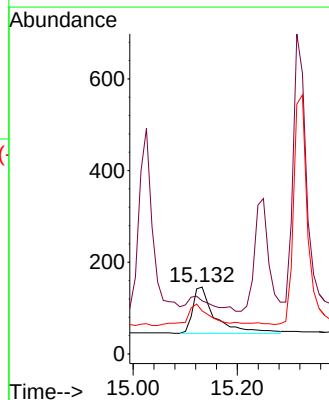
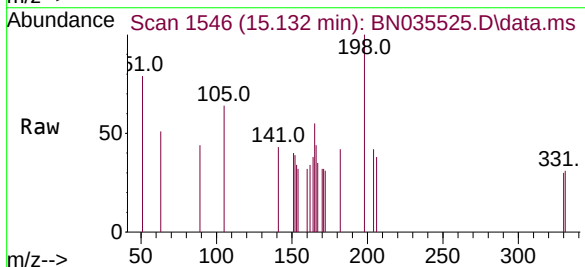
Tgt Ion:198 Resp: 302

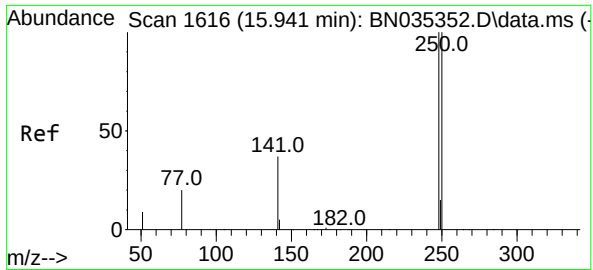
Ion Ratio Lower Upper

198 100

51 79.5 46.5 69.7

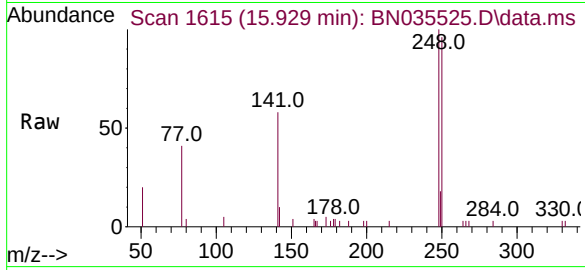
105 64.4 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

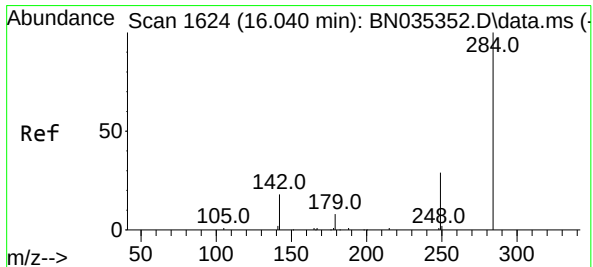
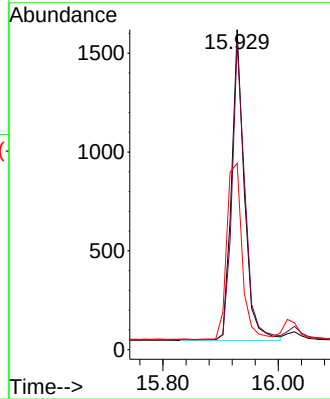
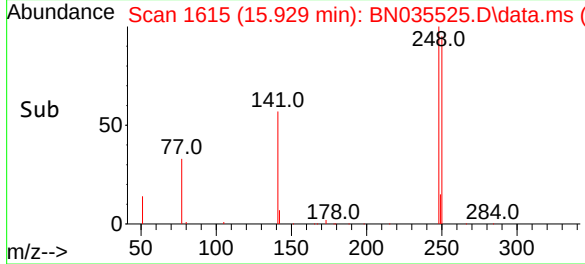
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 244
Ion Ratio Lower Upper
248 100
250 95.9 80.6 120.8
141 58.2 31.5 47.3

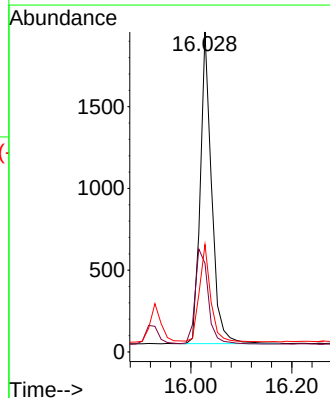
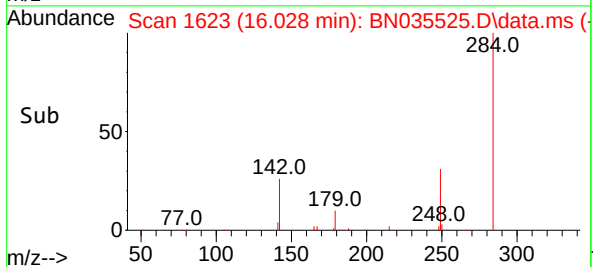
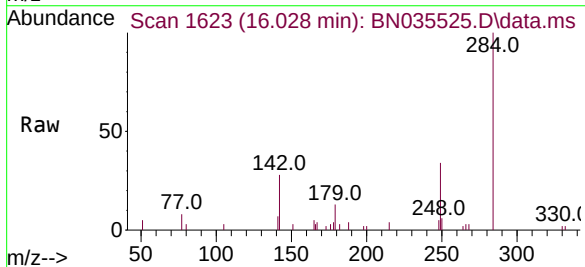
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APPROVED

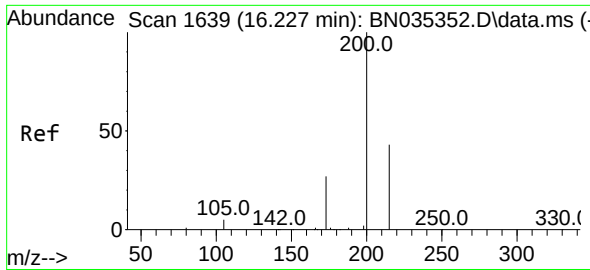
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

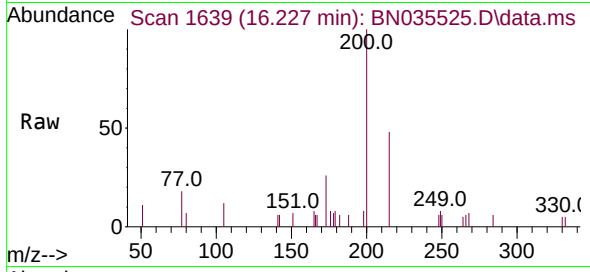
Tgt Ion:284 Resp: 2985
Ion Ratio Lower Upper
284 100
142 35.0 26.7 40.1
249 31.2 24.6 36.8





#23
Atrazine
Concen: 0.341 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

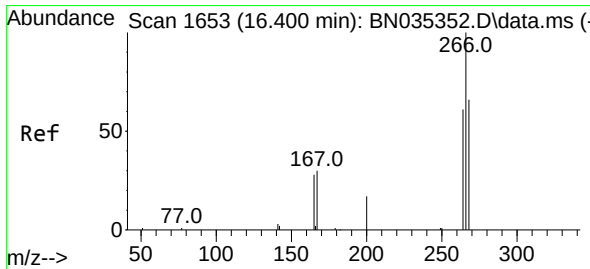
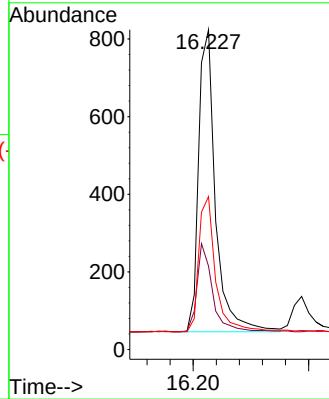
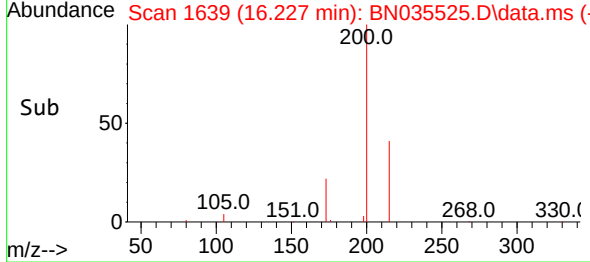
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 158
Ion Ratio Lower Upper
200 100
173 26.1 24.1 36.1
215 47.8 36.9 55.3

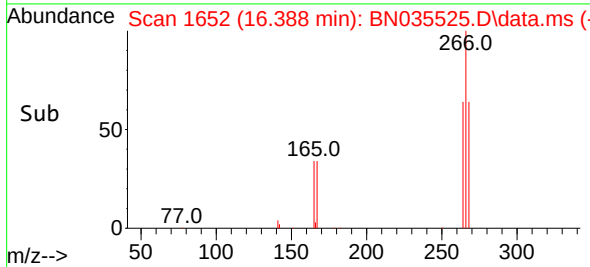
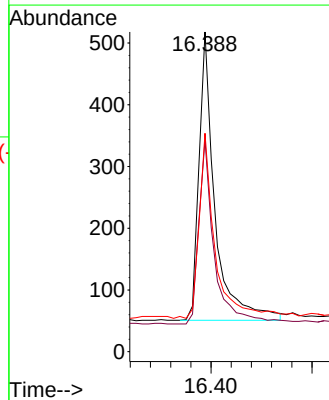
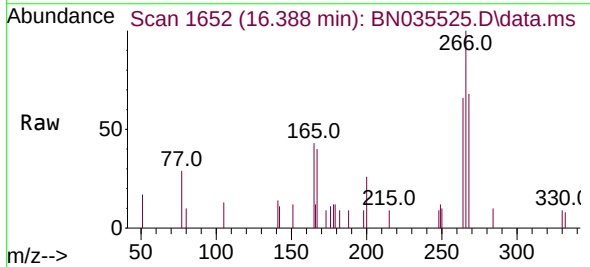
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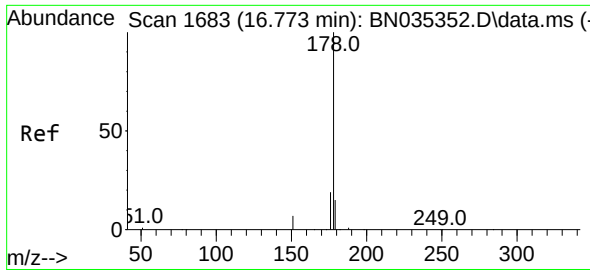
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

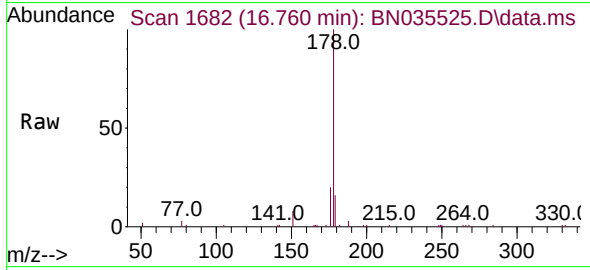
Tgt Ion:266 Resp: 1026
Ion Ratio Lower Upper
266 100
264 62.3 42.3 63.5
268 64.4 43.3 64.9





#25
Phenanthrene
Concen: 0.380 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

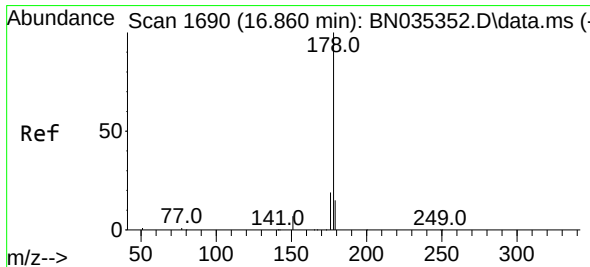
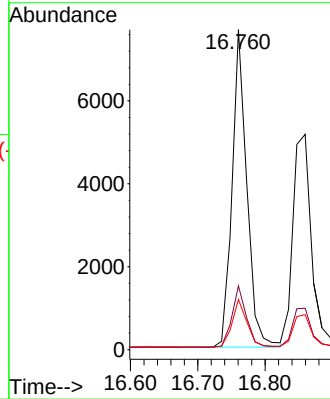
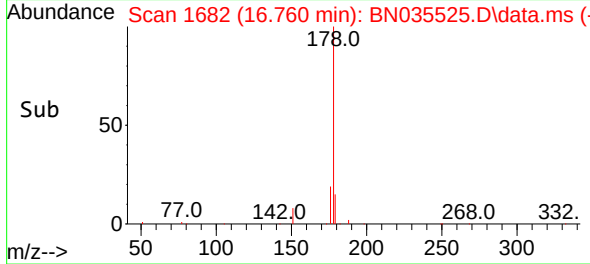
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 11604
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.3 12.3 18.5

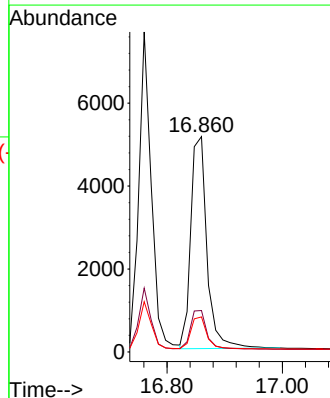
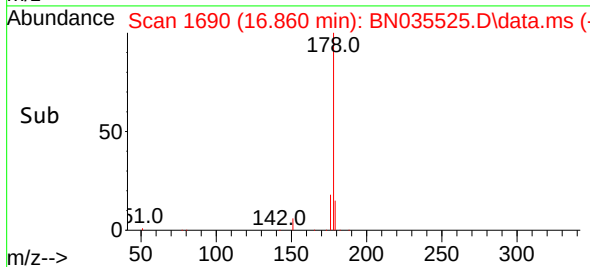
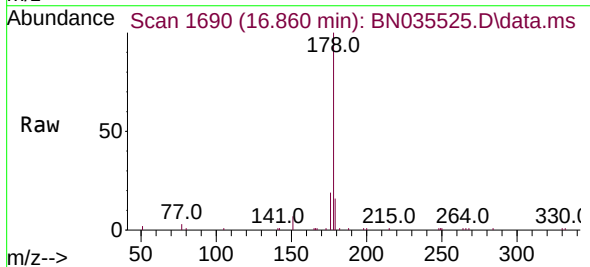
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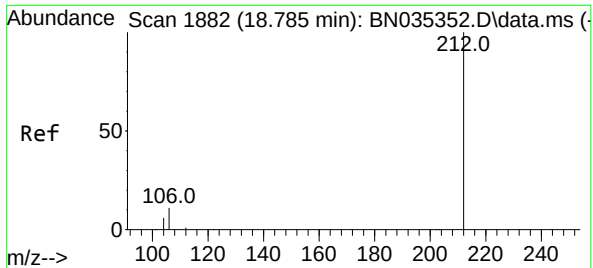
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.362 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:178 Resp: 9999
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8





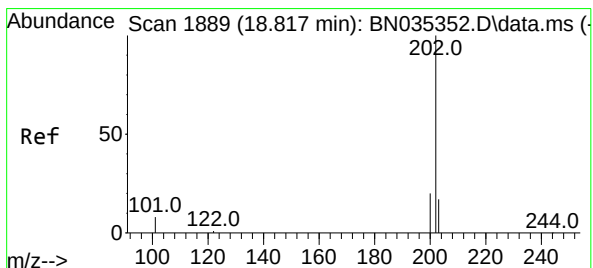
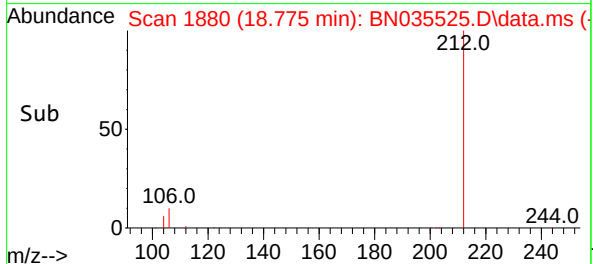
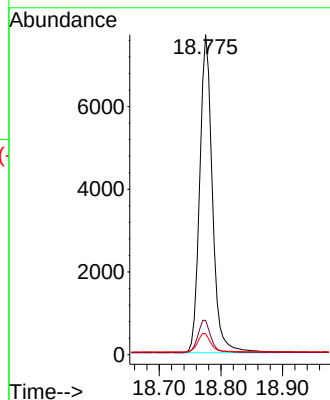
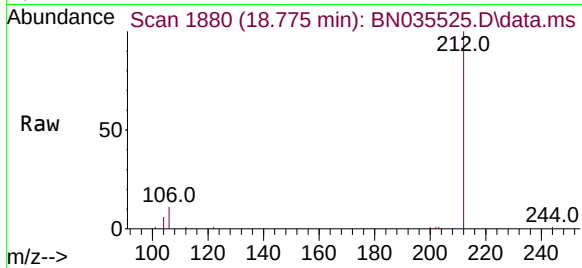
#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11062
Ion Ratio Lower Upper
212 100
106 10.3 9.2 13.8
104 5.9 5.3 7.9

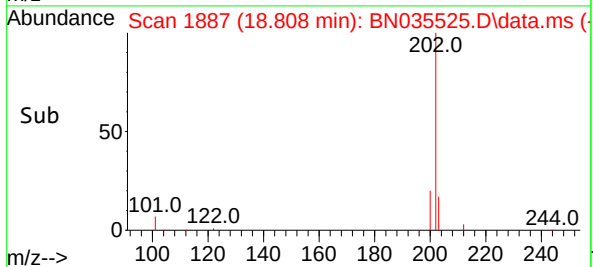
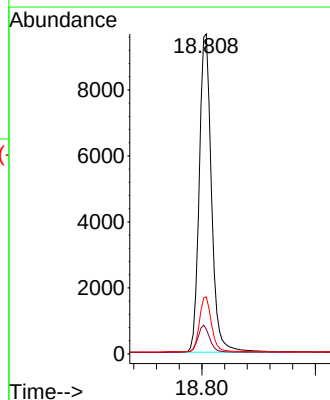
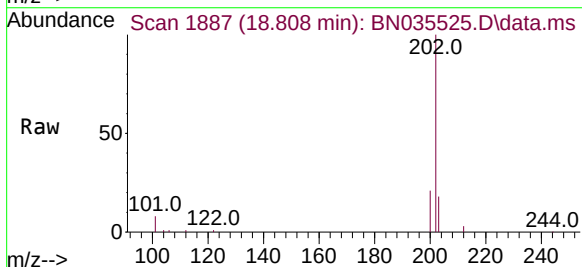
Manual Integrations
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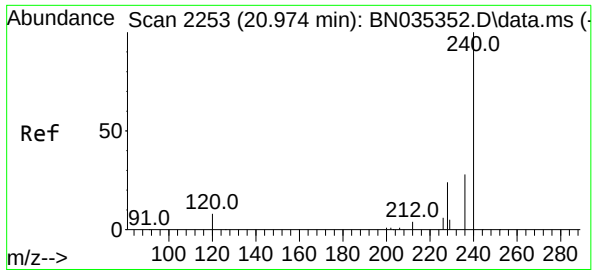
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#28
Fluoranthene
Concen: 0.350 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

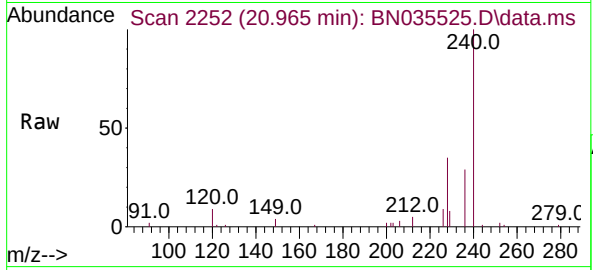
Tgt Ion:202 Resp: 14397
Ion Ratio Lower Upper
202 100
101 8.4 7.4 11.0
203 16.9 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

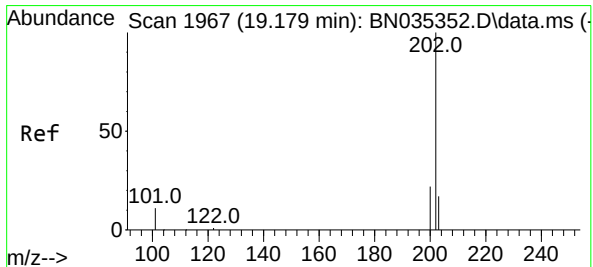
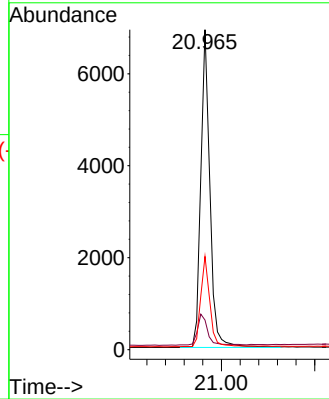
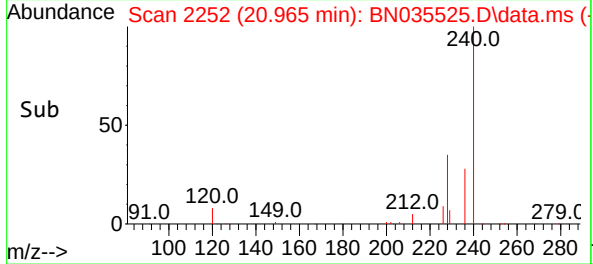
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 938
Ion Ratio Lower Upper
240 100
120 9.2 7.9 11.9
236 29.1 22.9 34.3

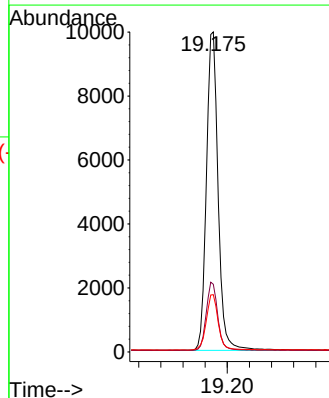
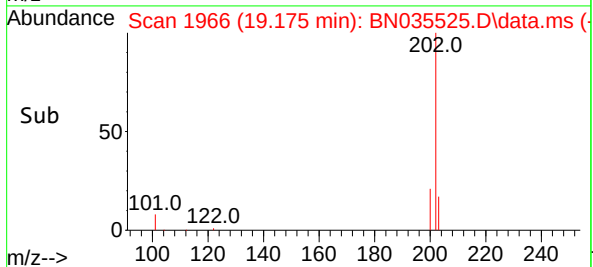
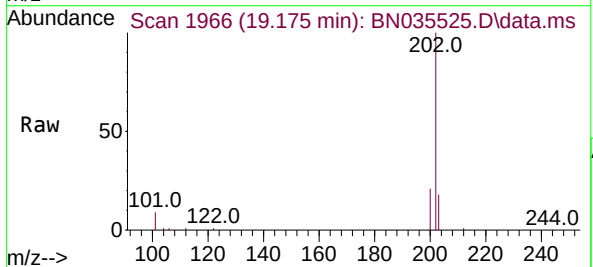
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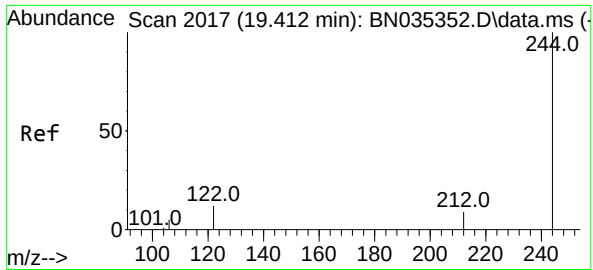
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#30
Pyrene
Concen: 0.422 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14606
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.8 14.3 21.5





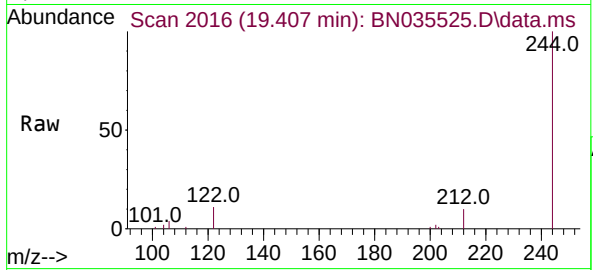
#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

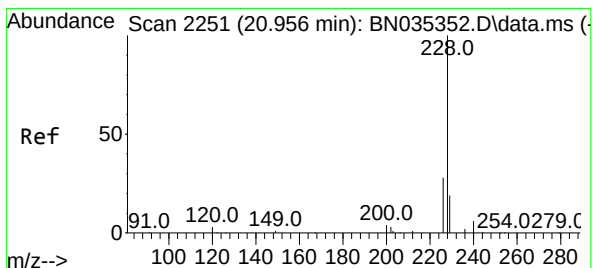
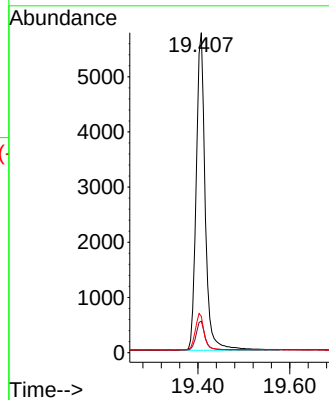
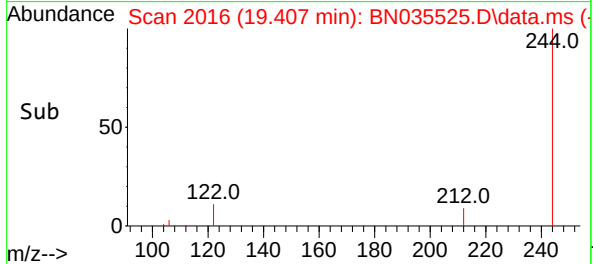


Tgt Ion:244 Resp: 7824
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 11.3 10.3 15.5

Manual Integrations

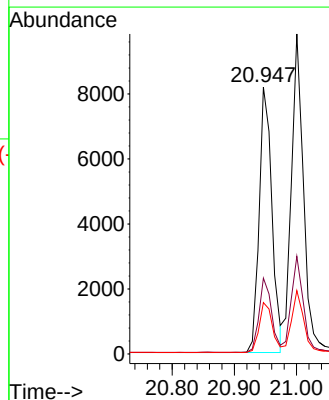
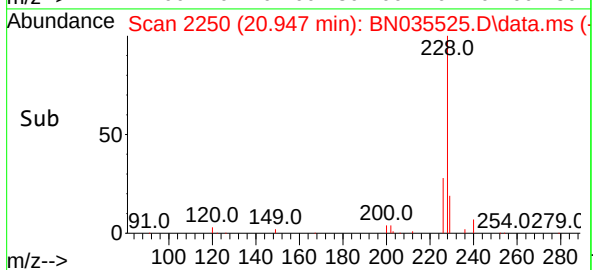
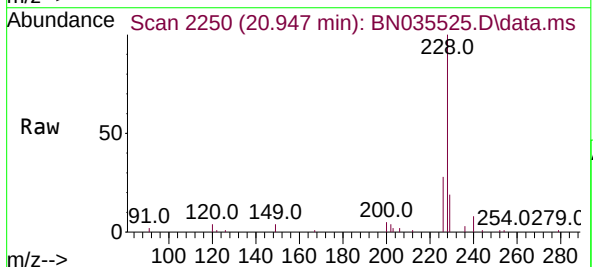
APPROVED

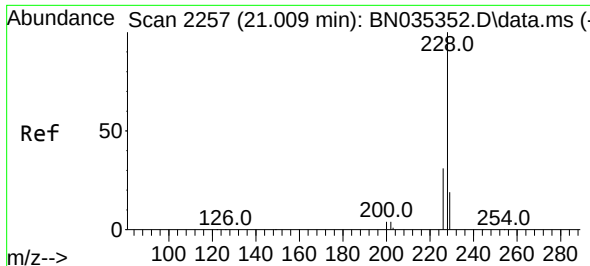
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

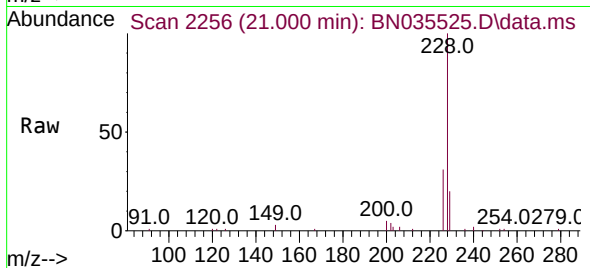
Tgt Ion:228 Resp: 11650
Ion Ratio Lower Upper
228 100
226 28.4 22.5 33.7
229 19.2 15.8 23.8





#33
Chrysene
Concen: 0.399 ng
RT: 21.000 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

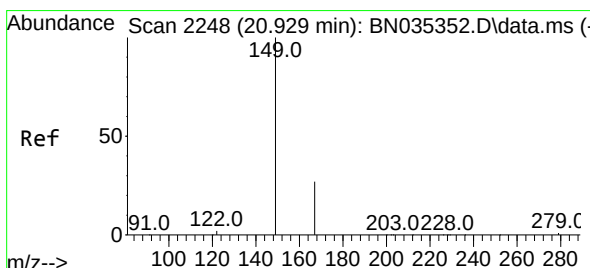
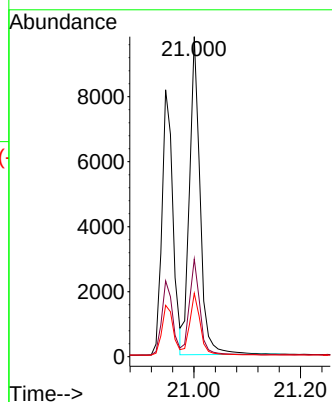
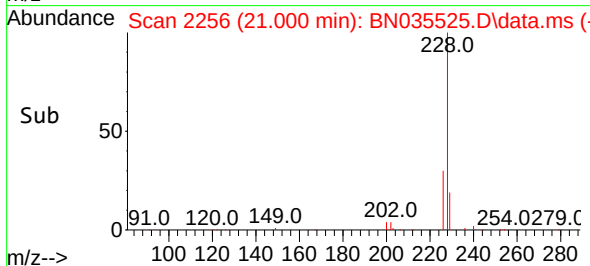
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 1350
Ion Ratio Lower Upper
228 100
226 30.5 24.6 37.0
229 19.8 15.9 23.9

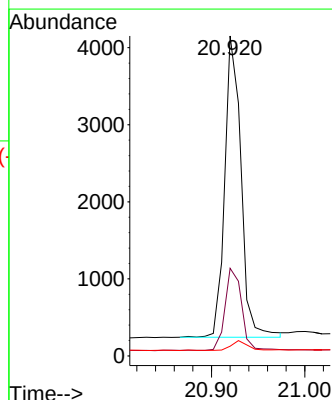
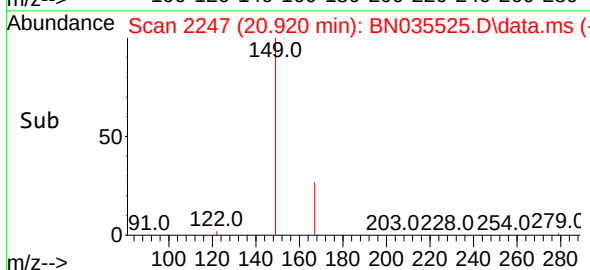
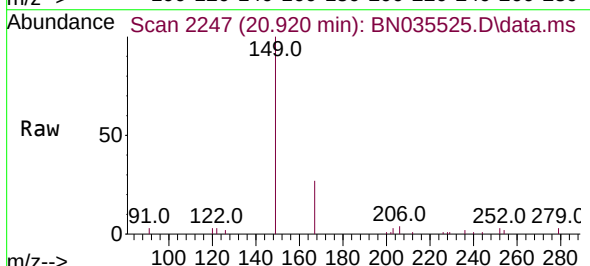
Manual Integrations
APPROVED

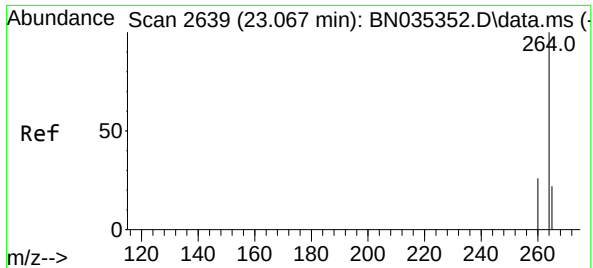
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

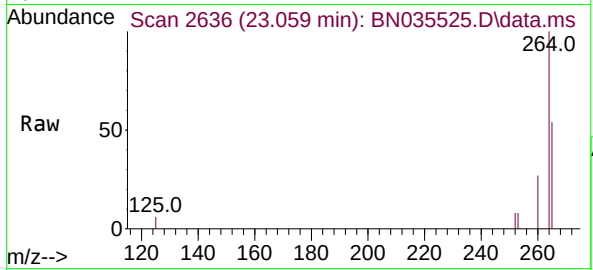
Tgt Ion:149 Resp: 4730
Ion Ratio Lower Upper
149 100
167 27.8 22.2 33.4
279 3.3 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

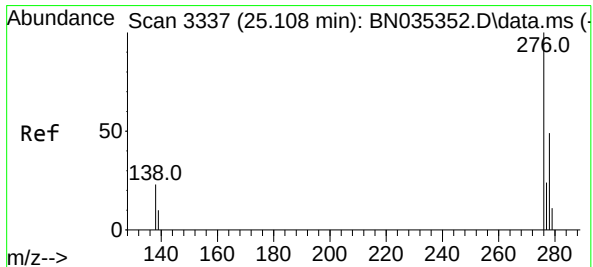
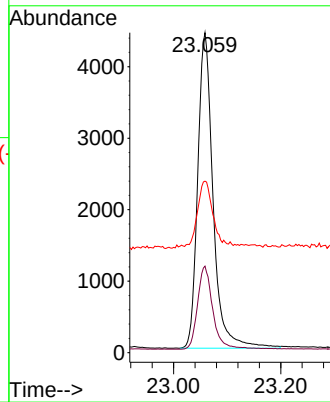
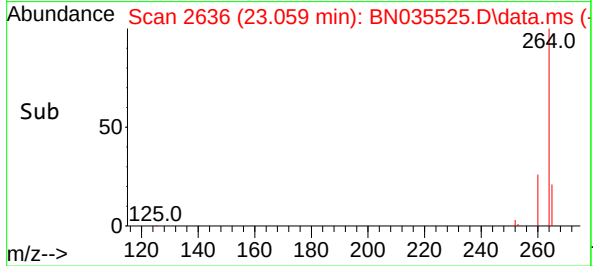
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 8820
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 53.6 40.2 60.4

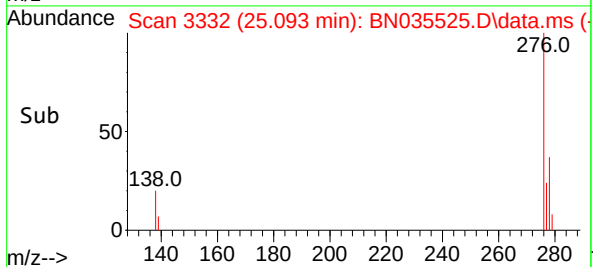
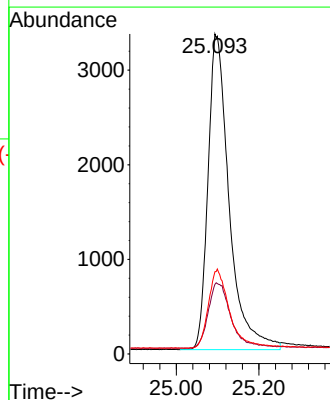
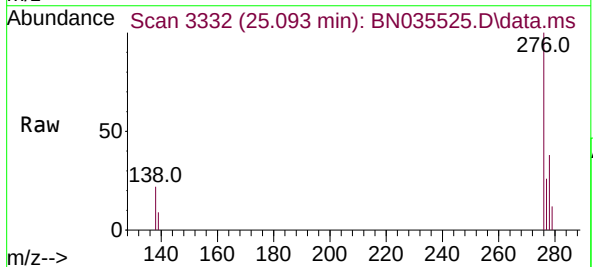
Manual Integrations
APPROVED

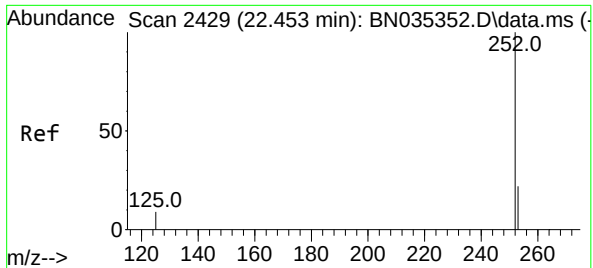
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.344 ng
RT: 25.093 min Scan# 3332
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:276 Resp: 11862
Ion Ratio Lower Upper
276 100
138 22.0 19.4 29.0
277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.439 ng

RT: 22.445 min Scan# 2426

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 1417

Ion Ratio Lower Upper

252 100

253 24.6 19.6 29.4

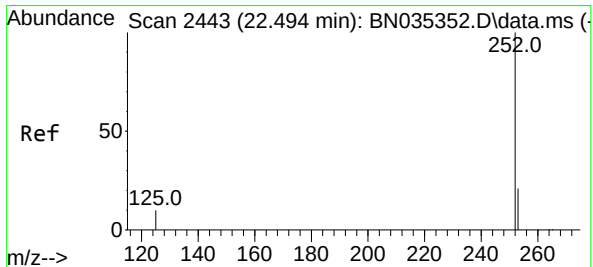
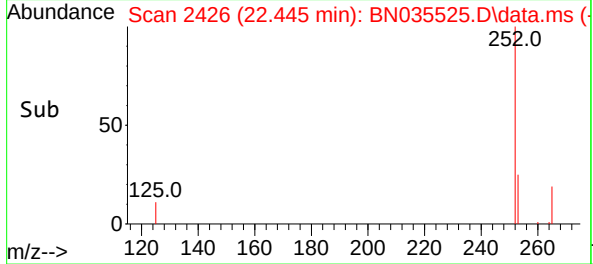
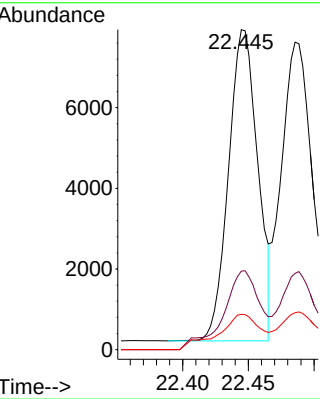
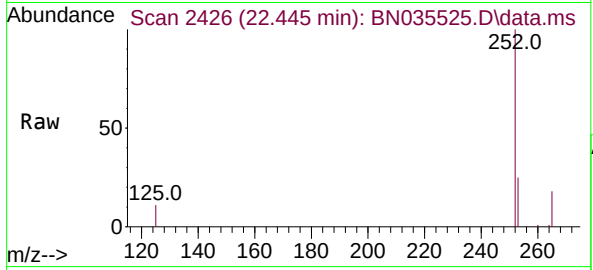
125 11.1 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.400 ng

RT: 22.485 min Scan# 2440

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

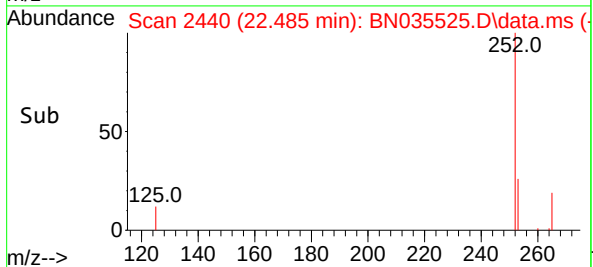
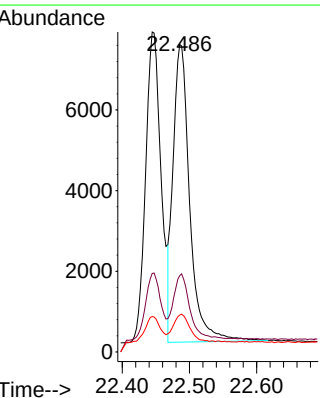
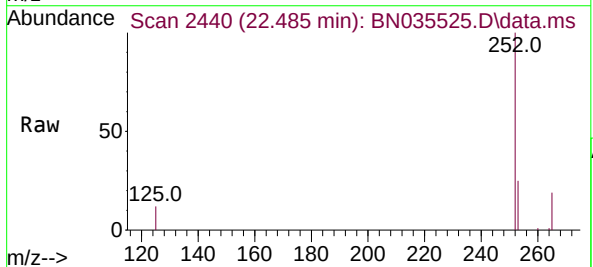
Tgt Ion:252 Resp: 12715

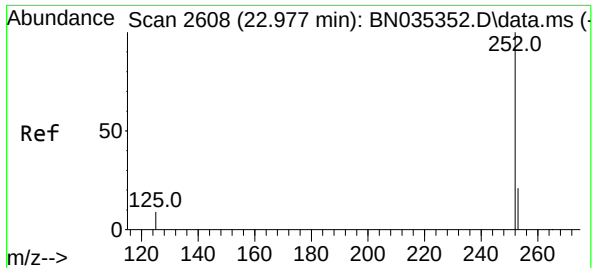
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

125 12.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.364 ng

RT: 22.971 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

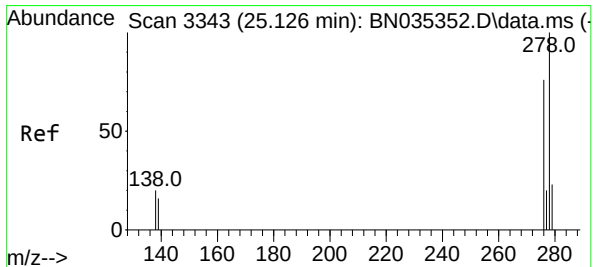
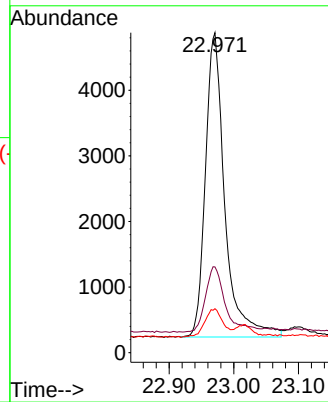
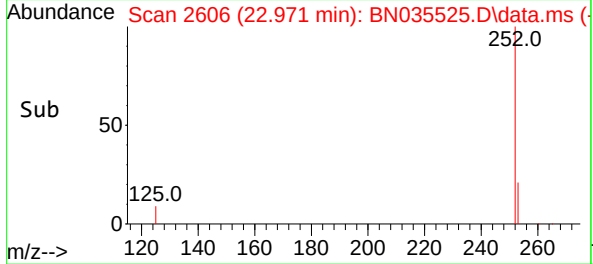
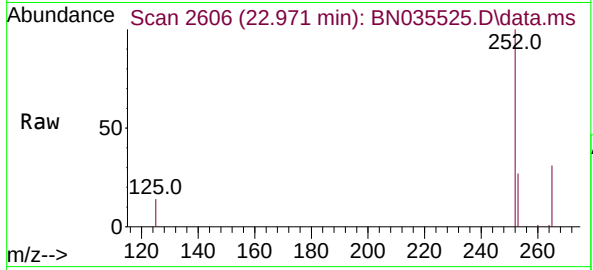
Tgt Ion:	252	Resp:	967
Ion Ratio	Lower	Upper	
252	100		
253	26.8	20.2	30.4
125	13.8	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.329 ng

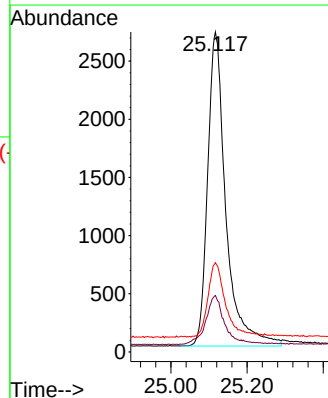
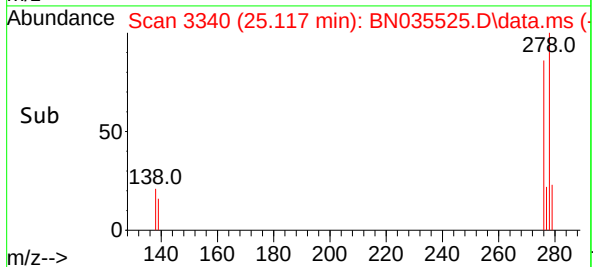
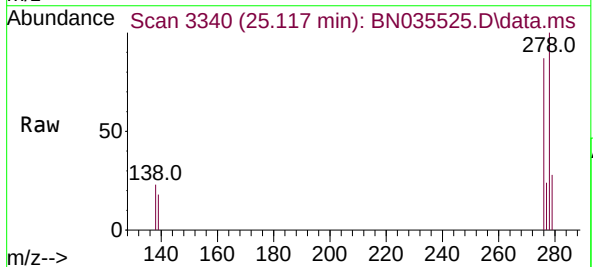
RT: 25.117 min Scan# 3340

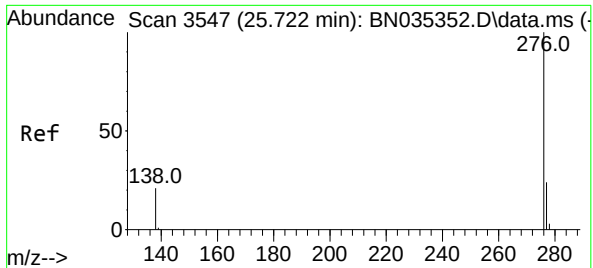
Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Tgt Ion:	278	Resp:	8943
Ion Ratio	Lower	Upper	
278	100		
139	17.6	14.2	21.4
279	27.9	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 25.710 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN035525.D

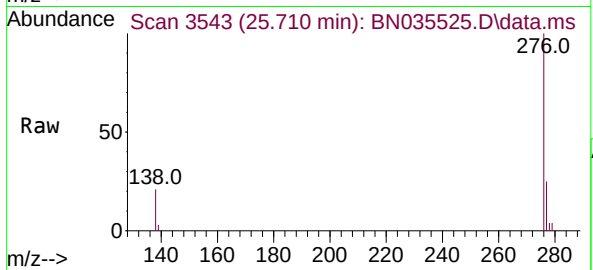
Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 10580

Ion Ratio Lower Upper

276 100

277 24.6 19.9 29.9

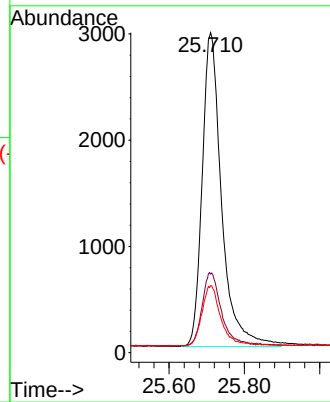
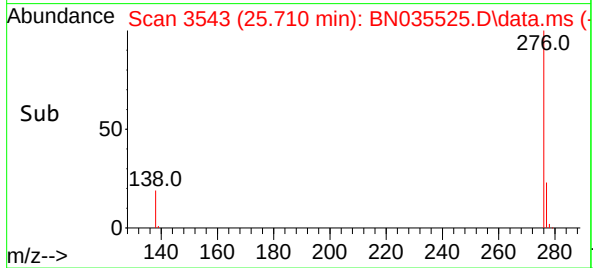
138 21.0 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035525.D
 Acq On : 10 Dec 2024 09:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	109	-0.01
2	1,4-Dioxane	0.382	0.382	0.0	111	0.00
3	n-Nitrosodimethylamine	0.319	0.342	-7.2	115	0.00
4 S	2-Fluorophenol	1.001	1.042	-4.1	112	-0.01
5 S	Phenol-d6	1.204	1.276	-6.0	117	-0.01
6	bis(2-Chloroethyl)ether	1.012	0.971	4.1	107	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	118	-0.01
8 S	Nitrobenzene-d5	0.244	0.257	-5.3	129	-0.01
9	Naphthalene	1.055	1.032	2.2	116	-0.02
10	Hexachlorobutadiene	0.243	0.254	-4.5	121	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.622	0.6	118	-0.02
12	2-Methylnaphthalene	0.755	0.742	1.7	118	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.249	12.3	114	0.00
15 S	2-Fluorobiphenyl	1.512	1.496	1.1	117	-0.01
16	Acenaphthylene	1.680	1.559	7.2	115	-0.01
17	Acenaphthene	1.115	1.066	4.4	116	-0.02
18	Fluorene	1.596	1.533	3.9	117	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.027	30.8#	90	0.00
21	4-Bromophenyl-phenylether	0.234	0.219	6.4	114	-0.01
22	Hexachlorobenzene	0.275	0.268	2.5	115	-0.01
23	Atrazine	0.167	0.142	15.0	108	0.00
24	Pentachlorophenol	0.120	0.092	23.3	113	-0.01
25	Phenanthrene	1.099	1.043	5.1	115	-0.01
26	Anthracene	0.994	0.899	9.6	112	0.00
27 SURR	Fluoranthene-d10	1.134	0.995	12.3	108	0.00
28	Fluoranthene	1.481	1.294	12.6	107	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	98	0.00
30	Pyrene	1.477	1.557	-5.4	104	0.00
31 S	Terphenyl-d14	0.789	0.834	-5.7	104	0.00
32	Benzo(a)anthracene	1.399	1.242	11.2	90	0.00
33	Chrysene	1.443	1.439	0.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.504	8.9	96	0.00
35 I	Perylene-d12	1.000	1.000	0.0	81	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.345	14.0	71	-0.01
37	Benzo(b)fluoranthene	1.463	1.607	-9.8	100	0.00
38	Benzo(k)fluoranthene	1.440	1.442	-0.1	84	0.00
39 C	Benzo(a)pyrene	1.205	1.097	9.0	78	0.00
40	Dibenzo(a,h)anthracene	1.234	1.014	17.8	69	0.00
41	Benzo(g,h,i)perylene	1.289	1.200	6.9	78	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035525.D
 Acq On : 10 Dec 2024 09:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	109	-0.01
2	1,4-Dioxane	0.400	0.400	0.0	111	0.00
3	n-Nitrosodimethylamine	0.400	0.430	-7.5	115	0.00
4 S	2-Fluorophenol	0.400	0.416	-4.0	112	-0.01
5 S	Phenol-d6	0.400	0.424	-6.0	117	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.384	4.0	107	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	118	-0.01
8 S	Nitrobenzene-d5	0.400	0.421	-5.2	129	-0.01
9	Naphthalene	0.400	0.391	2.3	116	-0.02
10	Hexachlorobutadiene	0.400	0.417	-4.2	121	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	118	-0.02
12	2-Methylnaphthalene	0.400	0.393	1.8	118	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.350	12.5	114	0.00
15 S	2-Fluorobiphenyl	0.400	0.396	1.0	117	-0.01
16	Acenaphthylene	0.400	0.371	7.3	115	-0.01
17	Acenaphthene	0.400	0.382	4.5	116	-0.02
18	Fluorene	0.400	0.384	4.0	117	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.276	31.0#	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.375	6.3	114	-0.01
22	Hexachlorobenzene	0.400	0.391	2.3	115	-0.01
23	Atrazine	0.400	0.341	14.8	108	0.00
24	Pentachlorophenol	0.400	0.309	22.8	113	-0.01
25	Phenanthrene	0.400	0.380	5.0	115	-0.01
26	Anthracene	0.400	0.362	9.5	112	0.00
27 SURR	Fluoranthene-d10	0.400	0.351	12.3	108	0.00
28	Fluoranthene	0.400	0.350	12.5	107	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	98	0.00
30	Pyrene	0.400	0.422	-5.5	104	0.00
31 S	Terphenyl-d14	0.400	0.423	-5.7	104	0.00
32	Benzo(a)anthracene	0.400	0.355	11.3	90	0.00
33	Chrysene	0.400	0.399	0.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.365	8.8	96	0.00
35 I	Perylene-d12	0.400	0.400	0.0	81	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.344	14.0	71	-0.01
37	Benzo(b)fluoranthene	0.400	0.439	-9.7	100	0.00
38	Benzo(k)fluoranthene	0.400	0.400	0.0	84	0.00
39 C	Benzo(a)pyrene	0.400	0.364	9.0	78	0.00
40	Dibenzo(a,h)anthracene	0.400	0.329	17.8	69	0.00
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	78	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 12:40

Lab File ID: BN035530.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.609		-2.7	50.0
Fluoranthene-d10	1.134	0.937		-17.4	50.0
2-Fluorophenol	1.001	0.987		-1.4	50.0
Phenol-d6	1.204	1.206		0.2	50.0
Nitrobenzene-d5	0.244	0.255		4.5	50.0
2-Fluorobiphenyl	1.512	1.456		-3.7	50.0
2,4,6-Tribromophenol	0.284	0.253		-10.9	50.0
Terphenyl-d14	0.789	0.823		4.3	50.0
1,4-Dioxane	0.382	0.377		-1.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035530.D
 Acq On : 10 Dec 2024 12:40
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 13:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	1649	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	4653	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3559	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8829	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7037	0.400	ng	0.00
35) Perylene-d12	23.059	264	6876	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1627	0.394	ng	-0.01
5) Phenol-d6	6.499	99	1989	0.401	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1188m	0.418	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2835	0.389	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	899	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5182	0.385	ng	-0.01
27) Fluoranthene-d10	18.775	212	8270	0.330	ng	0.00
31) Terphenyl-d14	19.402	244	5792	0.417	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	622	0.395	ng	97
3) n-Nitrosodimethylamine	3.292	42	529	0.403	ng	# 94
6) bis(2-Chloroethyl)ether	6.744	93	1499	0.359	ng	99
9) Naphthalene	10.095	128	4751	0.387	ng	99
10) Hexachlorobutadiene	10.383	225	1177	0.416	ng	# 99
12) 2-Methylnaphthalene	11.722	142	3358	0.382	ng	97
16) Acenaphthylene	13.668	152	5536	0.370	ng	99
17) Acenaphthene	14.021	154	3879	0.391	ng	98
18) Fluorene	15.026	166	5544	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	246	0.283	ng	# 71
21) 4-Bromophenyl-phenylether	15.929	248	1928	0.373	ng	# 86
22) Hexachlorobenzene	16.028	284	2468	0.407	ng	100
23) Atrazine	16.227	200	1287	0.350	ng	95
24) Pentachlorophenol	16.388	266	713	0.270	ng	# 84
25) Phenanthrene	16.760	178	9191	0.379	ng	100
26) Anthracene	16.860	178	7969	0.363	ng	100
28) Fluoranthene	18.808	202	10852	0.332	ng	99
30) Pyrene	19.170	202	11027	0.425	ng	100
32) Benzo(a)anthracene	20.947	228	8623	0.350	ng	99
33) Chrysene	21.001	228	10141	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3712	0.382	ng	99
36) Indeno(1,2,3-cd)pyrene	25.096	276	9828	0.366	ng	97
37) Benzo(b)fluoranthene	22.445	252	12398	0.493	ng	98
38) Benzo(k)fluoranthene	22.488	252	10500	0.424	ng	96
39) Benzo(a)pyrene	22.968	252	7505	0.362	ng	96
40) Dibenzo(a,h)anthracene	25.117	278	7400	0.349	ng	96
41) Benzo(g,h,i)perylene	25.707	276	8233	0.371	ng	99

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

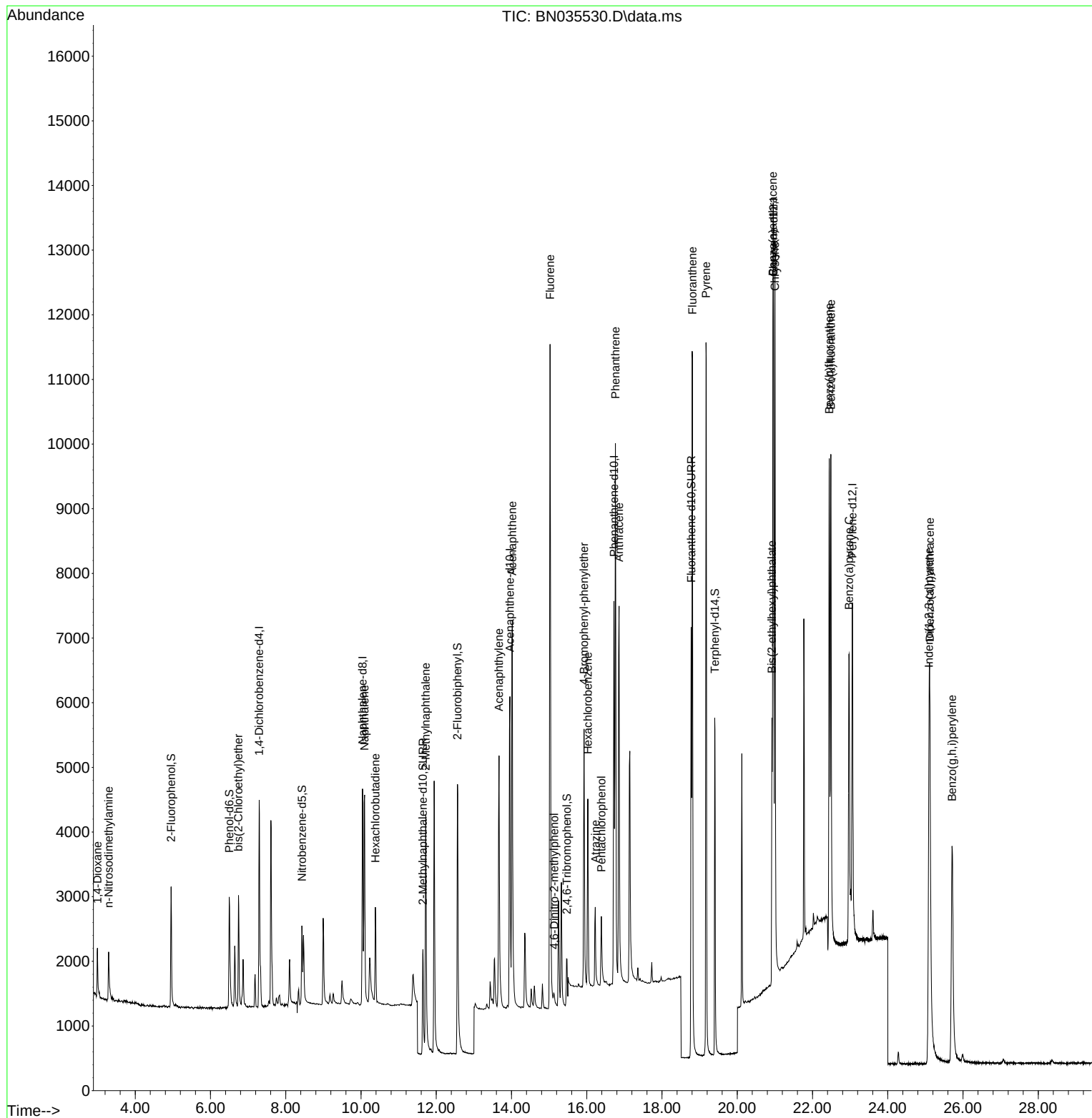
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 Data File : BN035530.D
 Acq On : 10 Dec 2024 12:40
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

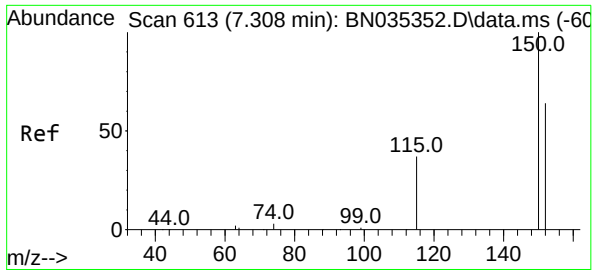
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

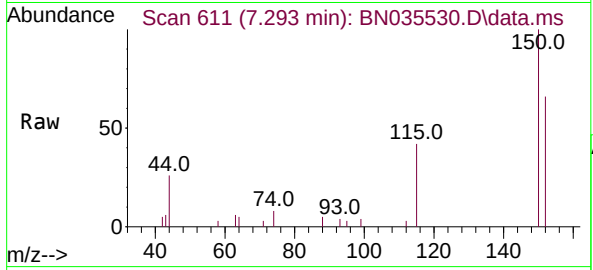
Quant Time: Dec 10 13:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 613
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

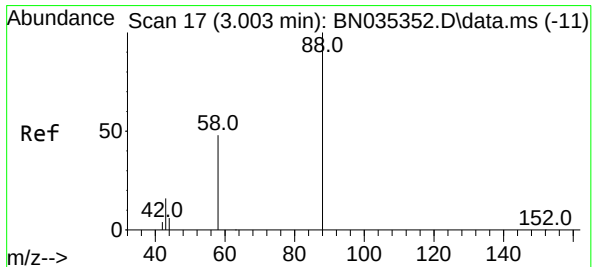
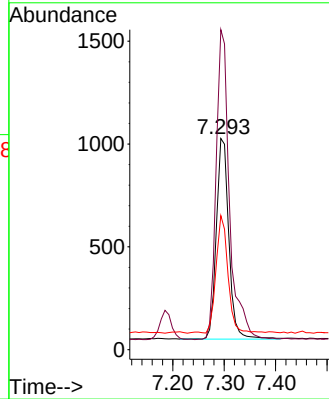
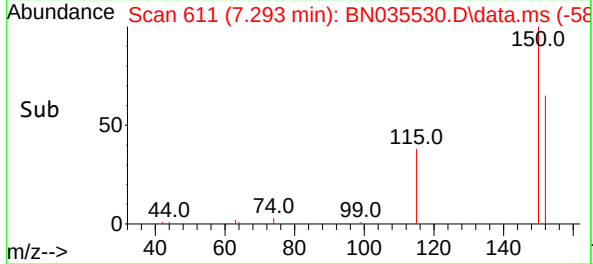
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 1649
Ion Ratio Lower Upper
152 100
150 151.5 124.0 186.0
115 63.5 49.6 74.4

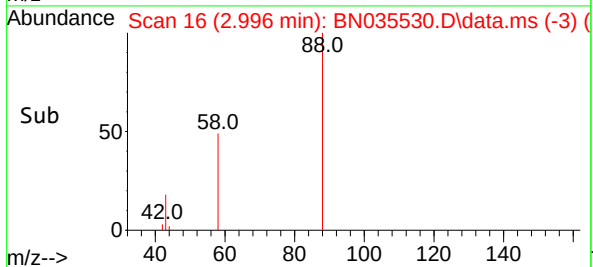
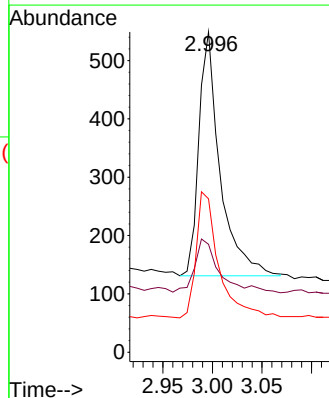
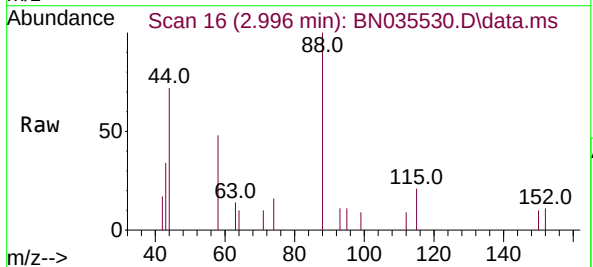
Manual Integrations
APPROVED

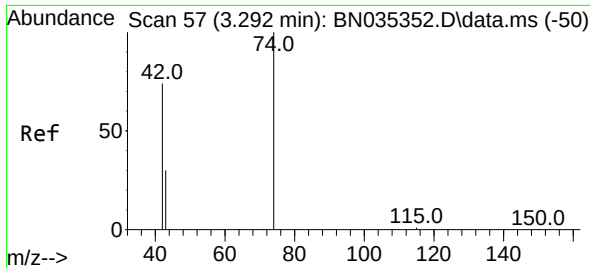
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.395 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

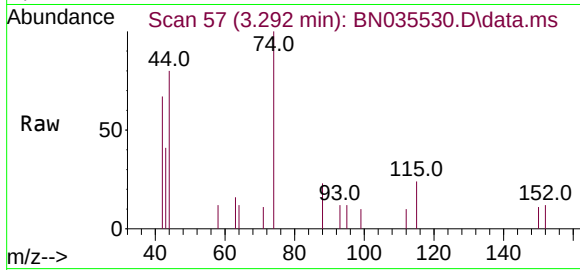
Tgt Ion: 88 Resp: 622
Ion Ratio Lower Upper
88 100
43 25.7 17.2 25.8
58 55.3 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

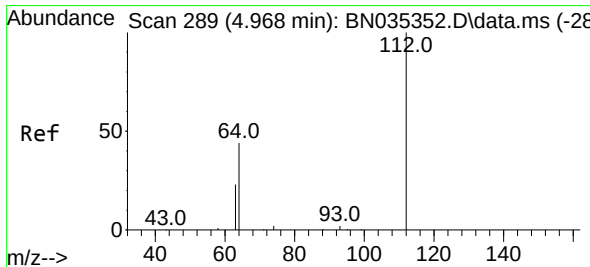
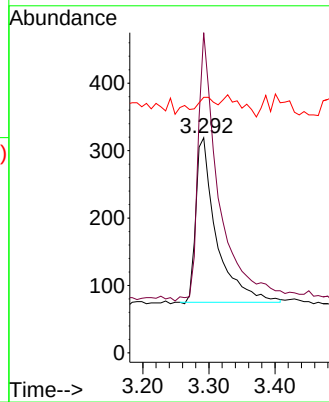
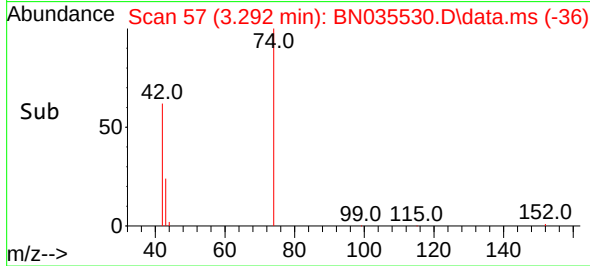
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 529
Ion Ratio Lower Upper
42 100
74 163.7 124.9 187.3
44 5.3 2.2 3.4

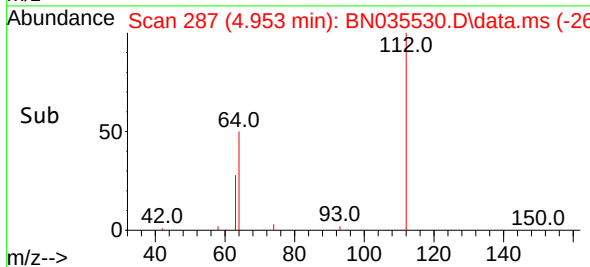
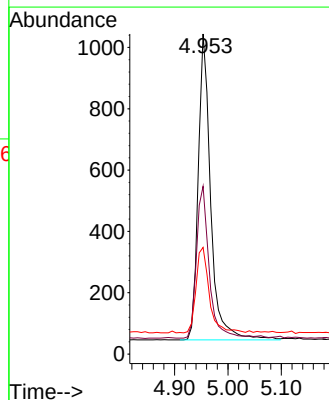
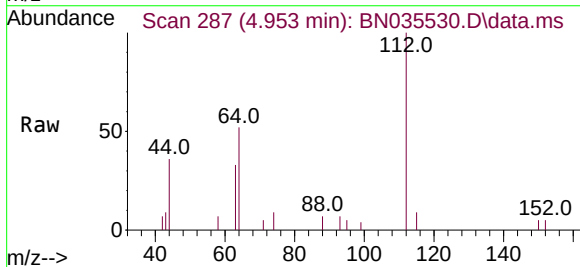
Manual Integrations
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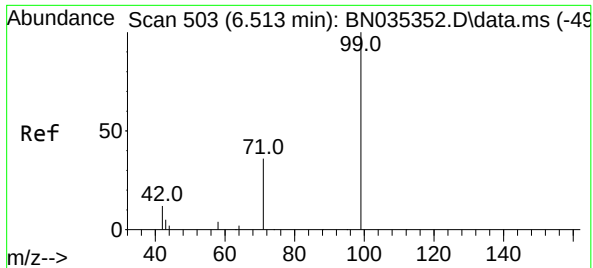
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:112 Resp: 1627
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 29.6 21.0 31.6





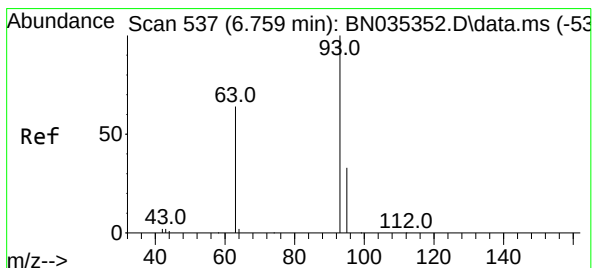
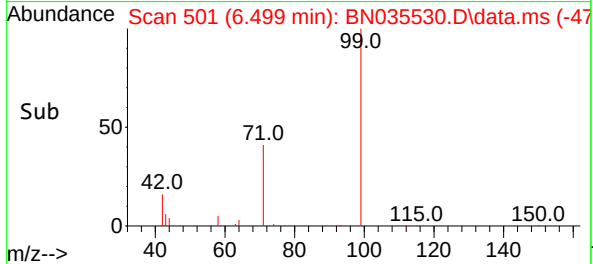
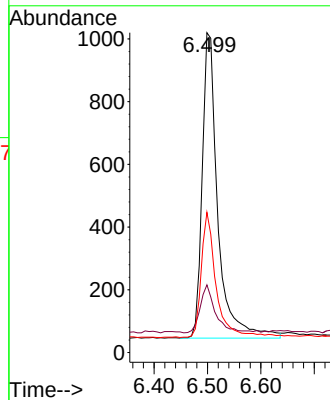
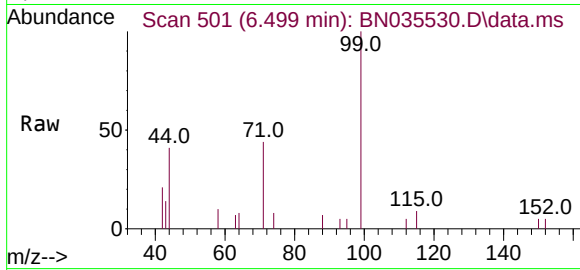
#5
Phenol-d6
Concen: 0.401 ng
RT: 6.499 min Scan# 501
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1989
Ion Ratio Lower Upper
99 100
42 15.6 11.4 17.2
71 39.8 29.3 43.9

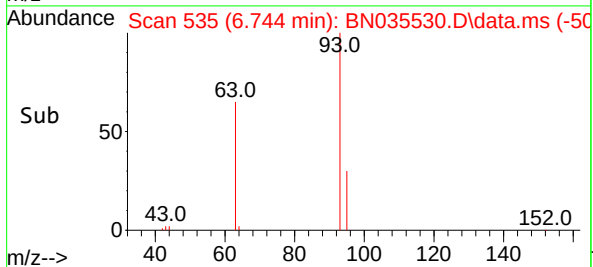
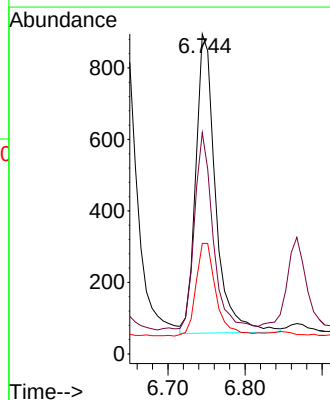
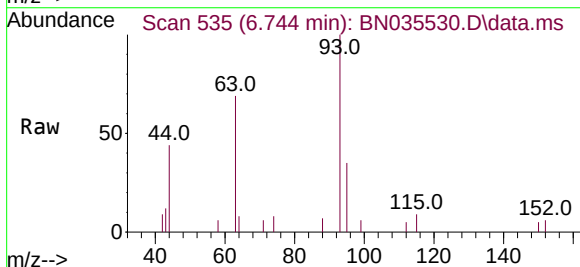
Manual Integrations
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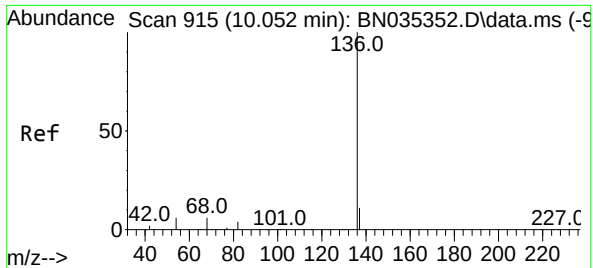
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

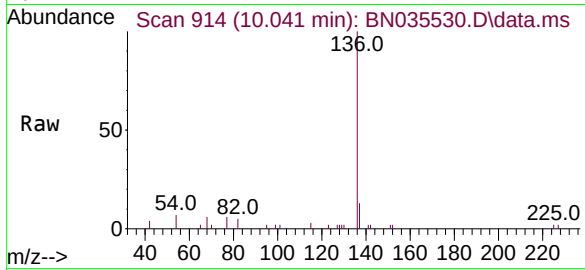
Tgt Ion: 93 Resp: 1499
Ion Ratio Lower Upper
93 100
63 62.6 50.4 75.6
95 31.0 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

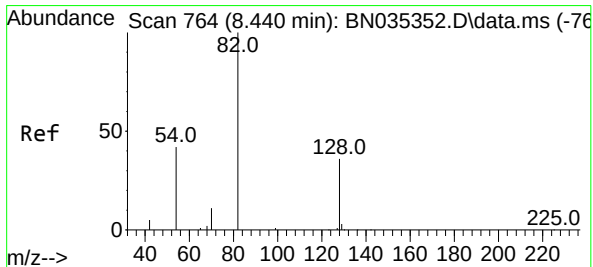
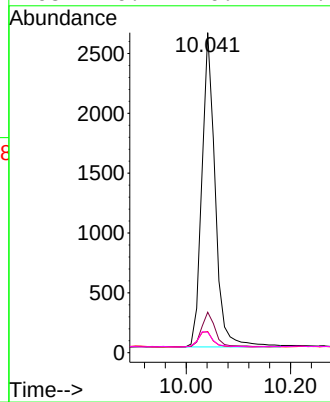
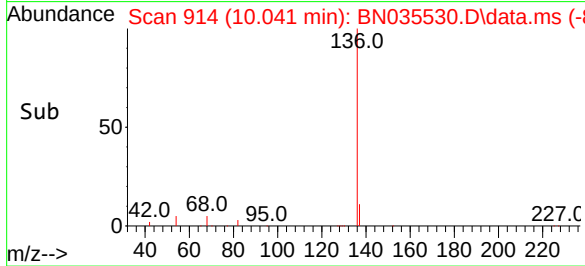
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 465
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 6.6 6.1 9.1
68 6.4 6.4 9.6

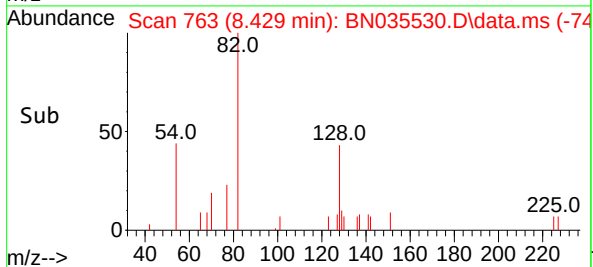
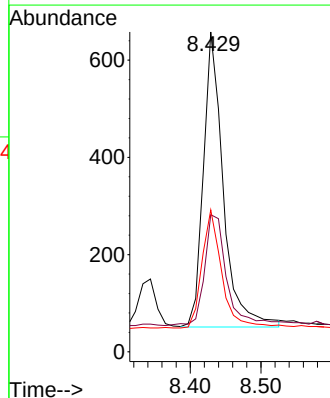
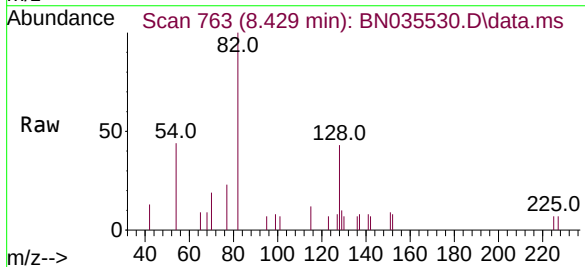
Manual Integrations
APPROVED

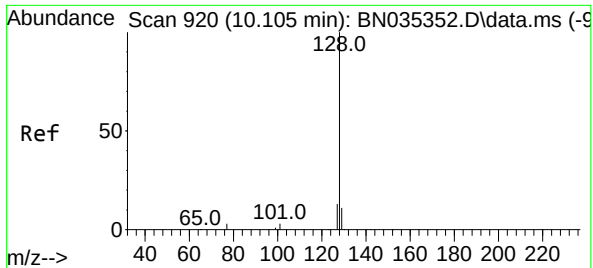
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.418 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 82 Resp: 1188
Ion Ratio Lower Upper
82 100
128 42.9 33.4 50.0
54 44.4 36.7 55.1





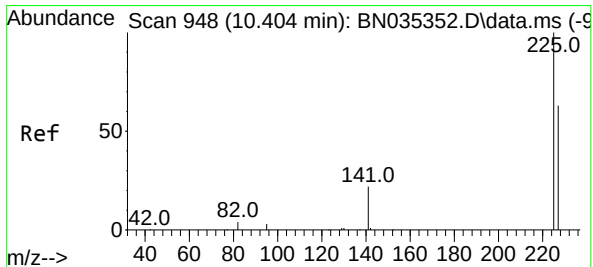
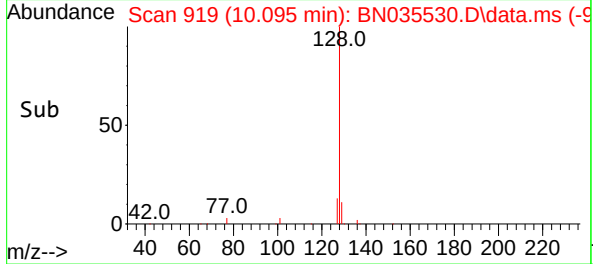
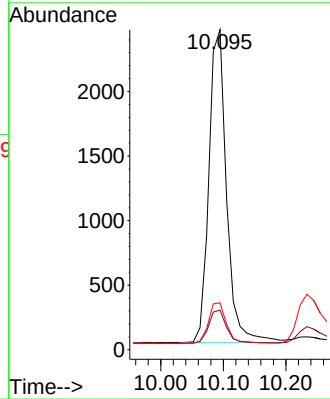
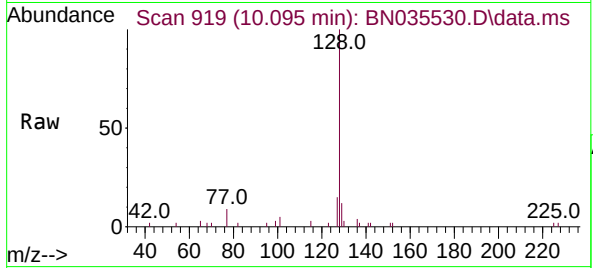
#9
Naphthalene
Concen: 0.387 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 475
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.6 11.4 17.2

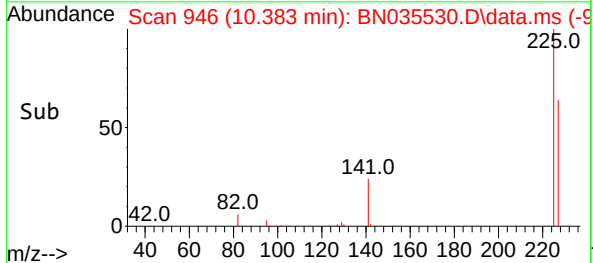
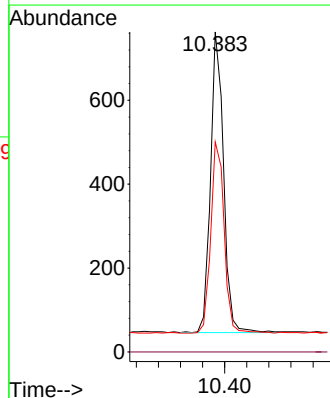
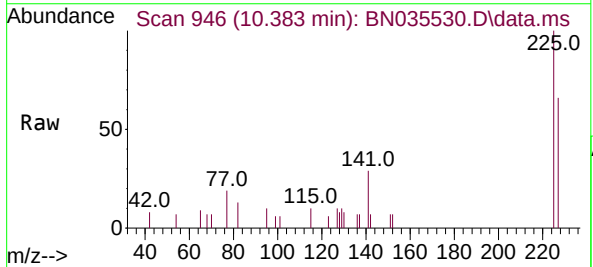
Manual Integrations
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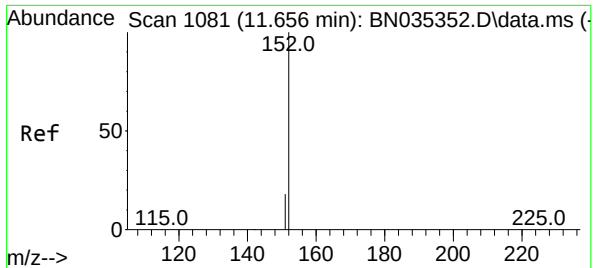
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

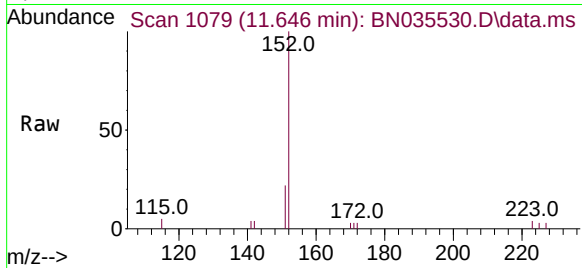
Tgt Ion:225 Resp: 1177
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

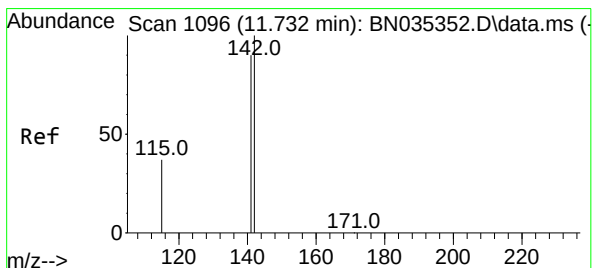
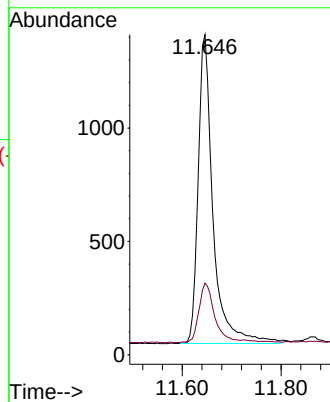
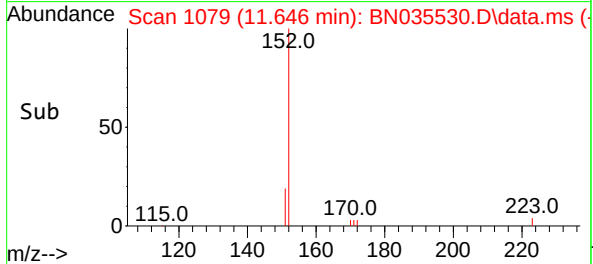
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 2835
Ion Ratio Lower Upper
152 100
151 20.1 16.6 25.0

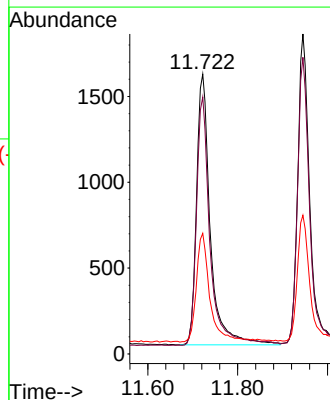
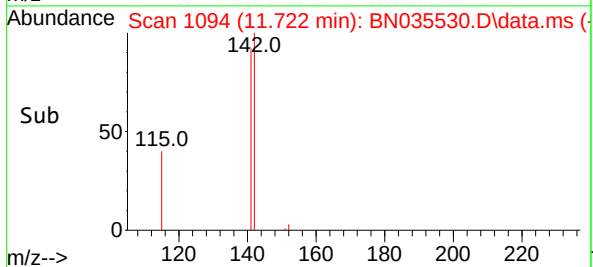
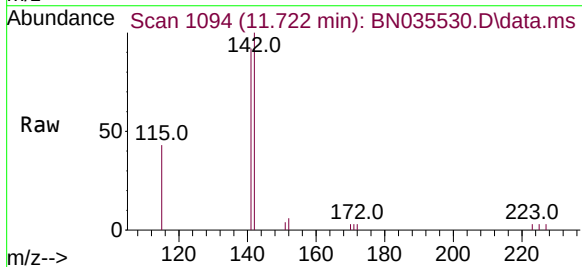
Manual Integrations
APPROVED

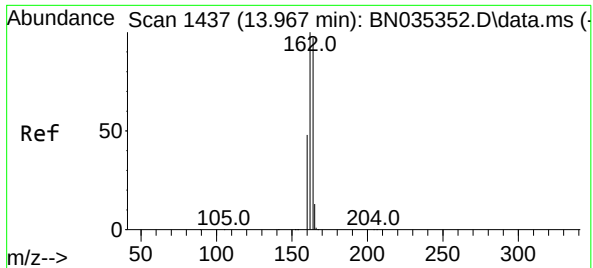
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

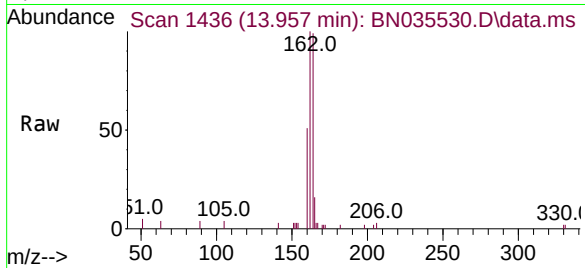
Tgt Ion:142 Resp: 3358
Ion Ratio Lower Upper
142 100
141 91.8 72.2 108.4
115 43.1 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

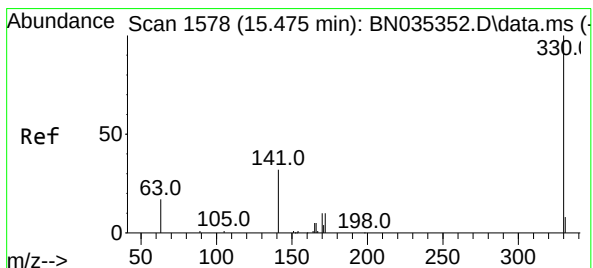
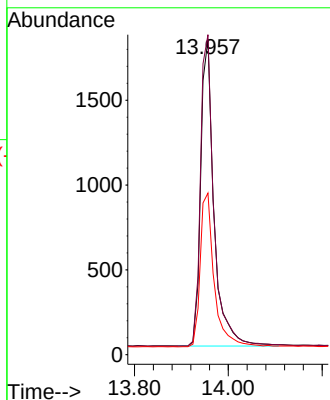
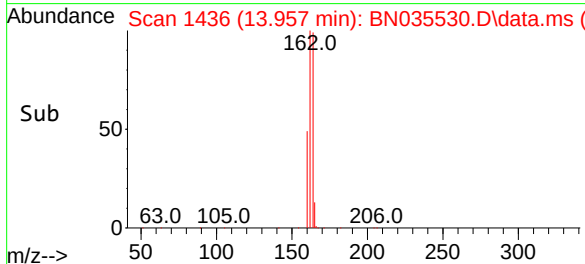
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 355
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 51.2 40.1 60.1

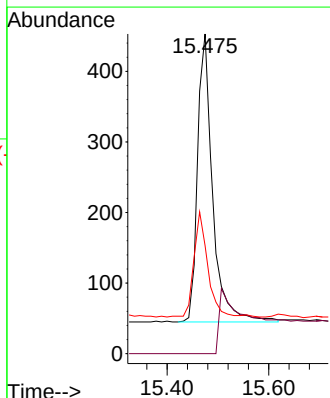
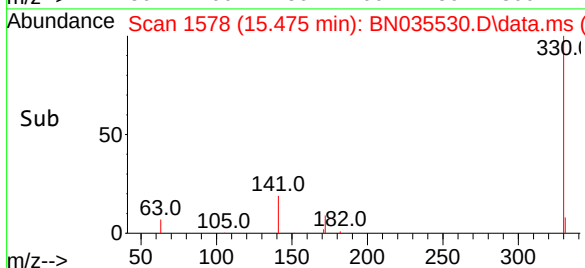
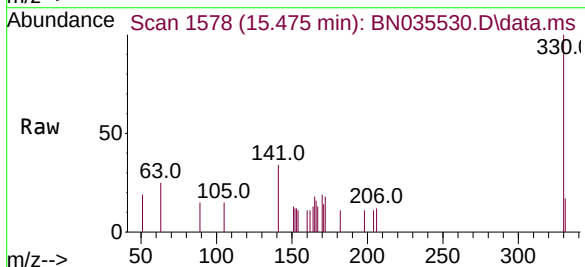
Manual Integrations
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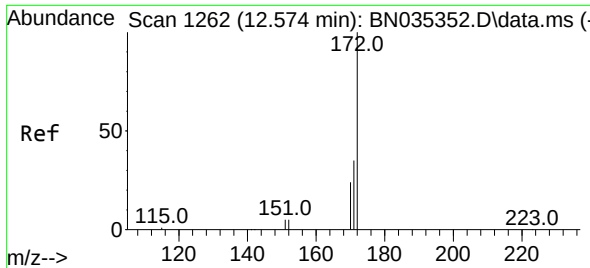
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

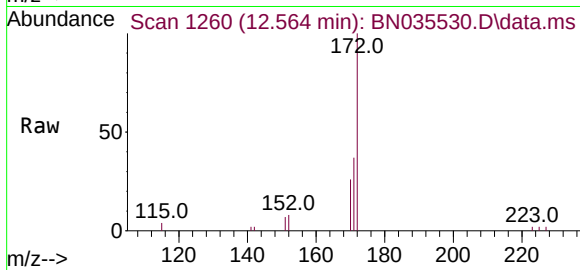
Tgt Ion:330 Resp: 899
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

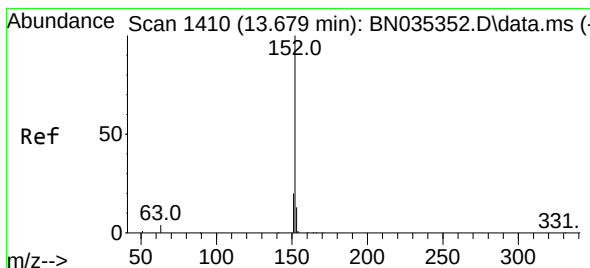
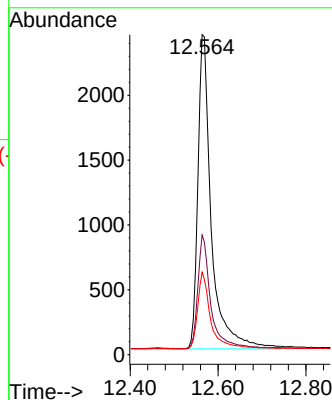
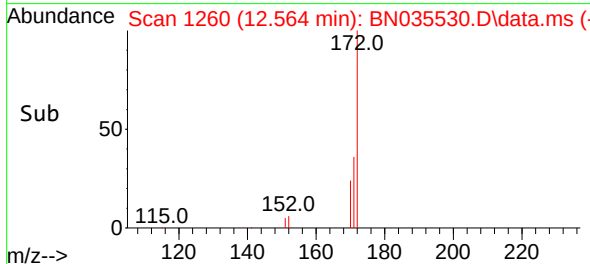
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 518
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.4
170 25.7 19.8 29.8

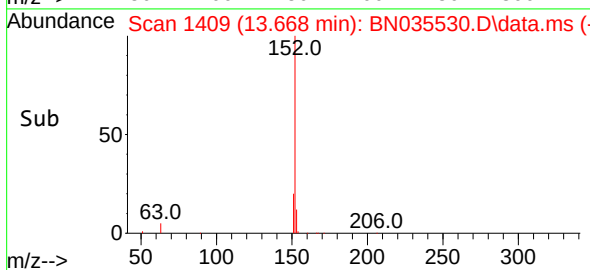
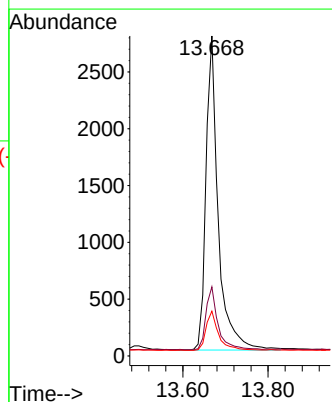
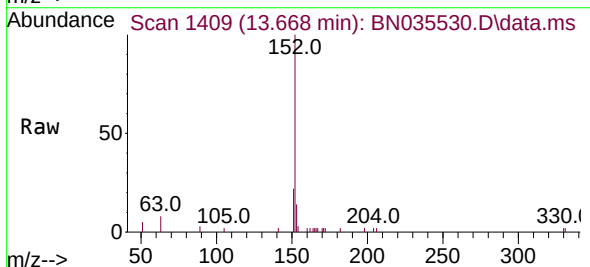
Manual Integrations
APPROVED

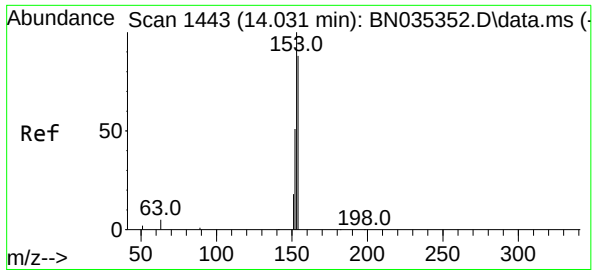
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

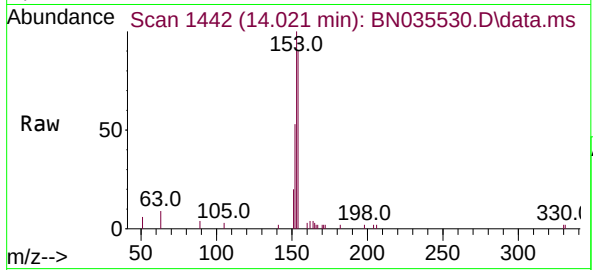
Tgt Ion:152 Resp: 5536
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 12.7 10.4 15.6





#17
Acenaphthene
Concen: 0.391 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

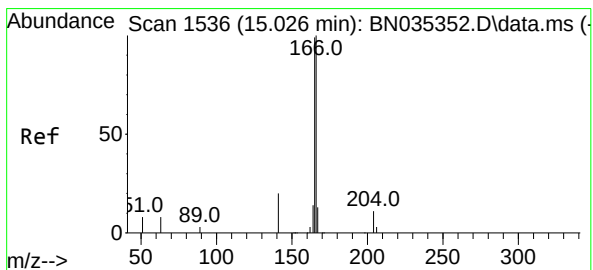
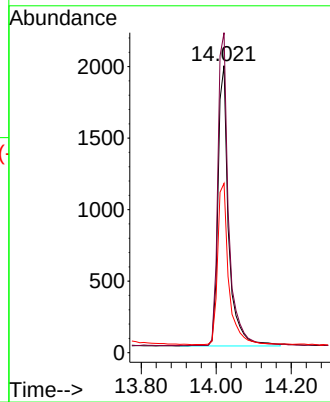
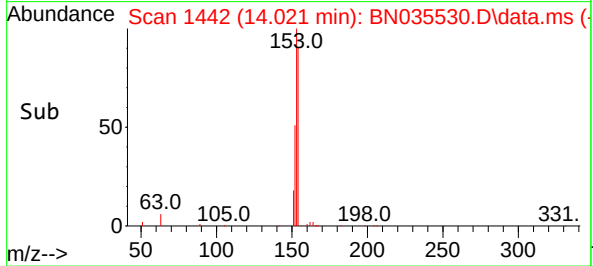
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 3879
Ion Ratio Lower Upper
154 100
153 113.4 92.6 139.0
152 59.7 49.0 73.6

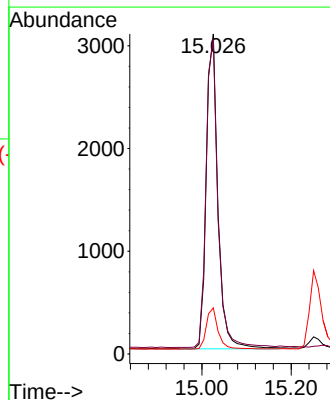
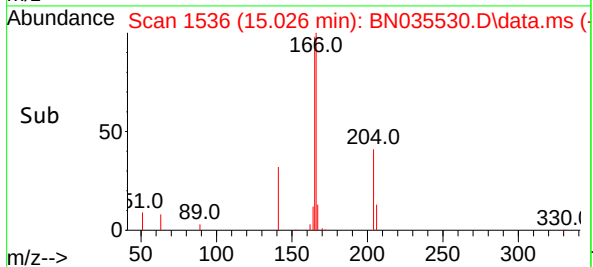
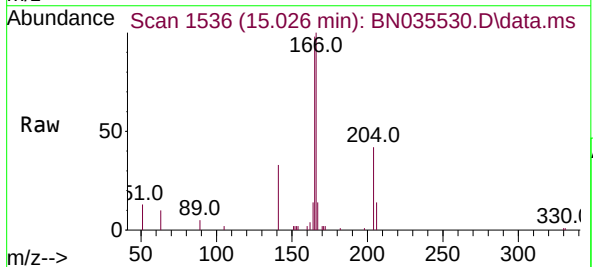
Manual Integrations
APPROVED

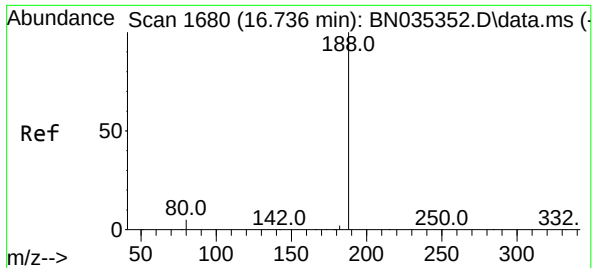
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.390 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:166 Resp: 5544
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 8829

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

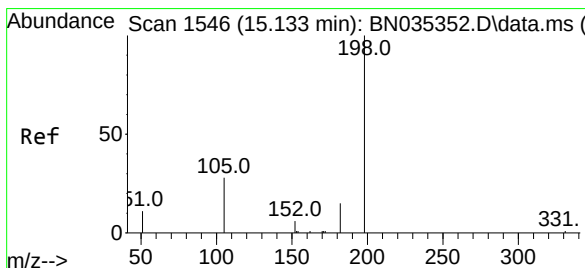
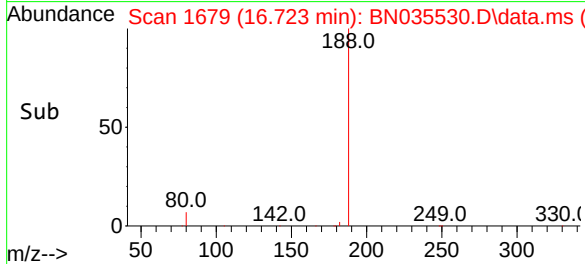
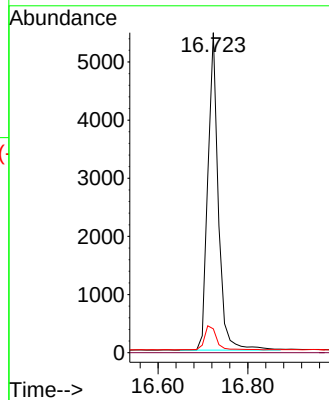
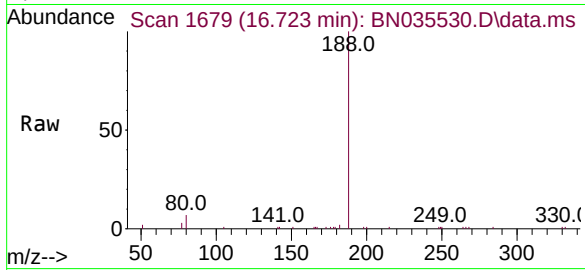
80 7.5 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

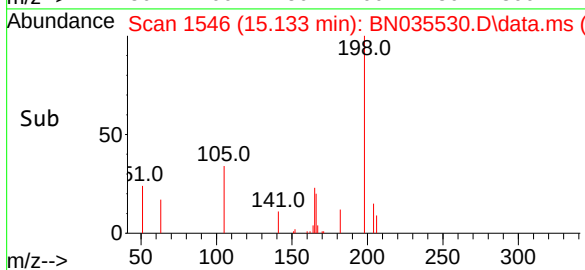
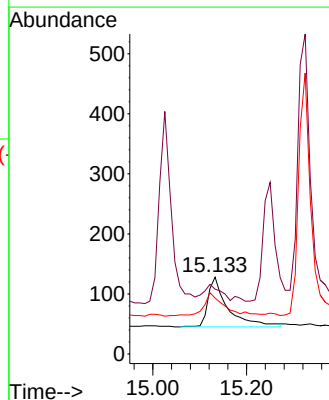
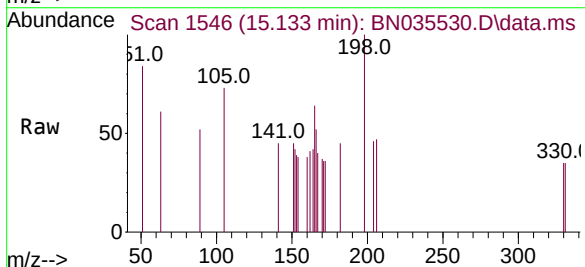
Tgt Ion:198 Resp: 246

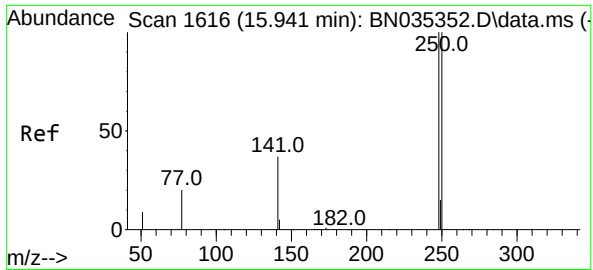
Ion Ratio Lower Upper

198 100

51 84.4 46.5 69.7#

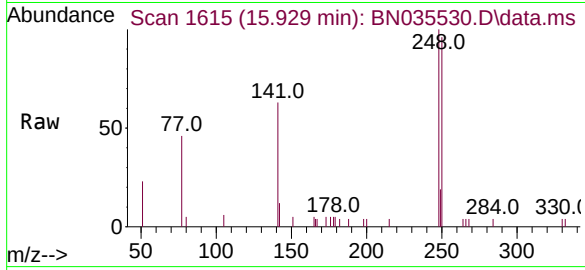
105 72.7 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

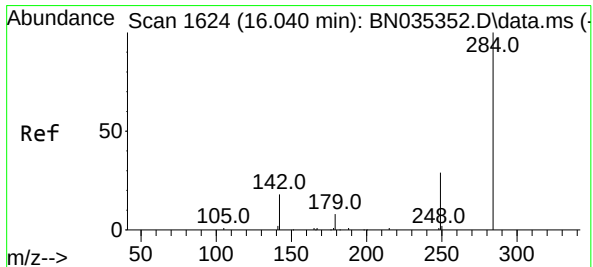
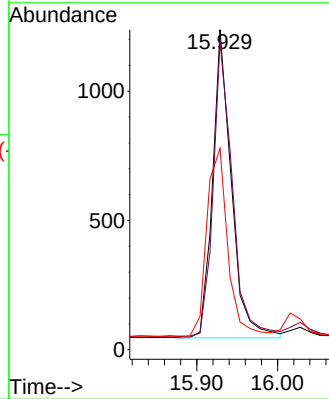
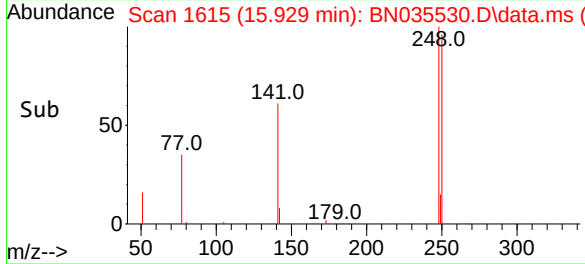
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 1928
Ion Ratio Lower Upper
248 100
250 96.2 80.6 120.8
141 62.9 31.5 47.3

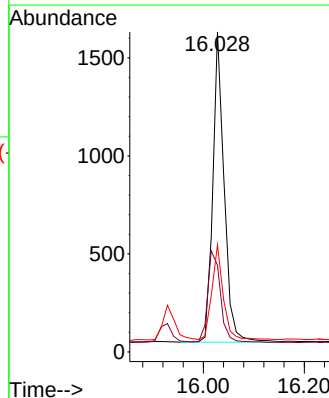
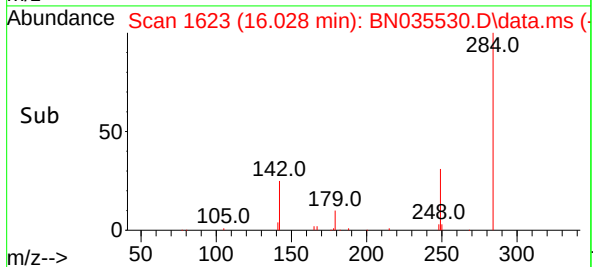
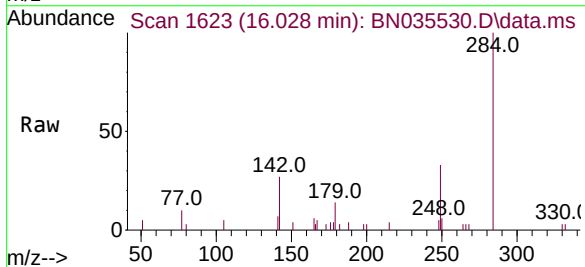
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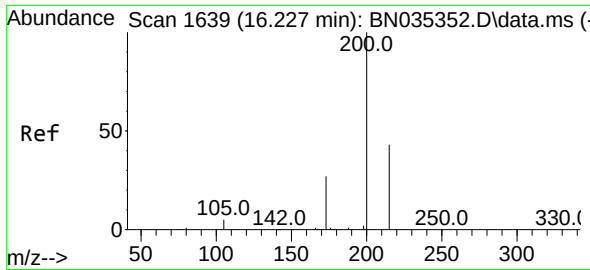
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

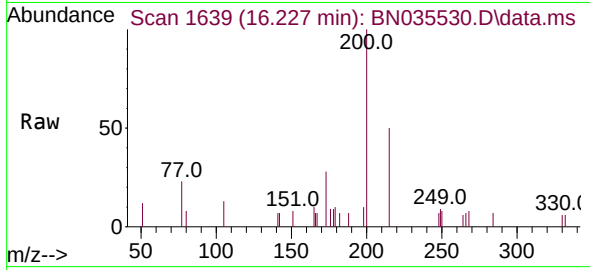
Tgt Ion:284 Resp: 2468
Ion Ratio Lower Upper
284 100
142 33.3 26.7 40.1
249 30.8 24.6 36.8





#23
Atrazine
Concen: 0.350 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

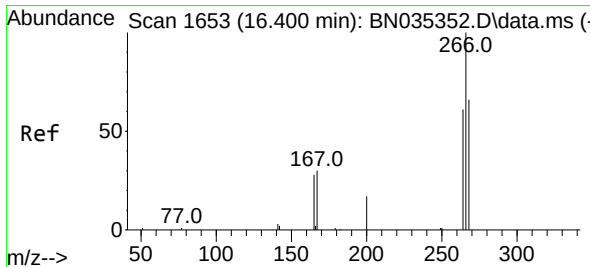
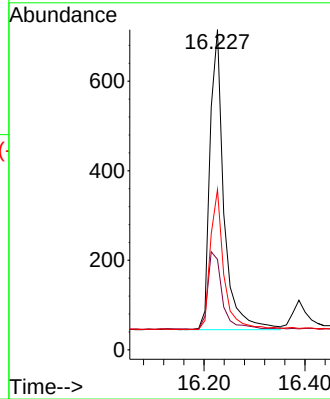
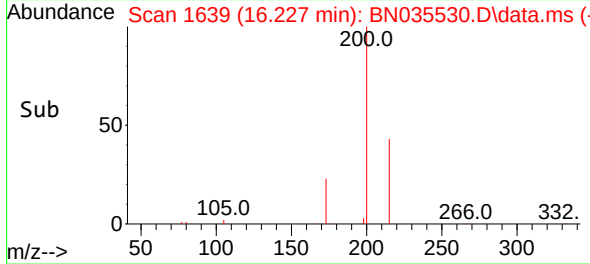
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 128
Ion Ratio Lower Upper
200 100
173 28.3 24.1 36.1
215 50.1 36.9 55.3

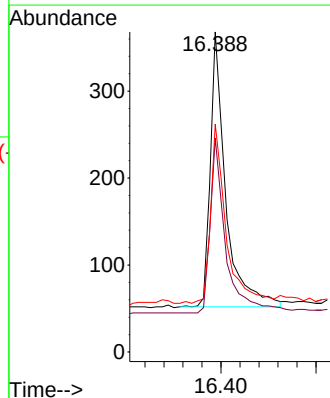
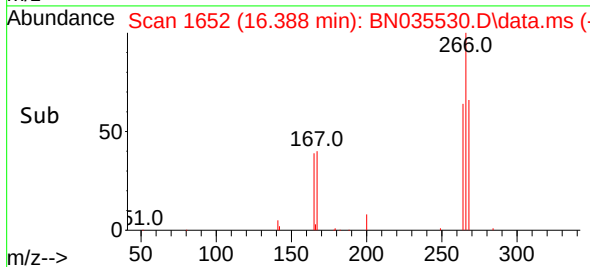
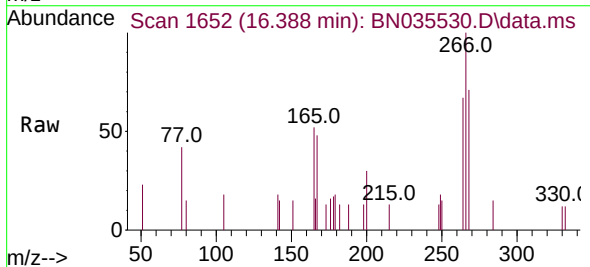
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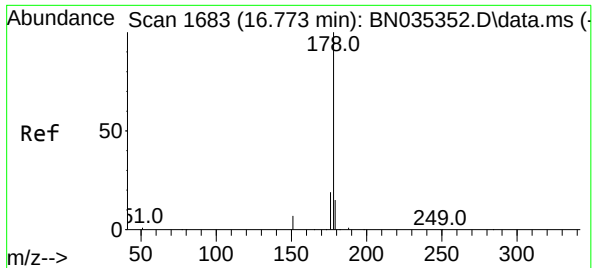
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.270 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

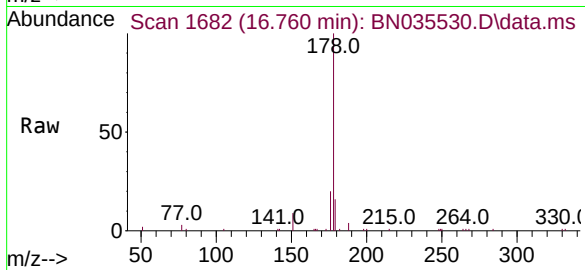
Tgt Ion:266 Resp: 713
Ion Ratio Lower Upper
266 100
264 64.1 42.3 63.5#
268 65.5 43.3 64.9#





#25
Phenanthrene
Concen: 0.379 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

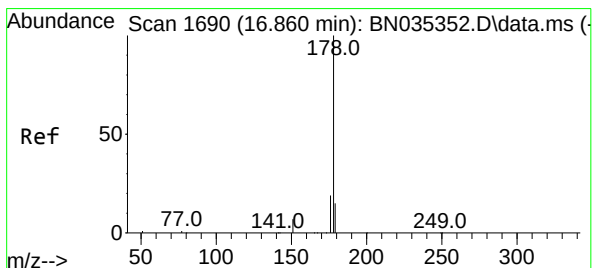
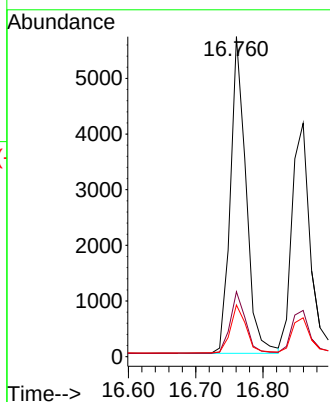
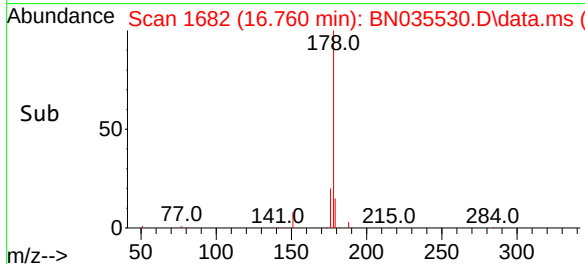
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 919
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

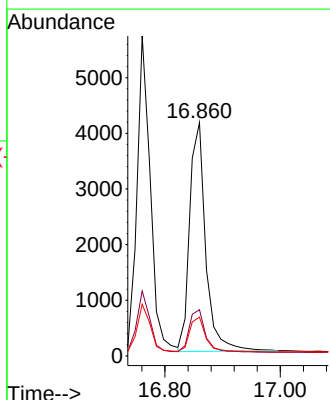
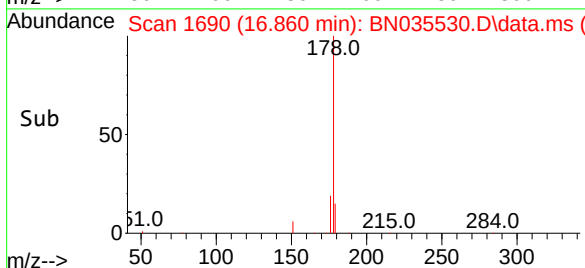
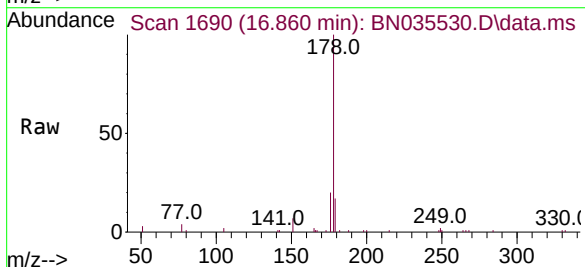
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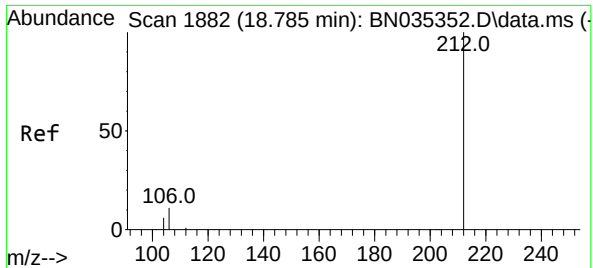
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.363 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:178 Resp: 7969
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.330 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

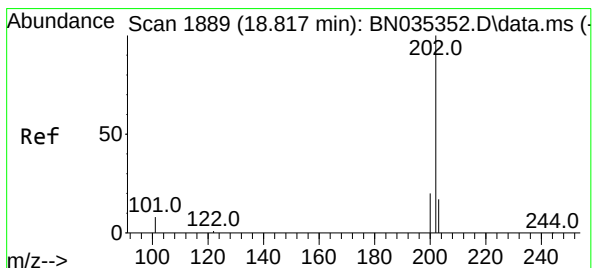
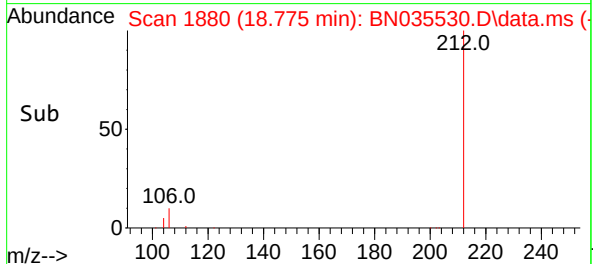
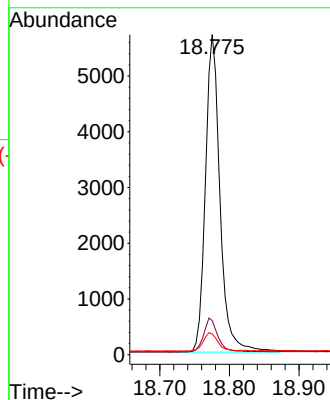
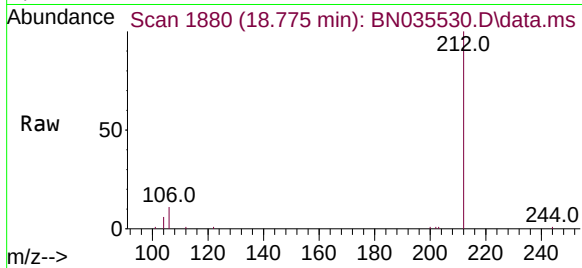
SSTDCCC0.4EC

Tgt Ion:	212	Resp:	8270
Ion	Ratio	Lower	Upper
212	100		
106	10.2	9.2	13.8
104	5.7	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#28

Fluoranthene

Concen: 0.332 ng

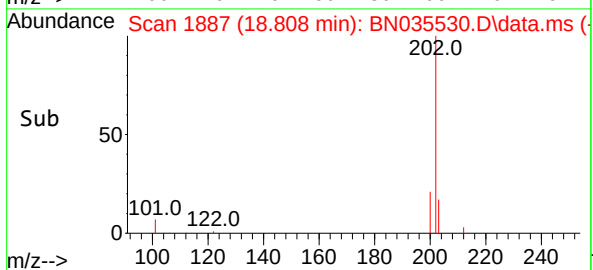
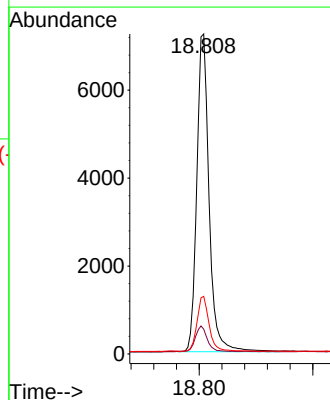
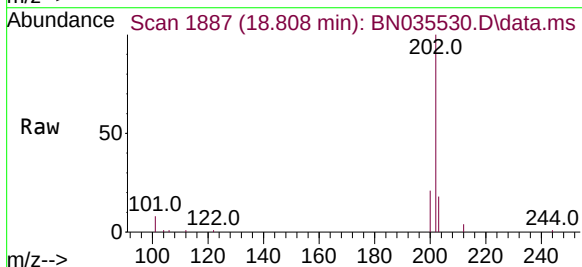
RT: 18.808 min Scan# 1887

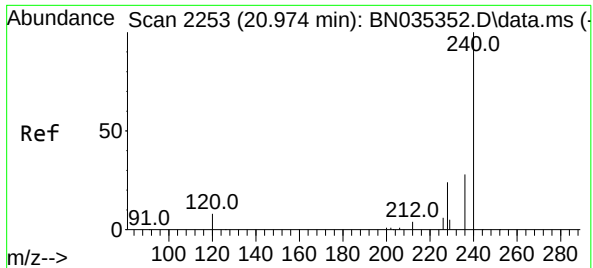
Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Tgt Ion:	202	Resp:	10852
Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.4	11.0
203	16.9	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 703

Ion Ratio Lower Upper

240 100

120 9.4 7.9 11.9

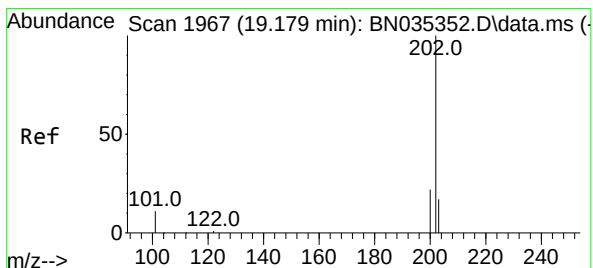
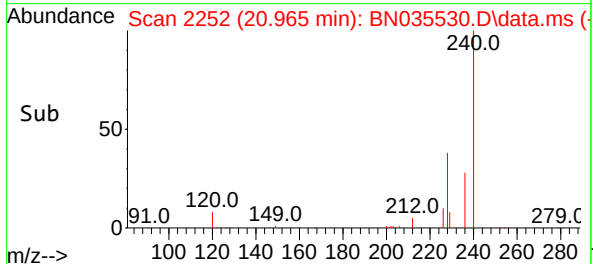
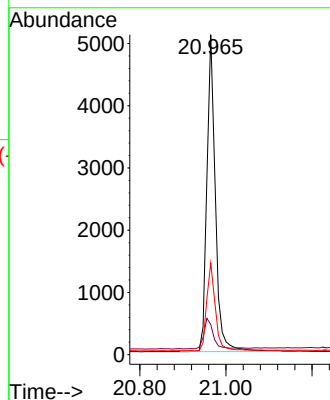
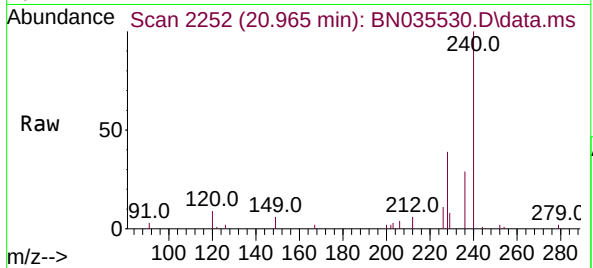
236 28.7 22.9 34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#30

Pyrene

Concen: 0.425 ng

RT: 19.170 min Scan# 1965

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

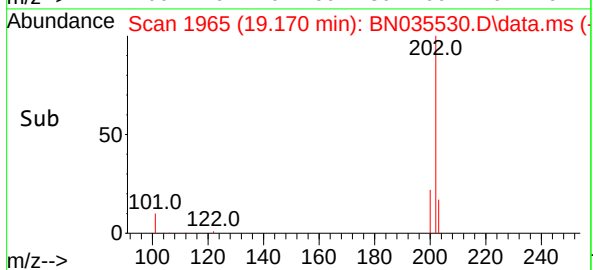
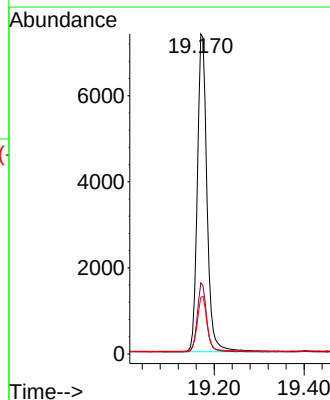
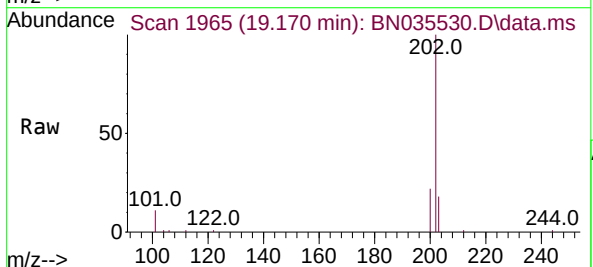
Tgt Ion:202 Resp: 11027

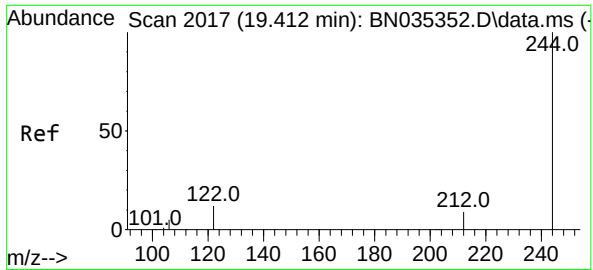
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5





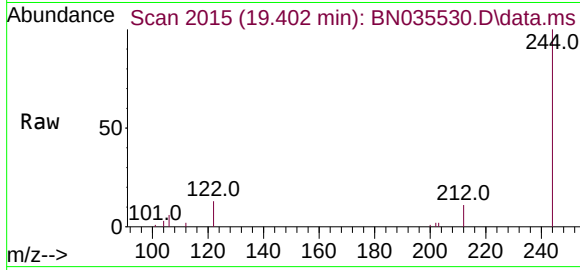
#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.402 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



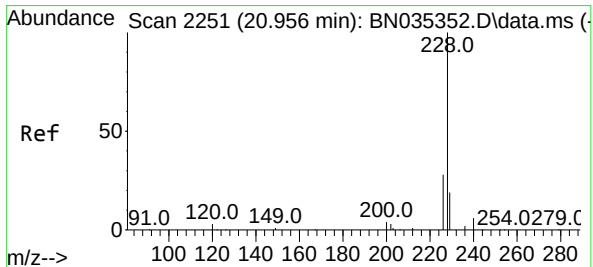
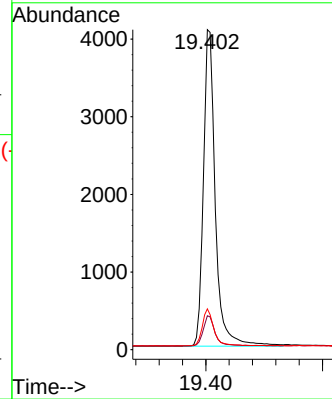
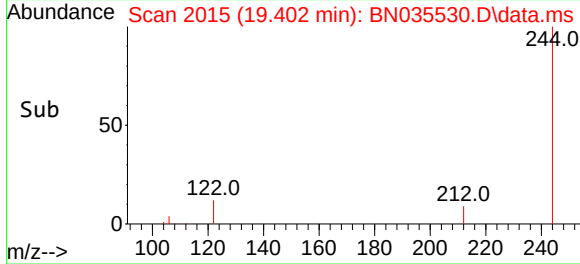
Tgt Ion:244 Resp: 5792
Ion Ratio Lower Upper
244 100
212 10.6 8.1 12.1
122 12.8 10.3 15.5

Manual Integrations

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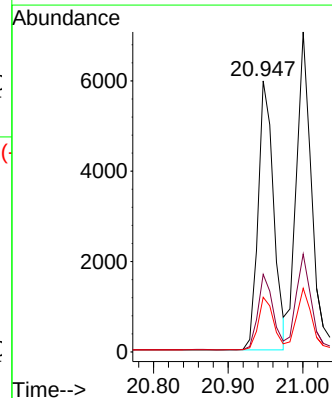
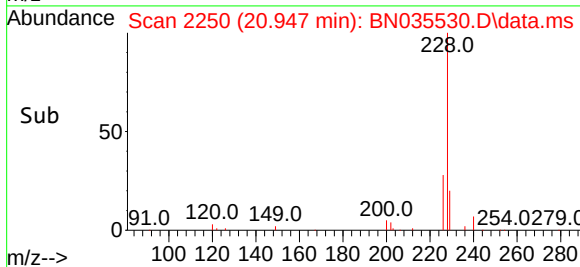
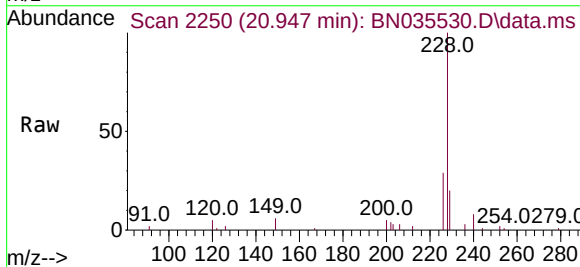
Reviewed By :Yogesh Patel 12/11/2024

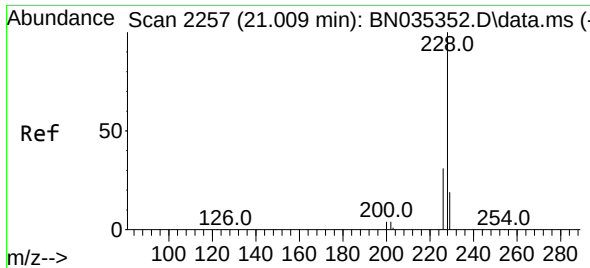
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

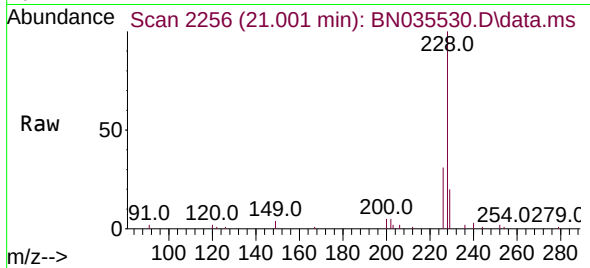
Tgt Ion:228 Resp: 8623
Ion Ratio Lower Upper
228 100
226 28.7 22.5 33.7
229 20.2 15.8 23.8





#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 2101
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

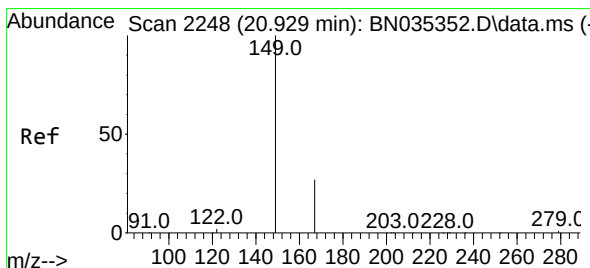
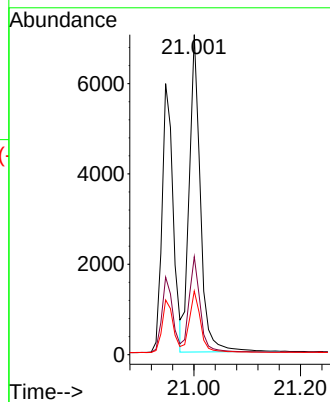
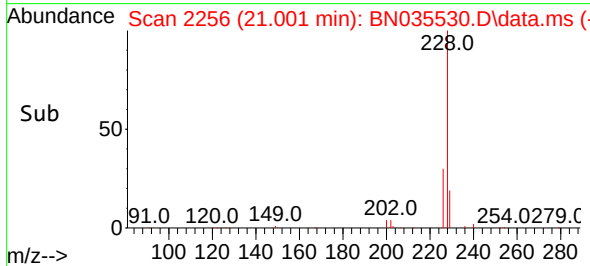
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 1014
Ion Ratio Lower Upper
228 100
226 30.6 24.6 37.0
229 19.9 15.9 23.9

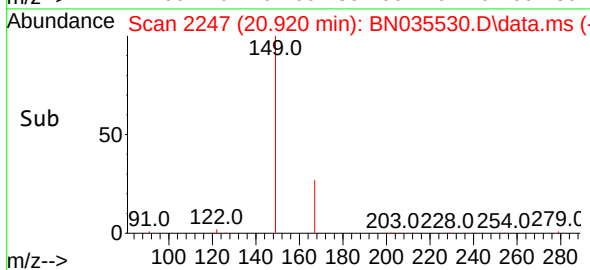
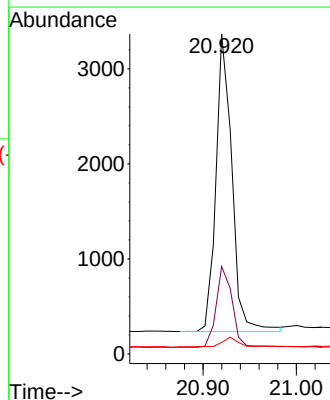
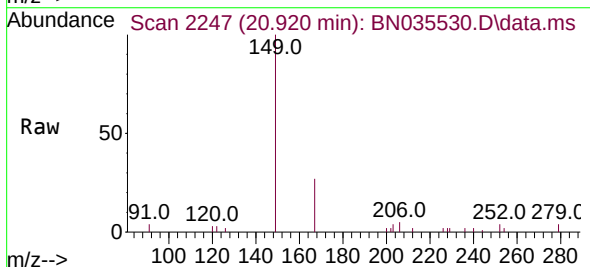
Manual Integrations
APPROVED

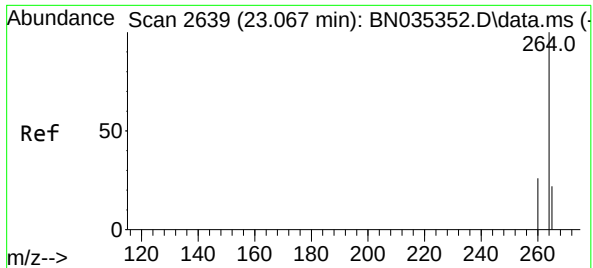
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.382 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

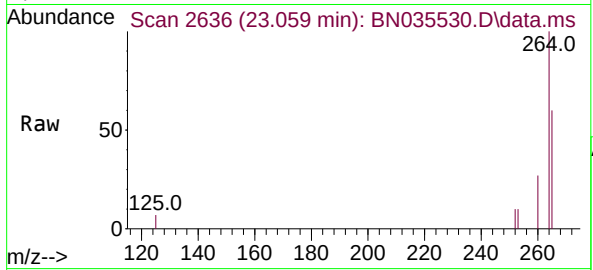
Tgt Ion:149 Resp: 3712
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.8 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

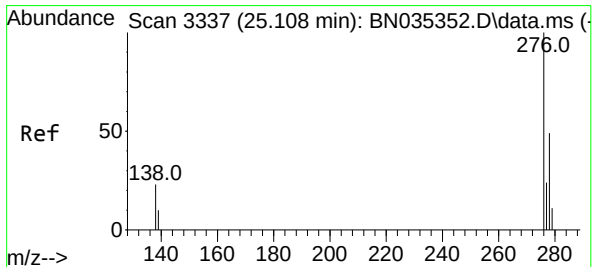
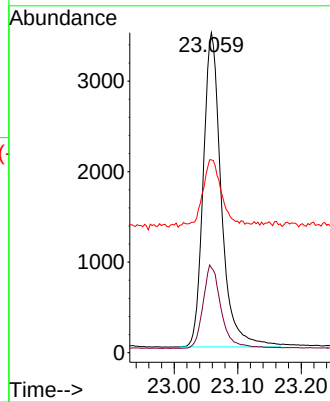
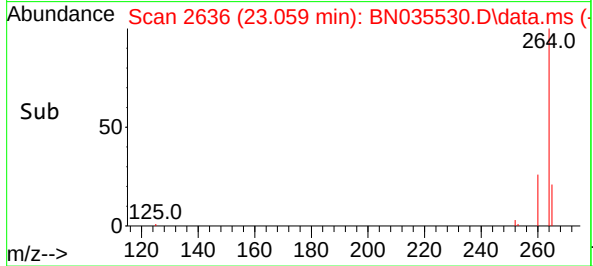
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 6870
Ion Ratio Lower Upper
264 100
260 26.5 21.4 32.2
265 60.3 40.2 60.4

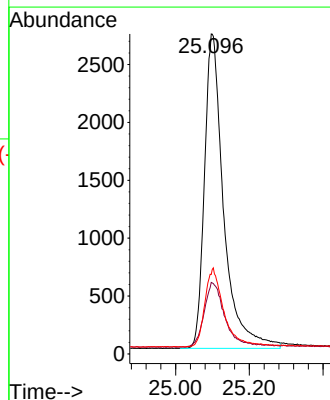
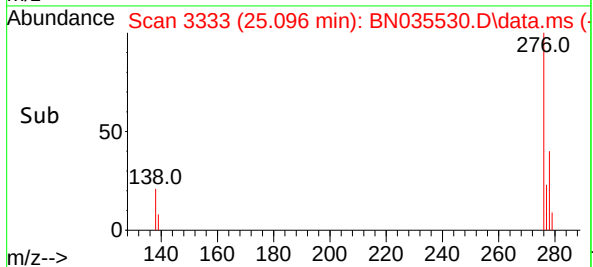
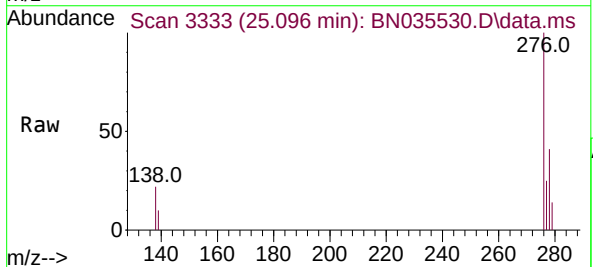
Manual Integrations
APPROVED

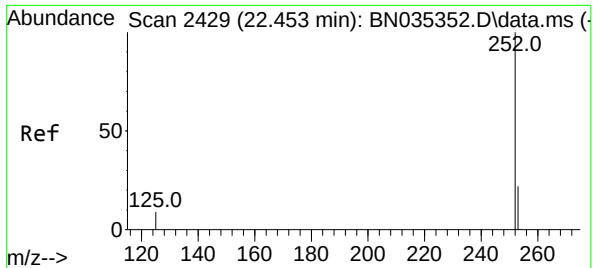
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:276 Resp: 9828
Ion Ratio Lower Upper
276 100
138 21.8 19.4 29.0
277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.493 ng

RT: 22.445 min Scan# 2426

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 12398

Ion Ratio Lower Upper

252 100

253 25.3 19.6 29.4

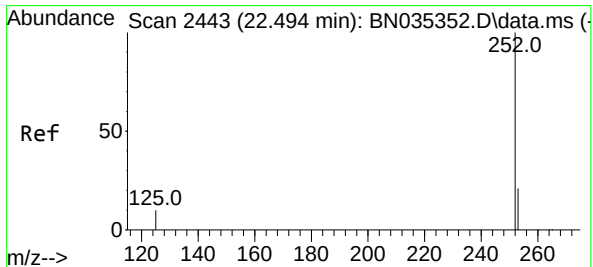
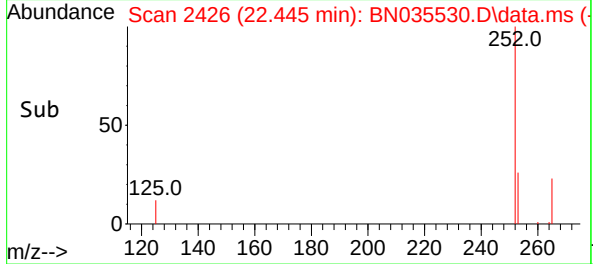
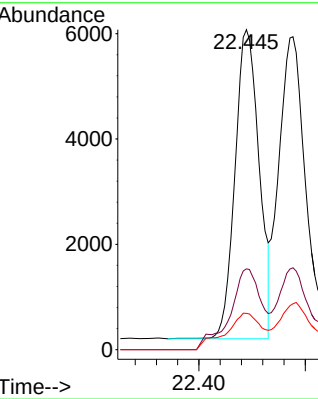
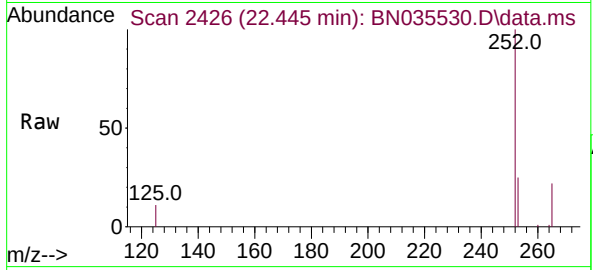
125 11.4 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

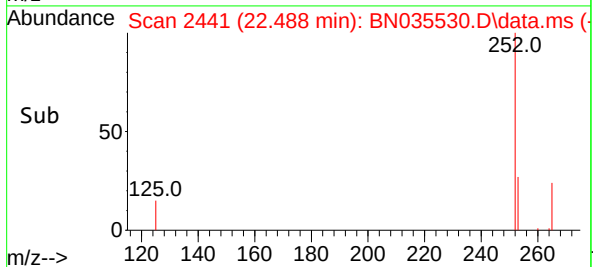
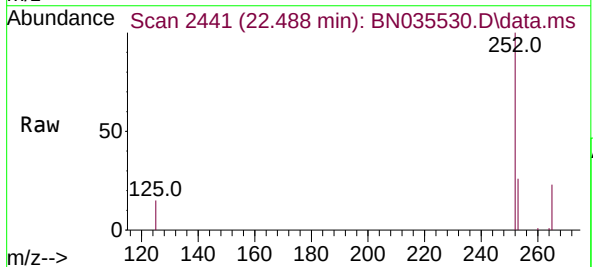
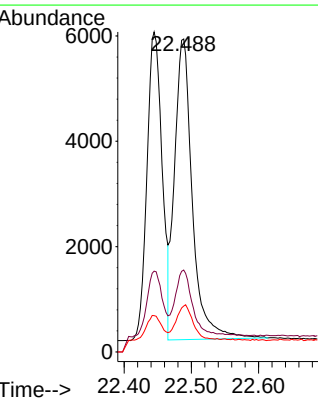
Tgt Ion:252 Resp: 10500

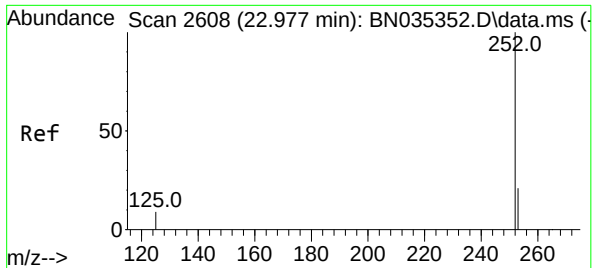
Ion Ratio Lower Upper

252 100

253 26.2 19.5 29.3

125 14.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 22.968 min Scan# 2605

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

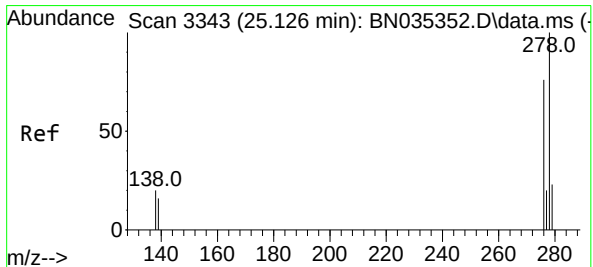
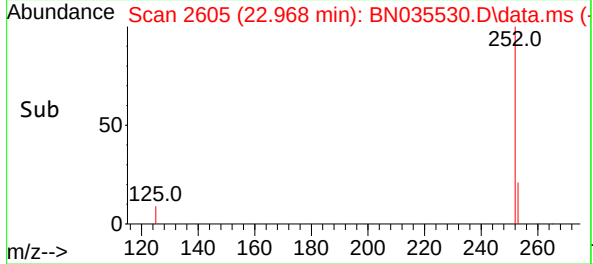
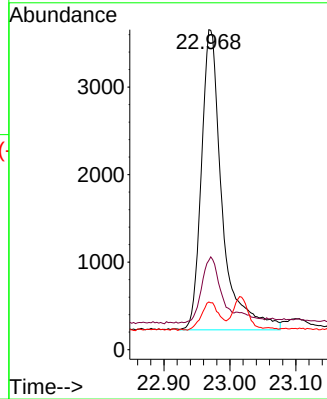
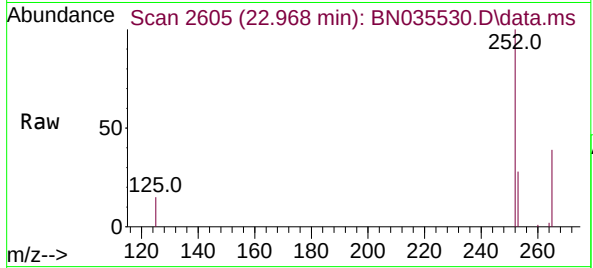
Tgt Ion:	252	Resp:	750
Ion Ratio	Lower	Upper	
252	100		
253	27.9	20.2	30.4
125	14.9	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.349 ng

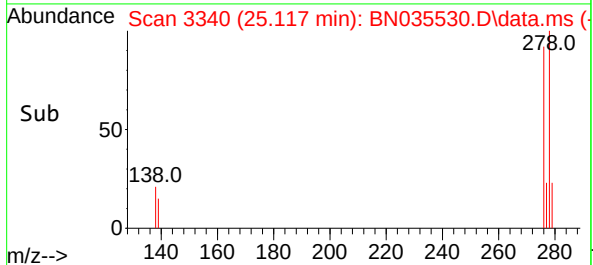
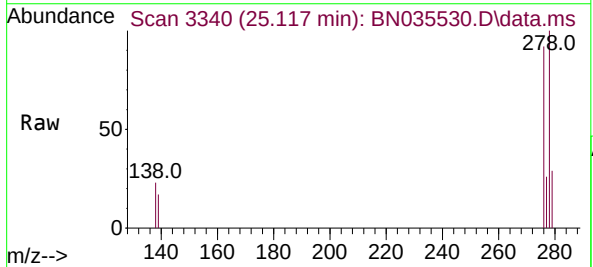
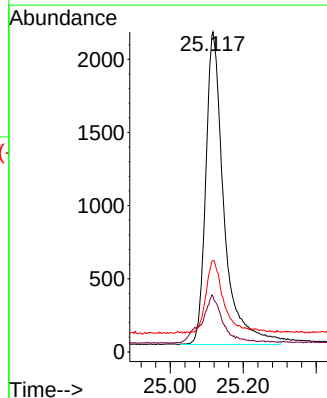
RT: 25.117 min Scan# 3340

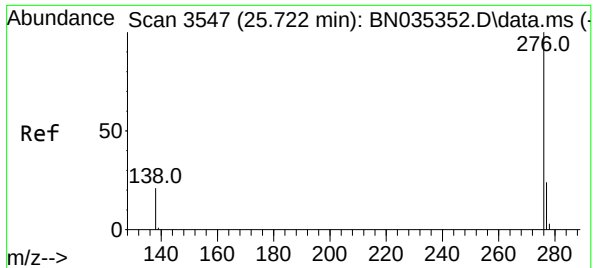
Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Tgt Ion:	278	Resp:	7400
Ion Ratio	Lower	Upper	
278	100		
139	17.4	14.2	21.4
279	28.5	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 25.707 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN035530.D

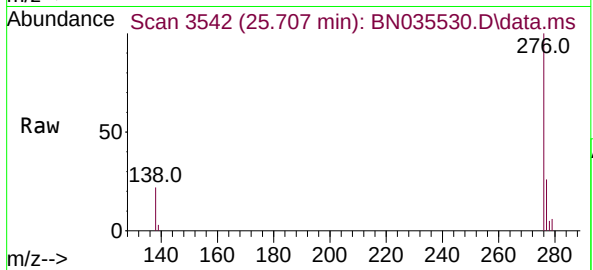
Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 823

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

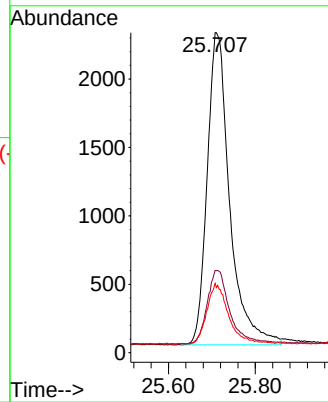
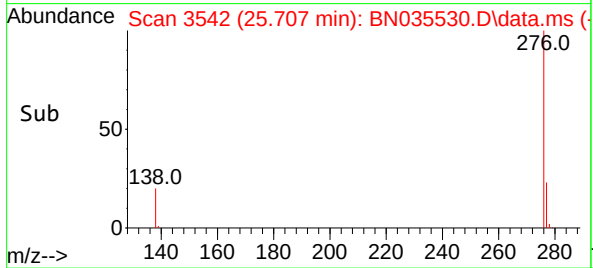
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035530.D
 Acq On : 10 Dec 2024 12:40
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 13:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	81	-0.01
2	1,4-Dioxane	0.382	0.377	1.3	81	0.00
3	n-Nitrosodimethylamine	0.319	0.321	-0.6	79	0.00
4 S	2-Fluorophenol	1.001	0.987	1.4	78	-0.01
5 S	Phenol-d6	1.204	1.206	-0.2	81	-0.01
6	bis(2-Chloroethyl)ether	1.012	0.909	10.2	74	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.244	0.255	-4.5	97	-0.01
9	Naphthalene	1.055	1.021	3.2	87	-0.01
10	Hexachlorobutadiene	0.243	0.253	-4.1	91	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.609	2.7	88	-0.01
12	2-Methylnaphthalene	0.755	0.722	4.4	87	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	94	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.253	10.9	92	0.00
15 S	2-Fluorobiphenyl	1.512	1.456	3.7	90	-0.01
16	Acenaphthylene	1.680	1.555	7.4	91	-0.01
17	Acenaphthene	1.115	1.090	2.2	94	-0.01
18	Fluorene	1.596	1.558	2.4	95	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.028	28.2#	73	0.00
21	4-Bromophenyl-phenylether	0.234	0.218	6.8	90	-0.01
22	Hexachlorobenzene	0.275	0.280	-1.8	95	-0.01
23	Atrazine	0.167	0.146	12.6	88	0.00
24	Pentachlorophenol	0.120	0.081	32.5#	79	-0.01
25	Phenanthrene	1.099	1.041	5.3	91	-0.01
26	Anthracene	0.994	0.903	9.2	89	0.00
27 SURR	Fluoranthene-d10	1.134	0.937	17.4	81	0.00
28	Fluoranthene	1.481	1.229	17.0	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	74	0.00
30	Pyrene	1.477	1.567	-6.1	78	0.00
31 S	Terphenyl-d14	0.789	0.823	-4.3	77	0.00
32	Benzo(a)anthracene	1.399	1.225	12.4	67	0.00
33	Chrysene	1.443	1.441	0.1	74	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.527	4.7	76	0.00
35 I	Perylene-d12	1.000	1.000	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.429	8.6	59	-0.01
37	Benzo(b)fluoranthene	1.463	1.803	-23.2	87	0.00
38	Benzo(k)fluoranthene	1.440	1.527	-6.0	69	0.00
39 C	Benzo(a)pyrene	1.205	1.091	9.5	60	0.00
40	Dibenzo(a,h)anthracene	1.234	1.076	12.8	57	0.00
41	Benzo(g,h,i)perylene	1.289	1.197	7.1	61	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035530.D
 Acq On : 10 Dec 2024 12:40
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 13:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 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	81	-0.01
2	1,4-Dioxane	0.400	0.395	1.3	81	0.00
3	n-Nitrosodimethylamine	0.400	0.403	-0.8	79	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	78	-0.01
5 S	Phenol-d6	0.400	0.401	-0.3	81	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.359	10.3	74	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.400	0.418	-4.5	97	-0.01
9	Naphthalene	0.400	0.387	3.3	87	-0.01
10	Hexachlorobutadiene	0.400	0.416	-4.0	91	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	88	-0.01
12	2-Methylnaphthalene	0.400	0.382	4.5	87	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	94	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.356	11.0	92	0.00
15 S	2-Fluorobiphenyl	0.400	0.385	3.8	90	-0.01
16	Acenaphthylene	0.400	0.370	7.5	91	-0.01
17	Acenaphthene	0.400	0.391	2.3	94	-0.01
18	Fluorene	0.400	0.390	2.5	95	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.283	29.3#	73	0.00
21	4-Bromophenyl-phenylether	0.400	0.373	6.8	90	-0.01
22	Hexachlorobenzene	0.400	0.407	-1.7	95	-0.01
23	Atrazine	0.400	0.350	12.5	88	0.00
24	Pentachlorophenol	0.400	0.270	32.5#	79	-0.01
25	Phenanthrene	0.400	0.379	5.3	91	-0.01
26	Anthracene	0.400	0.363	9.3	89	0.00
27 SURR	Fluoranthene-d10	0.400	0.330	17.5	81	0.00
28	Fluoranthene	0.400	0.332	17.0	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	74	0.00
30	Pyrene	0.400	0.425	-6.2	78	0.00
31 S	Terphenyl-d14	0.400	0.417	-4.2	77	0.00
32	Benzo(a)anthracene	0.400	0.350	12.5	67	0.00
33	Chrysene	0.400	0.400	0.0	74	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.382	4.5	76	0.00
35 I	Perylene-d12	0.400	0.400	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.366	8.5	59	-0.01
37	Benzo(b)fluoranthene	0.400	0.493	-23.2	87	0.00
38	Benzo(k)fluoranthene	0.400	0.424	-6.0	69	0.00
39 C	Benzo(a)pyrene	0.400	0.362	9.5	60	0.00
40	Dibenzo(a,h)anthracene	0.400	0.349	12.8	57	0.00
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	61	-0.01

(#) = Out of Range

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



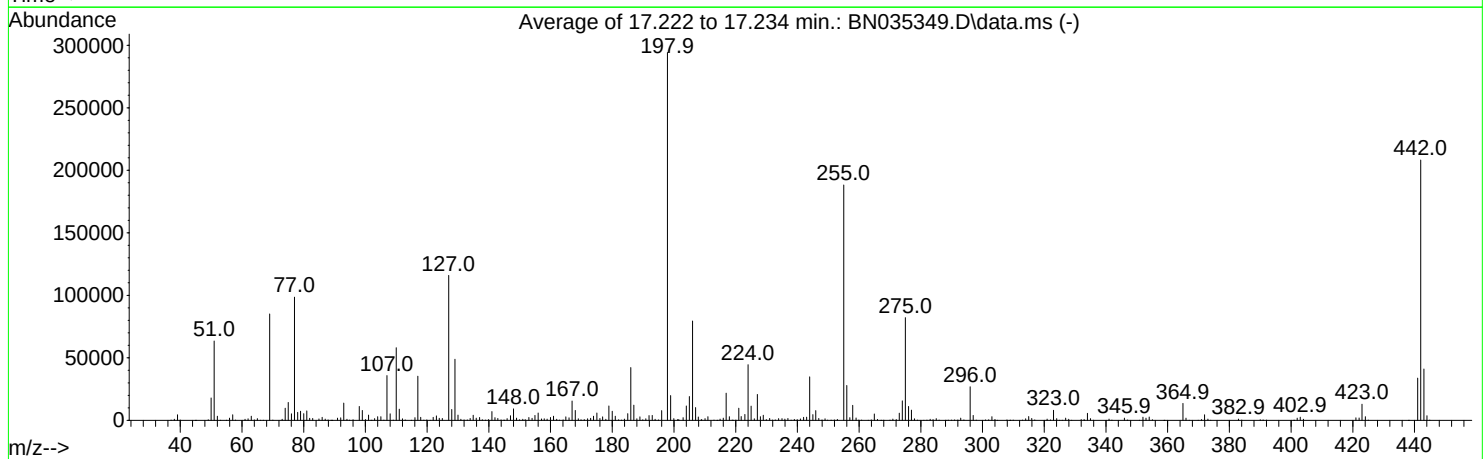
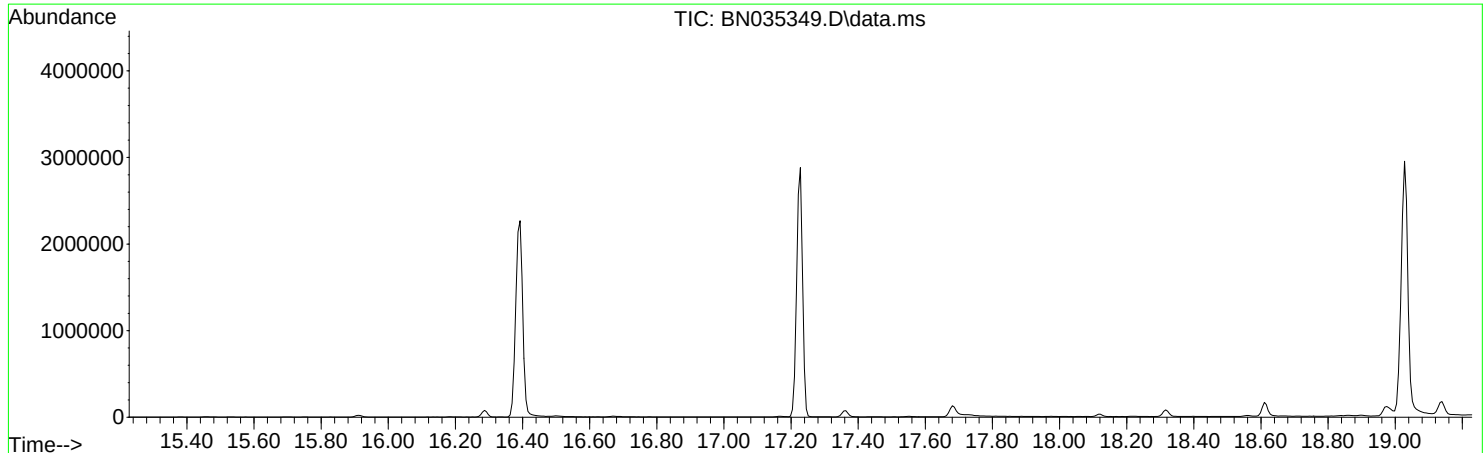
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



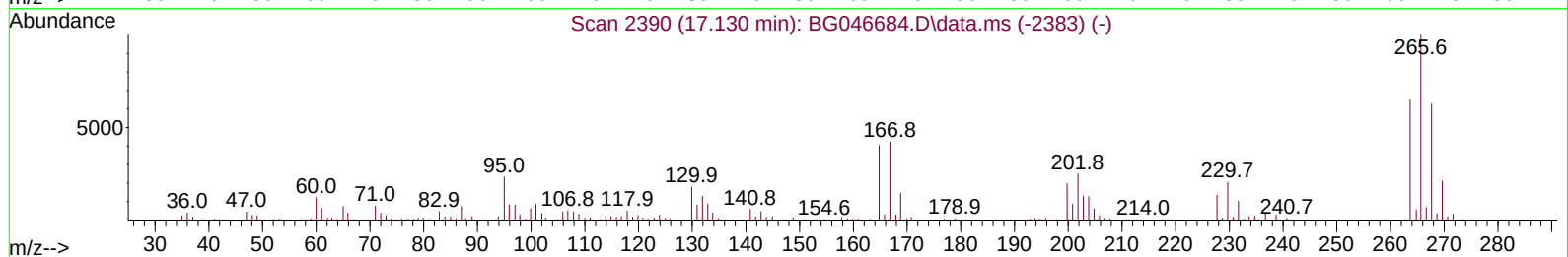
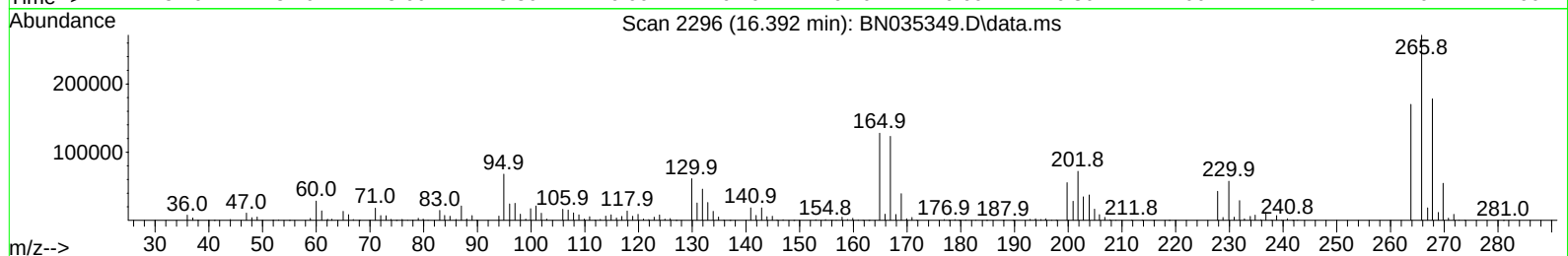
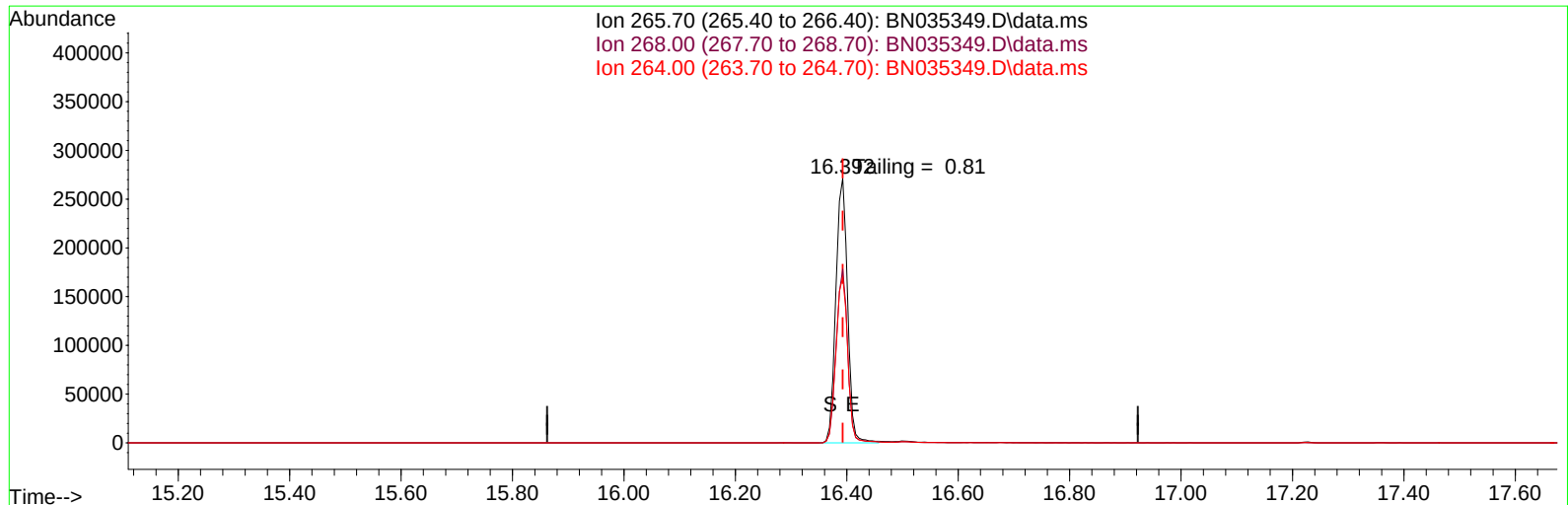
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.6	63480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.9	85062	PASS
70	69	0.00	2	0.4	303	PASS
127	198	10	80	39.4	115899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	294229	PASS
199	198	5	9	6.7	19826	PASS
275	198	10	60	27.9	82149	PASS
365	198	1	100	4.6	13565	PASS
441	198	0.01	100	11.5	33811	PASS
442	442	50	100	100.0	208235	PASS
443	442	15	24	19.7	41045	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration



TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

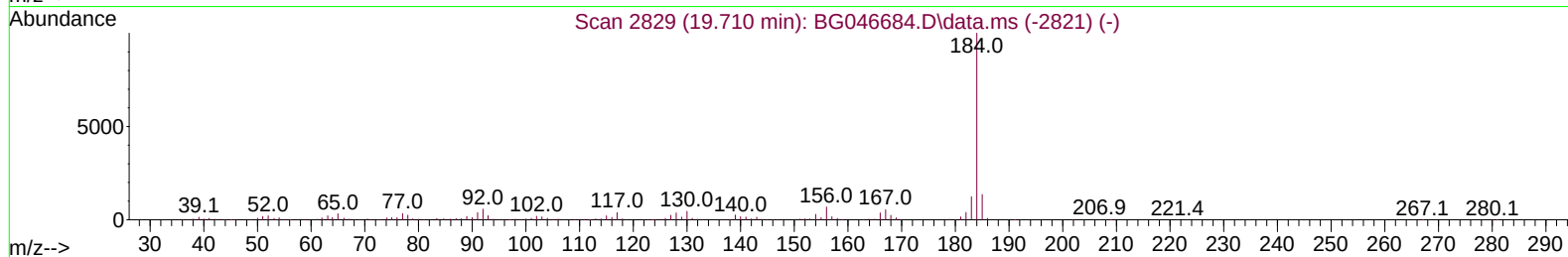
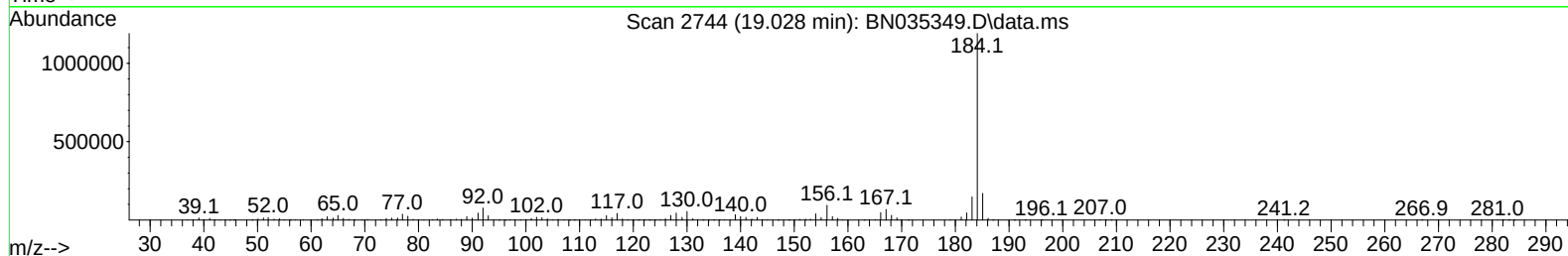
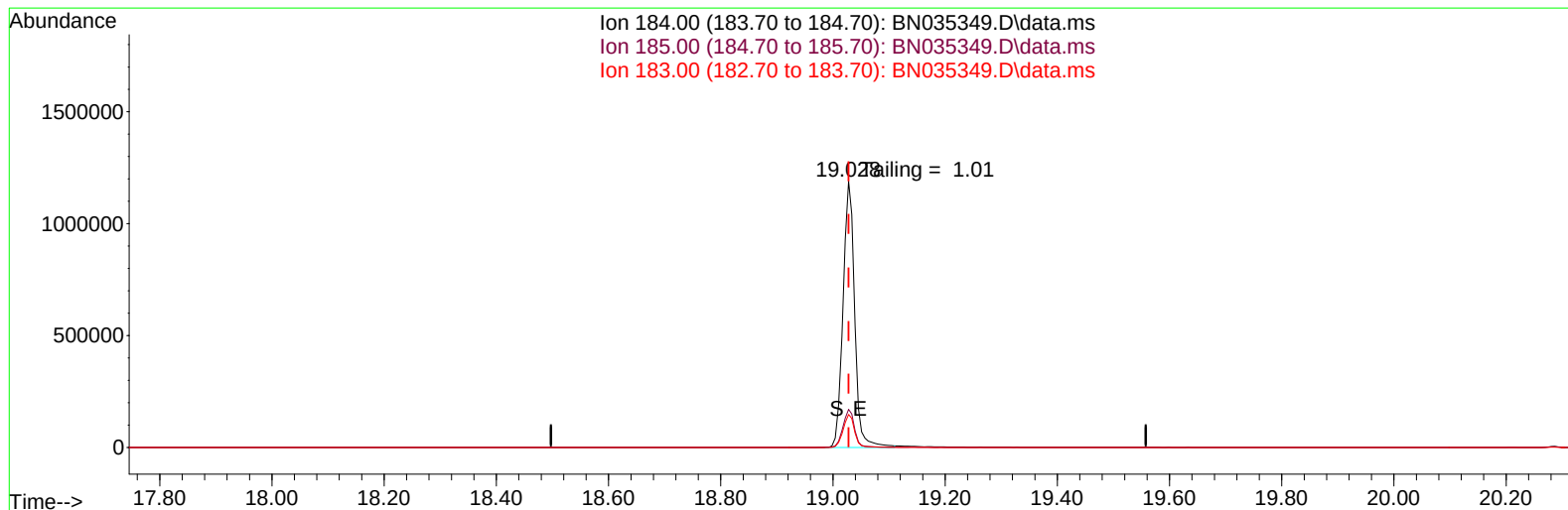
response 398074

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration



TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

DDT Breakdown

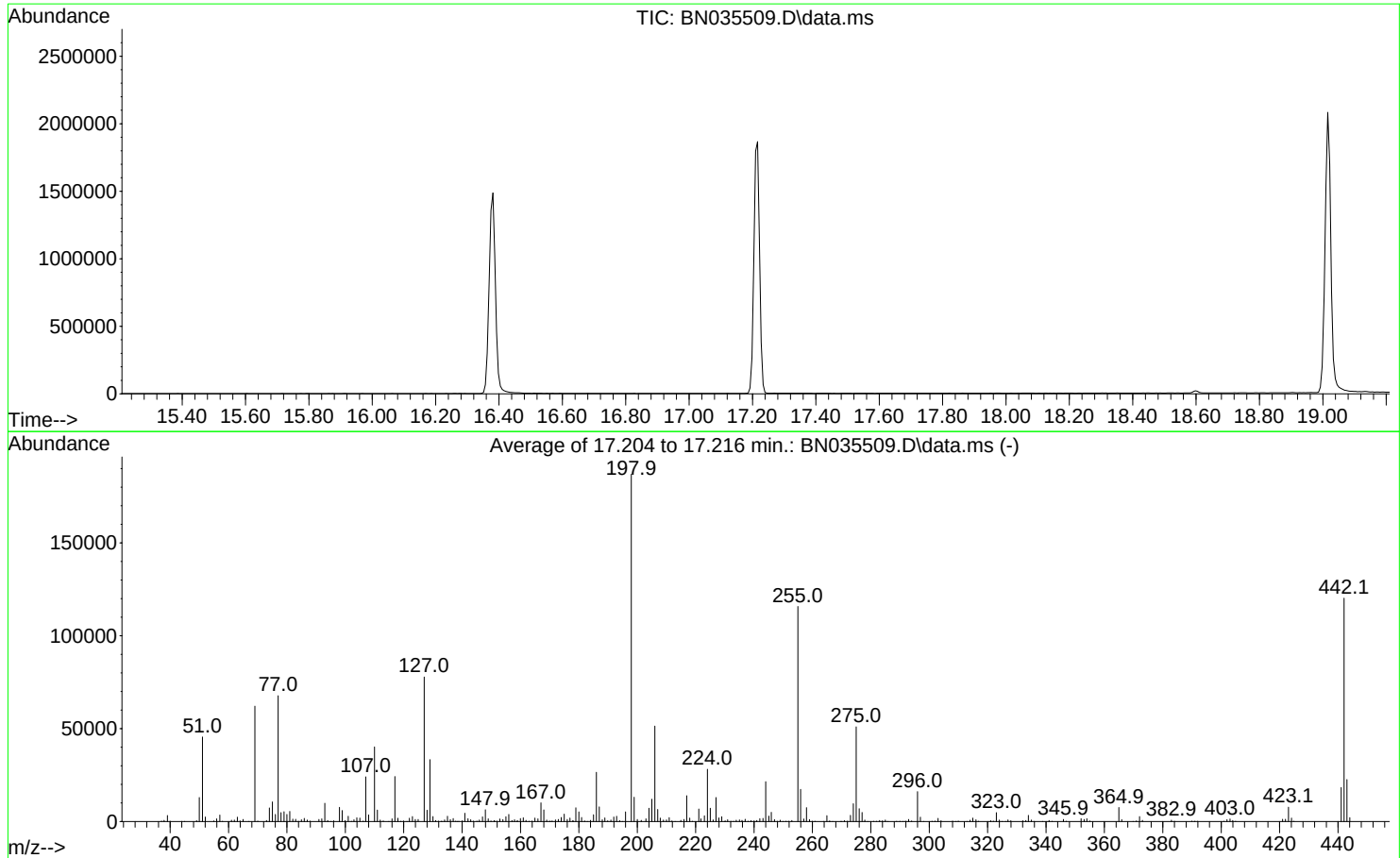
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	<u>BN035349.D</u>
Compound Name	Response	Retention Time
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



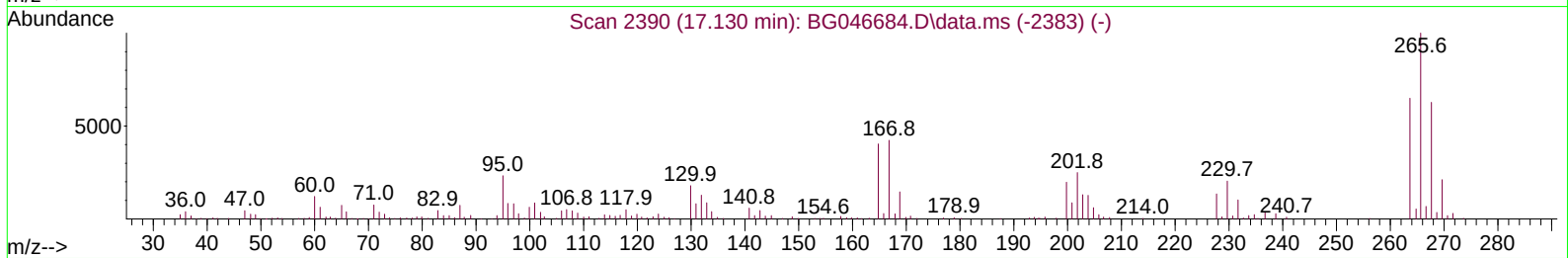
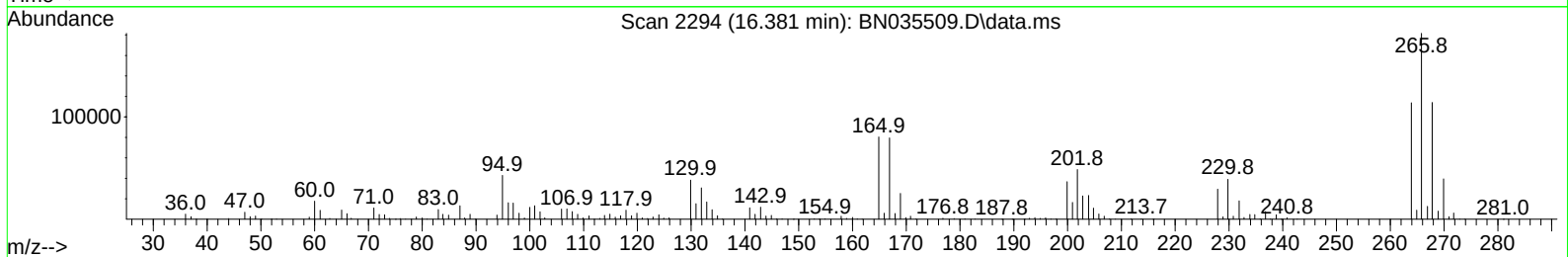
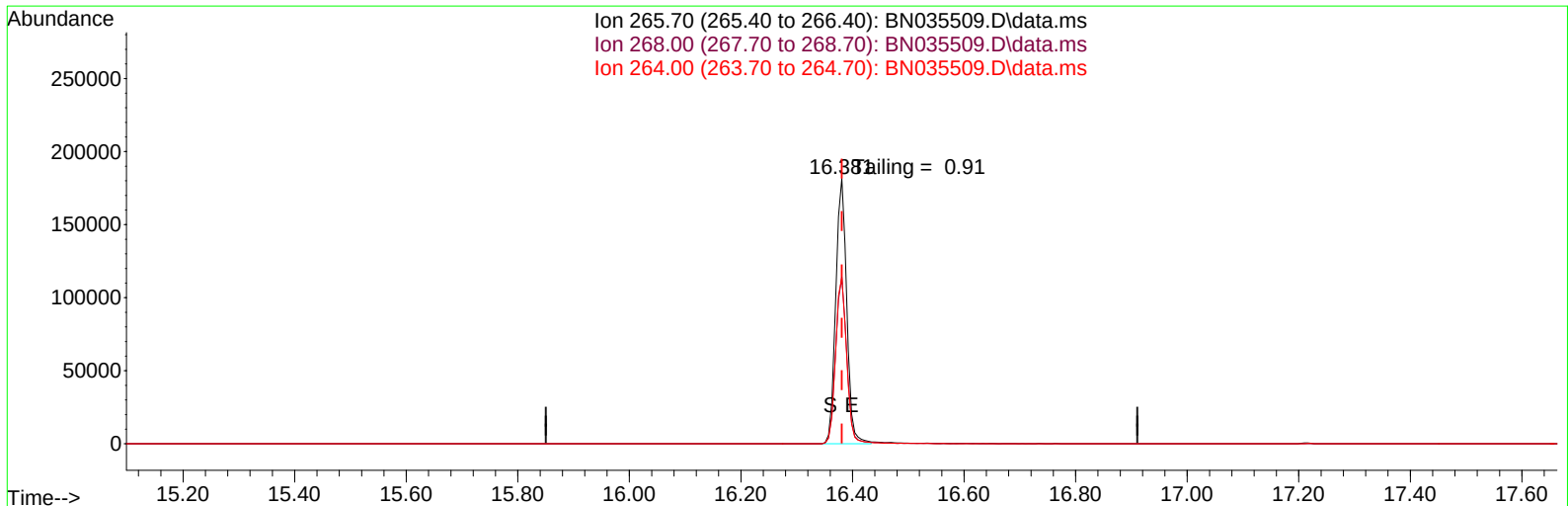
AutoFind: Scans 2434, 2435, 2436; Background Corrected with Scan 2428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.4	45533	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	33.2	62101	PASS
70	69	0.00	2	0.4	269	PASS
127	198	10	80	41.6	77816	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	186941	PASS
199	198	5	9	7.0	13108	PASS
275	198	10	60	27.3	51029	PASS
365	198	1	100	4.1	7578	PASS
441	198	0.01	100	9.8	18314	PASS
442	442	50	100	100.0	120309	PASS
443	442	15	24	18.8	22619	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 10 03:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 03:57:32 2024
Response via : Initial Calibration



TIC: BN035509.D\data.ms

(70) Pentachlorophenol (C)

16.381min (0.000) 23065.04 ng

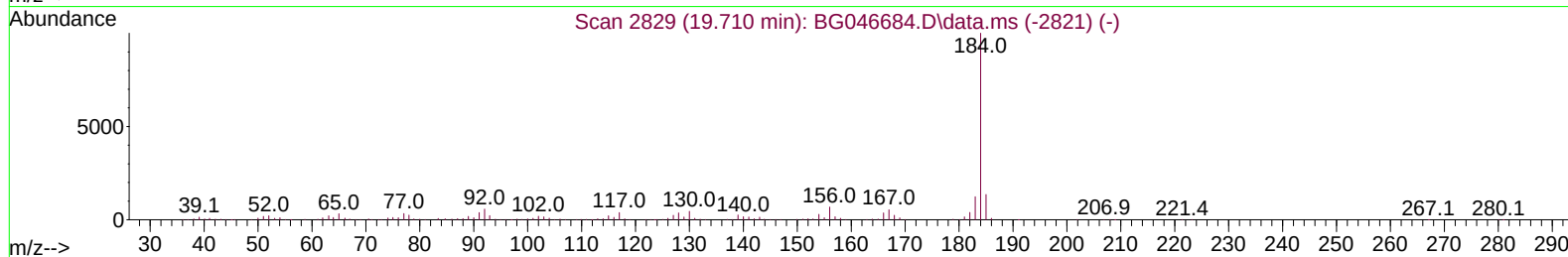
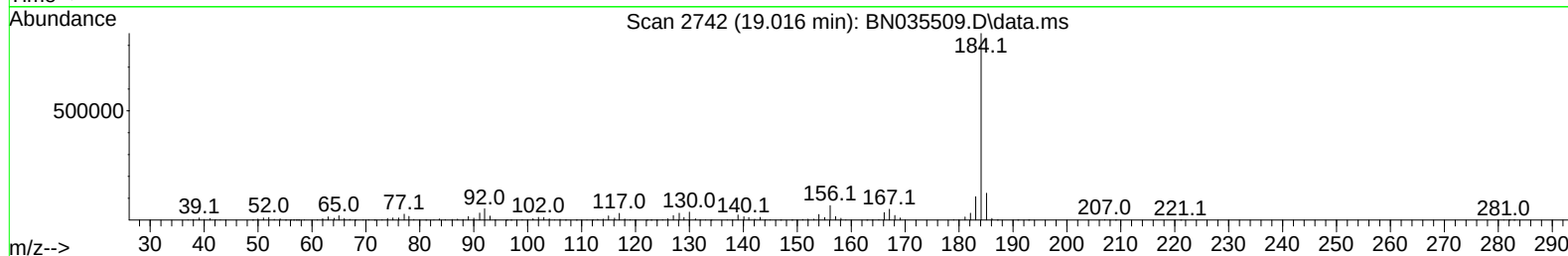
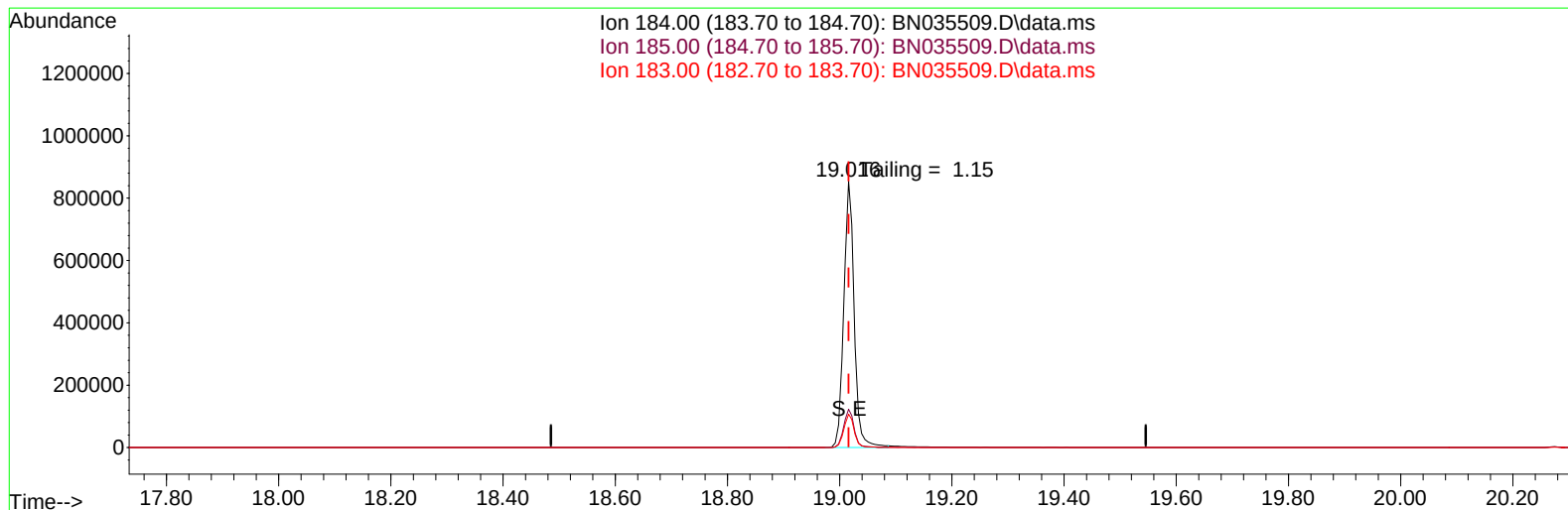
response 251964

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.83
264.00	61.60	62.69
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 10 03:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 03:57:32 2024
Response via : Initial Calibration



TIC: BN035509.D\data.ms

(77) Benzidine

19.016min (0.000) 0.00 ng

response 1117982

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.39
183.00	13.20	12.52
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

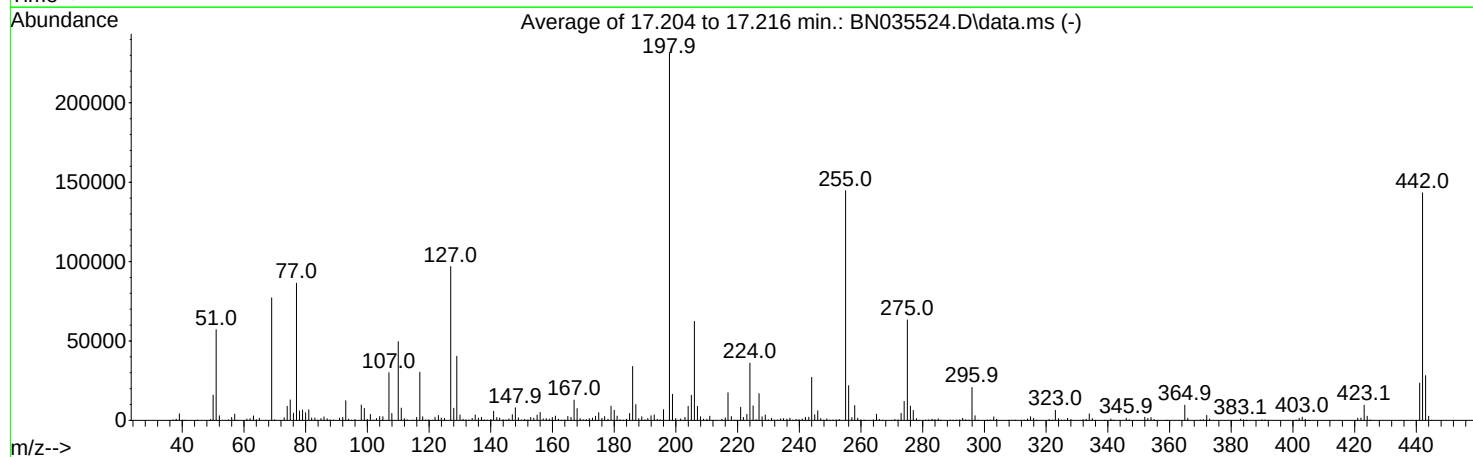
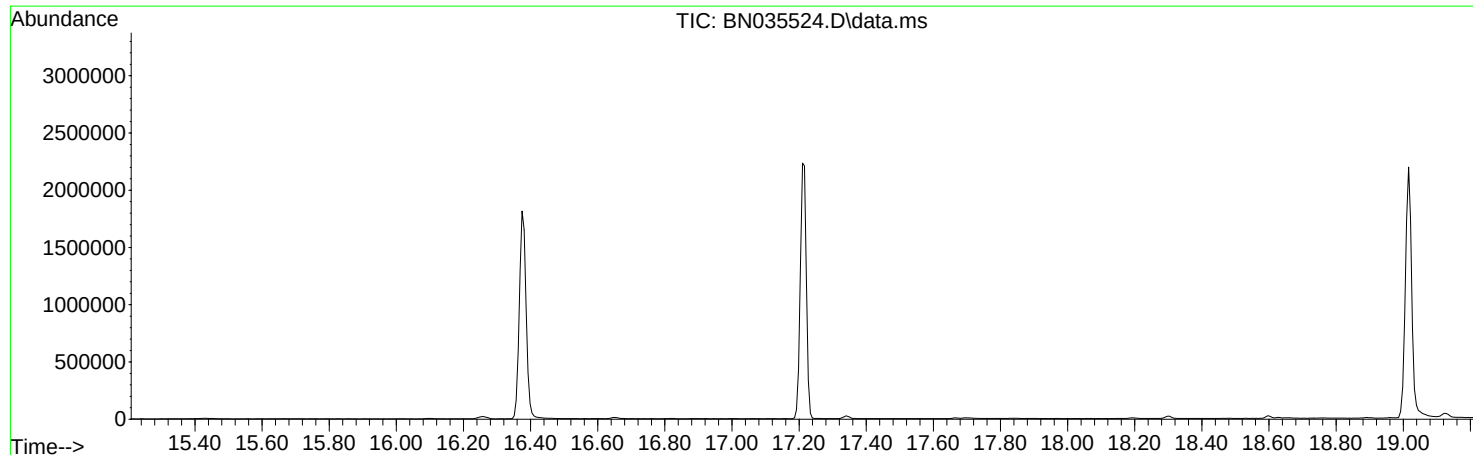
Date	Instrument Name	DFTPP Data File
12/9/2024	BNA_N	<u>BN035509.D</u>
Compound Name	Response	Retention Time
DDT	555028	20.274
DDD	56573	19.827
DDE	2168	19.316
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
58741	613769	9.57

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



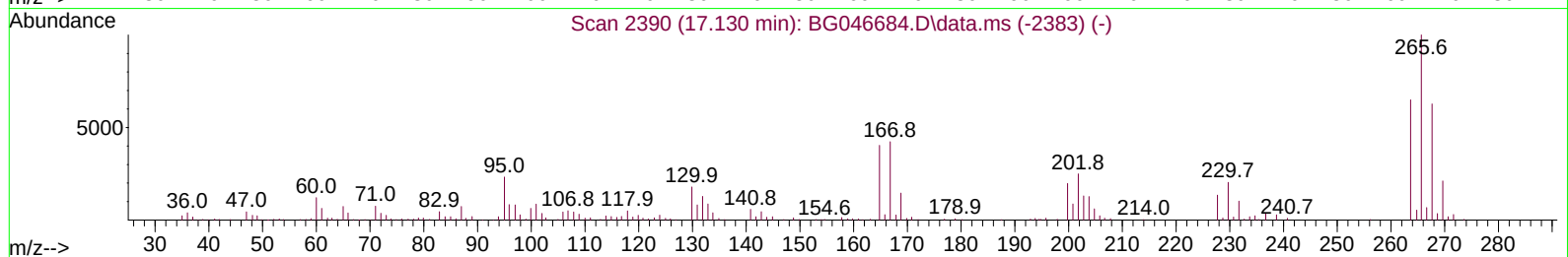
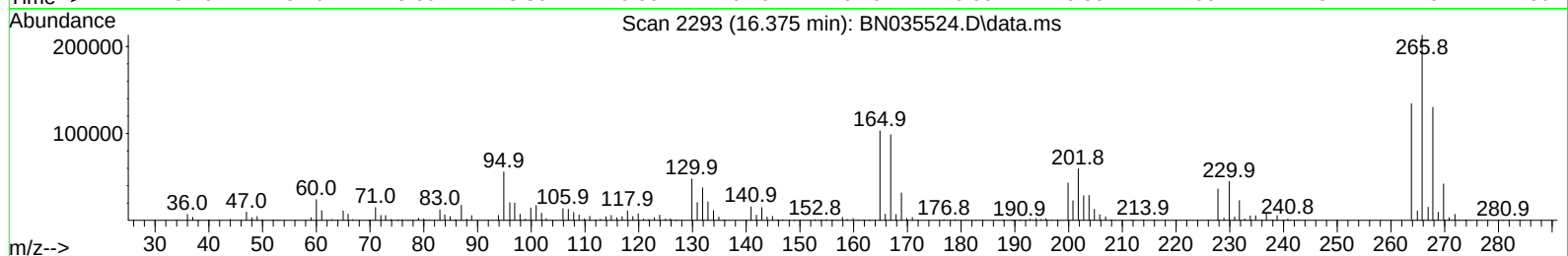
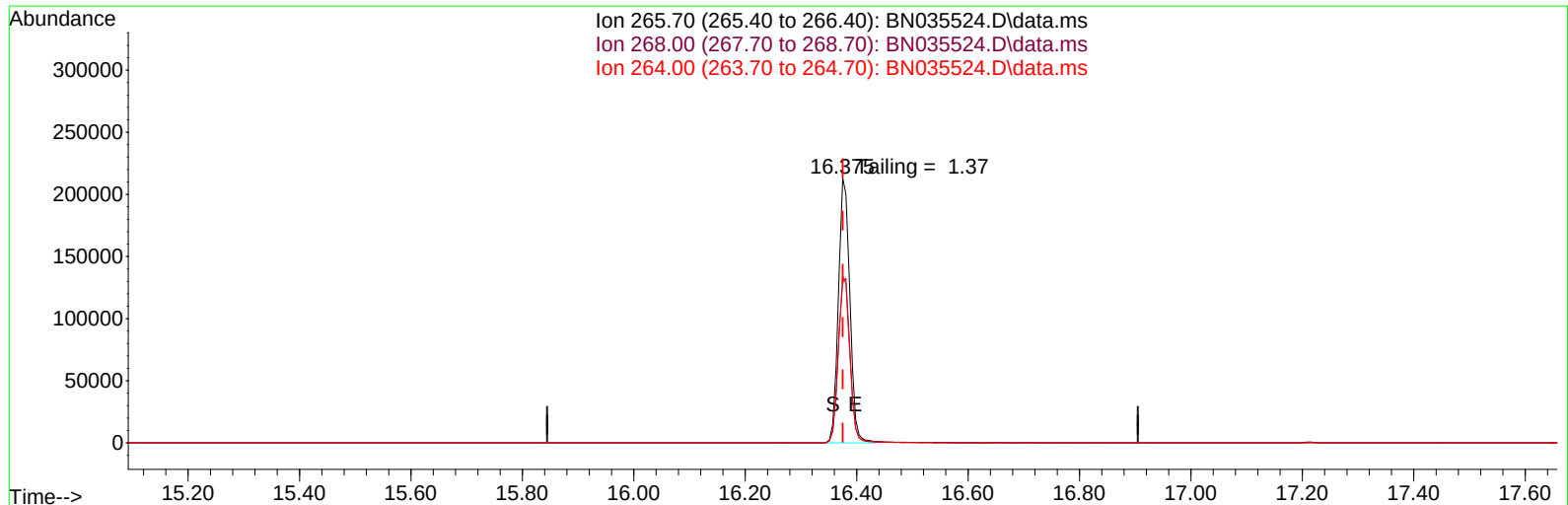
AutoFind: Scans 2434, 2435, 2436; Background Corrected with Scan 2428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.6	57104	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	33.3	77235	PASS
70	69	0.00	2	0.6	434	PASS
127	198	10	80	41.8	96816	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	231701	PASS
199	198	5	9	7.1	16431	PASS
275	198	10	60	27.3	63328	PASS
365	198	1	100	4.1	9588	PASS
441	198	0.01	100	10.1	23464	PASS
442	442	50	100	100.0	143315	PASS
443	442	15	24	19.7	28188	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 11 06:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 11 06:13:05 2024
Response via : Initial Calibration



TIC: BN035524.D\data.ms

(70) Pentachlorophenol (C)

16.375min (0.000) 25281.71 ng

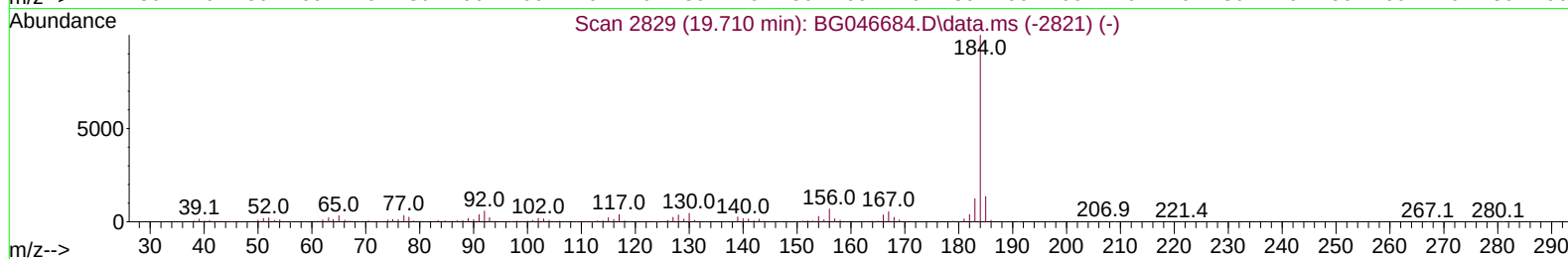
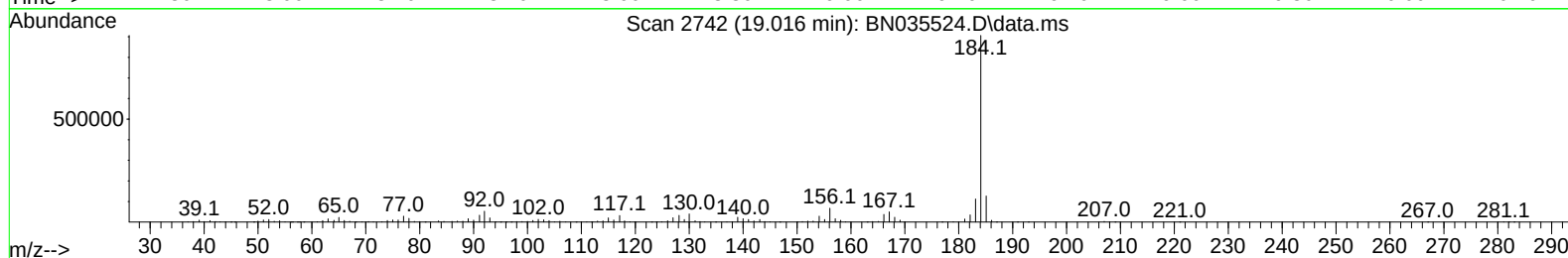
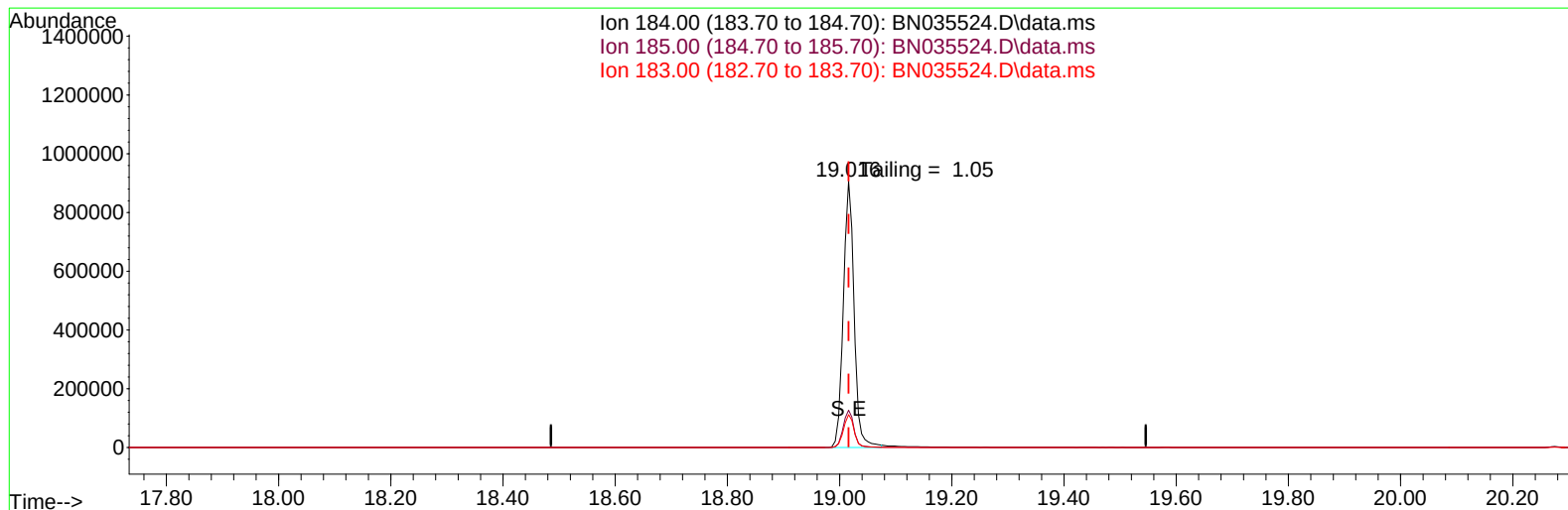
response 307527

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.01
264.00	61.60	63.08
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 11 06:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 11 06:13:05 2024
Response via : Initial Calibration



TIC: BN035524.D\data.ms

(77) Benzidine

19.016min (0.000) 0.00 ng

response 1233878

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.02
183.00	13.20	12.36
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/9/2024	BNA_N	<u>BN035524.D</u>
Compound Name	Response	Retention Time
DDT	684763	20.275
DDD	62588	19.828
DDE	4137	19.31
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
66725	751488	8.88

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BL	SDG No.:	P5164
Lab Sample ID:	PB165497BL	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
BN035511.D	1	12/09/24 11:27	12/09/24 17:43	PB165497

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	0.46		30 - 150		114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640	7.3				
1146-65-2	Naphthalene-d8	4580	10.052				
15067-26-2	Acenaphthene-d10	3250	13.957				
1517-22-2	Phenanthrene-d10	7570	16.736				
1719-03-5	Chrysene-d12	6430	20.974				
1520-96-3	Perylene-d12	6250	23.067				

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\BN120924\
 Data File : BN035511.D
 Acq On : 09 Dec 2024 17:43
 Operator : RC/JU
 Sample : PB165497BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165497BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:26:38 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1641	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4578	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3247	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	7570	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6431	0.400	ng	0.00
35) Perylene-d12	23.067	264	6251	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1921	0.468	ng	-0.01
5) Phenol-d6	6.506	99	2074	0.420	ng	0.00
8) Nitrobenzene-d5	8.440	82	1267m	0.453	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3268	0.456	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	444	0.193	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5214	0.425	ng	0.00
27) Fluoranthene-d10	18.785	212	9599	0.447	ng	0.00
31) Terphenyl-d14	19.407	244	7154	0.564	ng	0.00

Target Compounds Qvalue

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

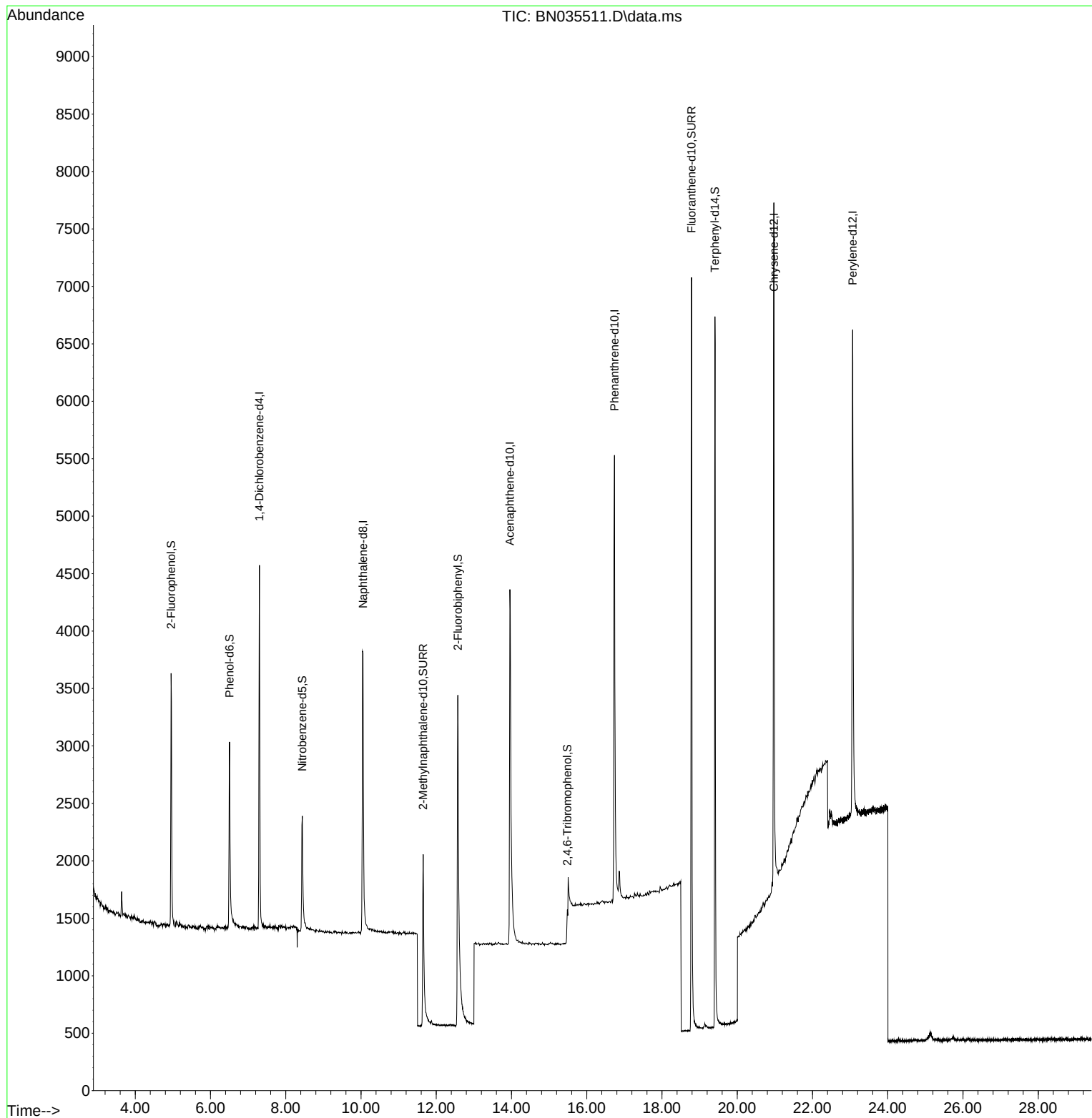
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

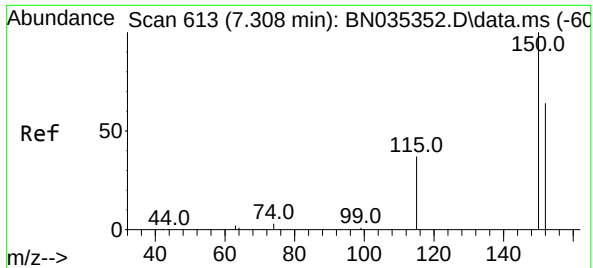
Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

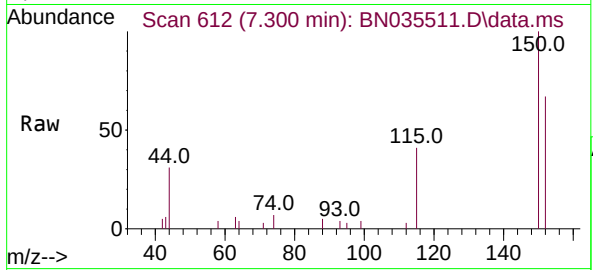
Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

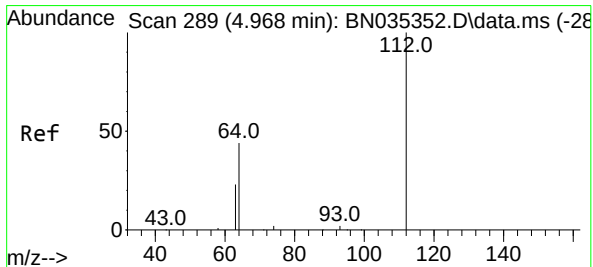
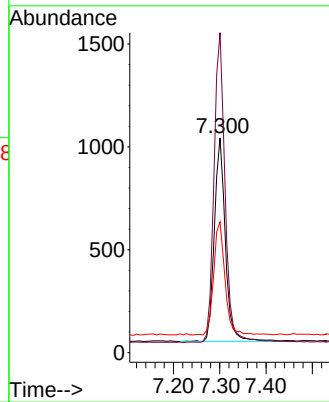
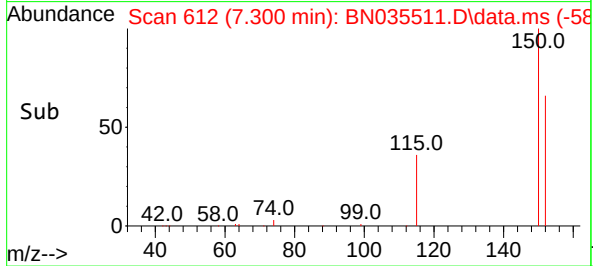
Instrument :
BNA_N
ClientSampleId :
PB165497BL



Tgt Ion:152 Resp: 164
Ion Ratio Lower Upper
152 100
150 148.9 124.0 186.0
115 60.9 49.6 74.4

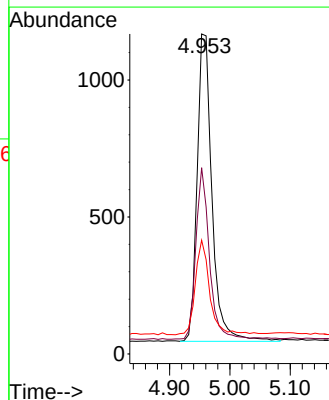
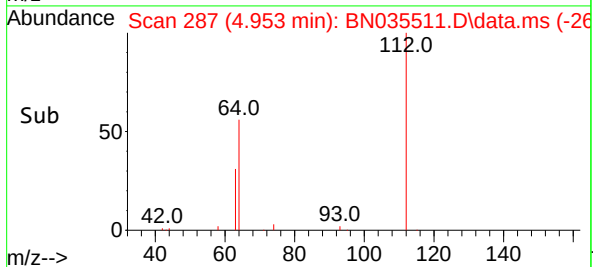
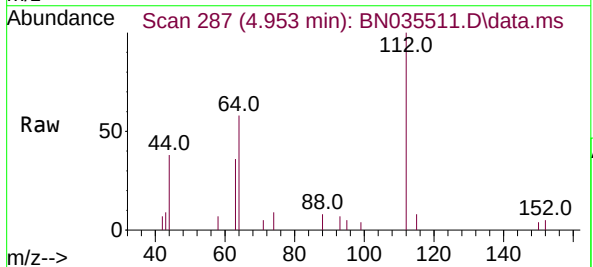
Manual Integrations
APPROVED

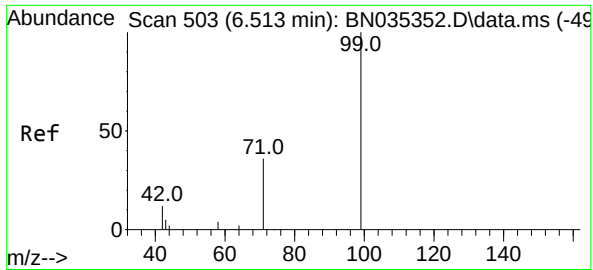
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.468 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:112 Resp: 1921
Ion Ratio Lower Upper
112 100
64 50.3 39.8 59.8
63 30.1 21.0 31.6





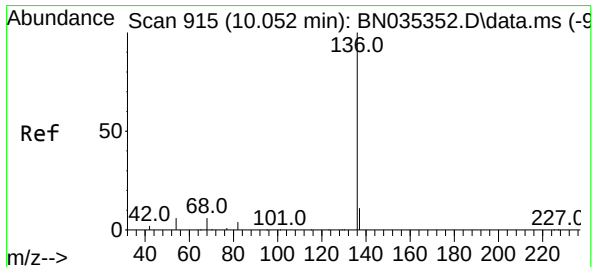
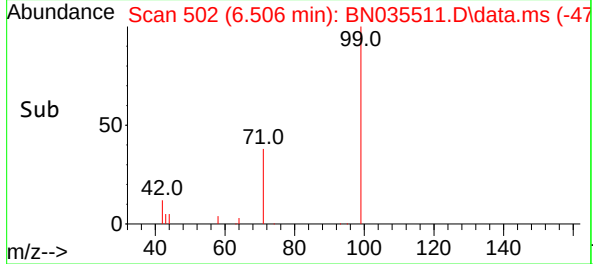
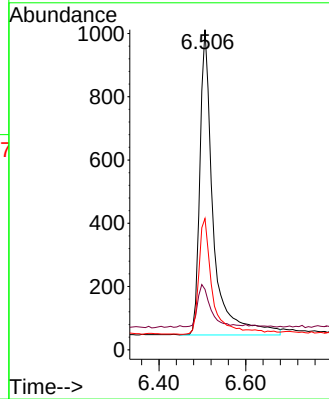
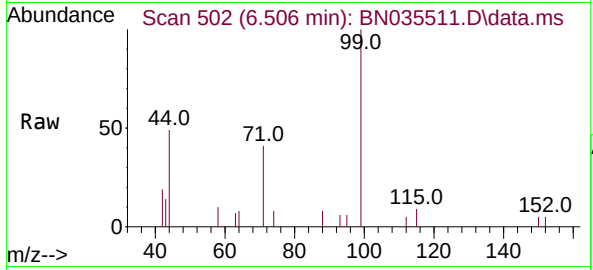
#5
Phenol-d6
Concen: 0.420 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion: 99 Resp: 2074
Ion Ratio Lower Upper
99 100
42 13.2 11.4 17.2
71 37.0 29.3 43.9

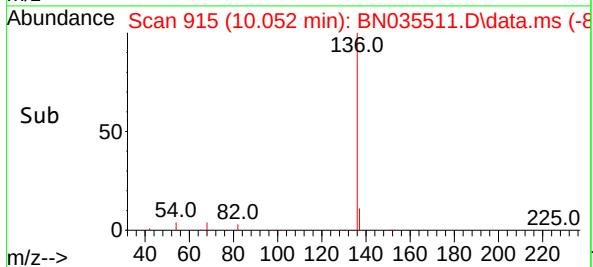
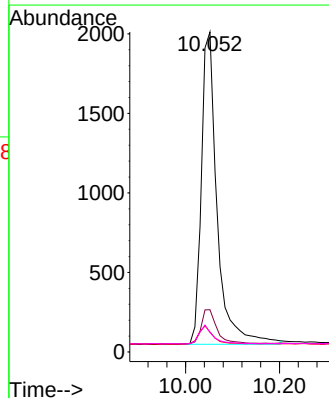
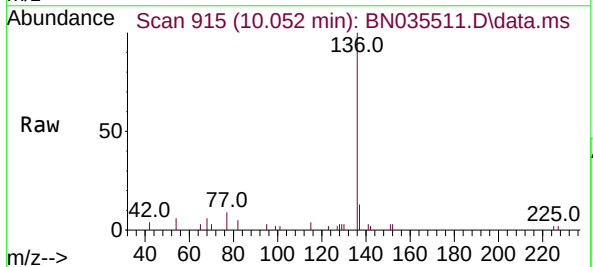
Manual Integrations
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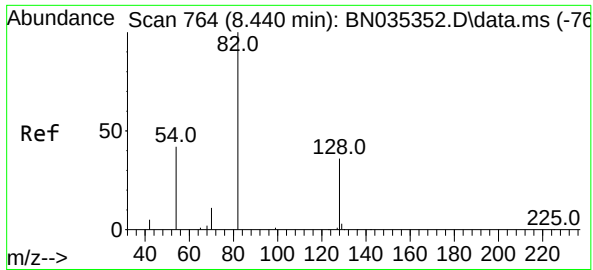
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

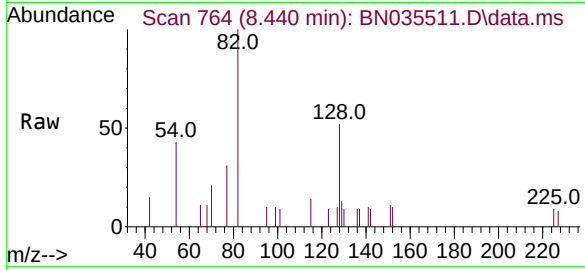
Tgt Ion:136 Resp: 4578
Ion Ratio Lower Upper
136 100
137 13.2 10.2 15.2
54 6.3 6.1 9.1
68 6.1 6.4 9.6#





#8
Nitrobenzene-d5
Concen: 0.453 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

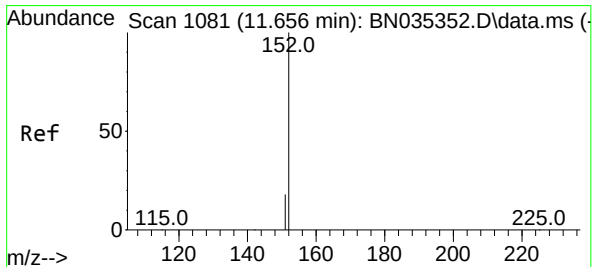
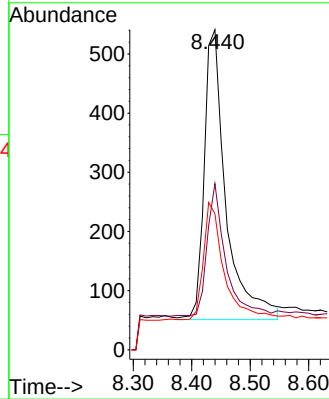
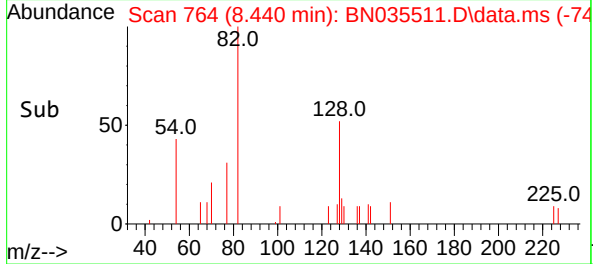
Instrument :
BNA_N
ClientSampleId :
PB165497BL



Tgt Ion: 82 Resp: 126
Ion Ratio Lower Upper
82 100
128 51.9 33.4 50.0
54 42.5 36.7 55.1

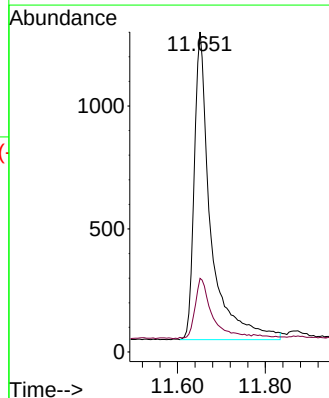
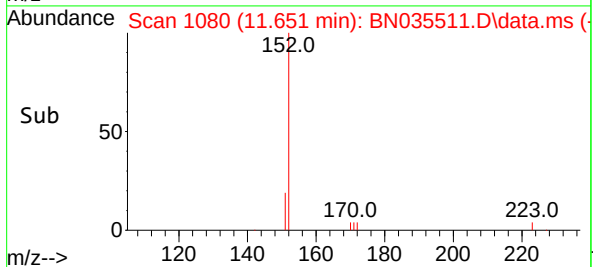
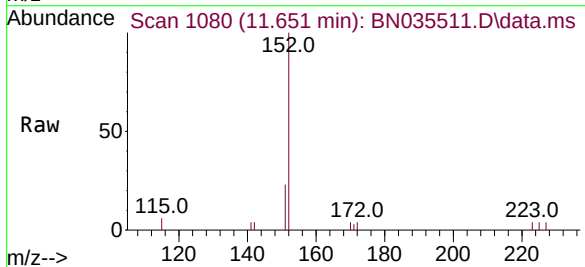
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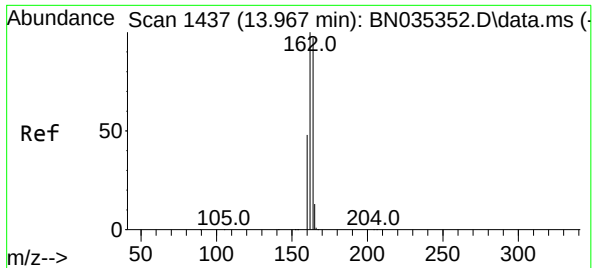
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#11
2-Methylnaphthalene-d10
Concen: 0.456 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

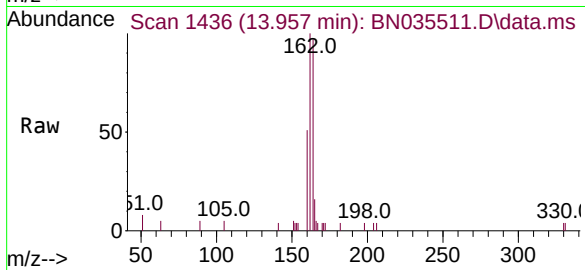
Tgt Ion:152 Resp: 3268
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

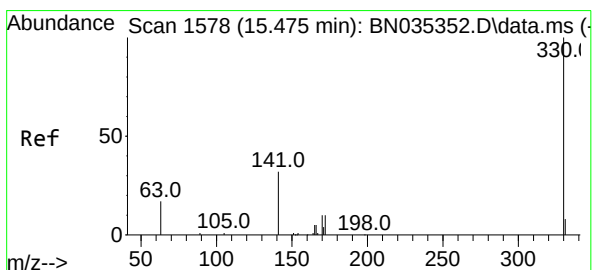
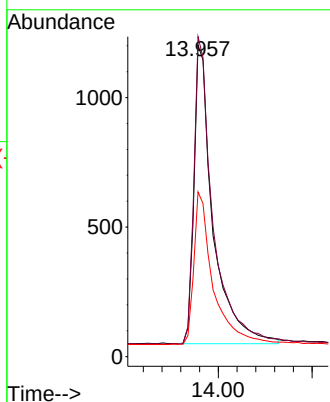
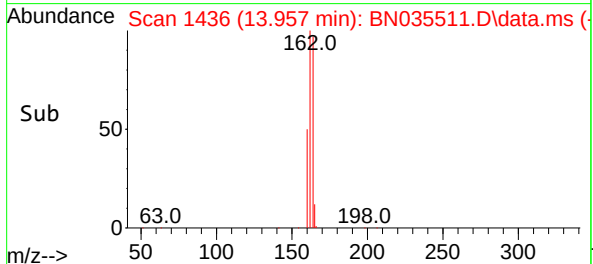
Instrument :
BNA_N
ClientSampleId :
PB165497BL



Tgt Ion:164 Resp: 324
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 52.9 40.1 60.1

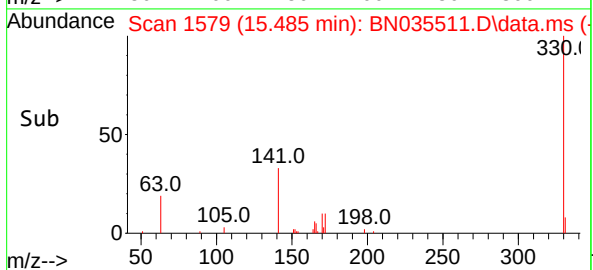
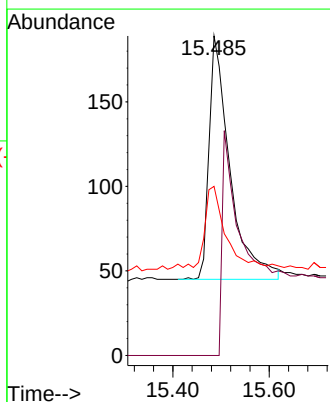
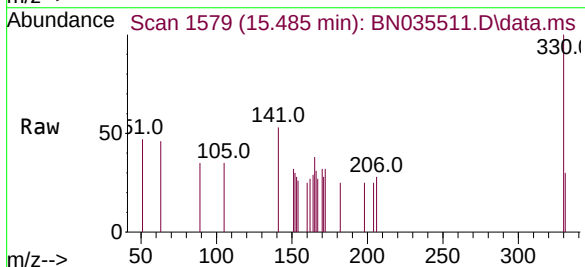
Manual Integrations
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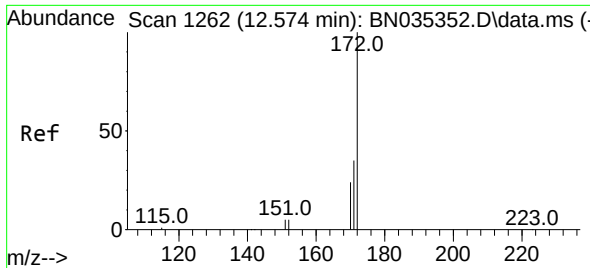
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

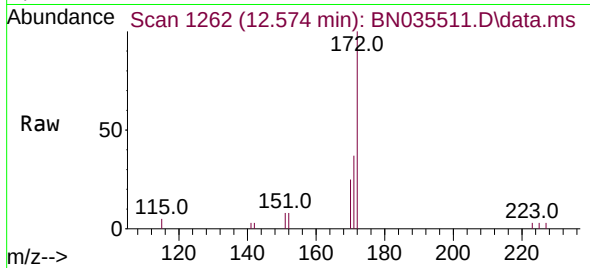
Tgt Ion:330 Resp: 444
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.9 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

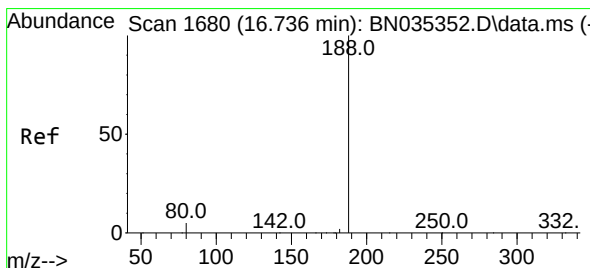
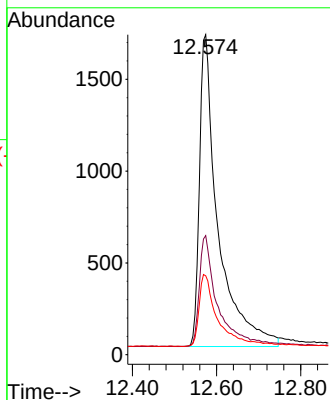
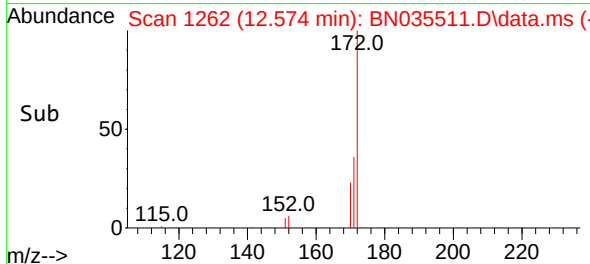
Instrument :
BNA_N
ClientSampleId :
PB165497BL



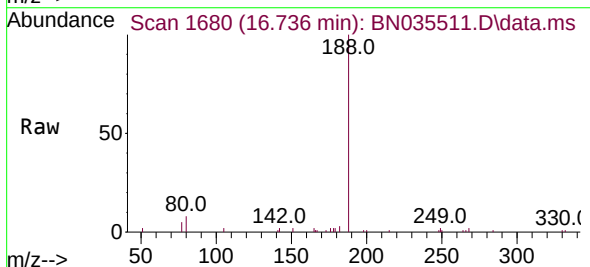
Tgt Ion:172 Resp: 5214
Ion Ratio Lower Upper
172 100
171 37.2 29.0 43.4
170 24.7 19.8 29.8

Manual Integrations
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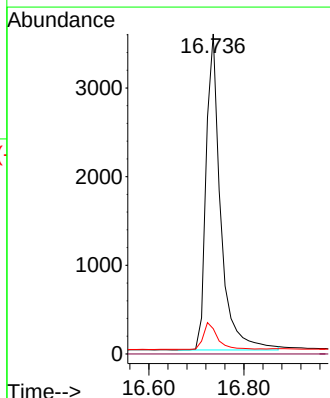
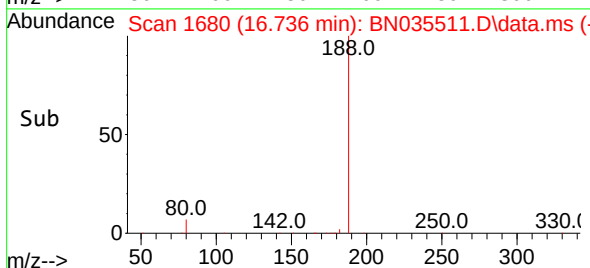
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

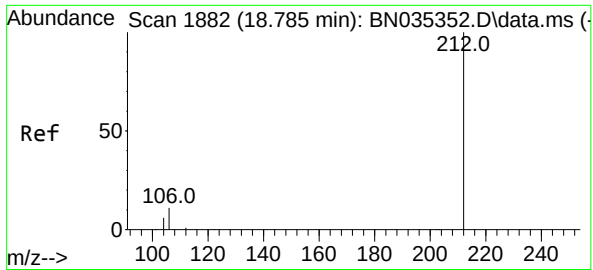


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43



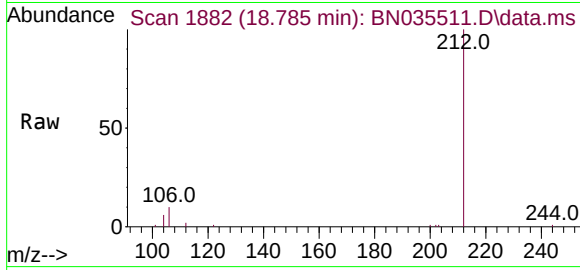
Tgt Ion:188 Resp: 7570
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.9 4.6 6.8





#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

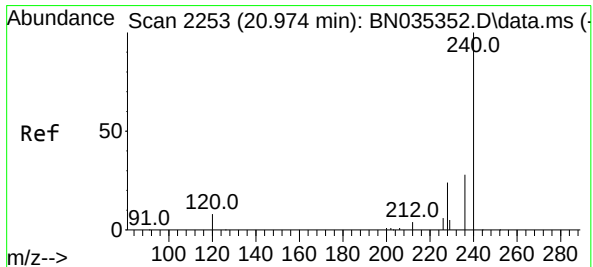
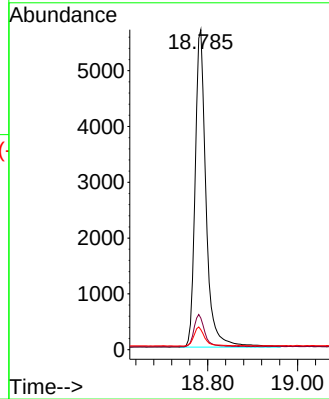
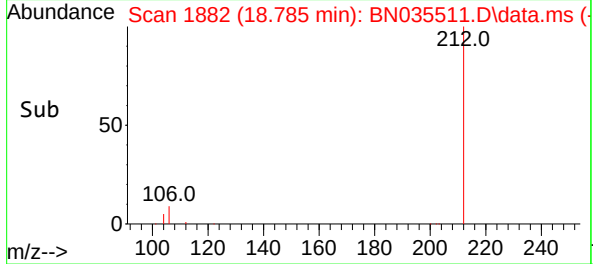
Instrument :
BNA_N
ClientSampleId :
PB165497BL



Tgt Ion:212 Resp: 959
Ion Ratio Lower Upper
212 100
106 10.0 9.2 13.8
104 5.9 5.3 7.9

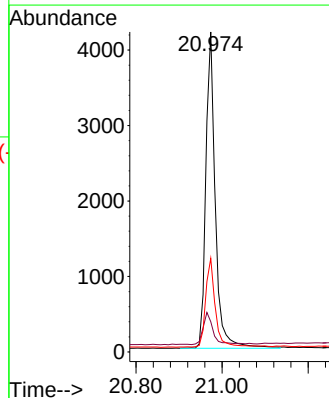
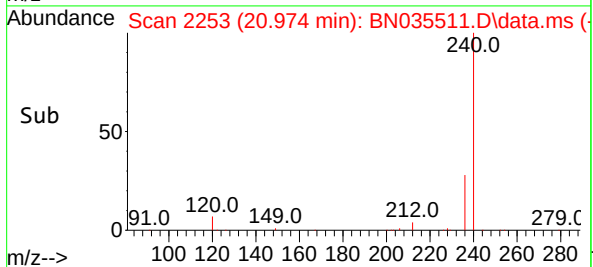
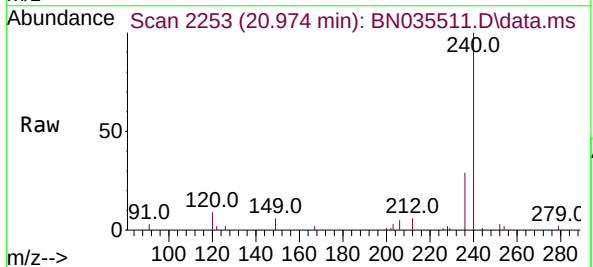
Manual Integrations
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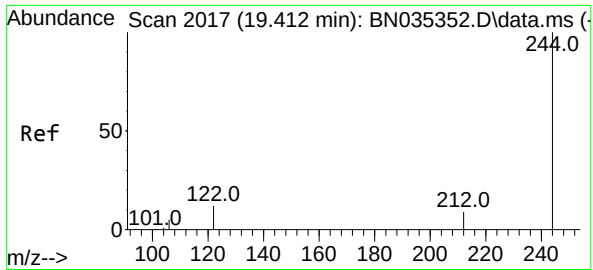
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:240 Resp: 6431
Ion Ratio Lower Upper
240 100
120 9.4 7.9 11.9
236 29.2 22.9 34.3





#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :

BNA_N

ClientSampleId :

PB165497BL

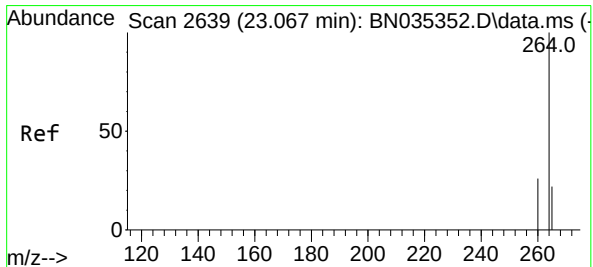
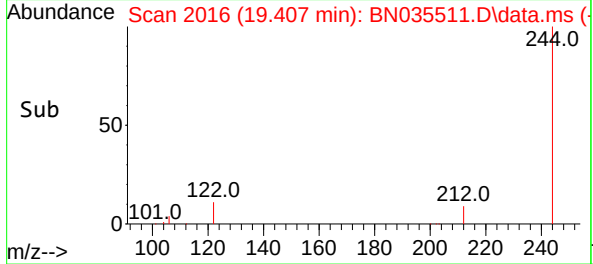
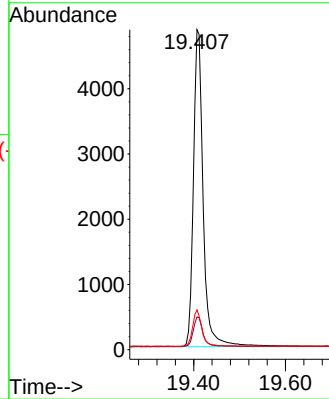
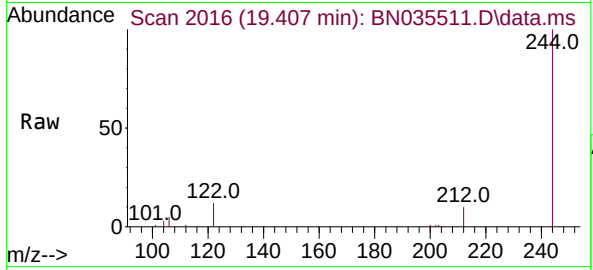
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	12.4	10.3	15.5

Manual Integrations

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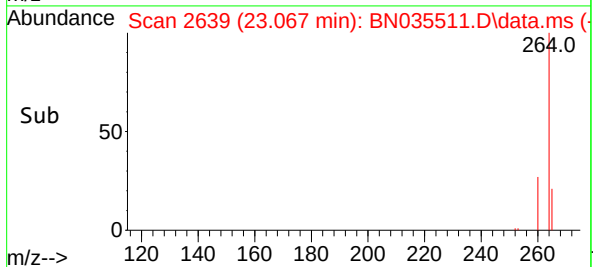
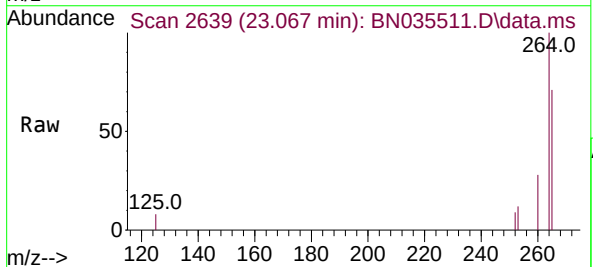
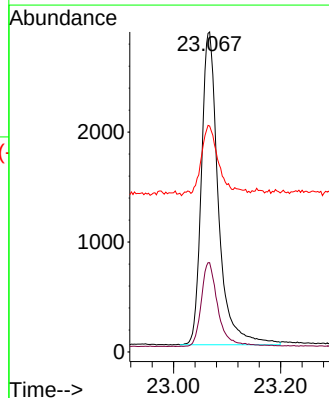
Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	70.6	40.2	60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BS	SDG No.:	P5164
Lab Sample ID:	PB165497BS	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
BN035528.D	1	12/09/24 11:27	12/10/24 11:21	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1670	7.3				
1146-65-2	Naphthalene-d8	4430	10.041				
15067-26-2	Acenaphthene-d10	3090	13.956				
1517-22-2	Phenanthrene-d10	7960	16.723				
1719-03-5	Chrysene-d12	6700	20.964				
1520-96-3	Perylene-d12	5950	23.058				

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\BN120924\
 Data File : BN035528.D
 Acq On : 10 Dec 2024 11:21
 Operator : RC/JU
 Sample : PB165497BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165497BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:28:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1669	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4431	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3092	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7959	0.400	ng	#-0.01
29) Chrysene-d12	20.964	240	6696	0.400	ng	0.00
35) Perylene-d12	23.058	264	5945	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1476	0.353	ng	0.00
5) Phenol-d6	6.506	99	1774	0.353	ng	0.00
8) Nitrobenzene-d5	8.429	82	1110m	0.410	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3705	0.534	ng	-0.01
14) 2,4,6-Tribromophenol	15.474	330	487	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	4718	0.404	ng	-0.01
27) Fluoranthene-d10	18.775	212	8501	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	6284	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.988	88	576	0.361	ng	# 57
3) n-Nitrosodimethylamine	3.285	42	601	0.452	ng	# 88
6) bis(2-Chloroethyl)ether	6.744	93	1620	0.384	ng	98
9) Naphthalene	10.094	128	4529	0.388	ng	99
10) Hexachlorobutadiene	10.383	225	1103	0.409	ng	# 98
12) 2-Methylnaphthalene	11.722	142	3239	0.387	ng	99
16) Acenaphthylene	13.668	152	5188	0.400	ng	100
17) Acenaphthene	14.020	154	3398	0.394	ng	99
18) Fluorene	15.025	166	4774	0.387	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	191	0.244	ng	# 51
21) 4-Bromophenyl-phenylether	15.928	248	1680	0.361	ng	# 84
22) Hexachlorobenzene	16.028	284	2050	0.375	ng	98
23) Atrazine	16.226	200	1210	0.365	ng	96
24) Pentachlorophenol	16.388	266	731	0.307	ng	# 85
25) Phenanthrene	16.760	178	8421	0.385	ng	100
26) Anthracene	16.859	178	7595	0.384	ng	99
28) Fluoranthene	18.807	202	10125	0.344	ng	99
30) Pyrene	19.174	202	10396	0.421	ng	100
32) Benzo(a)anthracene	20.946	228	8539	0.365	ng	100
33) Chrysene	21.000	228	9922	0.411	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3709	0.401	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	8871	0.382	ng	96
37) Benzo(b)fluoranthene	22.444	252	11072	0.509	ng	99
38) Benzo(k)fluoranthene	22.488	252	9381	0.438	ng	98
39) Benzo(a)pyrene	22.971	252	7413	0.414	ng	95
40) Dibenzo(a,h)anthracene	25.116	278	6401	0.349	ng	96
41) Benzo(g,h,i)perylene	25.710	276	7301	0.381	ng	98

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

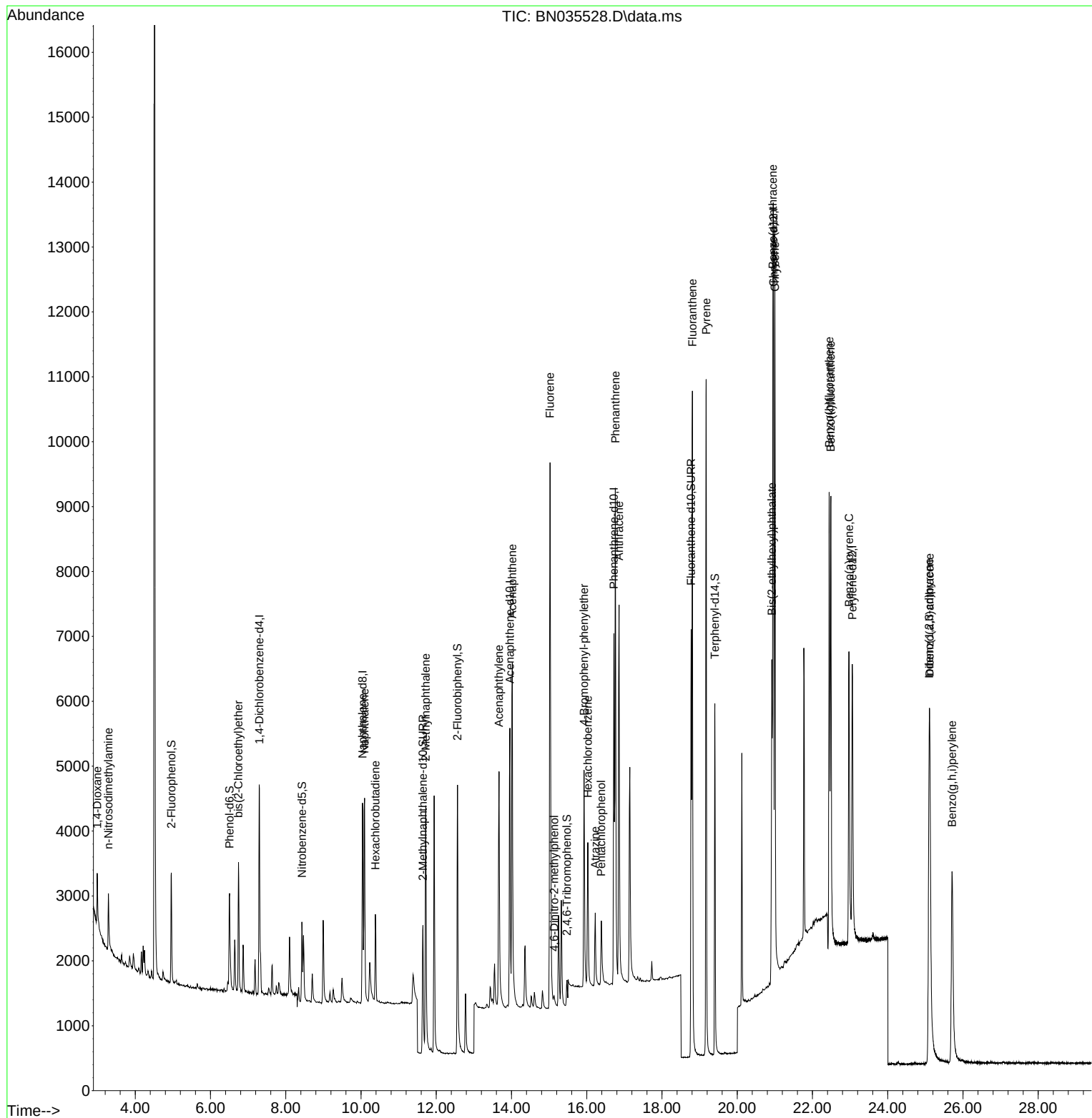
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035528.D
 Acq On : 10 Dec 2024 11:21
 Operator : RC/JU
 Sample : PB165497BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

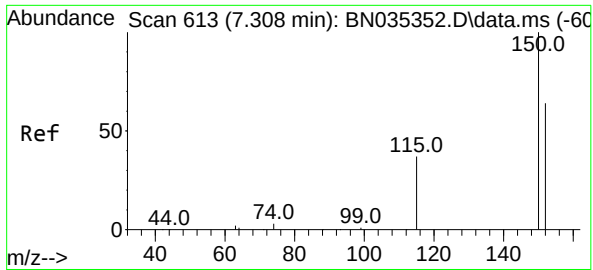
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BS

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

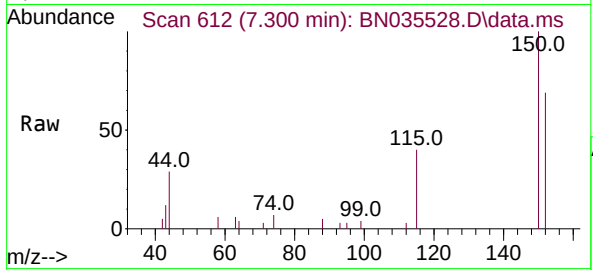
Quant Time: Dec 10 12:28:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

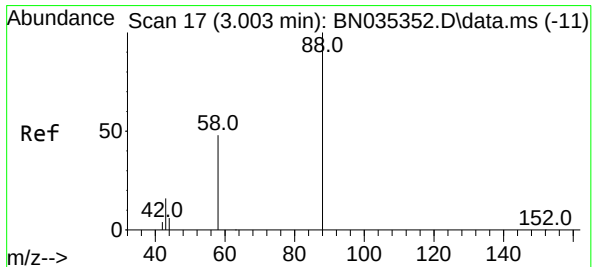
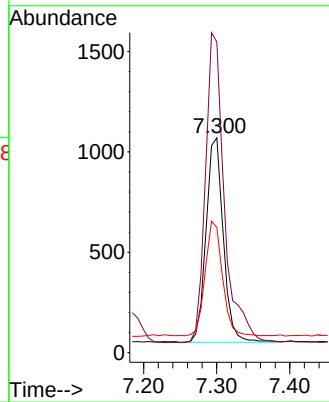
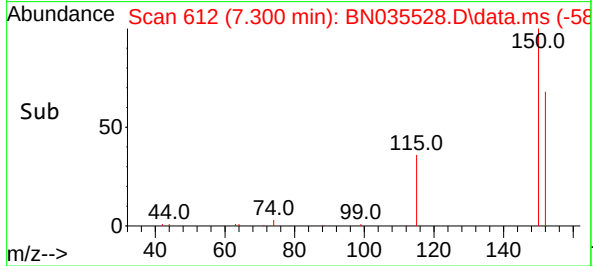
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion: 152 Resp: 1669
Ion Ratio Lower Upper
152 100
150 144.7 124.0 186.0
115 58.3 49.6 74.4

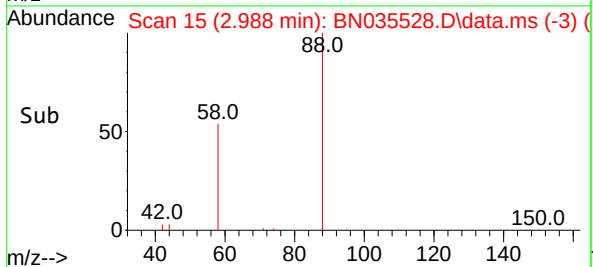
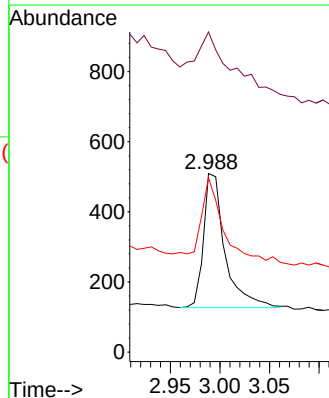
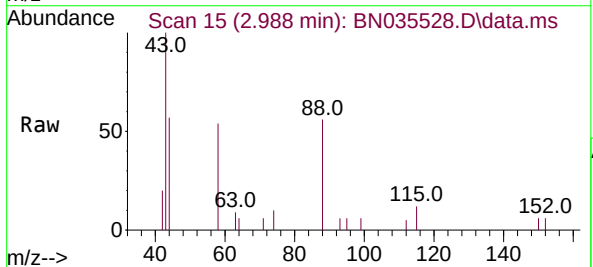
Manual Integrations
APPROVED

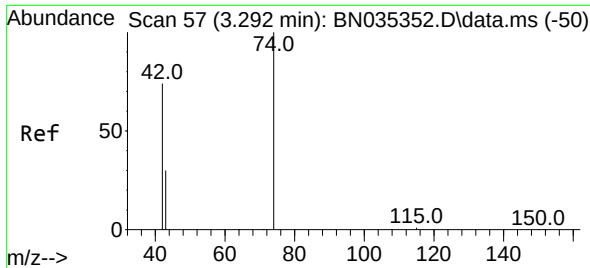
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.361 ng
RT: 2.988 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 88 Resp: 576
Ion Ratio Lower Upper
88 100
43 75.0 17.2 25.8#
58 67.4 44.5 66.7#





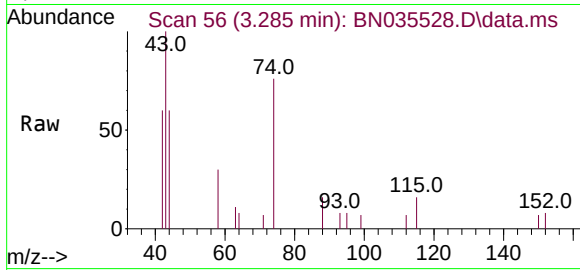
#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

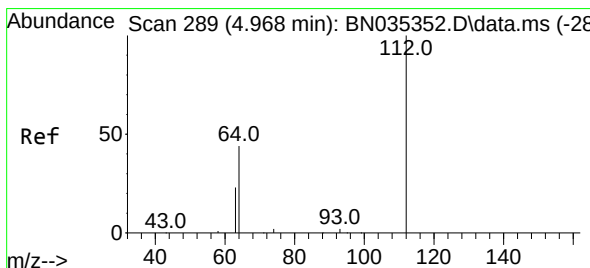
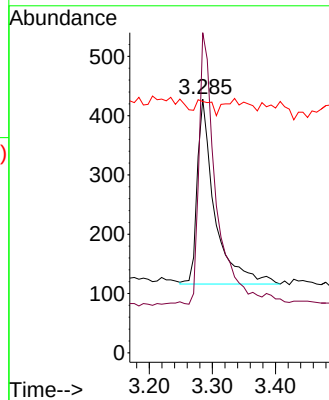
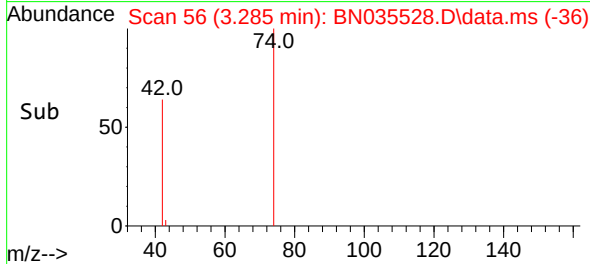


Tgt Ion: 42 Resp: 600
Ion Ratio Lower Upper
42 100
74 140.3 124.9 187.3
44 7.0 2.2 3.4

Manual Integrations

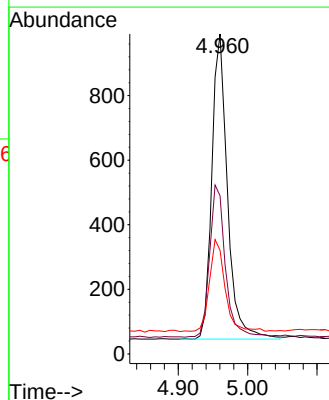
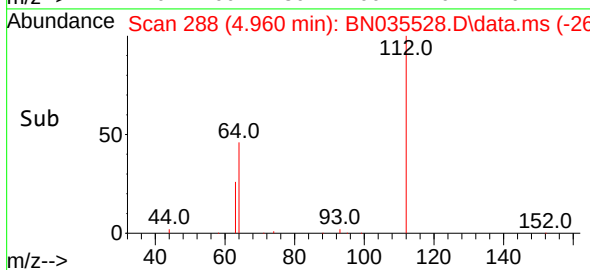
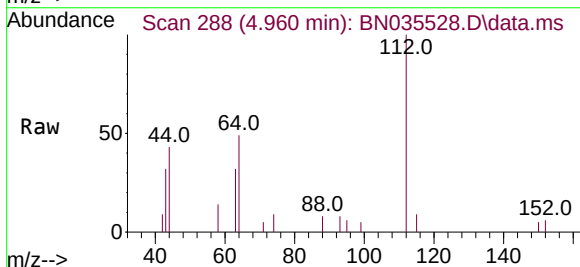
APPROVED

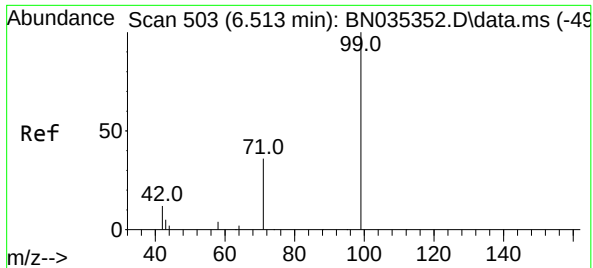
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:112 Resp: 1476
Ion Ratio Lower Upper
112 100
64 50.3 39.8 59.8
63 29.7 21.0 31.6





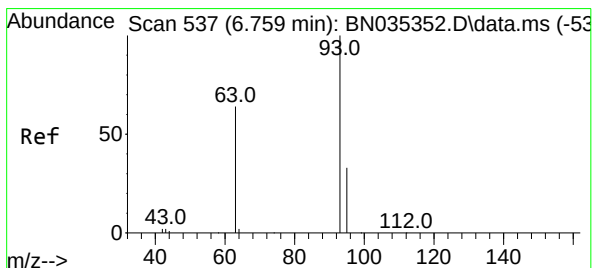
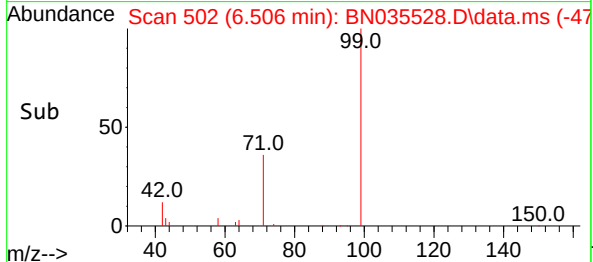
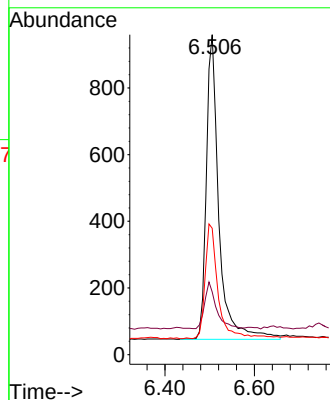
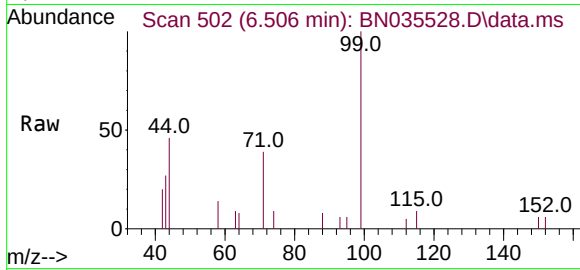
#5
Phenol-d6
Concen: 0.353 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion: 99 Resp: 1774
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.2
71 39.4 29.3 43.9

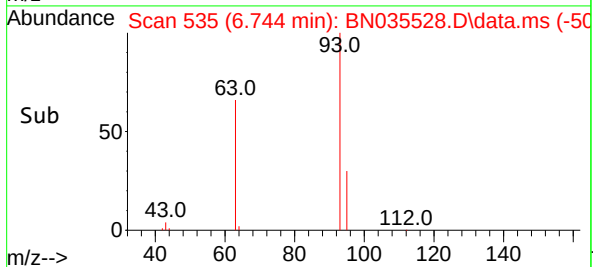
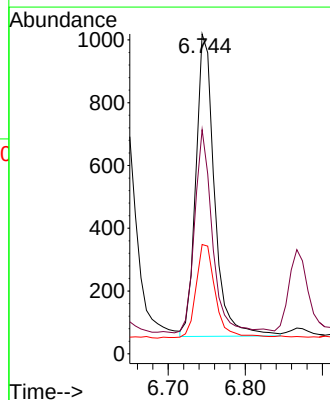
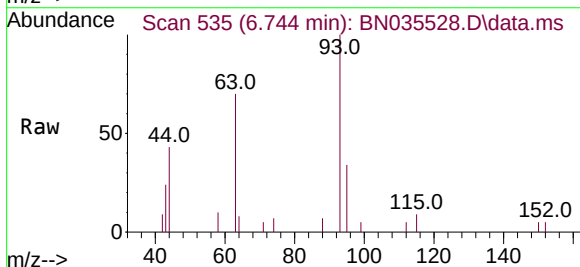
Manual Integrations
APPROVED

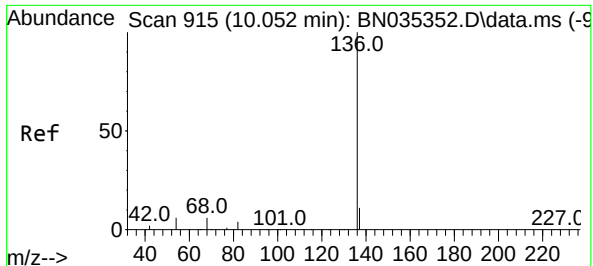
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 93 Resp: 1620
Ion Ratio Lower Upper
93 100
63 64.3 50.4 75.6
95 32.9 25.7 38.5





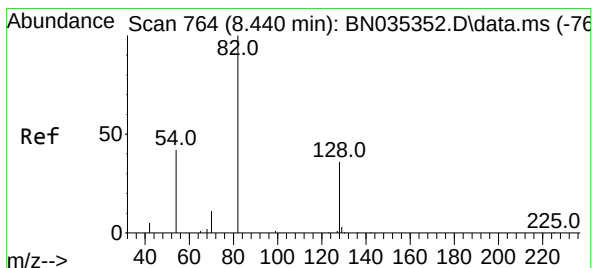
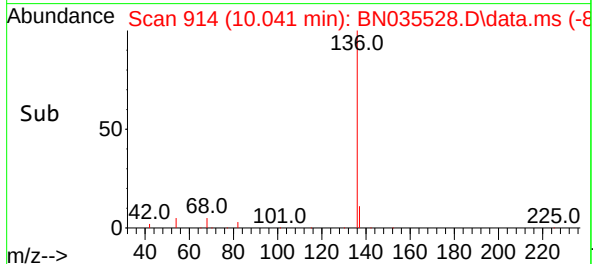
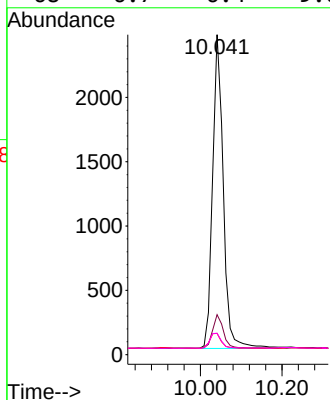
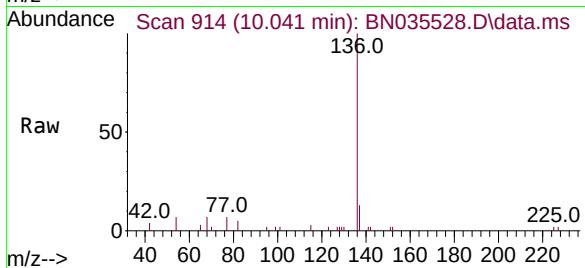
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.7	6.4	9.6

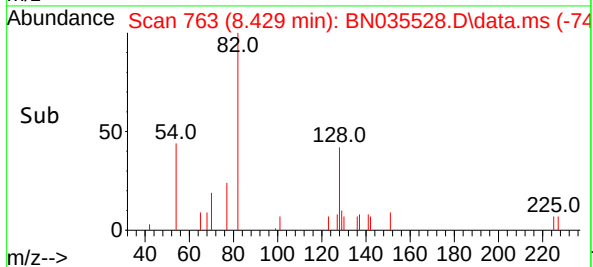
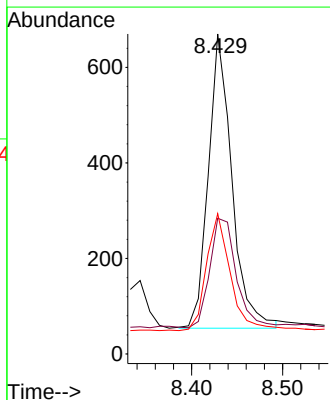
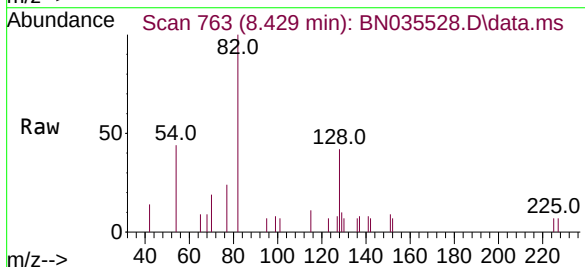
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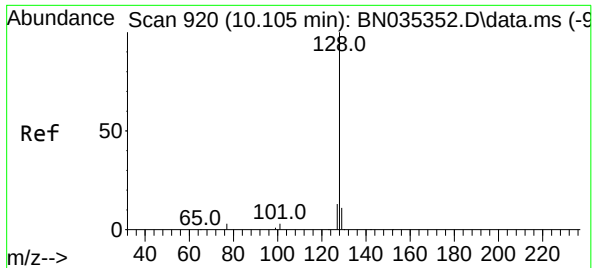
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.410 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	43.9	36.7	55.1





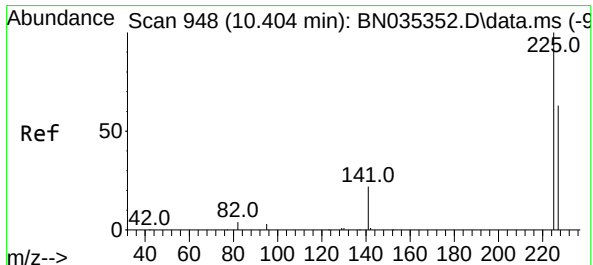
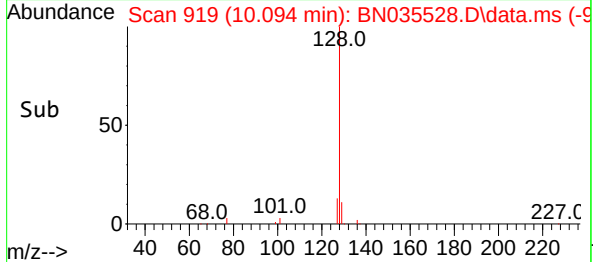
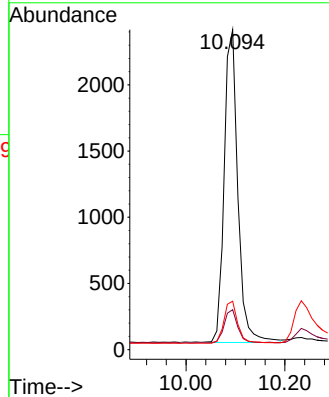
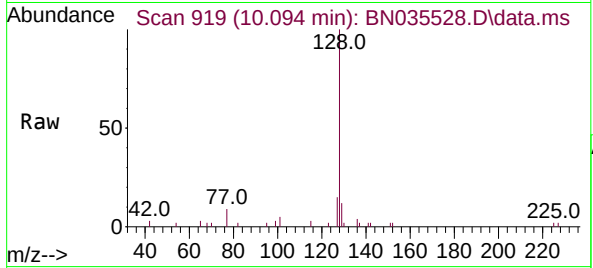
#9
Naphthalene
Concen: 0.388 ng
RT: 10.094 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:128 Resp: 4529
Ion Ratio Lower Upper
128 100
129 12.5 9.8 14.6
127 15.1 11.4 17.2

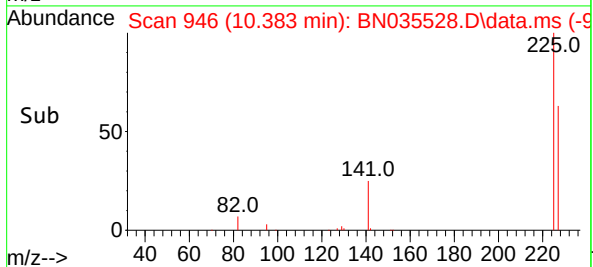
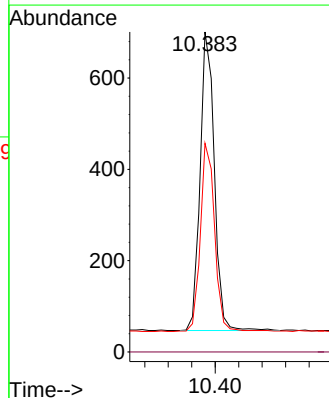
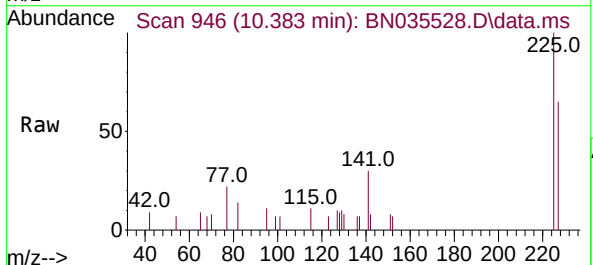
Manual Integrations
APPROVED

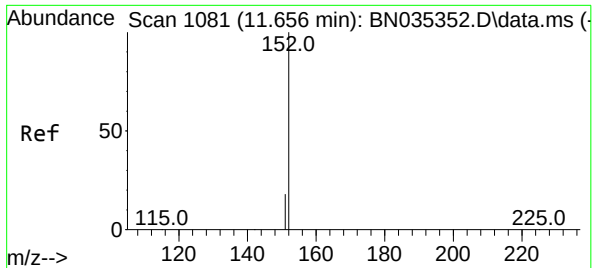
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.022 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

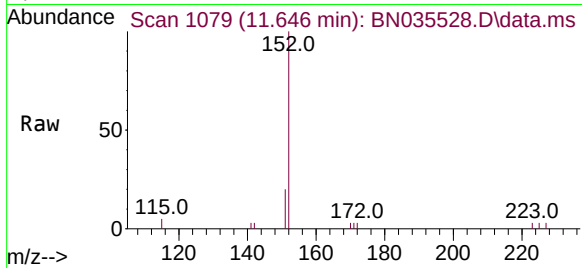
Tgt Ion:225 Resp: 1103
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.534 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

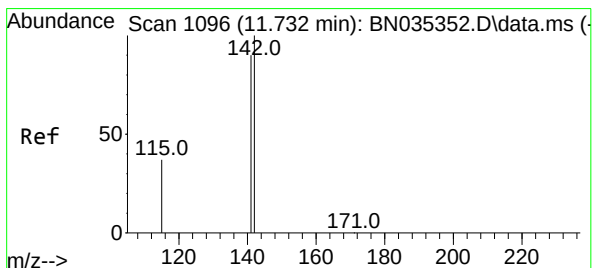
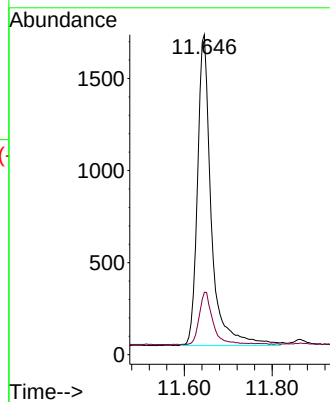
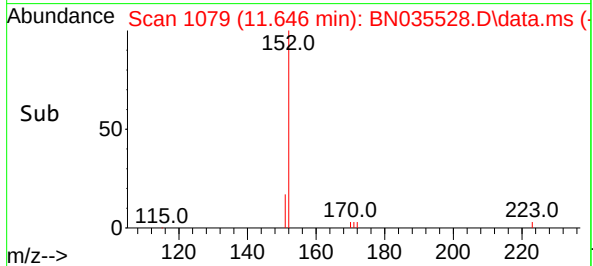
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:152 Resp: 3705
Ion Ratio Lower Upper
152 100
151 17.1 16.6 25.0

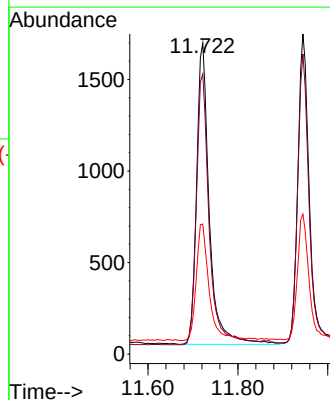
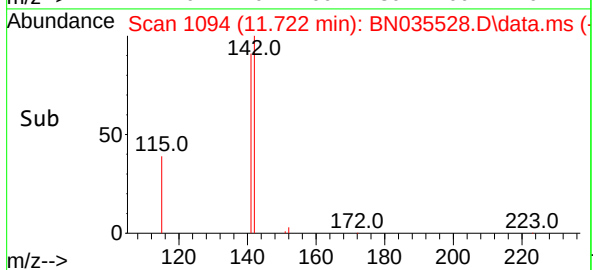
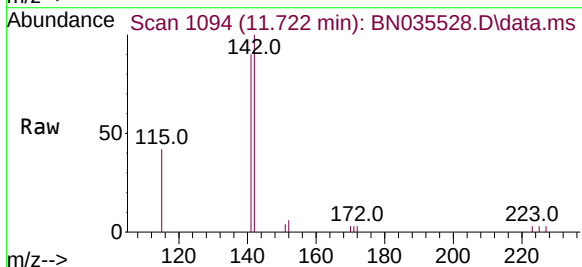
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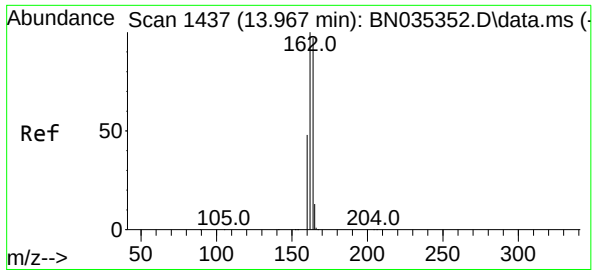
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

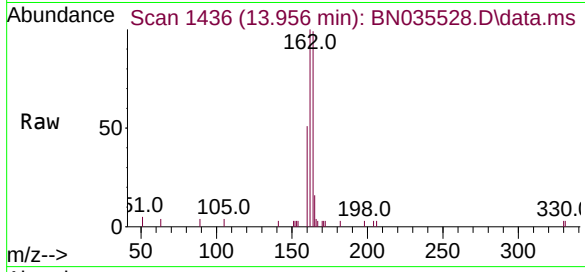
Tgt Ion:142 Resp: 3239
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 41.8 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

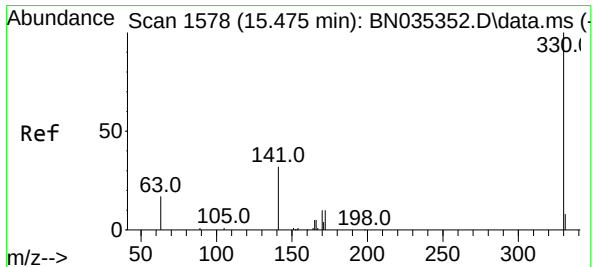
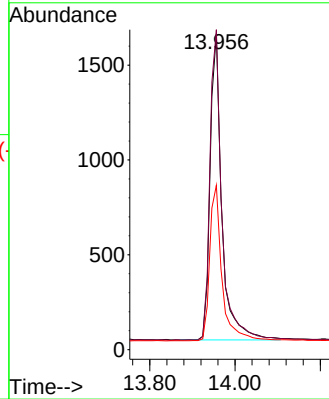
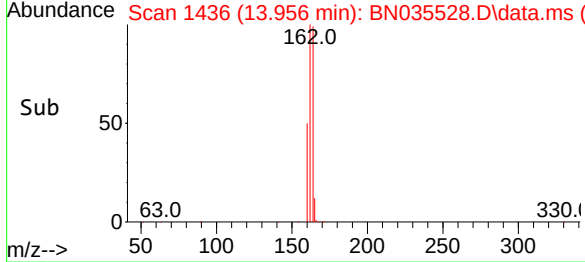
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:164 Resp: 3092
Ion Ratio Lower Upper
164 100
162 101.3 82.2 123.2
160 52.0 40.1 60.1

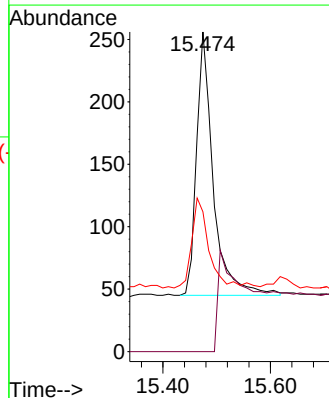
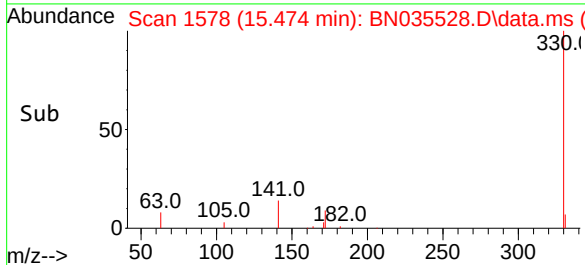
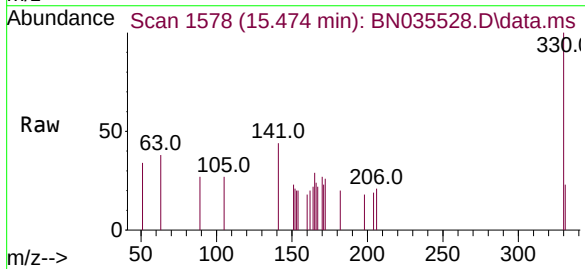
Manual Integrations
APPROVED

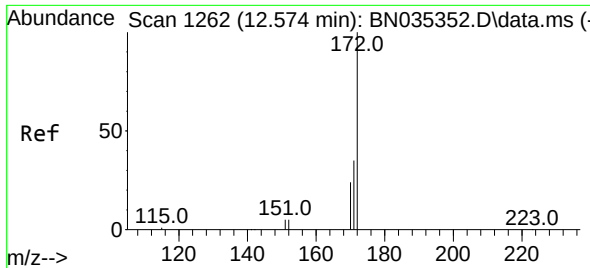
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.474 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:330 Resp: 487
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.564 min Scan# 1109
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

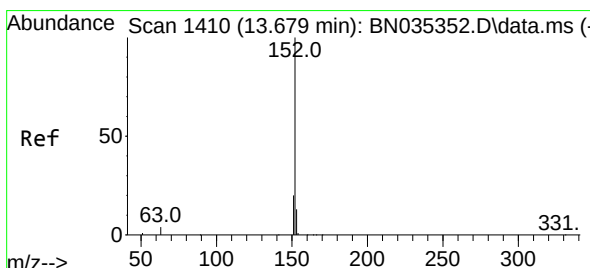
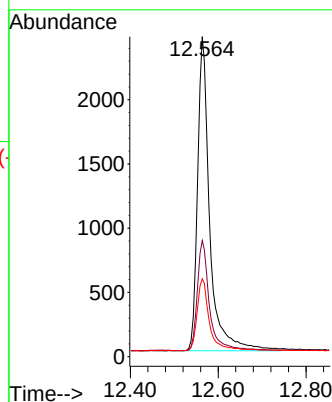
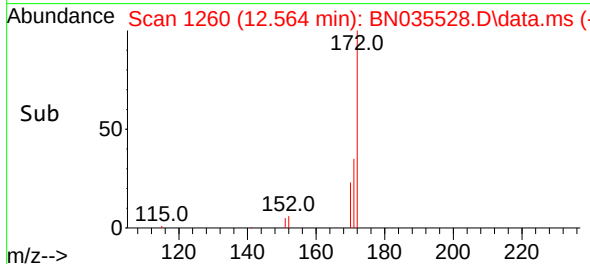
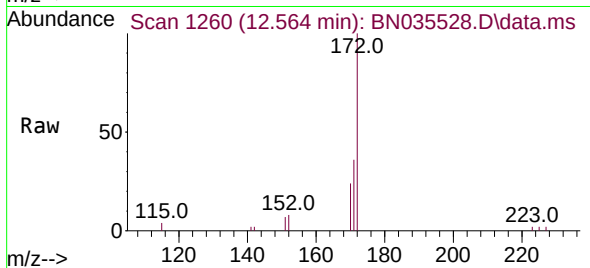
PB165497BS

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.4	19.8	29.8

Manual Integrations

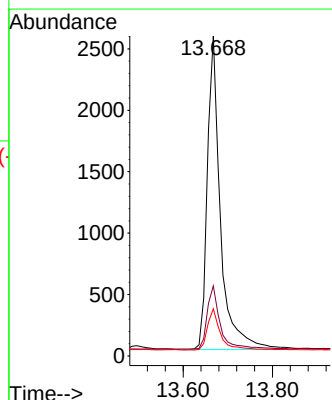
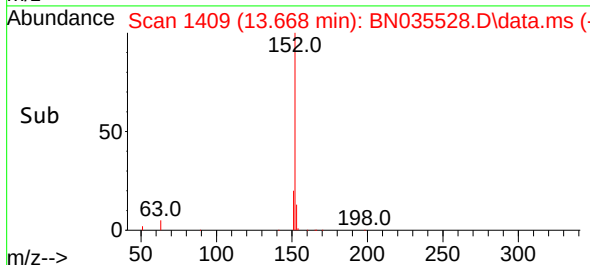
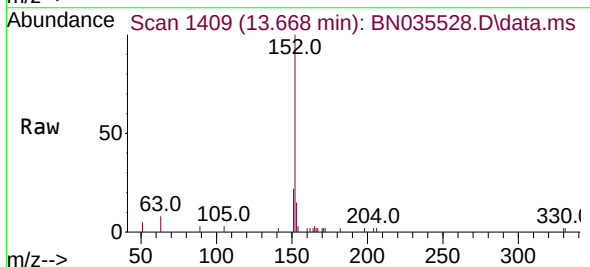
APPROVED

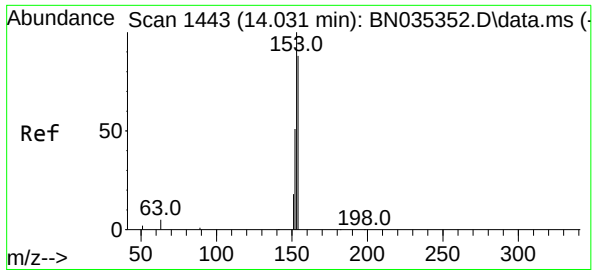
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#16
Acenaphthylene
Concen: 0.400 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

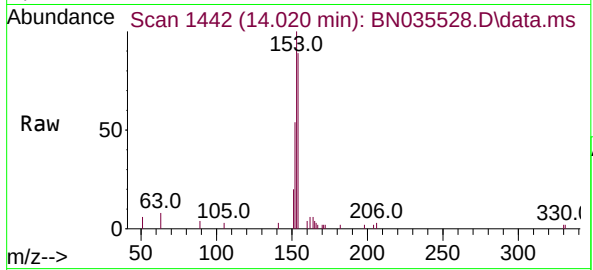
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.1	10.4	15.6





#17
Acenaphthene
Concen: 0.394 ng
RT: 14.020 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

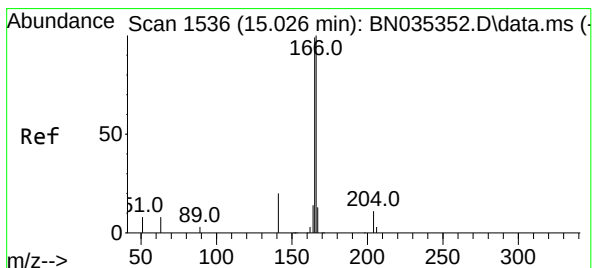
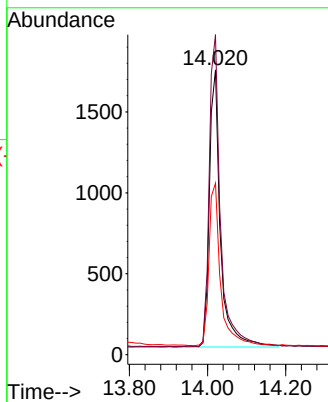
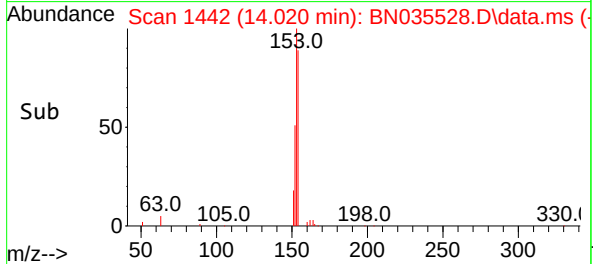
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:154 Resp: 3398
Ion Ratio Lower Upper
154 100
153 113.6 92.6 139.0
152 61.0 49.0 73.6

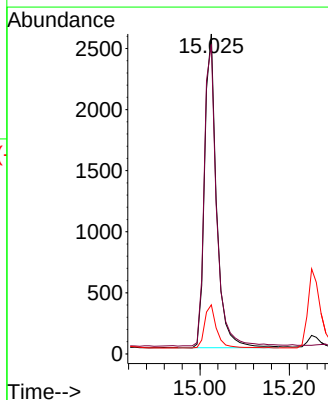
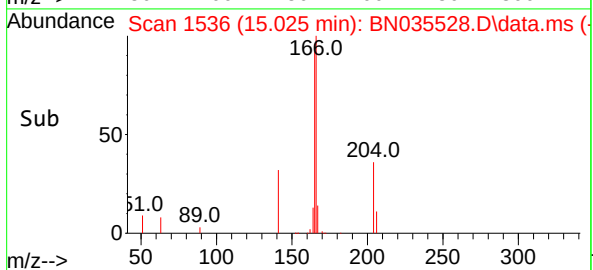
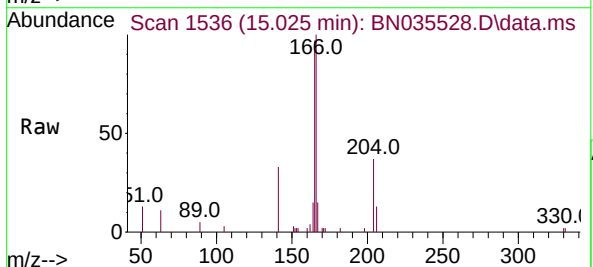
Manual Integrations
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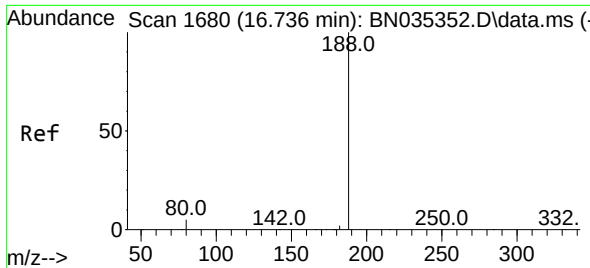
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.387 ng
RT: 15.025 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:166 Resp: 4774
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

Tgt Ion:188 Resp: 795

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

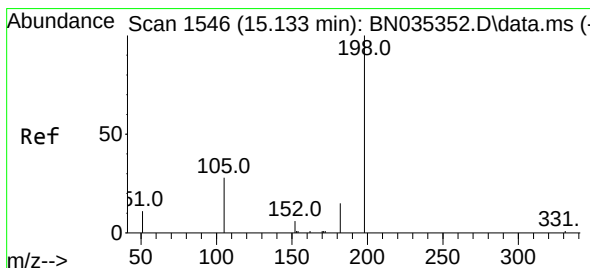
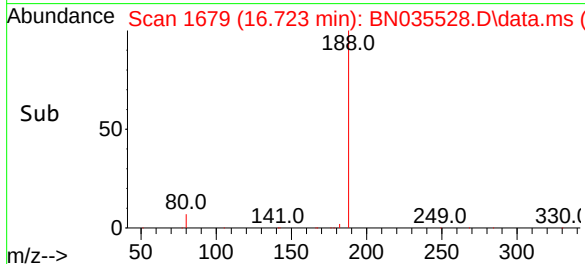
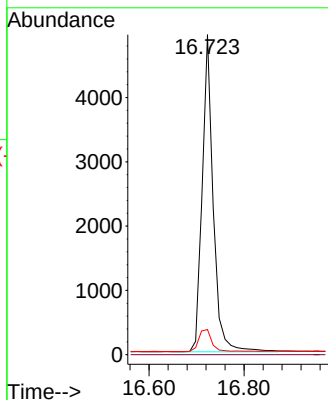
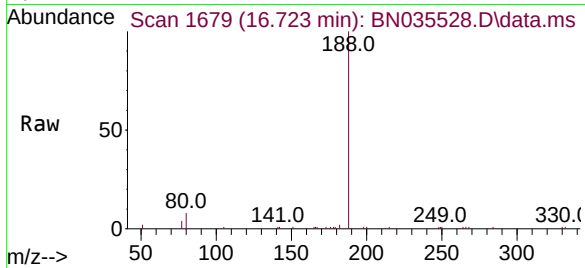
80 7.9 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.244 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

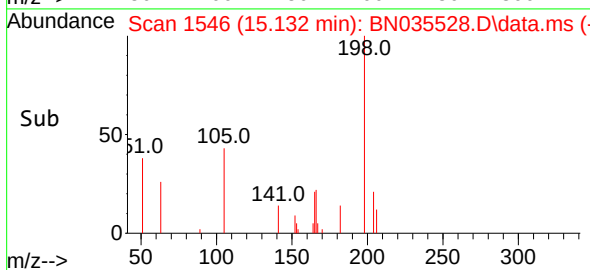
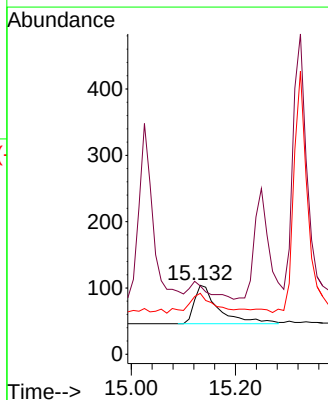
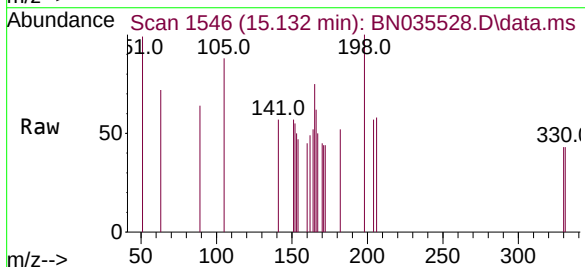
Tgt Ion:198 Resp: 191

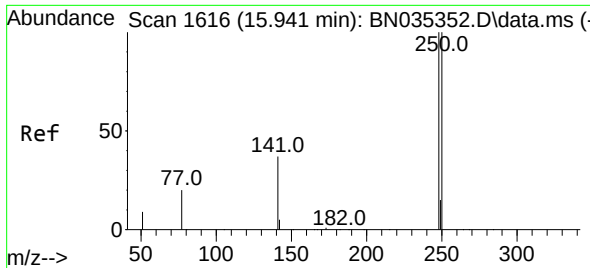
Ion Ratio Lower Upper

198 100

51 99.0 46.5 69.7#

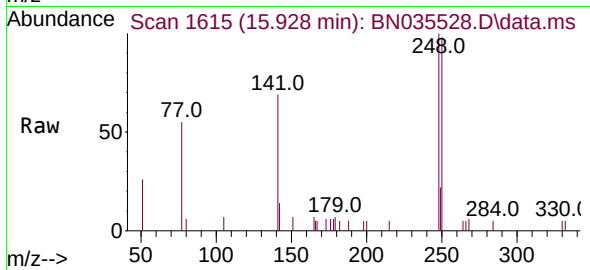
105 88.5 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 15.928 min Scan# 1615
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

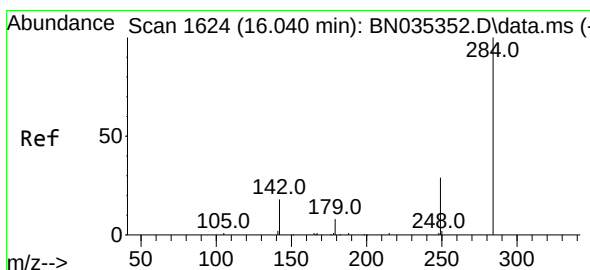
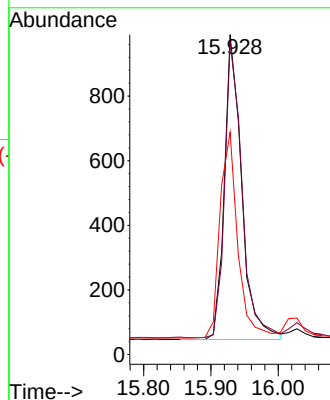
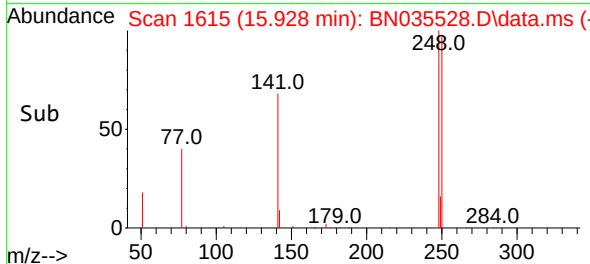
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:248 Resp: 1680
Ion Ratio Lower Upper
248 100
250 97.8 80.6 120.8
141 69.5 31.5 47.3

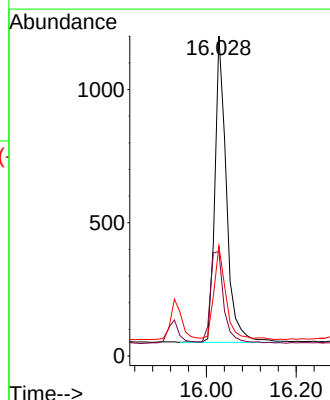
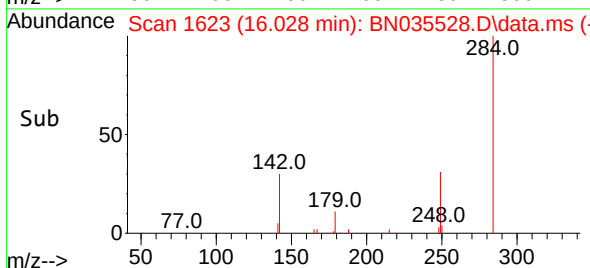
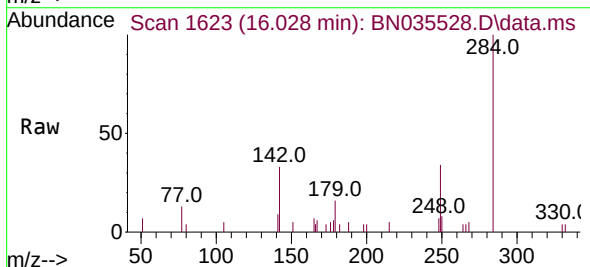
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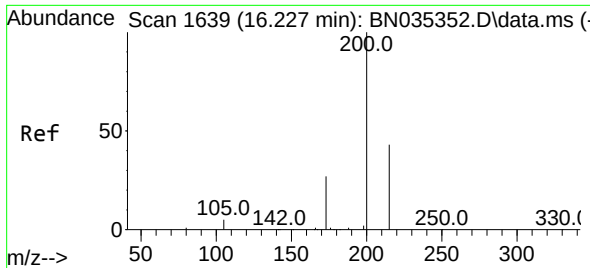
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:284 Resp: 2050
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 31.3 24.6 36.8





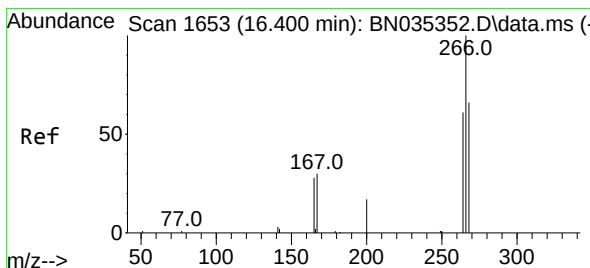
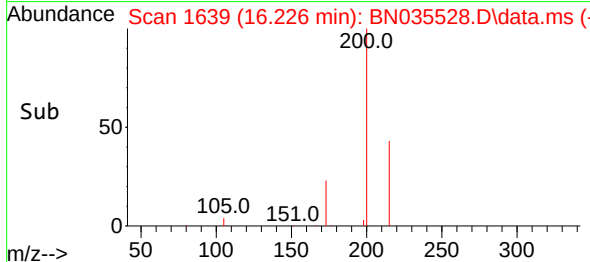
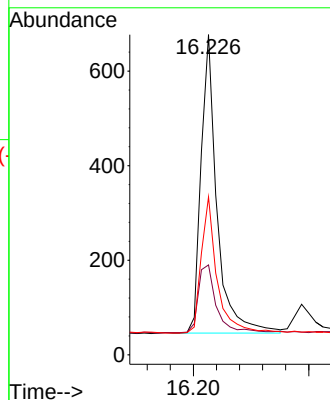
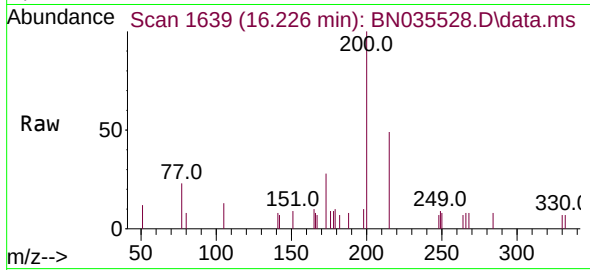
#23
Atrazine
Concen: 0.365 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:200 Resp: 1210
Ion Ratio Lower Upper
200 100
173 28.1 24.1 36.1
215 49.3 36.9 55.3

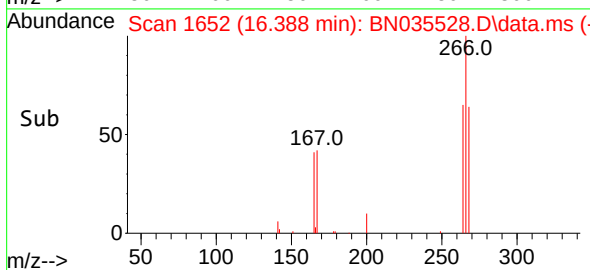
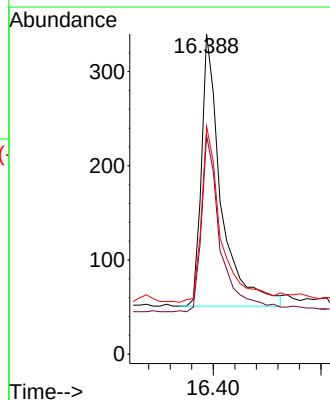
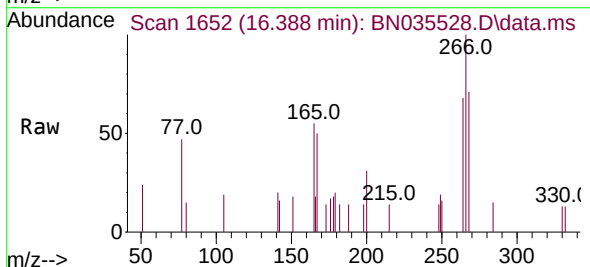
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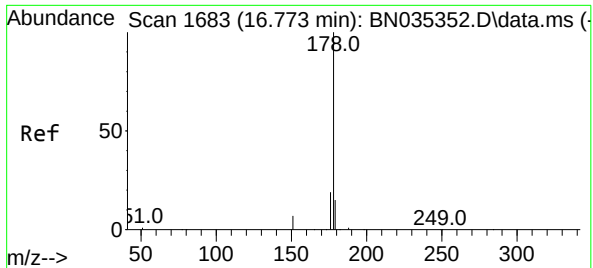
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.307 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

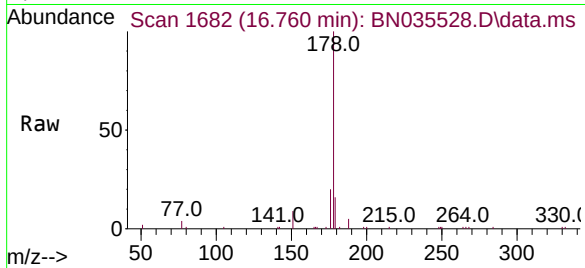
Tgt Ion:266 Resp: 731
Ion Ratio Lower Upper
266 100
264 63.5 42.3 63.5
268 65.0 43.3 64.9#





#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

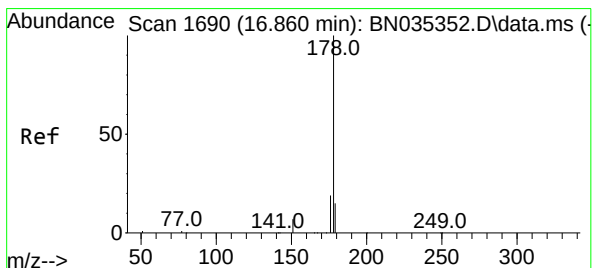
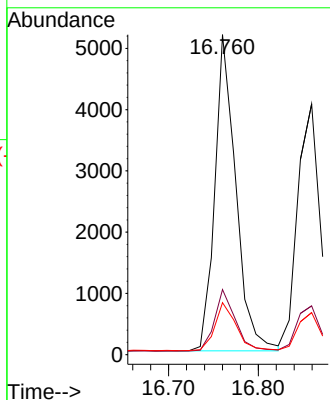
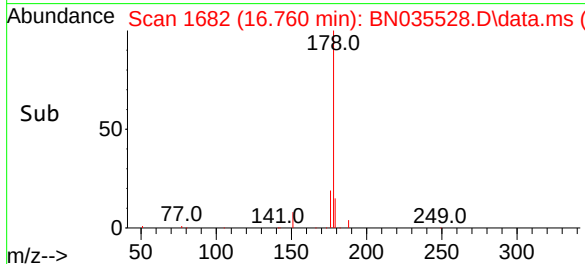
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:178 Resp: 842
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5

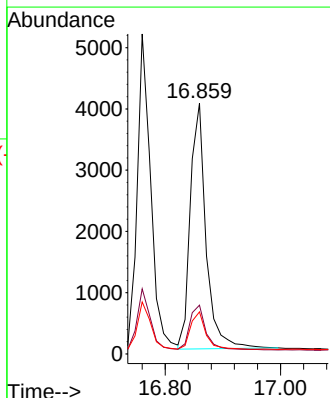
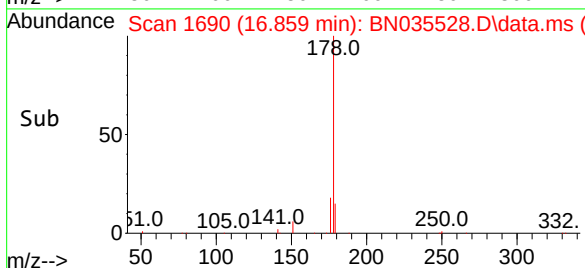
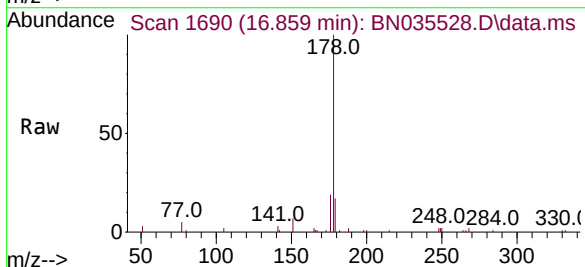
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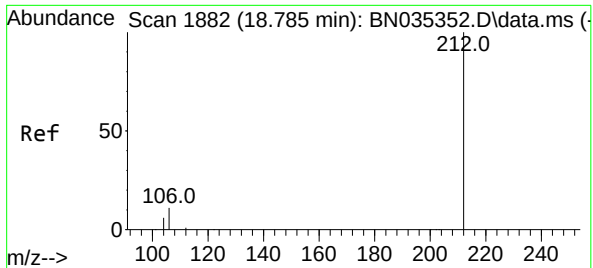
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.384 ng
RT: 16.859 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:178 Resp: 7595
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.5 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.377 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.010 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

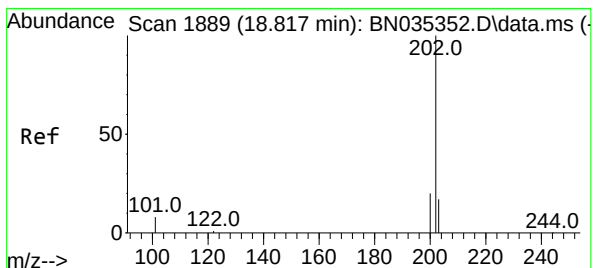
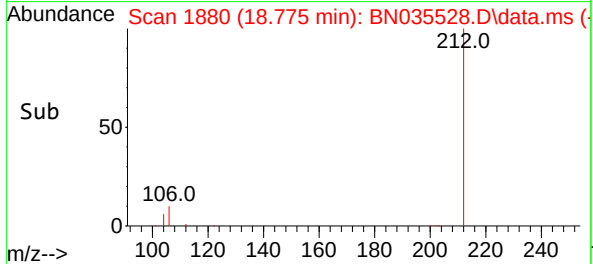
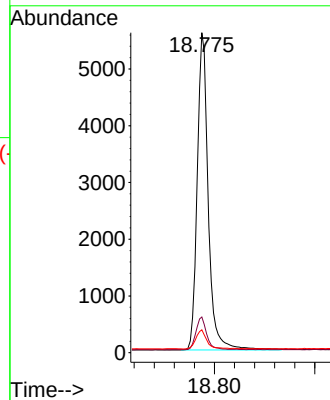
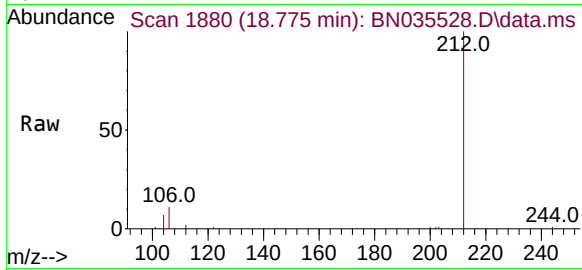
PB165497BS

Tgt Ion:	212	Resp:	850
Ion Ratio	Lower	Upper	
212	100		
106	10.0	9.2	13.8
104	6.0	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024



#28

Fluoranthene

Concen: 0.344 ng

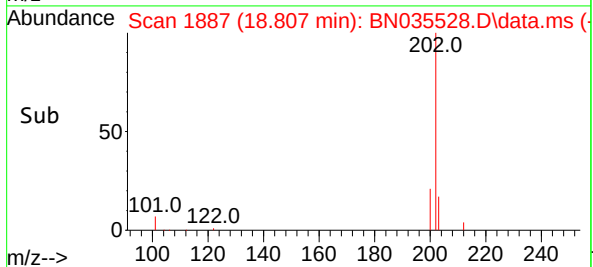
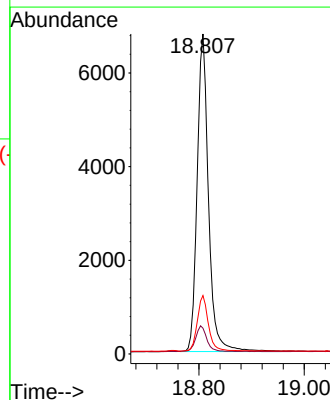
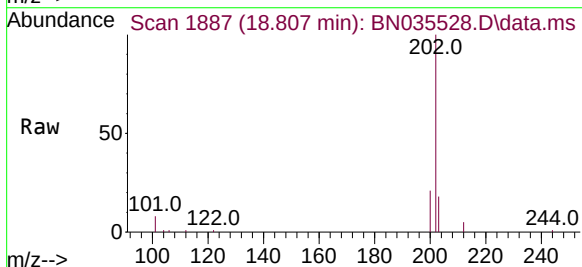
RT: 18.807 min Scan# 1887

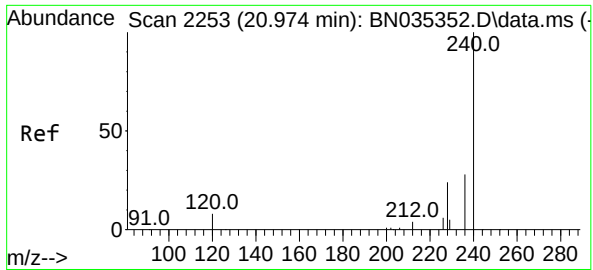
Delta R.T. -0.010 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Tgt Ion:	202	Resp:	10125
Ion Ratio	Lower	Upper	
202	100		
101	7.8	7.4	11.0
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.964 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

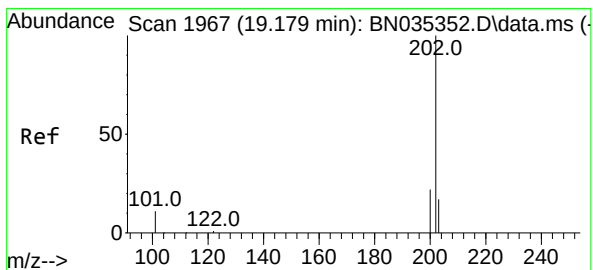
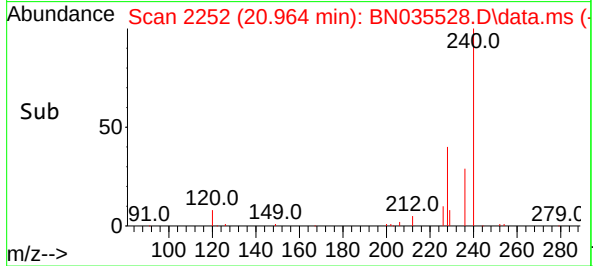
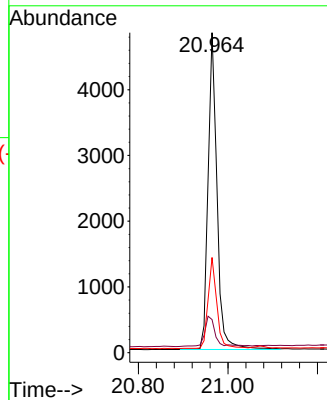
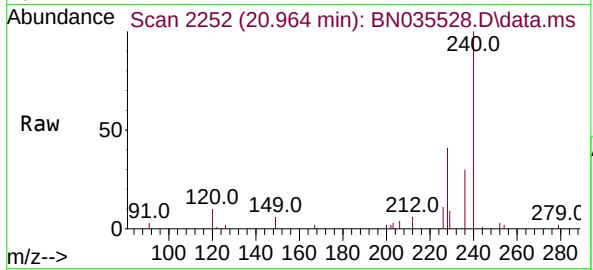
Tgt Ion:	240	Resp:	6690
Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.9	11.9
236	29.7	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#30

Pyrene

Concen: 0.421 ng

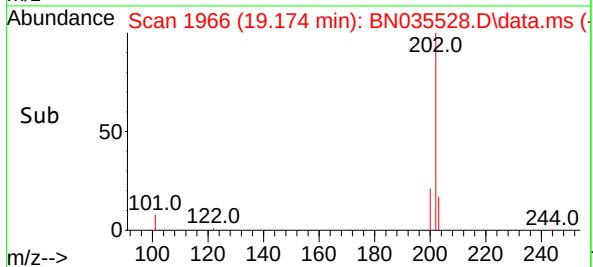
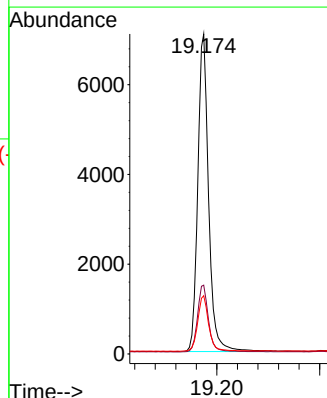
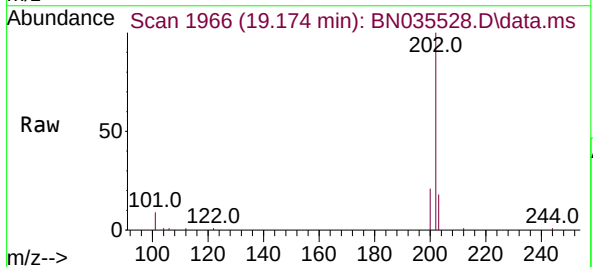
RT: 19.174 min Scan# 1966

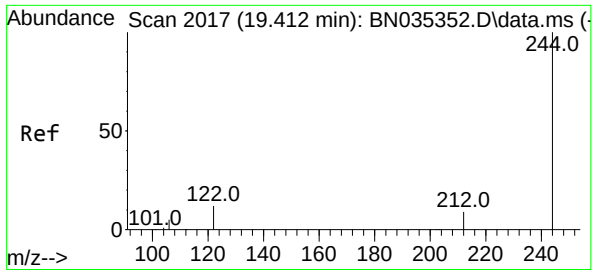
Delta R.T. -0.005 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Tgt Ion:	202	Resp:	10396
Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5





#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

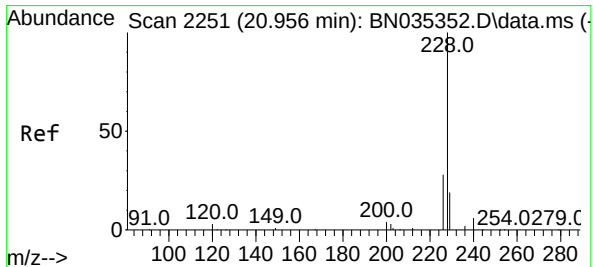
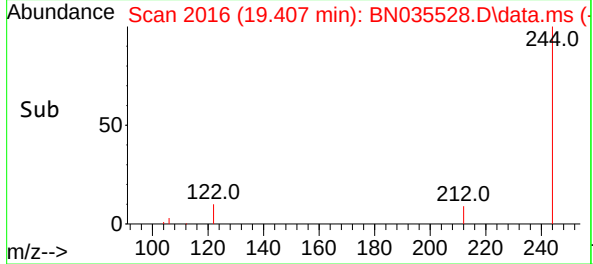
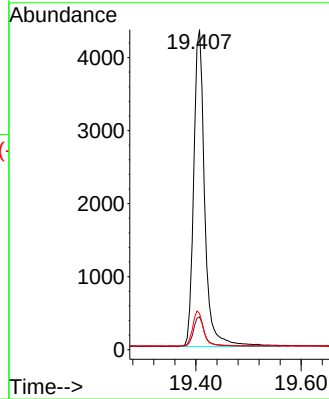
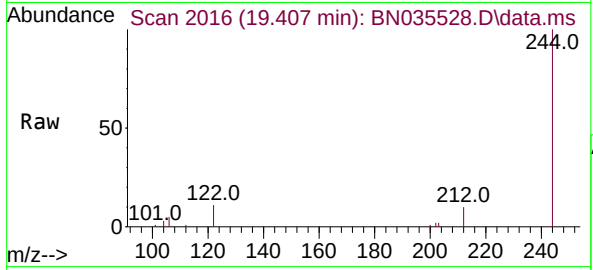
PB165497BS

Tgt Ion:244 Resp: 6284
Ion Ratio Lower Upper
244 100
212 10.2 8.1 12.1
122 11.3 10.3 15.5

Manual Integrations

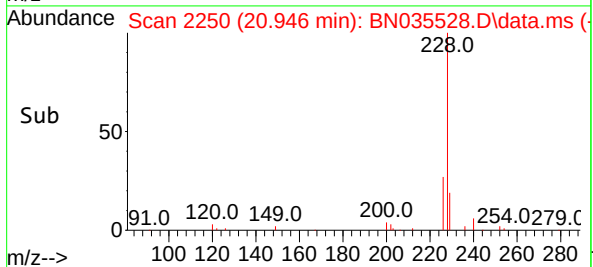
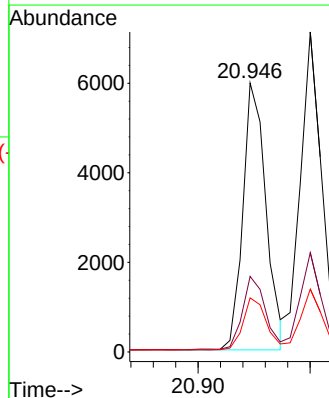
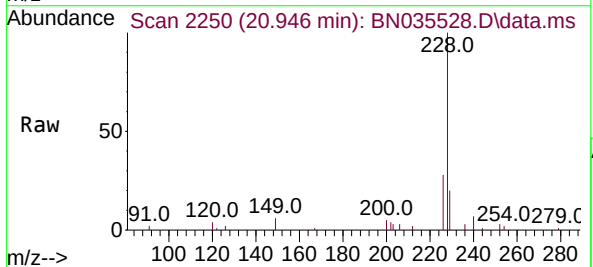
APPROVED

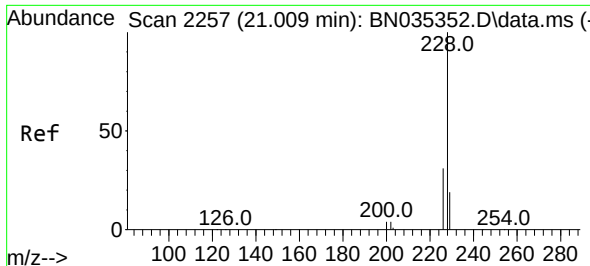
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.946 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:228 Resp: 8539
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.1 15.8 23.8





#33
Chrysene
Concen: 0.411 ng
RT: 21.000 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

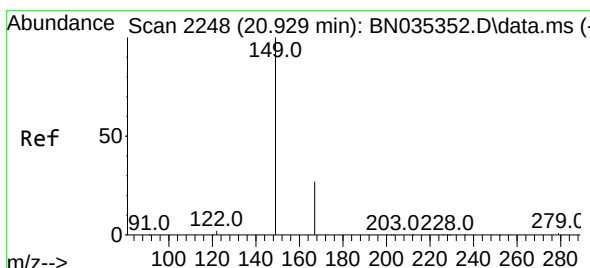
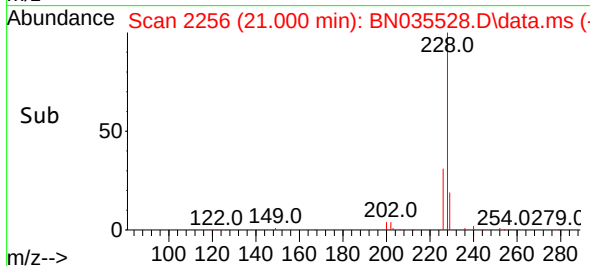
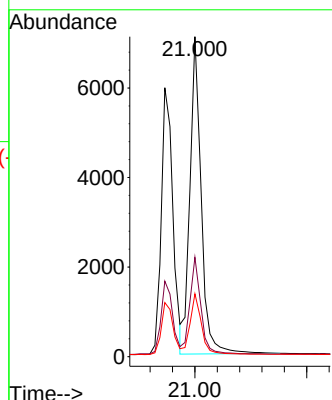
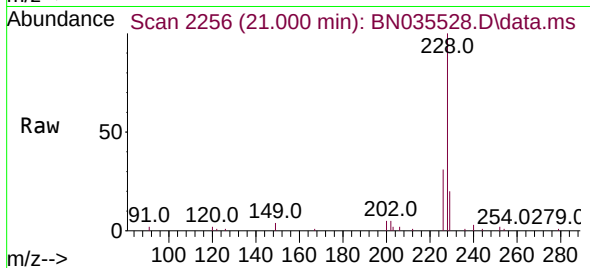
ClientSampleId :

PB165497BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	19.7	15.9	23.9

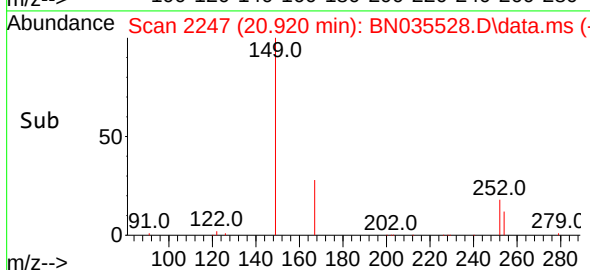
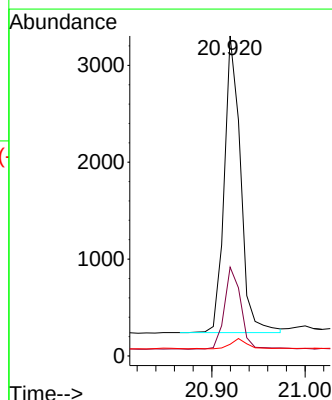
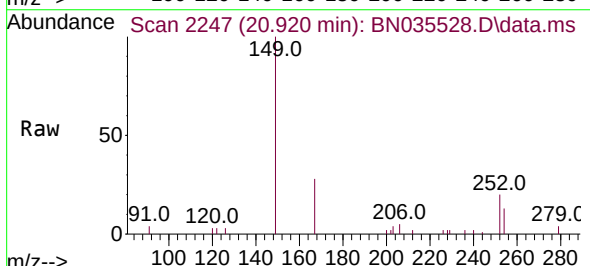
Manual Integrations
APPROVED

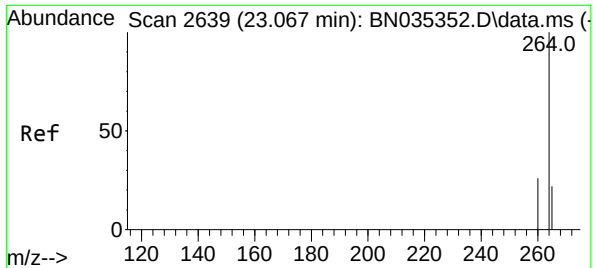
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

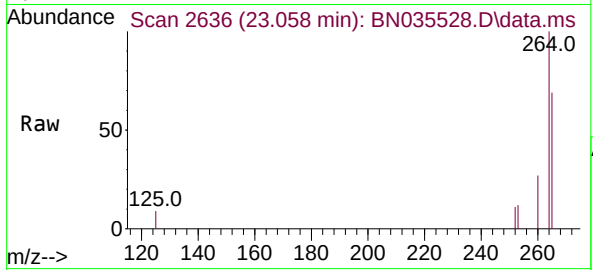
Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.5	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.058 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

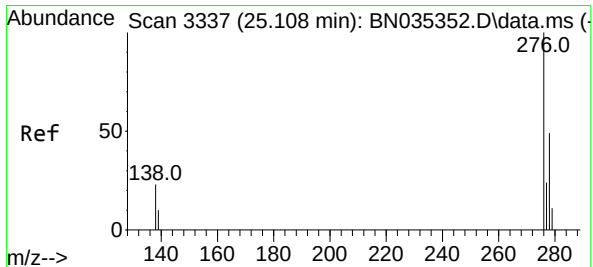
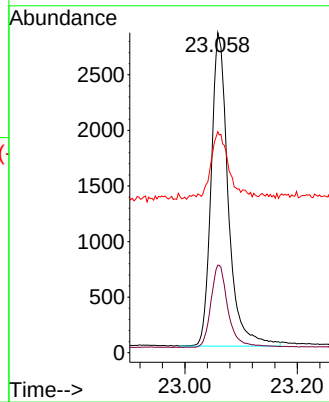
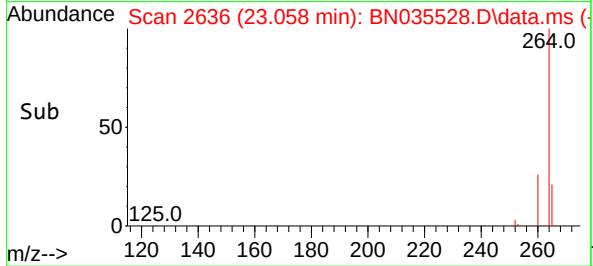
Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:264 Resp: 5945
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 69.1 40.2 60.4

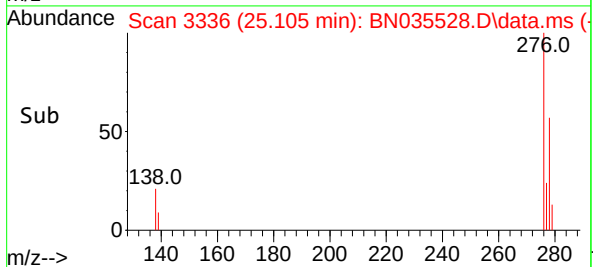
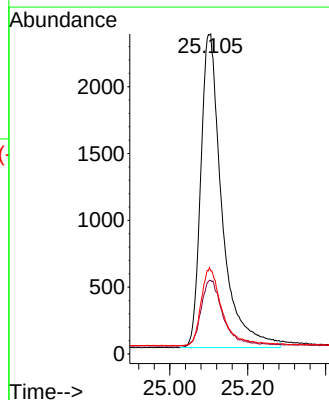
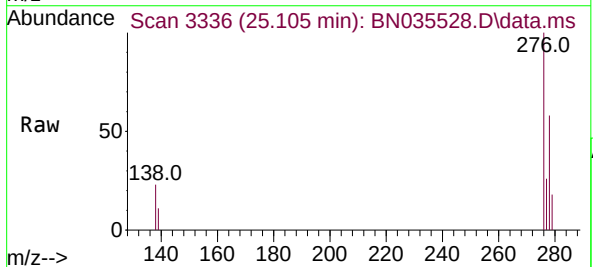
Manual Integrations
APPROVED

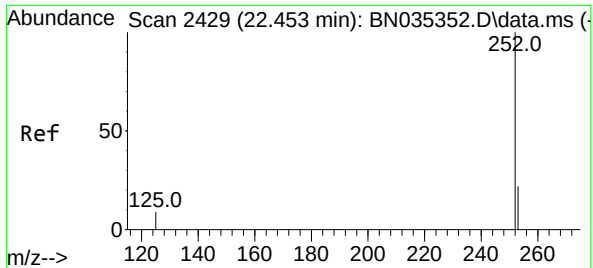
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:276 Resp: 8871
Ion Ratio Lower Upper
276 100
138 21.3 19.4 29.0
277 24.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.509 ng

RT: 22.444 min Scan# 2426

Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

Tgt Ion:252 Resp: 11072

Ion Ratio Lower Upper

252 100

253 25.3 19.6 29.4

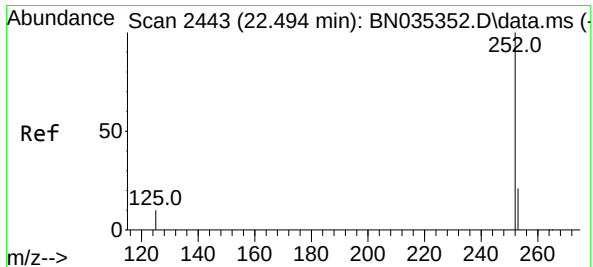
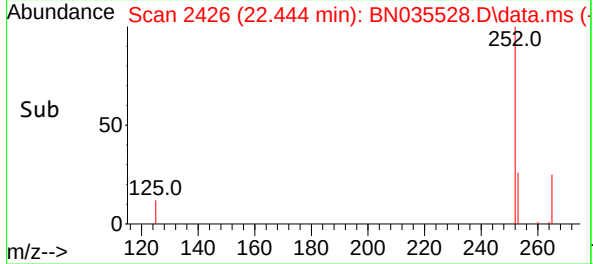
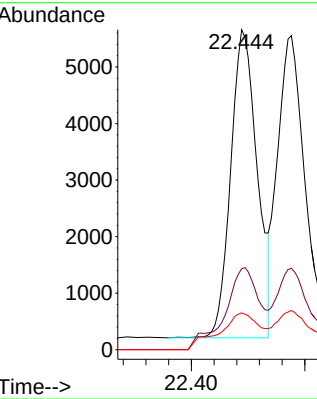
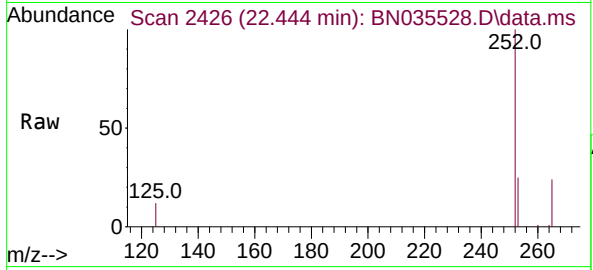
125 11.5 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.438 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

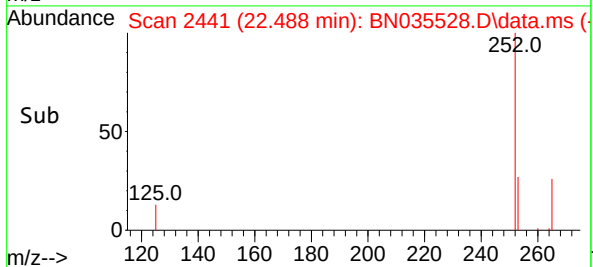
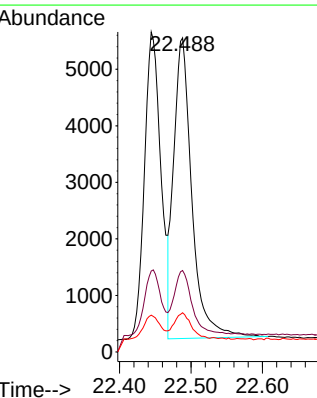
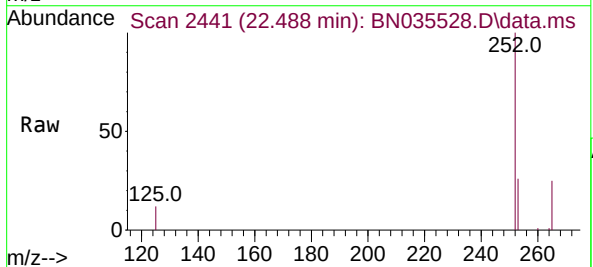
Tgt Ion:252 Resp: 9381

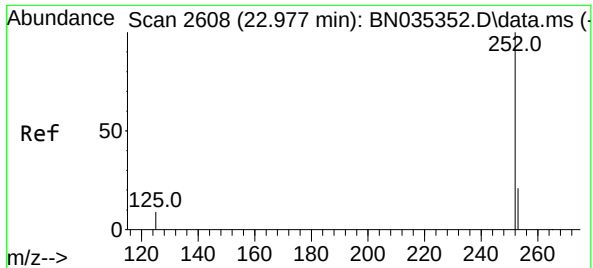
Ion Ratio Lower Upper

252 100

253 25.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.414 ng

RT: 22.971 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

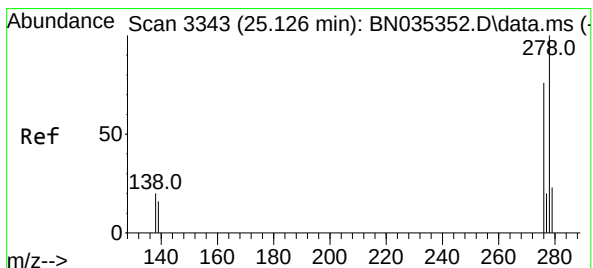
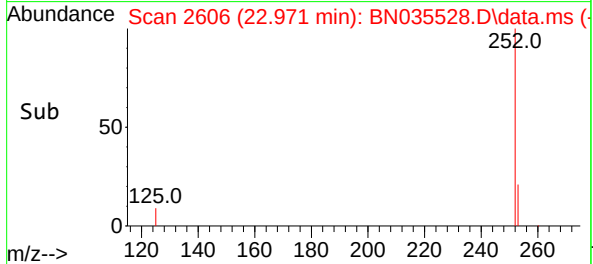
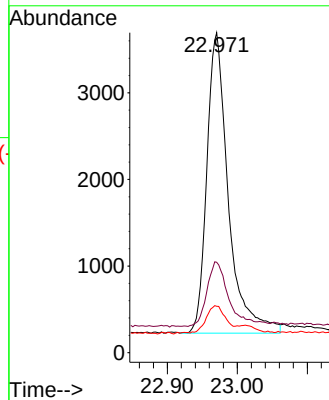
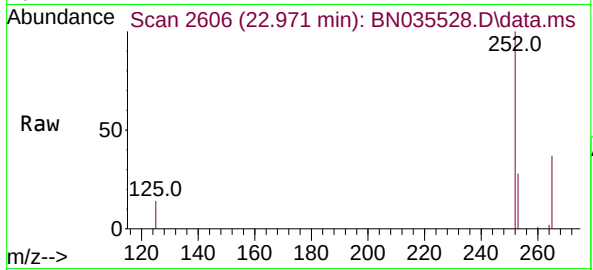
PB165497BS

Tgt Ion:	252	Resp:	741
Ion Ratio	Lower	Upper	
252	100		
253	28.3	20.2	30.4
125	14.5	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.349 ng

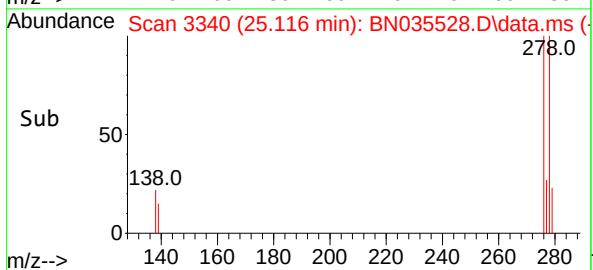
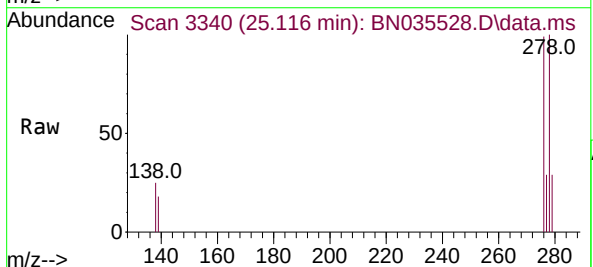
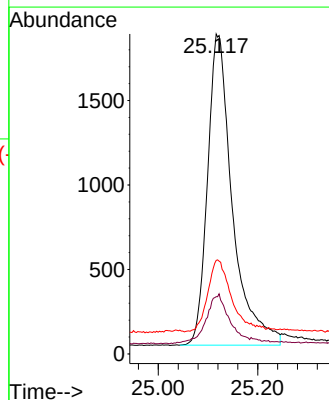
RT: 25.116 min Scan# 3340

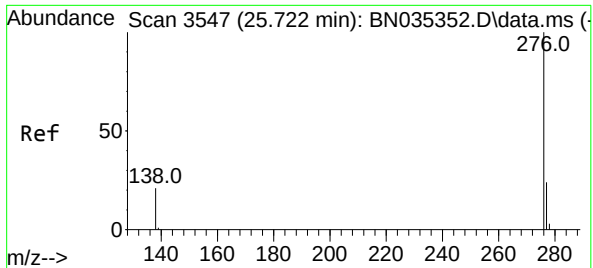
Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Tgt Ion:	278	Resp:	6401
Ion Ratio	Lower	Upper	
278	100		
139	17.9	14.2	21.4
279	29.3	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.381 ng

RT: 25.710 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN035528.D

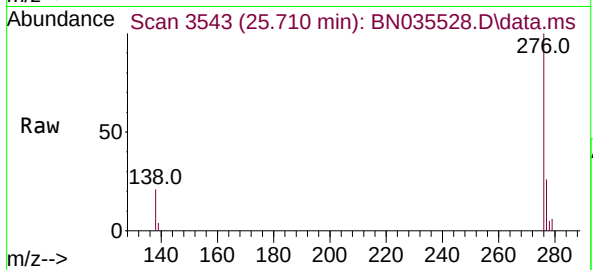
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS



Tgt Ion:276 Resp: 730

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

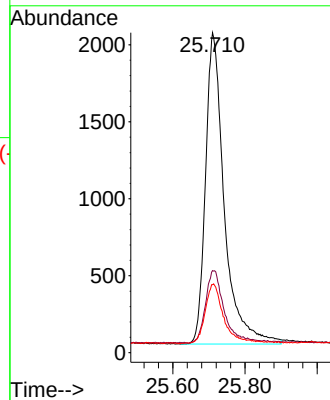
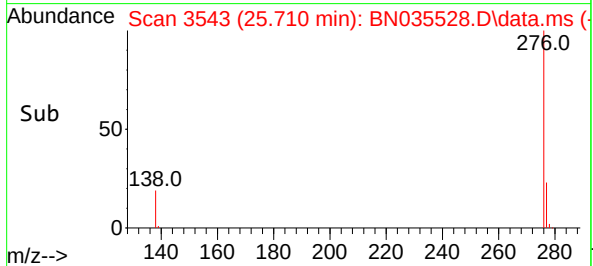
138 21.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BSD	SDG No.:	P5164
Lab Sample ID:	PB165497BSD	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
BN035529.D	1	12/09/24 11:27	12/10/24 12:03	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.293				
1146-65-2	Naphthalene-d8	5150	10.041				
15067-26-2	Acenaphthene-d10	3670	13.957				
1517-22-2	Phenanthrene-d10	9300	16.723				
1719-03-5	Chrysene-d12	7540	20.965				
1520-96-3	Perylene-d12	6740	23.062				

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\BN120924\
 Data File : BN035529.D
 Acq On : 10 Dec 2024 12:03
 Operator : RC/JU
 Sample : PB165497BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:29:35 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	1941	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	5150	0.400	ng	#-0.01
13) Acenaphthene-d10	13.957	164	3668	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9298	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7541	0.400	ng	# 0.00
35) Perylene-d12	23.062	264	6738	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1717	0.353	ng	-0.01
5) Phenol-d6	6.499	99	2115	0.362	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1343m	0.427	ng	-0.01
11) 2-Methylnaphthalene-d10	11.641	152	4295	0.533	ng	-0.02
14) 2,4,6-Tribromophenol	15.475	330	578	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5507	0.397	ng	-0.01
27) Fluoranthene-d10	18.775	212	9641	0.366	ng	0.00
31) Terphenyl-d14	19.407	244	7098	0.477	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	647	0.349	ng	# 56
3) n-Nitrosodimethylamine	3.285	42	661	0.428	ng	# 94
6) bis(2-Chloroethyl)ether	6.744	93	1900	0.387	ng	99
9) Naphthalene	10.084	128	5241	0.386	ng	99
10) Hexachlorobutadiene	10.383	225	1268	0.405	ng	# 98
12) 2-Methylnaphthalene	11.717	142	3778	0.388	ng	98
16) Acenaphthylene	13.668	152	6063	0.394	ng	99
17) Acenaphthene	14.021	154	4005	0.392	ng	100
18) Fluorene	15.026	166	5751	0.393	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	209	0.229	ng	# 59
21) 4-Bromophenyl-phenylether	15.929	248	2020	0.371	ng	# 83
22) Hexachlorobenzene	16.028	284	2497	0.391	ng	98
23) Atrazine	16.227	200	1417	0.366	ng	95
24) Pentachlorophenol	16.388	266	914	0.329	ng	89
25) Phenanthrene	16.760	178	9843	0.385	ng	100
26) Anthracene	16.860	178	8899	0.385	ng	99
28) Fluoranthene	18.808	202	11483	0.334	ng	98
30) Pyrene	19.175	202	11774	0.423	ng	100
32) Benzo(a)anthracene	20.956	228	10084	0.382	ng	99
33) Chrysene	21.001	228	10858	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	4232	0.406	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	9995	0.379	ng	96
37) Benzo(b)fluoranthene	22.450	252	11361	0.461	ng	98
38) Benzo(k)fluoranthene	22.491	252	10907	0.450	ng	97
39) Benzo(a)pyrene	22.971	252	8432	0.415	ng	97
40) Dibenzo(a,h)anthracene	25.126	278	7420	0.357	ng	96
41) Benzo(g,h,i)perylene	25.713	276	8161	0.376	ng	98

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

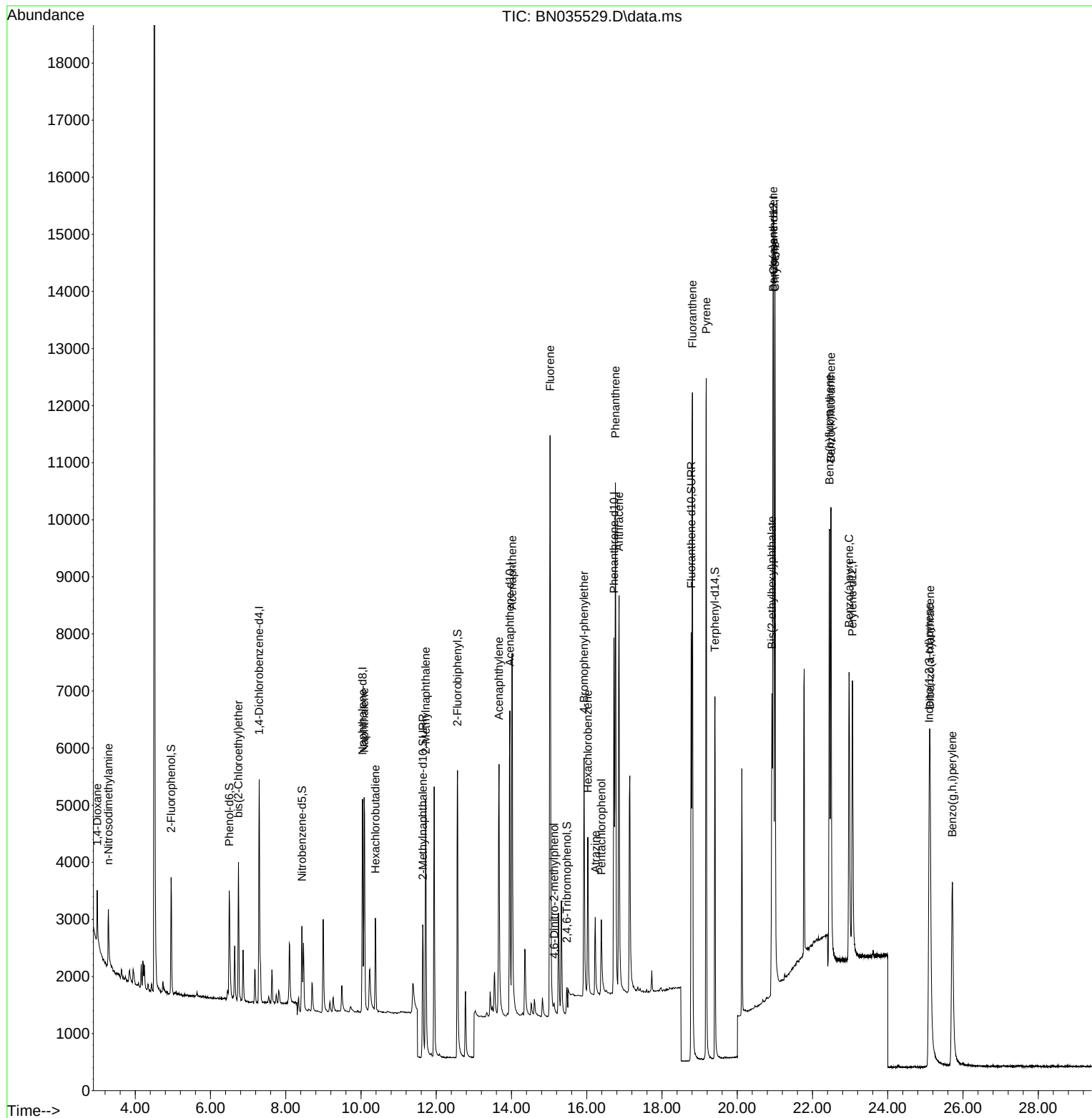
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035529.D
 Acq On : 10 Dec 2024 12:03
 Operator : RC/JU
 Sample : PB165497BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

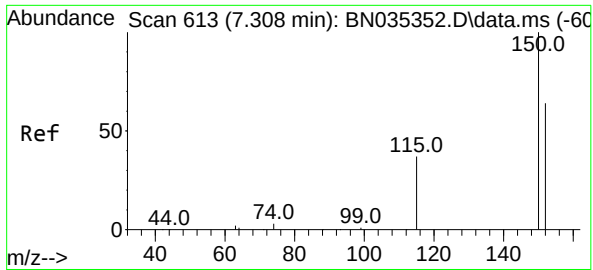
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
 Supervised By :mohammad ahmed 12/11/2024

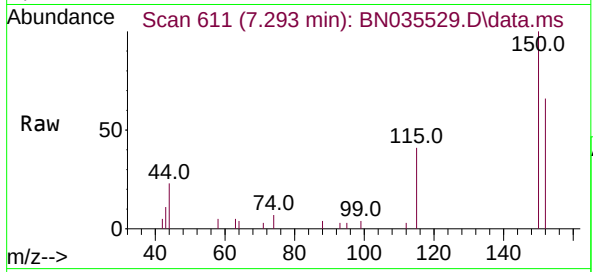
Quant Time: Dec 10 12:29:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

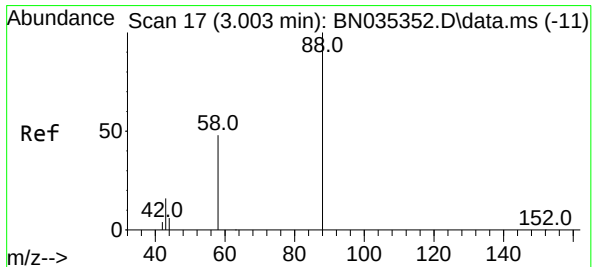
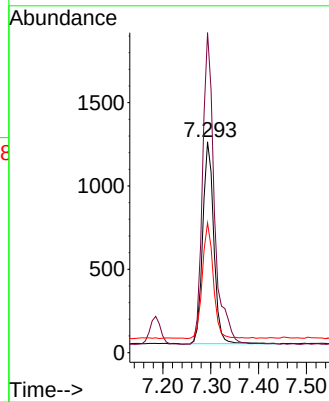
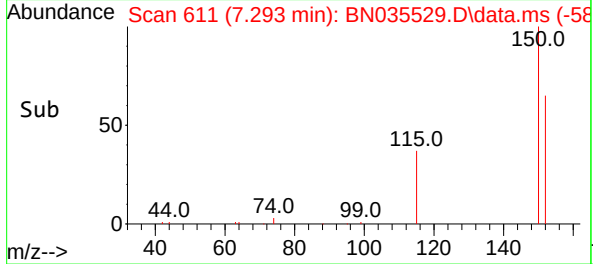
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:152 Resp: 194
Ion Ratio Lower Upper
152 100
150 151.8 124.0 186.0
115 61.5 49.6 74.4

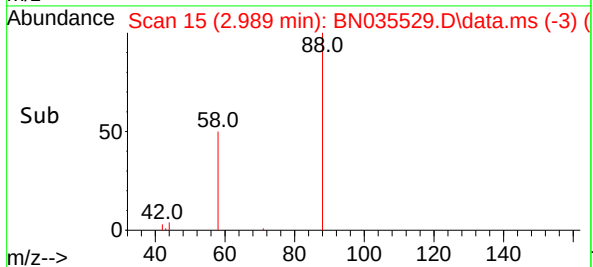
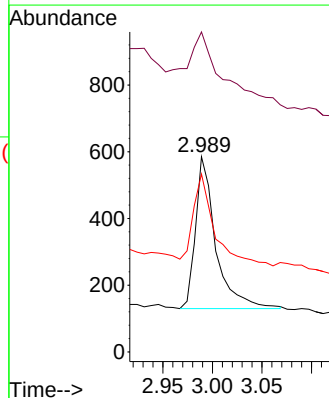
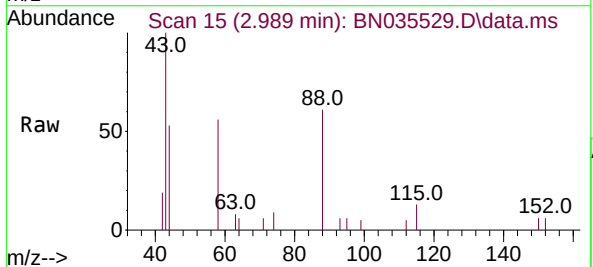
Manual Integrations
APPROVED

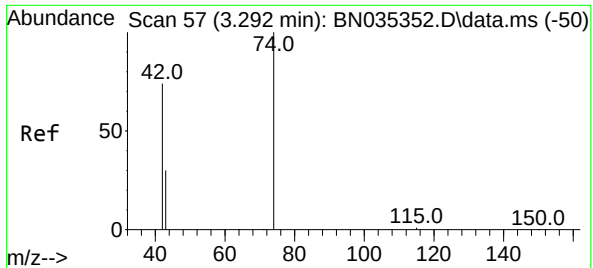
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#2
1,4-Dioxane
Concen: 0.349 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

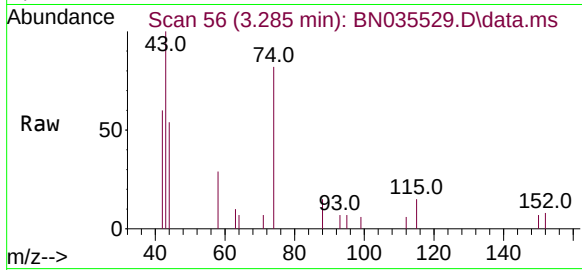
Tgt Ion: 88 Resp: 647
Ion Ratio Lower Upper
88 100
43 81.6 17.2 25.8
58 63.8 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

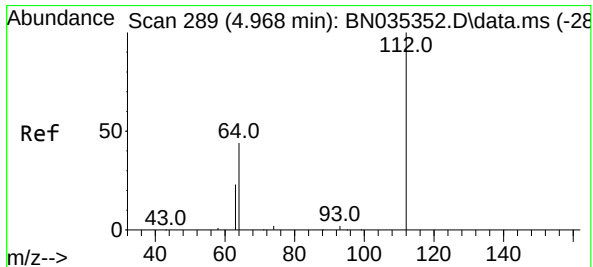
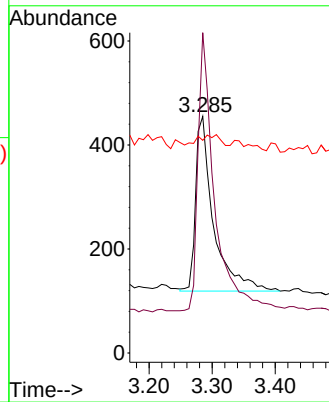
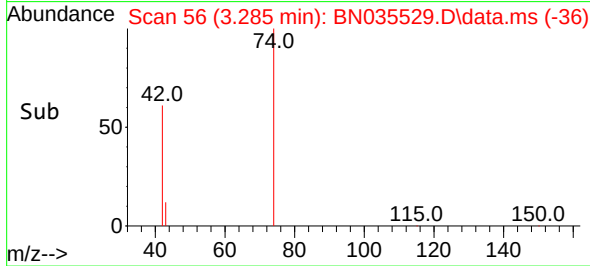
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion: 42 Resp: 66
Ion Ratio Lower Upper
42 100
74 148.9 124.9 187.3
44 0.0 2.2 3.4

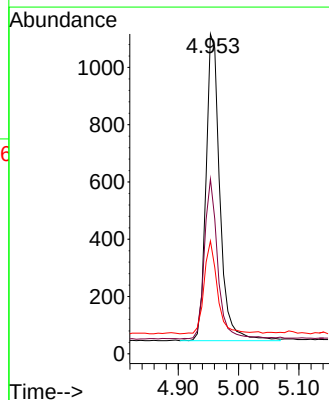
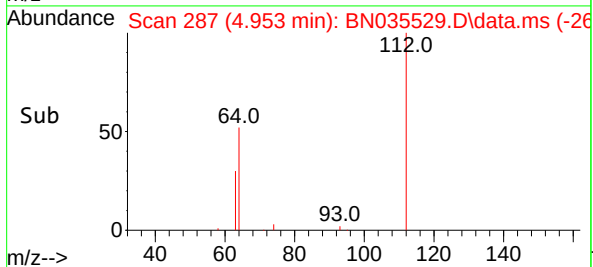
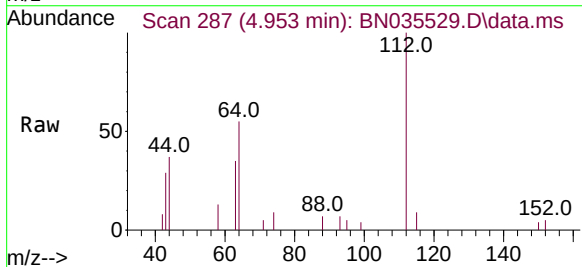
Manual Integrations
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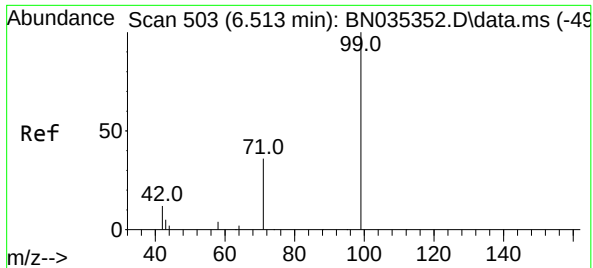
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:112 Resp: 1717
Ion Ratio Lower Upper
112 100
64 50.2 39.8 59.8
63 28.9 21.0 31.6





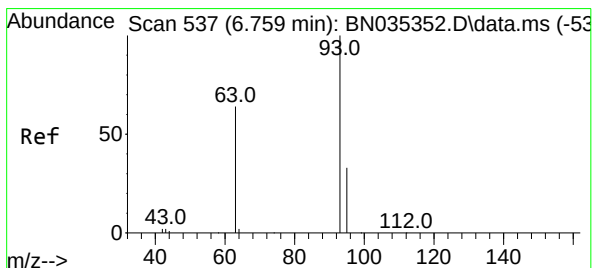
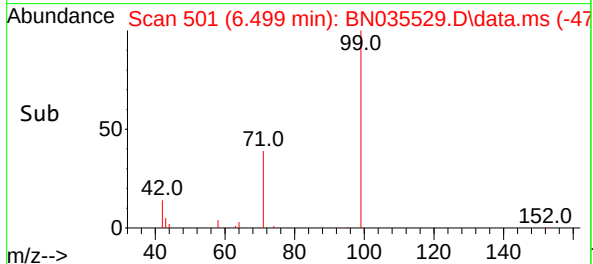
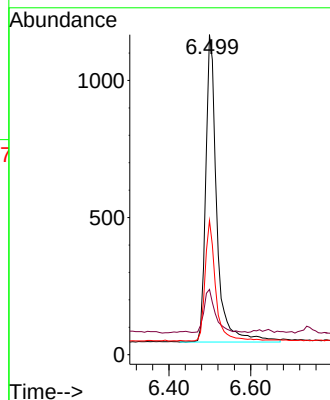
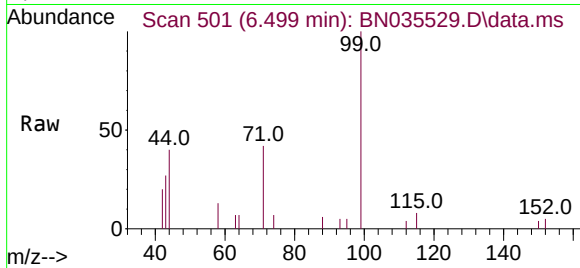
#5
Phenol-d6
Concen: 0.362 ng
RT: 6.499 min Scan# 503
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion: 99 Resp: 211
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.2
71 37.3 29.3 43.9

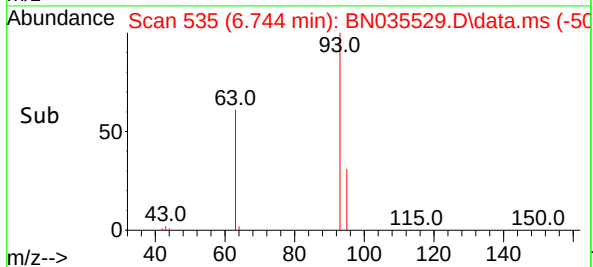
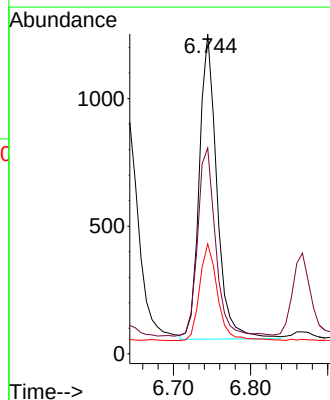
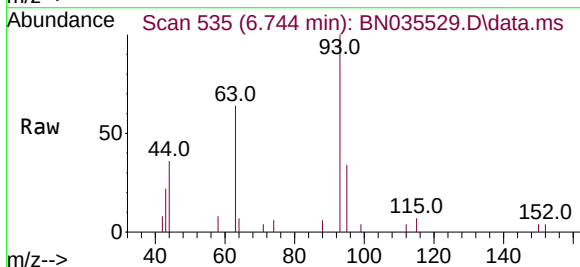
Manual Integrations
APPROVED

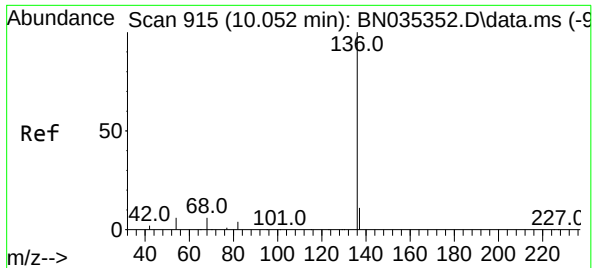
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

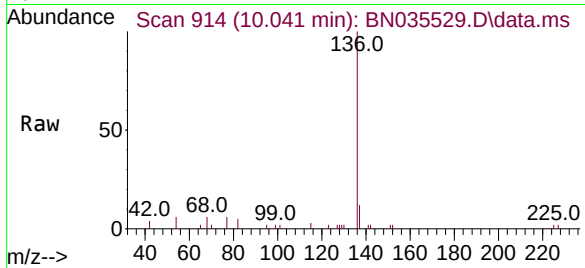
Tgt Ion: 93 Resp: 1900
Ion Ratio Lower Upper
93 100
63 62.2 50.4 75.6
95 32.2 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

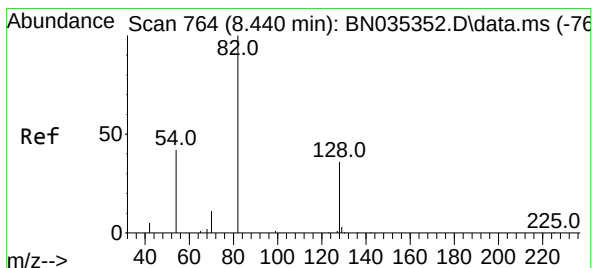
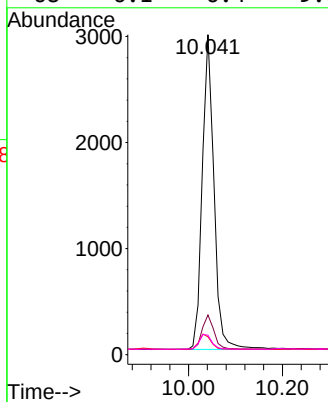
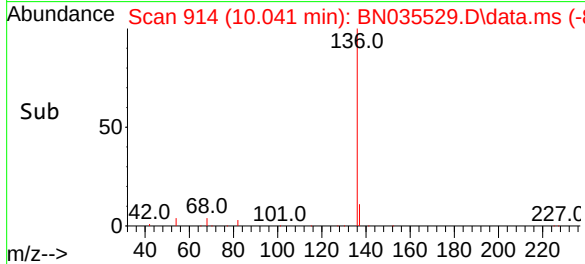
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:136 Resp: 5150
Ion Ratio Lower Upper
136 100
137 12.4 10.2 15.2
54 5.6 6.1 9.1
68 6.1 6.4 9.6#

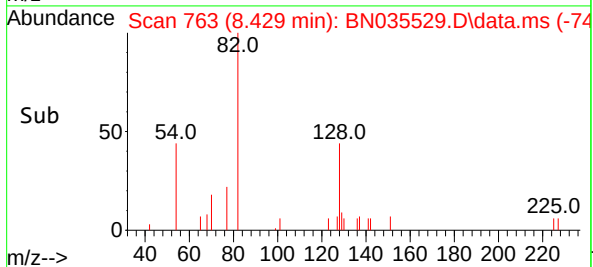
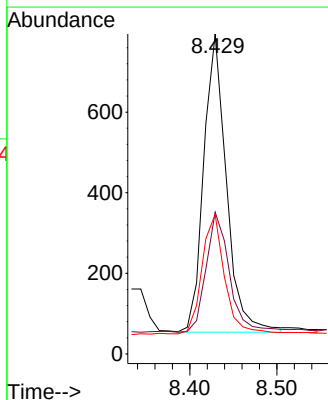
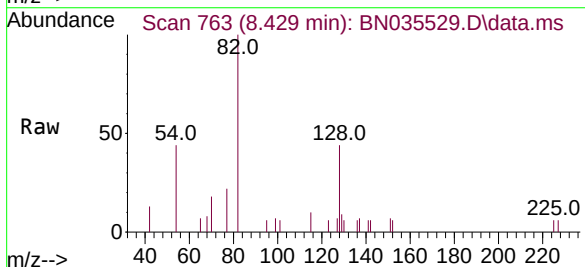
Manual Integrations
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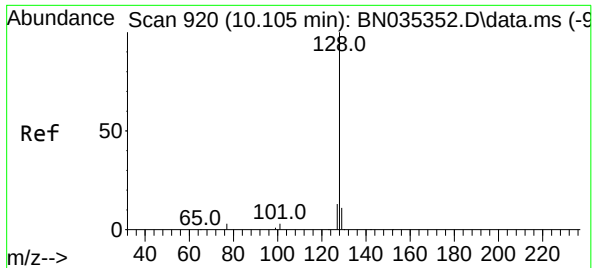
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#8
Nitrobenzene-d5
Concen: 0.427 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 82 Resp: 1343
Ion Ratio Lower Upper
82 100
128 44.3 33.4 50.0
54 43.6 36.7 55.1





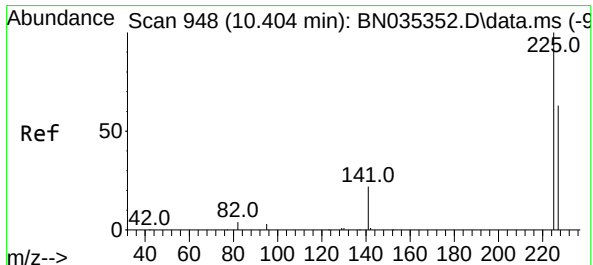
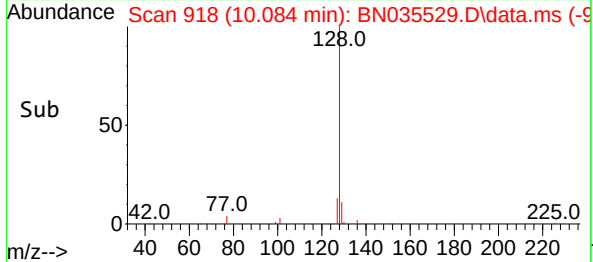
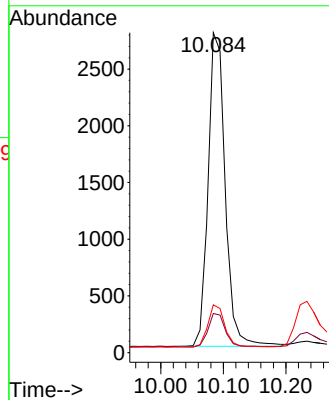
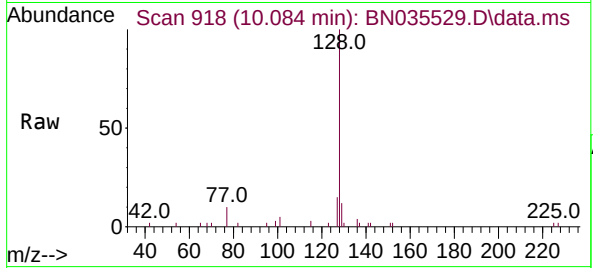
#9
Naphthalene
Concen: 0.386 ng
RT: 10.084 min Scan# 918
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:128 Resp: 524
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.9 11.4 17.2

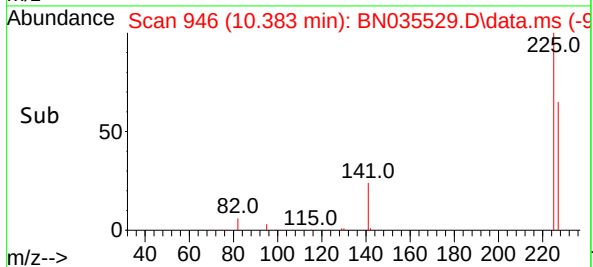
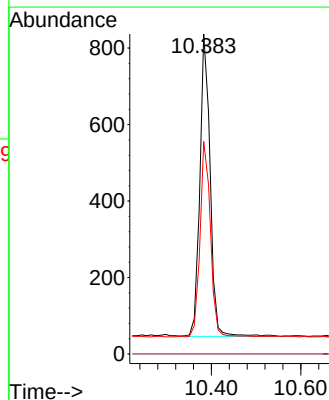
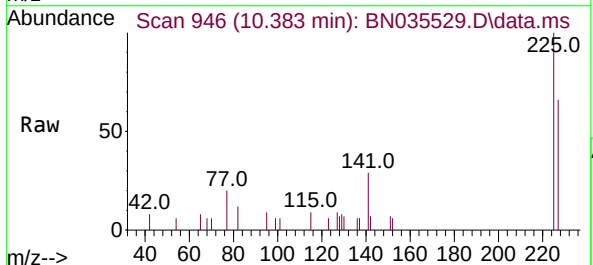
Manual Integrations
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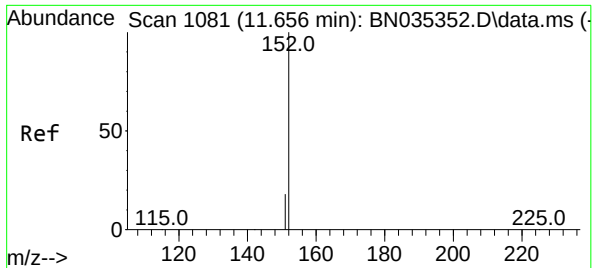
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:225 Resp: 1268
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.3 51.3 76.9





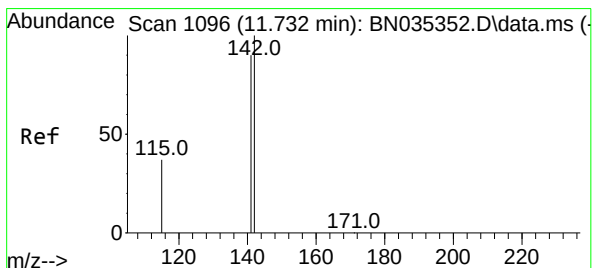
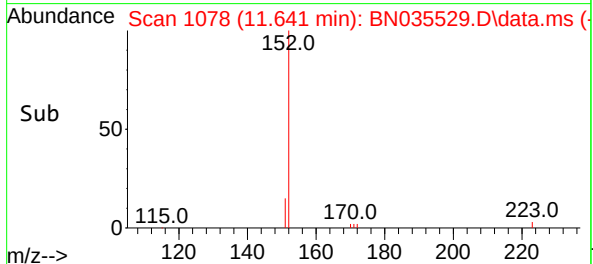
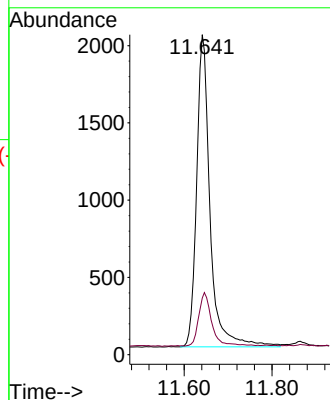
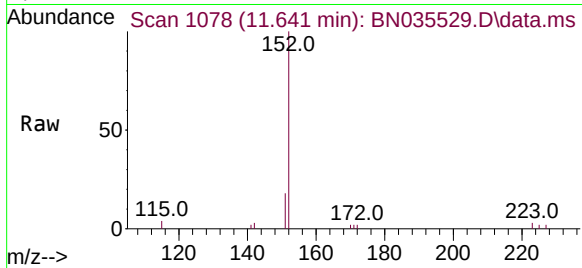
#11
2-Methylnaphthalene-d10
Concen: 0.533 ng
RT: 11.641 min Scan# 1078
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:152 Resp: 429
Ion Ratio Lower Upper
152 100
151 16.8 16.6 25.0

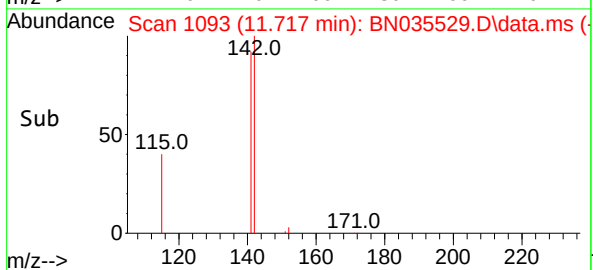
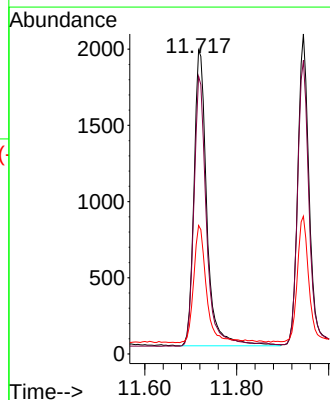
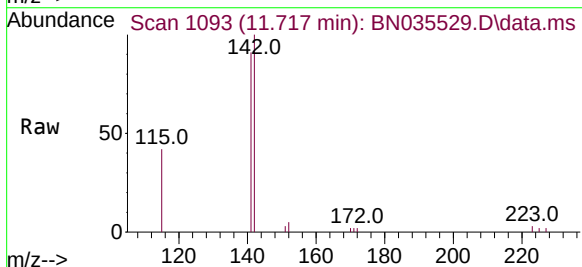
Manual Integrations
APPROVED

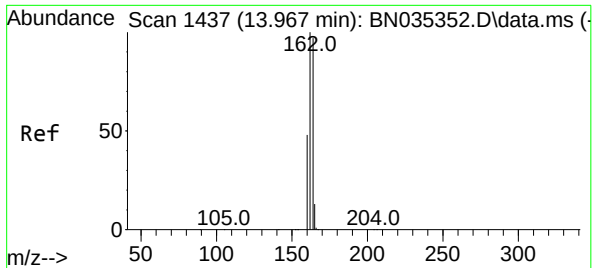
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

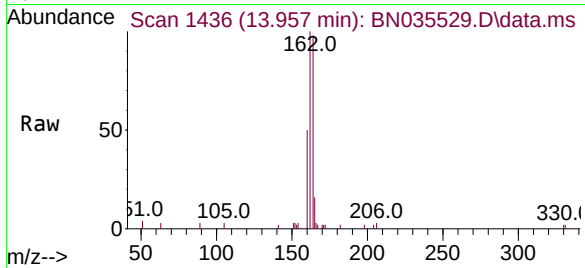
Tgt Ion:142 Resp: 3778
Ion Ratio Lower Upper
142 100
141 91.4 72.2 108.4
115 42.3 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

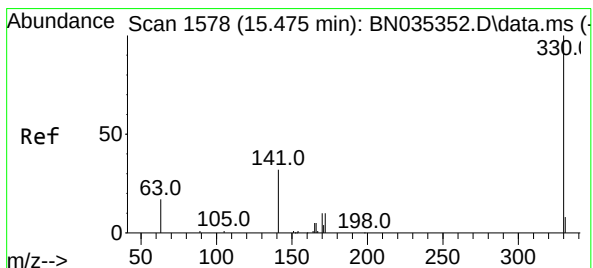
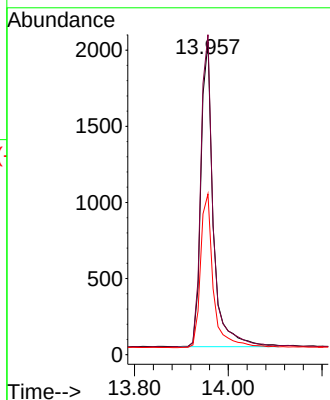
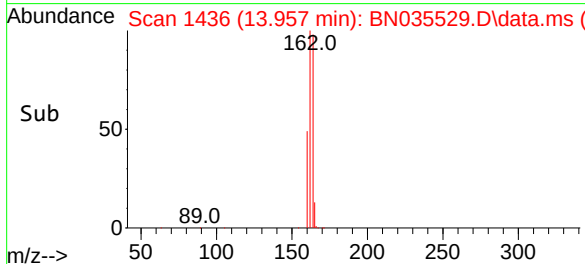
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



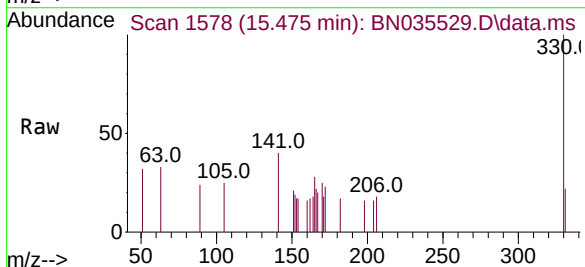
Tgt Ion:164 Resp: 366
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.3 40.1 60.1

Manual Integrations
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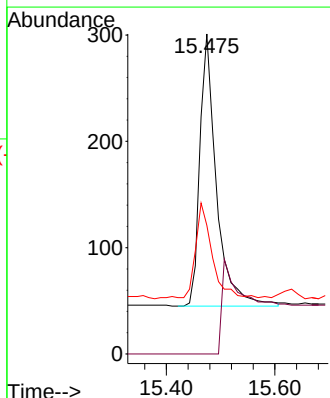
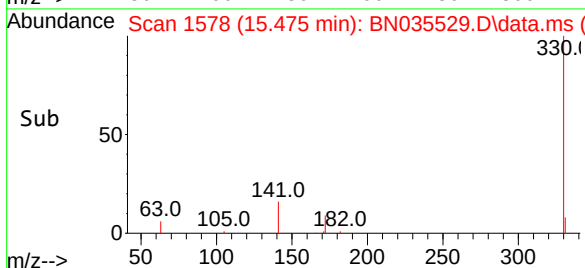
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

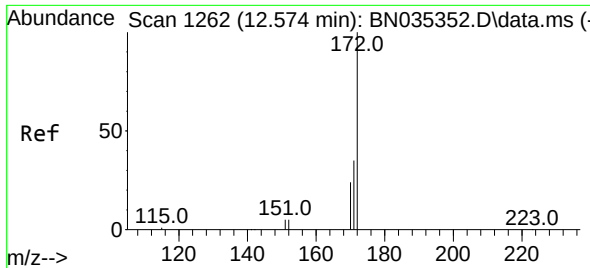


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03



Tgt Ion:330 Resp: 578
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0





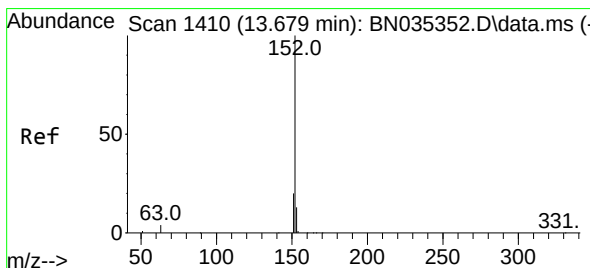
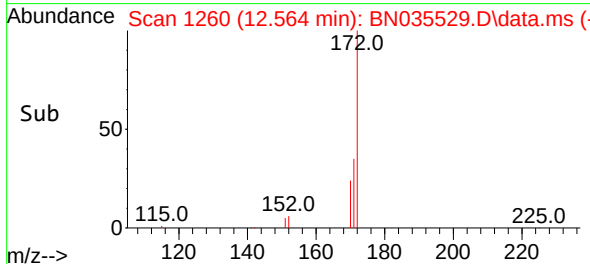
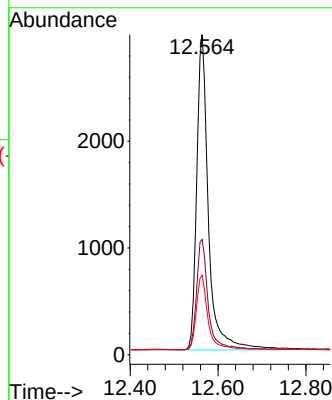
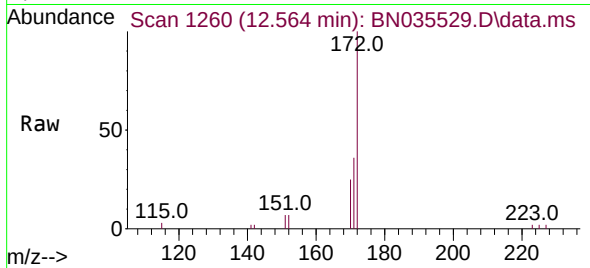
#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:172 Resp: 550
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.8 19.8 29.8

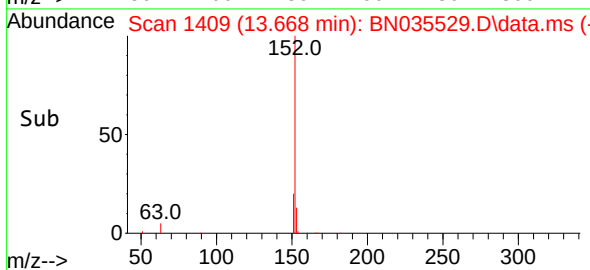
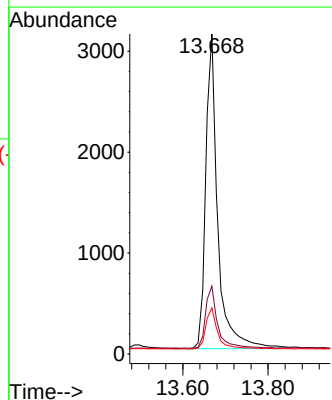
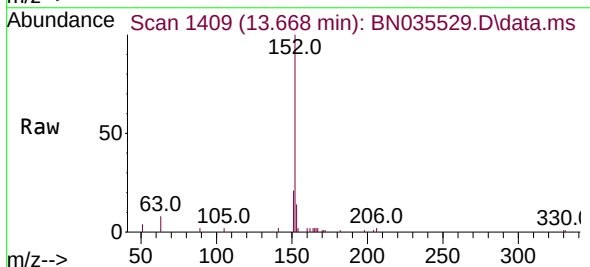
Manual Integrations
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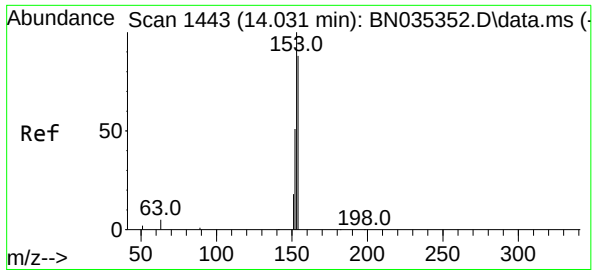
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

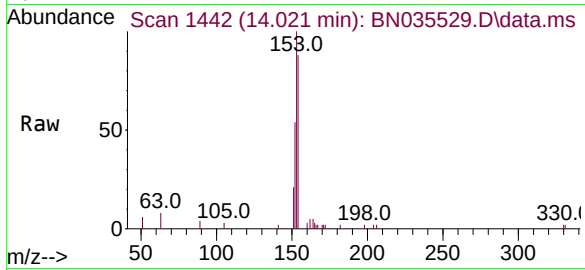
Tgt Ion:152 Resp: 6063
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

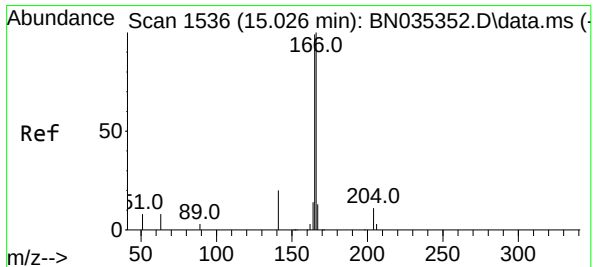
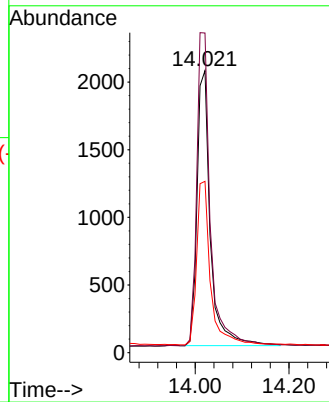
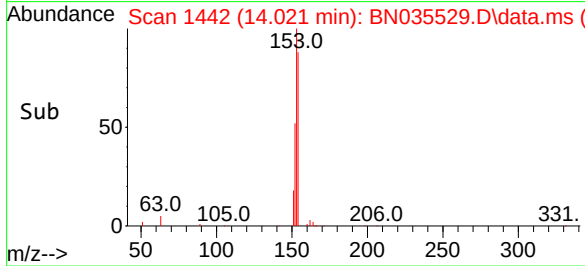
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:154 Resp: 400
Ion Ratio Lower Upper
154 100
153 116.4 92.6 139.0
152 61.4 49.0 73.6

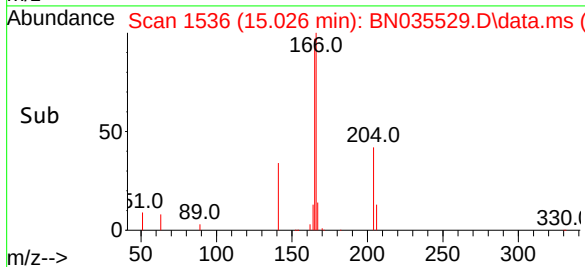
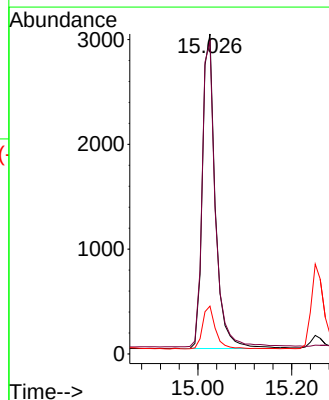
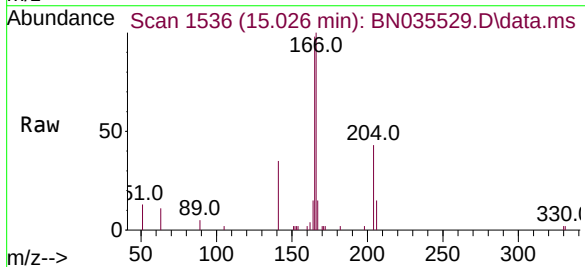
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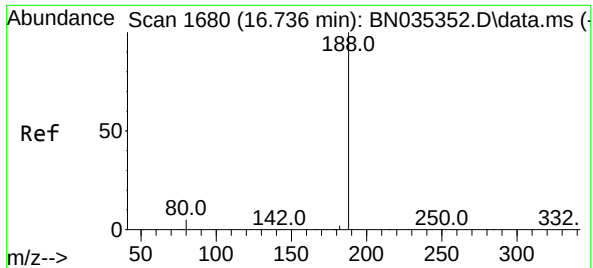
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#18
Fluorene
Concen: 0.393 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:166 Resp: 5751
Ion Ratio Lower Upper
166 100
165 98.6 79.7 119.5
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

Tgt Ion:188 Resp: 929

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

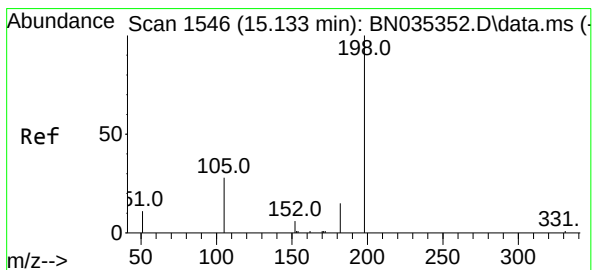
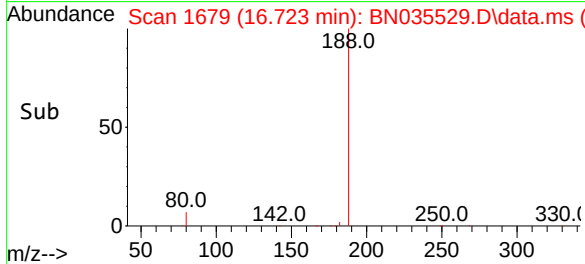
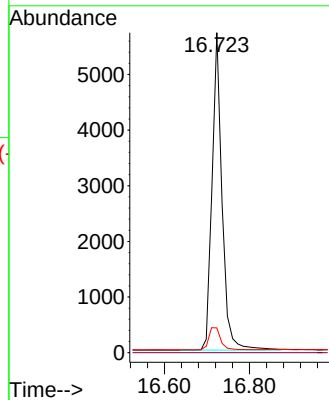
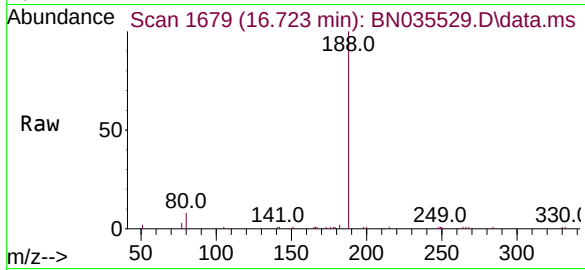
80 7.7 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.229 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

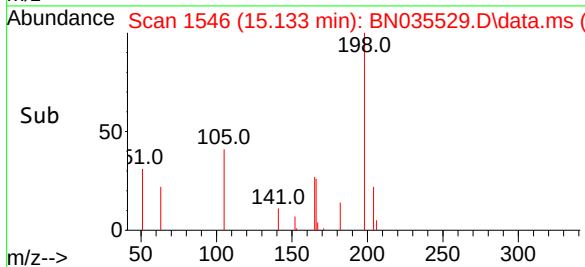
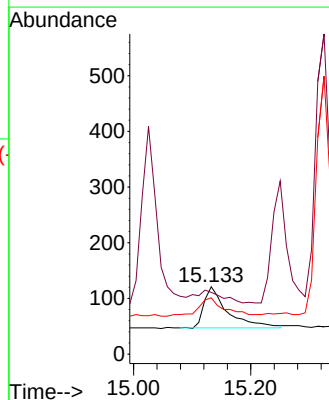
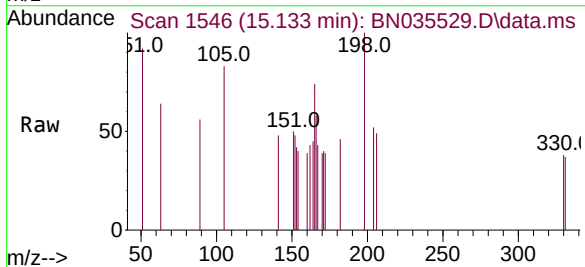
Tgt Ion:198 Resp: 209

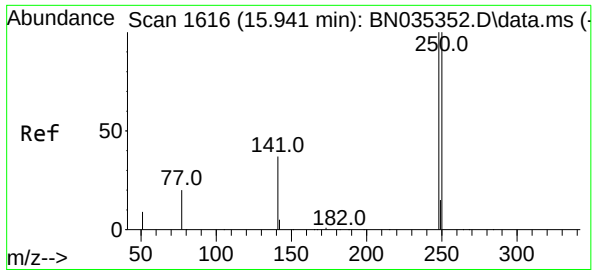
Ion Ratio Lower Upper

198 100

51 91.7 46.5 69.7#

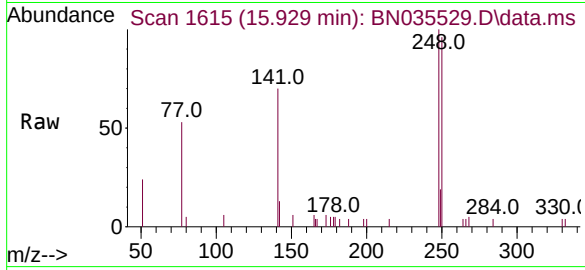
105 83.5 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

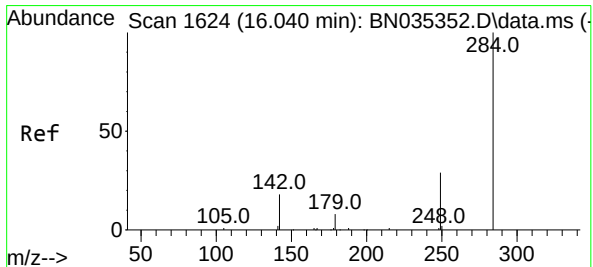
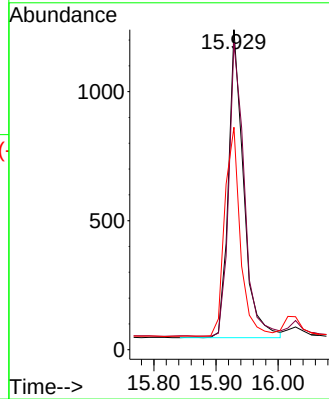
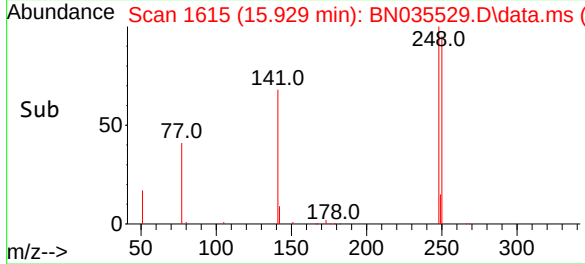
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:248 Resp: 2020
Ion Ratio Lower Upper
248 100
250 95.8 80.6 120.8
141 69.5 31.5 47.3

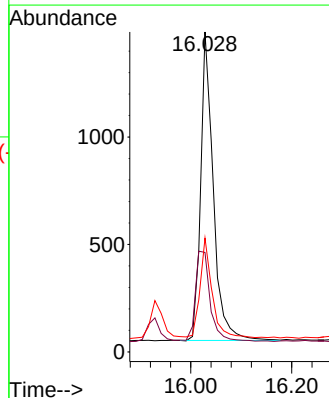
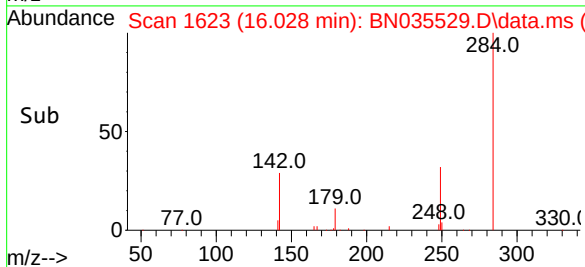
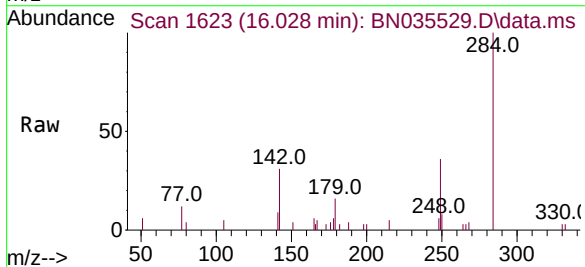
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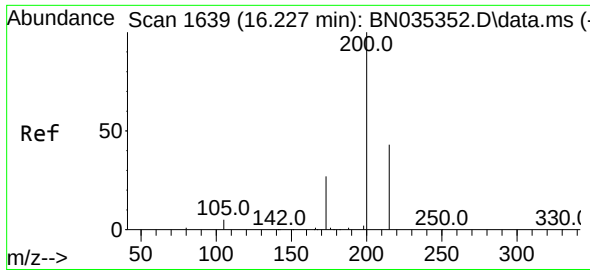
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:284 Resp: 2497
Ion Ratio Lower Upper
284 100
142 34.6 26.7 40.1
249 31.4 24.6 36.8





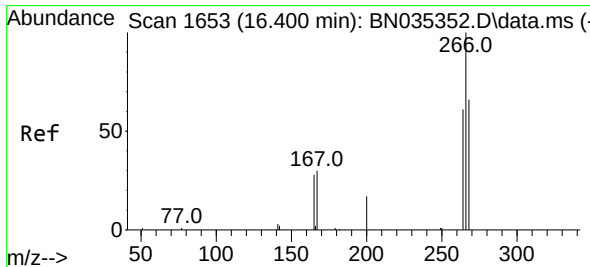
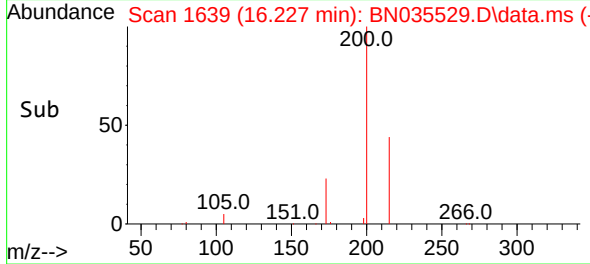
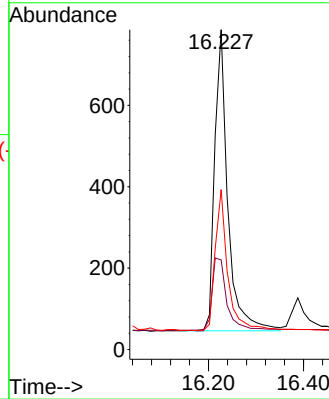
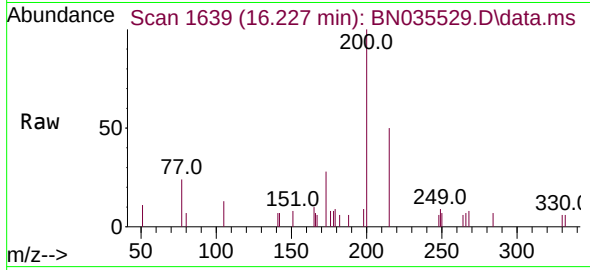
#23
Atrazine
Concen: 0.366 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:200 Resp: 141
Ion Ratio Lower Upper
200 100
173 28.0 24.1 36.1
215 50.0 36.9 55.3

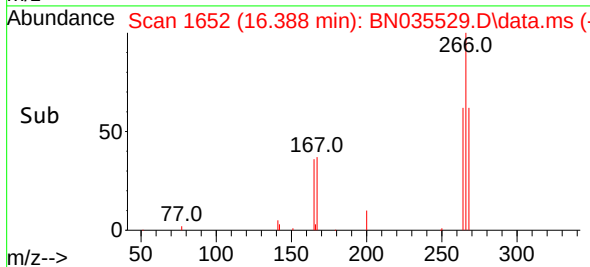
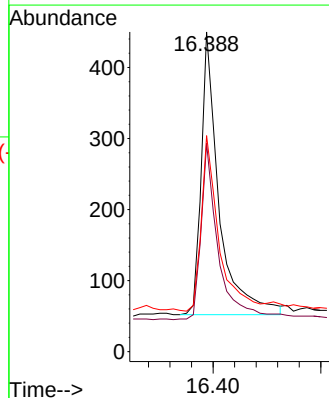
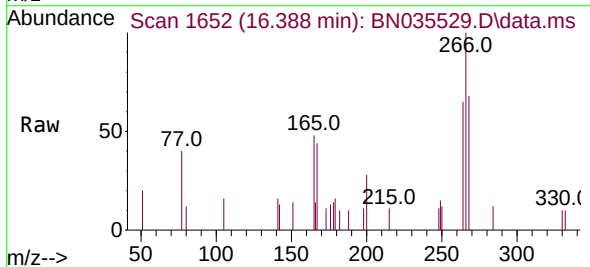
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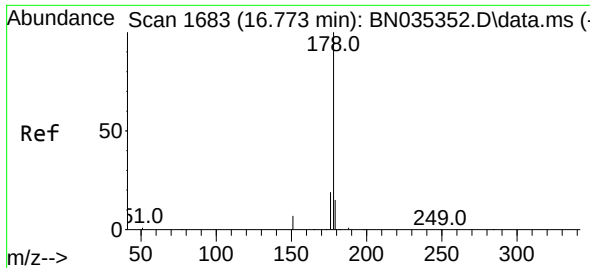
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#24
Pentachlorophenol
Concen: 0.329 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:266 Resp: 914
Ion Ratio Lower Upper
266 100
264 60.9 42.3 63.5
268 61.2 43.3 64.9





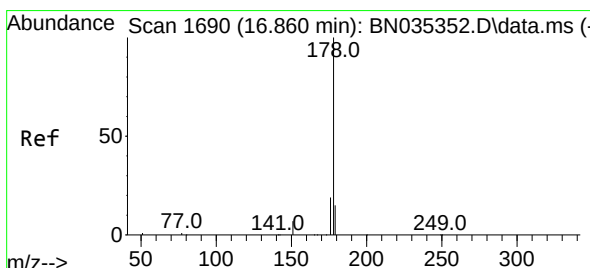
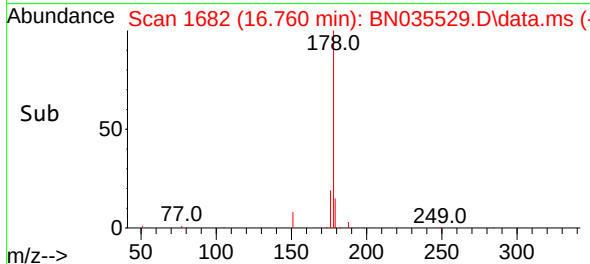
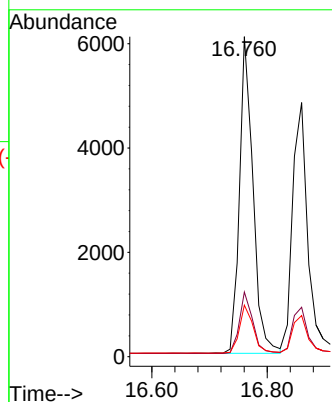
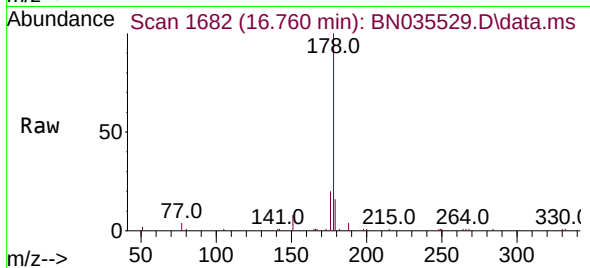
#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:178 Resp: 984
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5

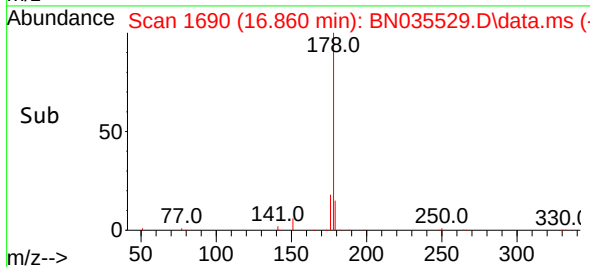
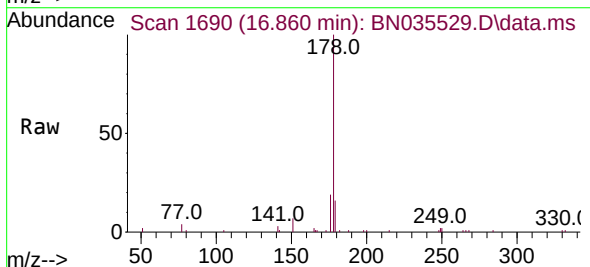
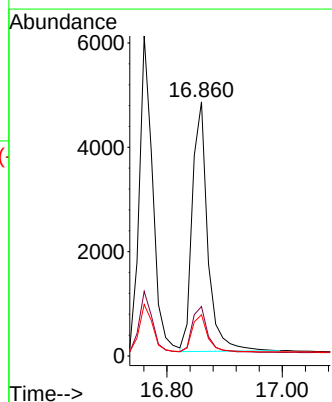
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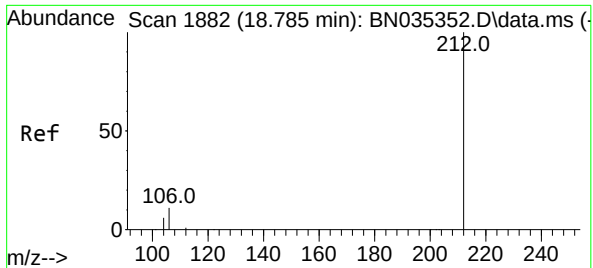
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#26
Anthracene
Concen: 0.385 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:178 Resp: 8899
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.0 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.366 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

Tgt Ion:212 Resp: 964

Ion Ratio Lower Upper

212 100

106 10.3 9.2 13.8

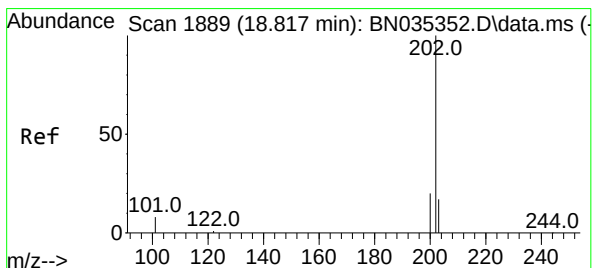
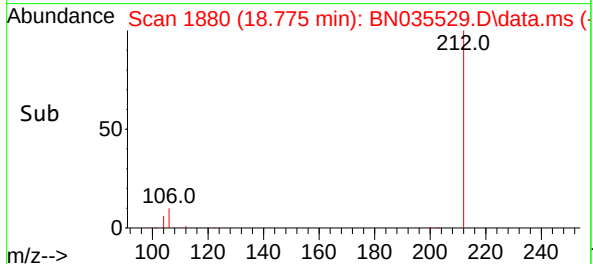
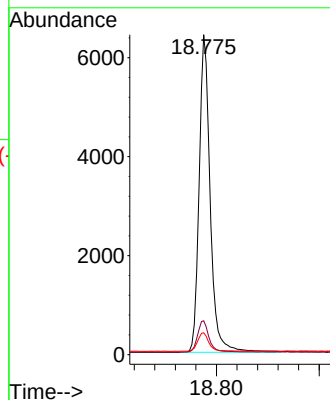
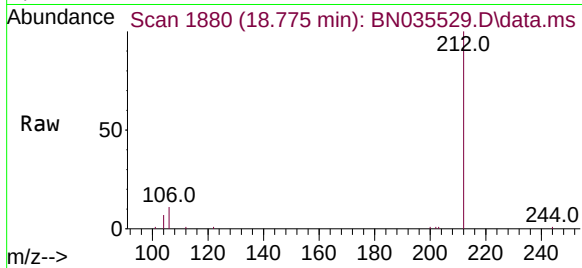
104 6.0 5.3 7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#28

Fluoranthene

Concen: 0.334 ng

RT: 18.808 min Scan# 1887

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

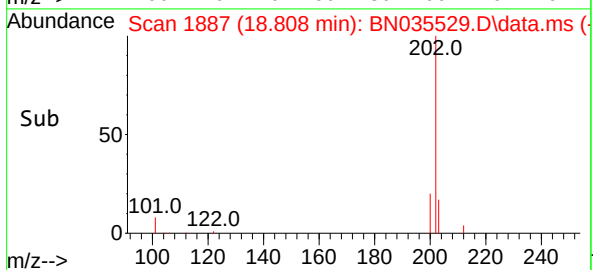
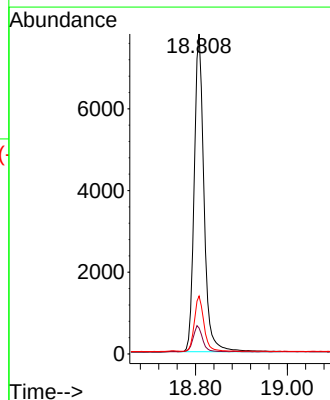
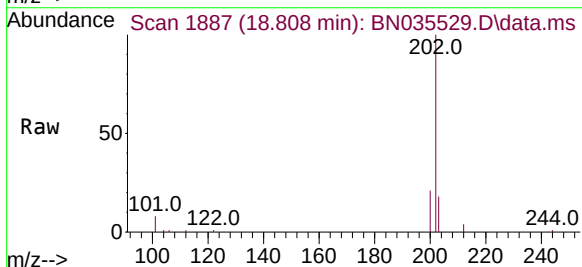
Tgt Ion:202 Resp: 11483

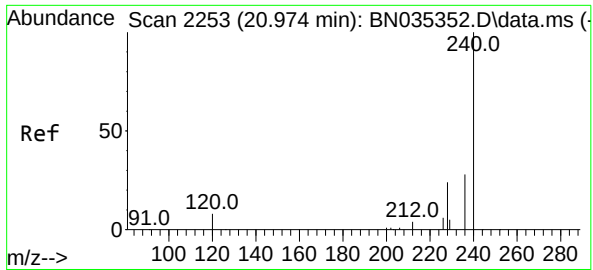
Ion Ratio Lower Upper

202 100

101 7.9 7.4 11.0

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

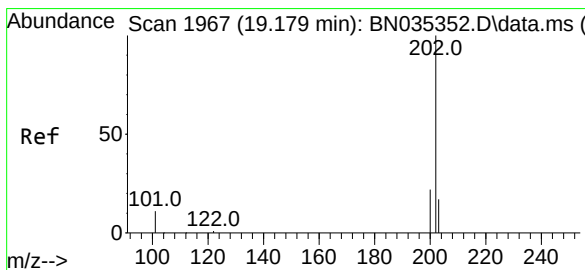
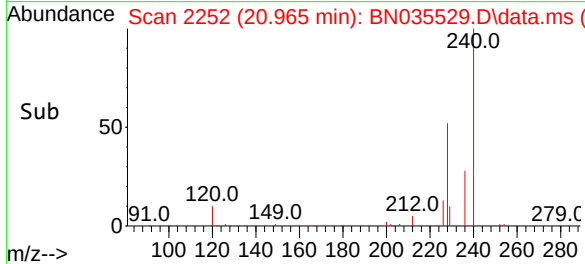
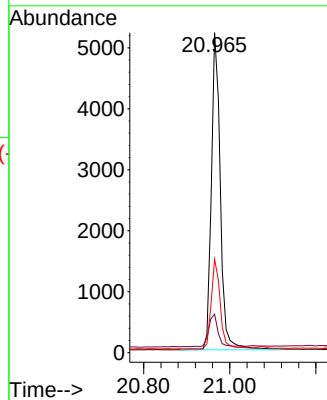
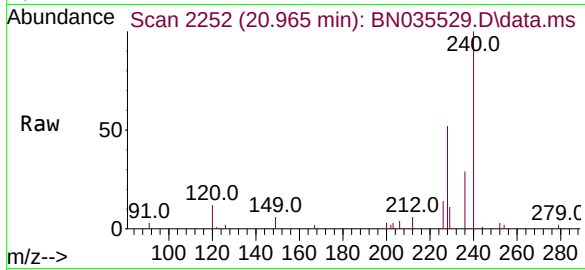
Tgt Ion:	240	Resp:	754
Ion Ratio	Lower	Upper	
240	100		
120	12.0	7.9	11.9
236	29.2	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#30

Pyrene

Concen: 0.423 ng

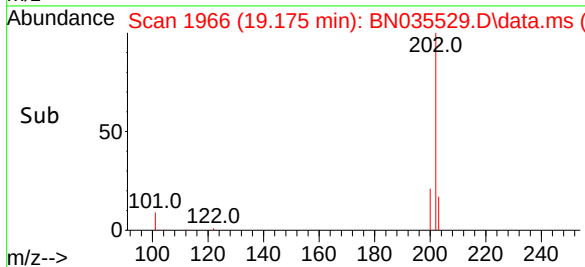
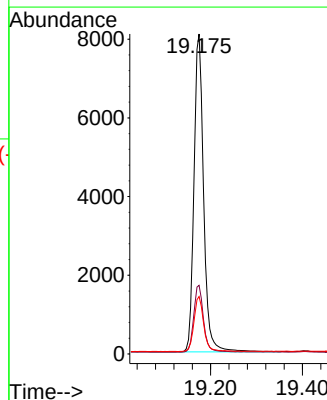
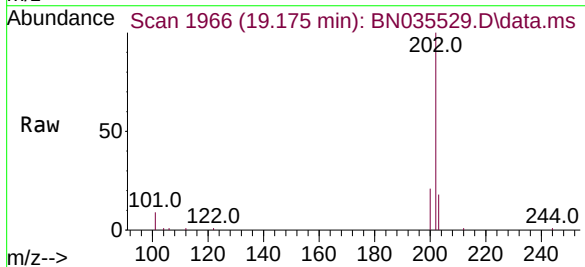
RT: 19.175 min Scan# 1966

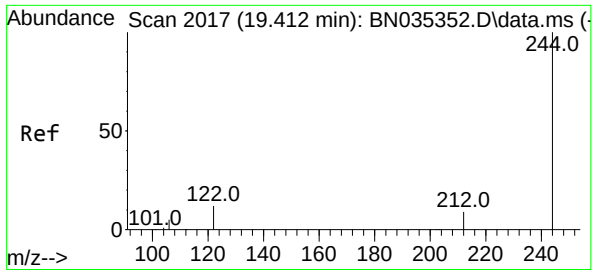
Delta R.T. -0.005 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Tgt Ion:	202	Resp:	11774
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5





#31
Terphenyl-d14
Concen: 0.477 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

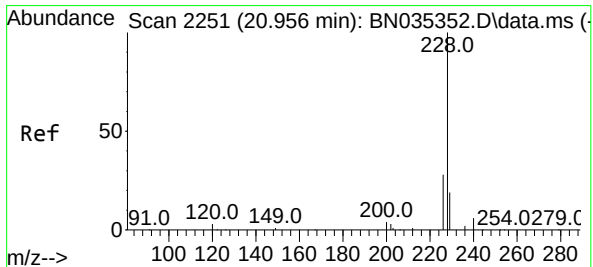
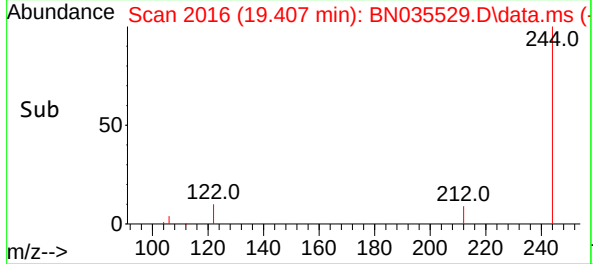
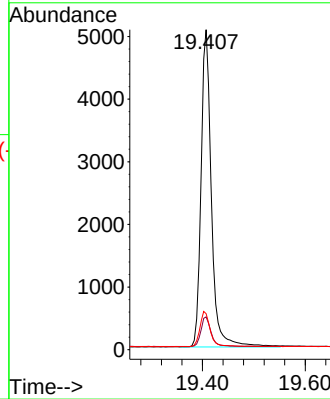
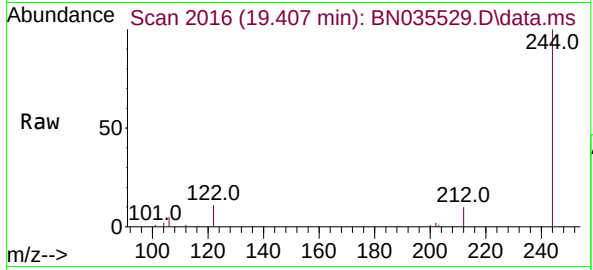
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	11.2	10.3	15.5

Manual Integrations

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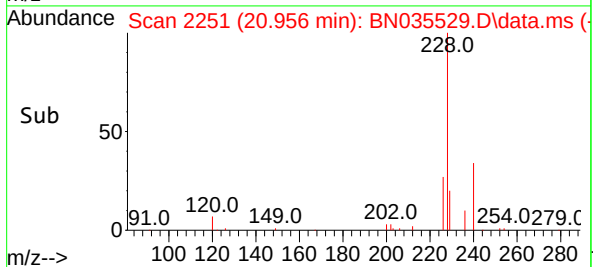
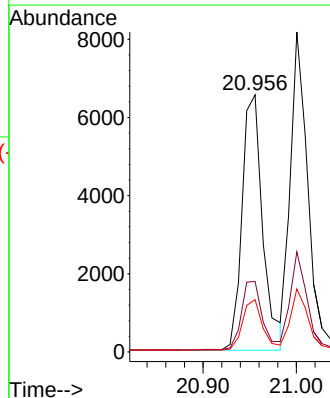
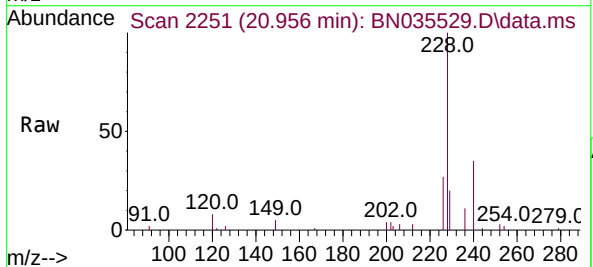
Reviewed By :Yogesh Patel 12/11/2024

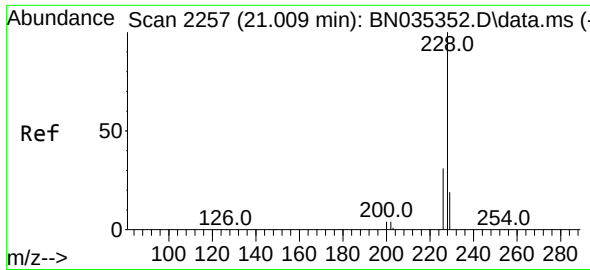
Supervised By :mohammad ahmed 12/11/2024



#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

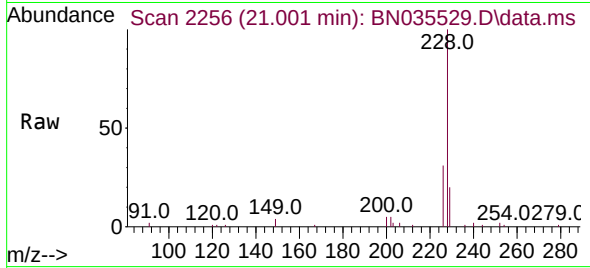
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	20.3	15.8	23.8





#33
Chrysene
Concen: 0.399 ng
RT: 21.001 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

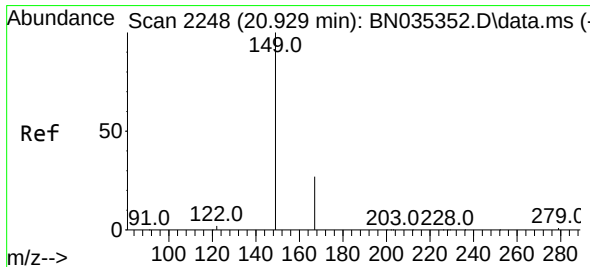
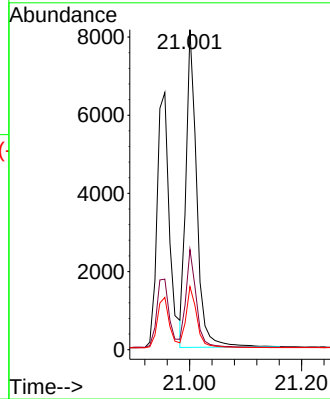
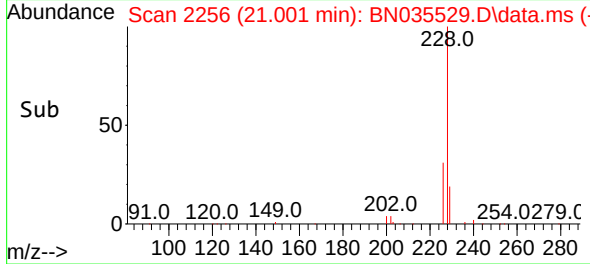
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:228 Resp: 1085
Ion Ratio Lower Upper
228 100
226 31.3 24.6 37.0
229 19.7 15.9 23.9

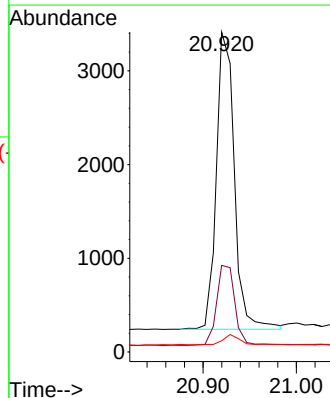
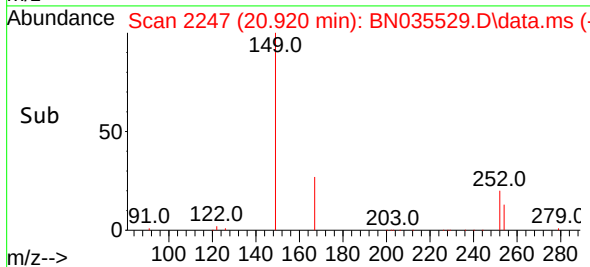
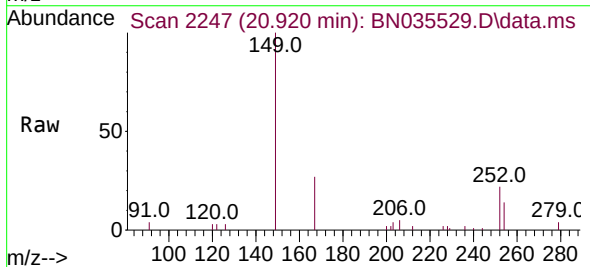
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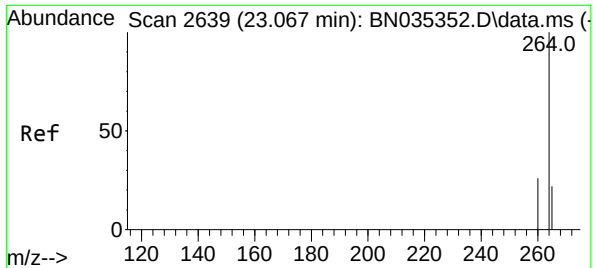
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.406 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

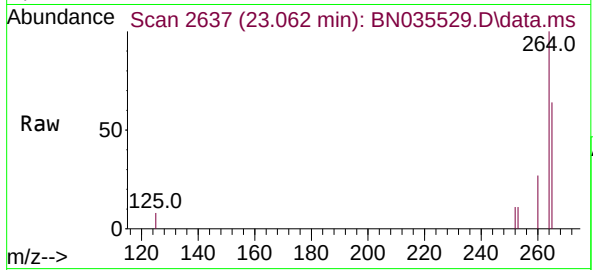
Tgt Ion:149 Resp: 4232
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

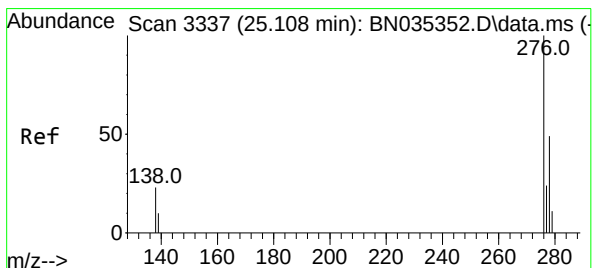
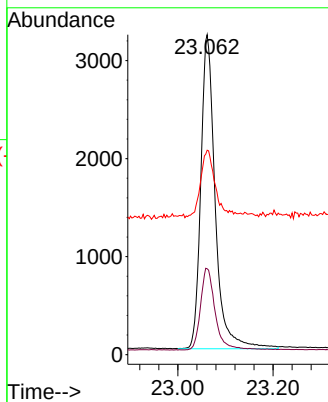
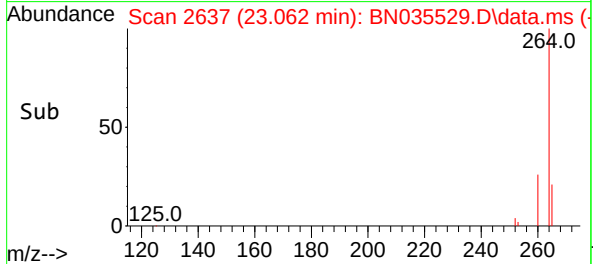
Instrument :
BNA_N
ClientSampleId :
PB165497BSD



Tgt Ion:264 Resp: 6738
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 63.9 40.2 60.4

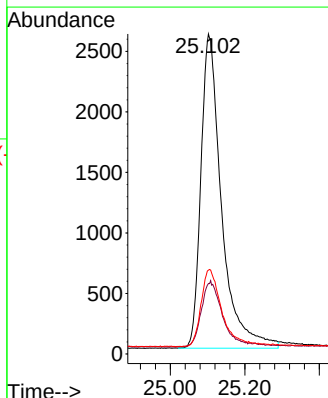
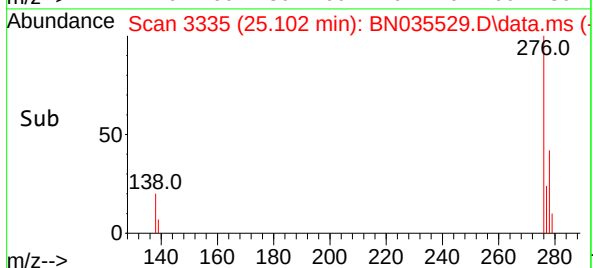
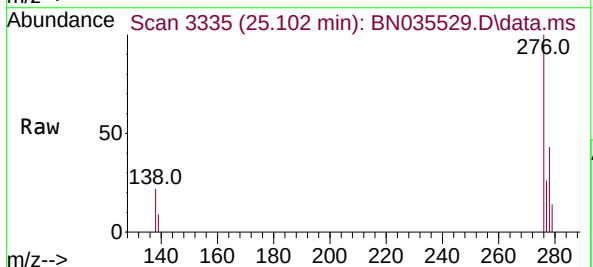
Manual Integrations
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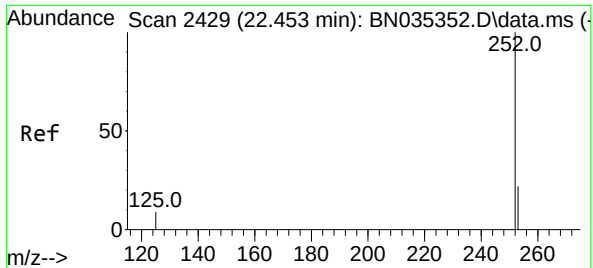
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:276 Resp: 9995
Ion Ratio Lower Upper
276 100
138 20.8 19.4 29.0
277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.461 ng

RT: 22.450 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

Tgt Ion:252 Resp: 1136

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

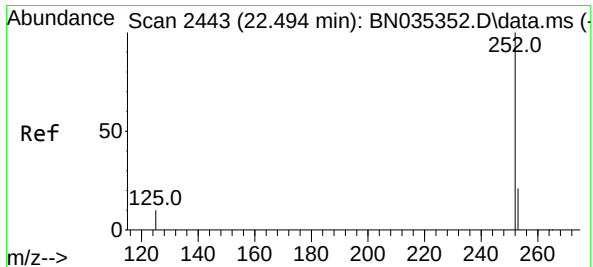
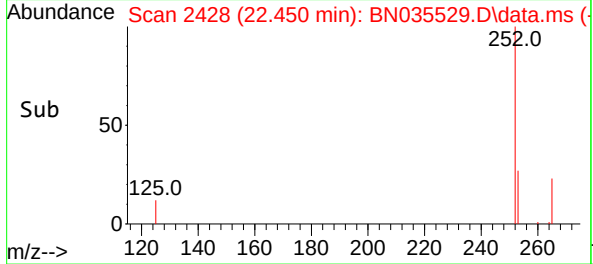
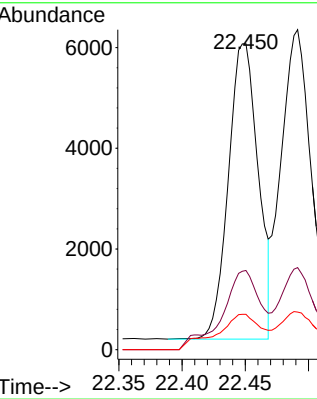
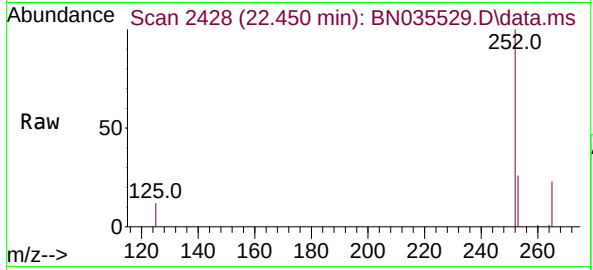
125 11.5 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.450 ng

RT: 22.491 min Scan# 2442

Delta R.T. -0.003 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

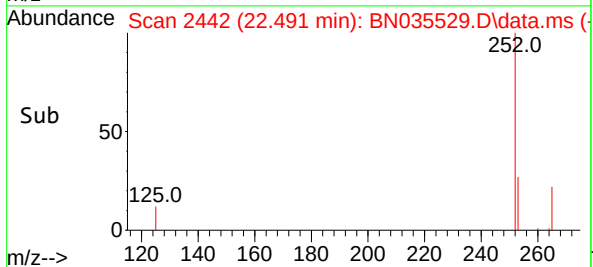
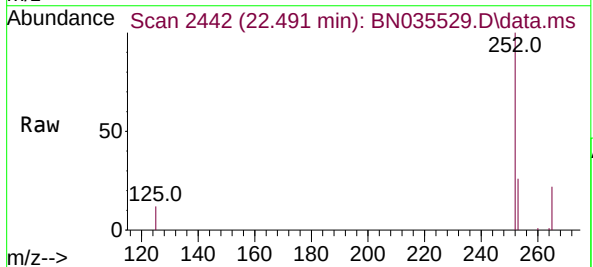
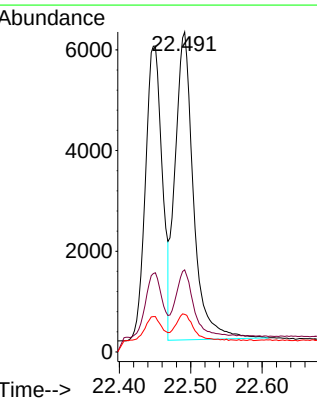
Tgt Ion:252 Resp: 10907

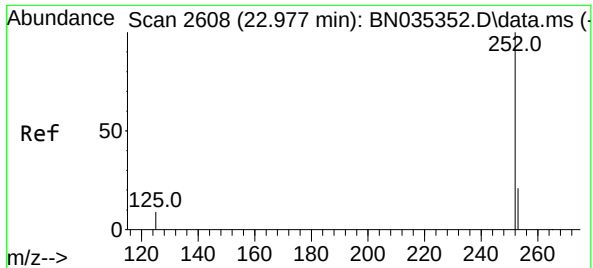
Ion Ratio Lower Upper

252 100

253 25.6 19.5 29.3

125 11.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.415 ng

RT: 22.971 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

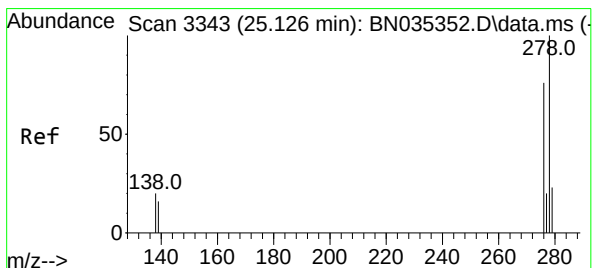
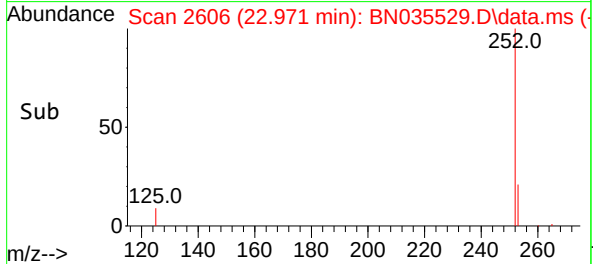
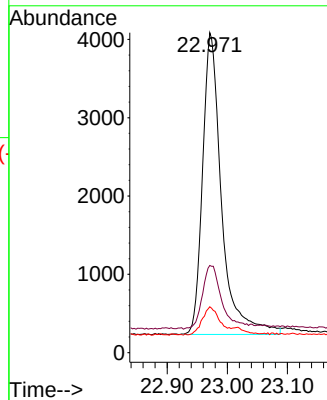
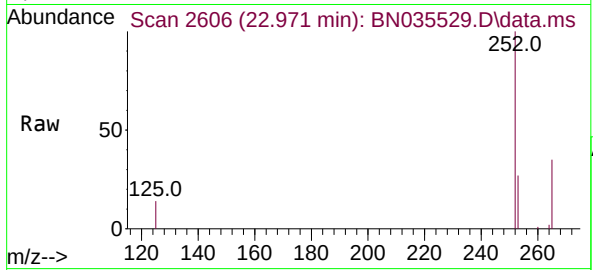
Tgt Ion:	252	Resp:	843
Ion Ratio	Lower	Upper	
252	100		
253	27.2	20.2	30.4
125	14.3	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

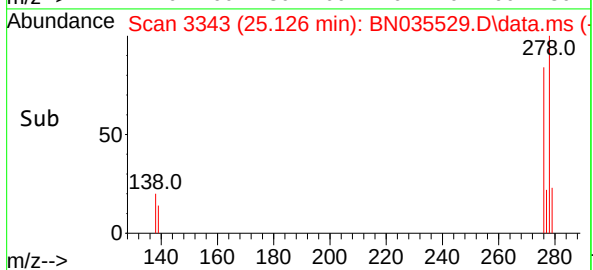
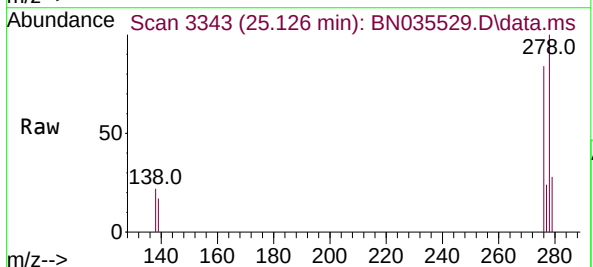
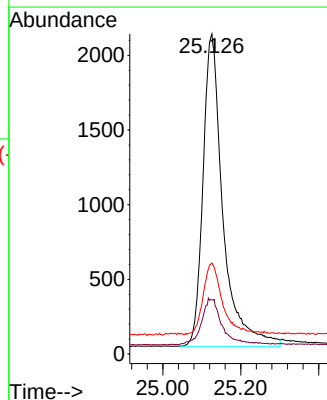
RT: 25.126 min Scan# 3343

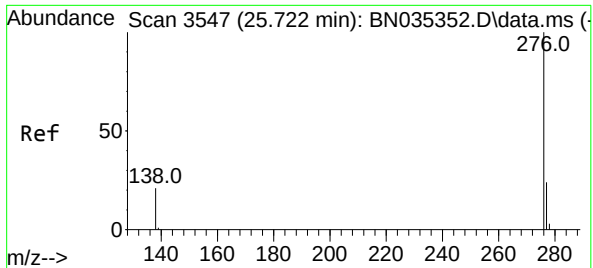
Delta R.T. 0.000 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Tgt Ion:	278	Resp:	7420
Ion Ratio	Lower	Upper	
278	100		
139	16.9	14.2	21.4
279	28.5	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.376 ng

RT: 25.713 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN035529.D

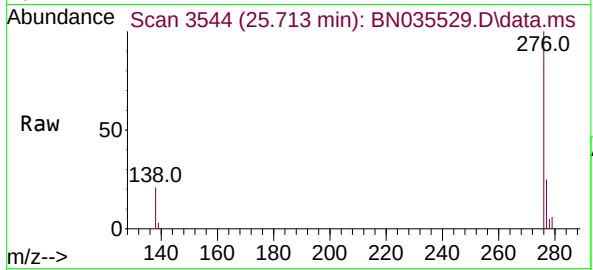
Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD



Tgt Ion:276 Resp: 816

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

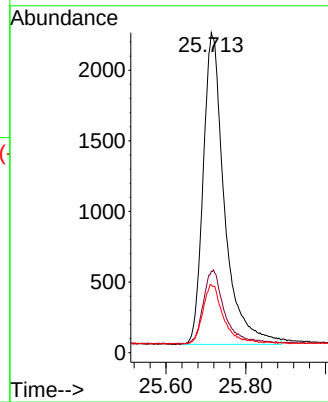
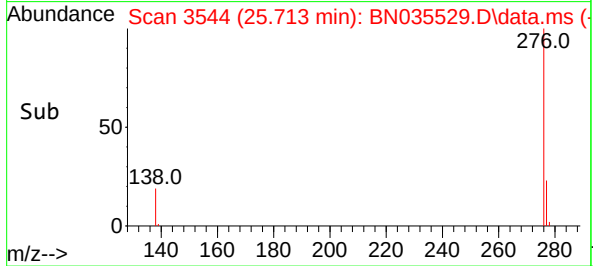
138 21.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/11/2024

Supervised By :mohammad ahmed 12/11/2024



Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN120924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035500.D	Nitrobenzene-d5	yogesh	12/11/2024 12:40:08 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
SSTDCCC0.4	BN035508.D	Nitrobenzene-d5	yogesh	12/11/2024 12:40:58 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
SSTDCCC0.4	BN035510.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:03 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
PB165497BL	BN035511.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:09 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
P5164-01	BN035512.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:22 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
P5164-02	BN035513.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:27 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
P5164-04	BN035514.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:32 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
P5164-06	BN035516.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:38 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
SSTDCCC0.4	BN035523.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:00 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
SSTDCCC0.4	BN035525.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:50 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
PB165497BS	BN035528.D	Nitrobenzene-d5	yogesh	12/11/2024 12:43:01 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
PB165497BSD	BN035529.D	Nitrobenzene-d5	yogesh	12/11/2024 12:45:22 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software
SSTDCCC0.4	BN035530.D	Nitrobenzene-d5	yogesh	12/11/2024 12:45:28 AM	mohammad	12/12/2024 4:13:53 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN120924

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035349.D	27 Nov 2024 14:55	RC/JU	Ok
2	SSTDIC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDIC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDIC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDIC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDIC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDIC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDIC5.0	BN035356.D	27 Nov 2024 19:09	RC/JU	Ok
9	SSTDICV0.4	BN035357.D	27 Nov 2024 20:21	RC/JU	Ok,M
10	PB165224BL	BN035358.D	27 Nov 2024 20:57	RC/JU	Ok,M
11	PB165266BL	BN035359.D	27 Nov 2024 21:32	RC/JU	Ok,M
12	PB165224BS	BN035360.D	27 Nov 2024 22:08	RC/JU	Ok,M
13	PB165224BSD	BN035361.D	27 Nov 2024 22:44	RC/JU	Ok,M
14	P4969-02	BN035362.D	27 Nov 2024 23:20	RC/JU	Ok,M
15	P4969-04	BN035363.D	27 Nov 2024 23:56	RC/JU	Ok,M
16	P5003-02	BN035364.D	28 Nov 2024 00:32	RC/JU	Ok,M
17	P5003-03	BN035365.D	28 Nov 2024 01:08	RC/JU	Ok,M
18	SSTDIC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDIC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB165198BS	BN035370.D	28 Nov 2024 06:03	RC/JU	Ok,M
23	PB165198BSD	BN035371.D	28 Nov 2024 06:39	RC/JU	Ok,M
24	PB165266BS	BN035372.D	28 Nov 2024 07:15	RC/JU	Ok,M
25	PB165266BSD	BN035373.D	28 Nov 2024 07:50	RC/JU	Ok,M
26	P4959-01	BN035374.D	28 Nov 2024 08:26	RC/JU	Ok,M
27	SSTDCCC0.4	BN035375.D	28 Nov 2024 09:02	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN120924

Review By	Yogesh	Review On	12/11/2024 7:19:33 AM
Supervise By	mohammad	Supervise On	12/12/2024 4:13:53 AM
SubDirectory	BN120924	HP Acquire Method	BNA_N
		HP Processing Method	bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035499.D	09 Dec 2024 10:25	RC/JU	Ok
2	SSTDCCC0.4	BN035500.D	09 Dec 2024 11:04	RC/JU	Ok,M
3	PB165433BL	BN035501.D	09 Dec 2024 11:40	RC/JU	Not Ok
4	P5142-02	BN035502.D	09 Dec 2024 12:16	RC/JU	Ok,M
5	P5142-04	BN035503.D	09 Dec 2024 12:52	RC/JU	Ok,M
6	P5143-02	BN035504.D	09 Dec 2024 13:28	RC/JU	Ok,M
7	P5143-06	BN035505.D	09 Dec 2024 14:04	RC/JU	Ok,M
8	PB165433BS	BN035506.D	09 Dec 2024 14:40	RC/JU	Not Ok
9	PB165433BSD	BN035507.D	09 Dec 2024 15:16	RC/JU	Ok,M
10	SSTDCCC0.4	BN035508.D	09 Dec 2024 15:52	RC/JU	Ok,M
11	DFTPP	BN035509.D	09 Dec 2024 16:28	RC/JU	Ok
12	SSTDCCC0.4	BN035510.D	09 Dec 2024 17:07	RC/JU	Ok,M
13	PB165497BL	BN035511.D	09 Dec 2024 17:43	RC/JU	Ok,M
14	P5164-01	BN035512.D	09 Dec 2024 18:19	RC/JU	Ok,M
15	P5164-02	BN035513.D	09 Dec 2024 18:55	RC/JU	Ok,M
16	P5164-04	BN035514.D	09 Dec 2024 19:31	RC/JU	Ok,M
17	P5164-03	BN035515.D	09 Dec 2024 20:07	RC/JU	Ok
18	P5164-06	BN035516.D	09 Dec 2024 20:43	RC/JU	Ok,M
19	P5166-04	BN035517.D	09 Dec 2024 21:19	RC/JU	Dilution
20	P5166-05	BN035518.D	09 Dec 2024 21:55	RC/JU	Ok,M
21	P5166-06	BN035519.D	09 Dec 2024 22:31	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN120924

Review By	Yogesh	Review On	12/11/2024 7:19:33 AM		
Supervise By	mohammad	Supervise On	12/12/2024 4:13:53 AM		
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657			
CCC		SP6661			
Internal Standard/PEM		SP6682,1ul/100ul sample			
ICV/I.BLK		SP6684			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	PB165497BS	BN035520.D	09 Dec 2024 23:07	RC/JU	Not Ok
23	PB165497BSD	BN035521.D	09 Dec 2024 23:43	RC/JU	Not Ok
24	PB165433BS	BN035522.D	10 Dec 2024 00:19	RC/JU	Ok,M
25	SSTDCCC0.4	BN035523.D	10 Dec 2024 00:55	RC/JU	Ok,M
26	DFTPP	BN035524.D	10 Dec 2024 08:55	RC/JU	Ok
27	SSTDCCC0.4	BN035525.D	10 Dec 2024 09:33	RC/JU	Ok,M
28	PB165433BL	BN035526.D	10 Dec 2024 10:09	RC/JU	Ok
29	P5166-04DL	BN035527.D	10 Dec 2024 10:45	RC/JU	Ok,M
30	PB165497BS	BN035528.D	10 Dec 2024 11:21	RC/JU	Ok,M
31	PB165497BSD	BN035529.D	10 Dec 2024 12:03	RC/JU	Ok,M
32	SSTDCCC0.4	BN035530.D	10 Dec 2024 12:40	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035349.D	27 Nov 2024 14:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	This Calibration is Good For DOD	RC/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	Compound #20 removed from 3.2ppm	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112724	BN035357.D	27 Nov 2024 20:21		RC/JU	Ok,M
10	PB165224BL	PB165224BL	BN035358.D	27 Nov 2024 20:57		RC/JU	Ok,M
11	PB165266BL	PB165266BL	BN035359.D	27 Nov 2024 21:32		RC/JU	Ok,M
12	PB165224BS	PB165224BS	BN035360.D	27 Nov 2024 22:08		RC/JU	Ok,M
13	PB165224BSD	PB165224BSD	BN035361.D	27 Nov 2024 22:44		RC/JU	Ok,M
14	P4969-02	TOWER-1	BN035362.D	27 Nov 2024 23:20		RC/JU	Ok,M
15	P4969-04	TOWER-2	BN035363.D	27 Nov 2024 23:56		RC/JU	Ok,M
16	P5003-02	RW-10A-HYD-2024112	BN035364.D	28 Nov 2024 00:32		RC/JU	Ok,M
17	P5003-03	RW-10A-HYD-2024112	BN035365.D	28 Nov 2024 01:08		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112724

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120924

Review By	Yogesh	Review On	12/11/2024 7:19:33 AM
Supervise By	mohammad	Supervise On	12/12/2024 4:13:53 AM
SubDirectory	BN120924	HP Acquire Method	BNA_N
		HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035499.D	09 Dec 2024 10:25		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035500.D	09 Dec 2024 11:04		RC/JU	Ok,M
3	PB165433BL	PB165433BL	BN035501.D	09 Dec 2024 11:40	Analyzed for contamination check	RC/JU	Not Ok
4	P5142-02	TOWER-1	BN035502.D	09 Dec 2024 12:16		RC/JU	Ok,M
5	P5142-04	TOWER-2	BN035503.D	09 Dec 2024 12:52		RC/JU	Ok,M
6	P5143-02	DSN002	BN035504.D	09 Dec 2024 13:28		RC/JU	Ok,M
7	P5143-06	DSN003	BN035505.D	09 Dec 2024 14:04		RC/JU	Ok,M
8	PB165433BS	PB165433BS	BN035506.D	09 Dec 2024 14:40	Surrogate Fail	RC/JU	Not Ok
9	PB165433BSD	PB165433BSD	BN035507.D	09 Dec 2024 15:16		RC/JU	Ok,M
10	SSTDCCC0.4	SSTDCCC0.4EC	BN035508.D	09 Dec 2024 15:52		RC/JU	Ok,M
11	DFTPP	DFTPP	BN035509.D	09 Dec 2024 16:28		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN035510.D	09 Dec 2024 17:07		RC/JU	Ok,M
13	PB165497BL	PB165497BL	BN035511.D	09 Dec 2024 17:43		RC/JU	Ok,M
14	P5164-01	RE108D2-20241206	BN035512.D	09 Dec 2024 18:19		RC/JU	Ok,M
15	P5164-02	RE108D1-20241206	BN035513.D	09 Dec 2024 18:55		RC/JU	Ok,M
16	P5164-04	RE105D2-20241206	BN035514.D	09 Dec 2024 19:31		RC/JU	Ok,M
17	P5164-03	RE105D1-20241206	BN035515.D	09 Dec 2024 20:07		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120924

Review By	Yogesh	Review On	12/11/2024 7:19:33 AM		
Supervise By	mohammad	Supervise On	12/12/2024 4:13:53 AM		
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657			
CCC		SP6661			
Internal Standard/PEM		SP6682,1ul/100ul sample			
ICV/I.BLK		SP6684			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	P5164-06	FB-20241206	BN035516.D	09 Dec 2024 20:43		RC/JU	Ok,M
19	P5166-04	RW5-SP100-20241206	BN035517.D	09 Dec 2024 21:19	Need 5X Dilution	RC/JU	Dilution
20	P5166-05	RW5-SP201-20241206	BN035518.D	09 Dec 2024 21:55		RC/JU	Ok,M
21	P5166-06	RW5-SP303-20241206	BN035519.D	09 Dec 2024 22:31		RC/JU	Ok,M
22	PB165497BS	PB165497BS	BN035520.D	09 Dec 2024 23:07	Surrogate Fail	RC/JU	Not Ok
23	PB165497BSD	PB165497BSD	BN035521.D	09 Dec 2024 23:43	Surrogate Fail	RC/JU	Not Ok
24	PB165433BS	PB165433BS	BN035522.D	10 Dec 2024 00:19		RC/JU	Ok,M
25	SSTDCCC0.4	SSTDCCC0.4EC	BN035523.D	10 Dec 2024 00:55		RC/JU	Ok,M
26	DFTPP	DFTPP	BN035524.D	10 Dec 2024 08:55		RC/JU	Ok
27	SSTDCCC0.4	SSTDCCC0.4	BN035525.D	10 Dec 2024 09:33		RC/JU	Ok,M
28	PB165433BL	PB165433BL	BN035526.D	10 Dec 2024 10:09		RC/JU	Ok
29	P5166-04DL	RW5-SP100-20241206	BN035527.D	10 Dec 2024 10:45		RC/JU	Ok,M
30	PB165497BS	PB165497BS	BN035528.D	10 Dec 2024 11:21		RC/JU	Ok,M
31	PB165497BSD	PB165497BSD	BN035529.D	10 Dec 2024 12:03		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN035530.D	10 Dec 2024 12:40		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 12/09/2024

Matrix : Water **Extraction Start Time :** 11:27

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 12/09/2024

Balance check: N/A **Filter By:** RS **Extraction End Time :** 16:25

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3574 **Hood ID:** 4,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continious 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	SP6666
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3845
Baked Na2SO4	N/A	EP2570
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/9/24	RP (Ext Lab)	RC/SVOC
16:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165497BL	SBLK497	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1			SEP-1
PB165497BS	SLCS497	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1			2
PB165497BS D	SLCSD497	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1			3
P5164-01	RE108D2-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1	C		4
P5164-02	RE108D1-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1	C		5
P5164-03	RE105D1-20241206	SVOC-SIMGrou p1	960	6	RUPESEH	rajesh	1	C		6
P5164-04	RE105D2-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1	C		7
P5164-06	FB-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1	C		8
P5166-04	RW5-SP100-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1			9
P5166-05	RW5-SP201-20241206	SVOC-SIMGrou p1	990	6	RUPESEH	rajesh	1			10
P5166-06	RW5-SP303-20241206	SVOC-SIMGrou p1	1000	6	RUPESEH	rajesh	1			11

* Extracts relinquished on the same date as received.

12/19/24

11:11
12/9/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5164 WorkList ID : 186136 Department : Extraction Date : 12-09-2024 11:23:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample		
						Storage Location	Collect Date	Method
P5164-01	RE108D2-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-02	RE108D1-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-03	RE105D1-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-04	RE105D2-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-06	FB-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5166-04	RW5-SP100-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified
P5166-05	RW5-SP201-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified
P5166-06	RW5-SP303-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified

Date/Time 12/9/24 11:25
Raw Sample Received by: RS (Set 2nd)
Raw Sample Relinquished by: J.C (Sum)

Date/Time 12/9/24 11:55
Raw Sample Received by: J.C (Sum)
Raw Sample Relinquished by: RJ (Set 1st)

Prep Standard - Chemical Standard Summary

Order ID : P5164

Test : SVOC-SIMGroup1

Prepbatch ID : PB165497,

Sequence ID/Qc Batch ID: BN120924,

Standard ID :

EP2559,EP2565,EP2570,SP6573,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11771,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024
<u>FROM</u> 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 12/02/2024

FROM	4000.00000gram of E3551 = Final Quantity: 4000.000 gram	(EX-SC-2)

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM	1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024
<u>FROM</u> 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
<u>FROM</u> 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
<u>FROM</u> 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024
<u>FROM</u> 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								
FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105
[CS 4978-2]						

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG
51096
to
51099
Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

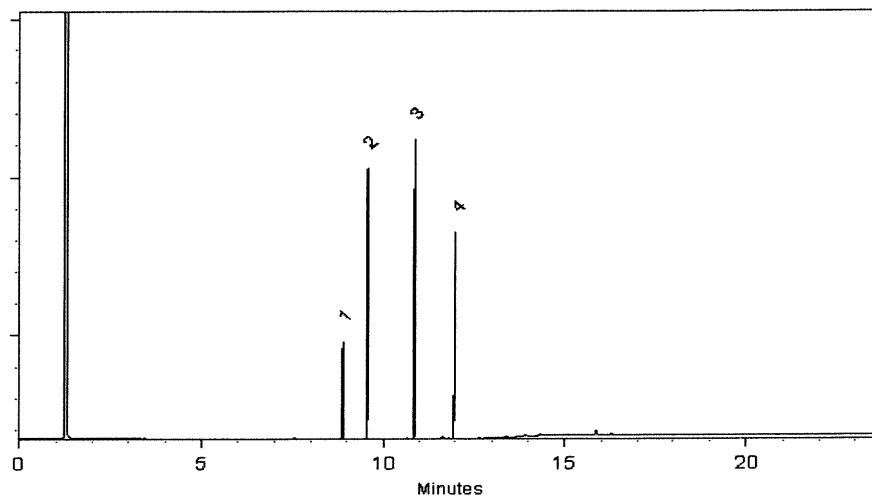
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

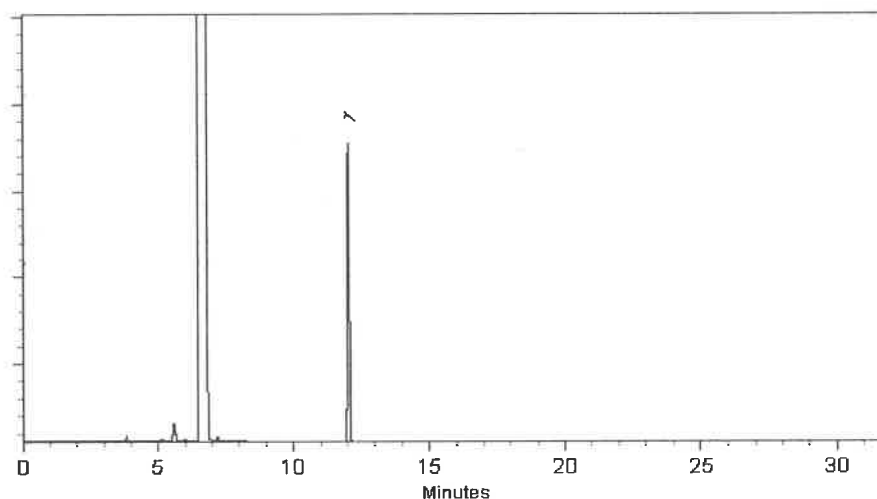
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555872 **Lot No.:** A0193449
Description: Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size: 2 mL **Pkg Amt:** > 1 mL
Expiration Date: January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

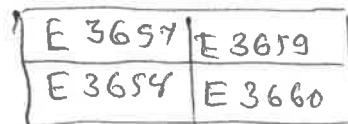
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

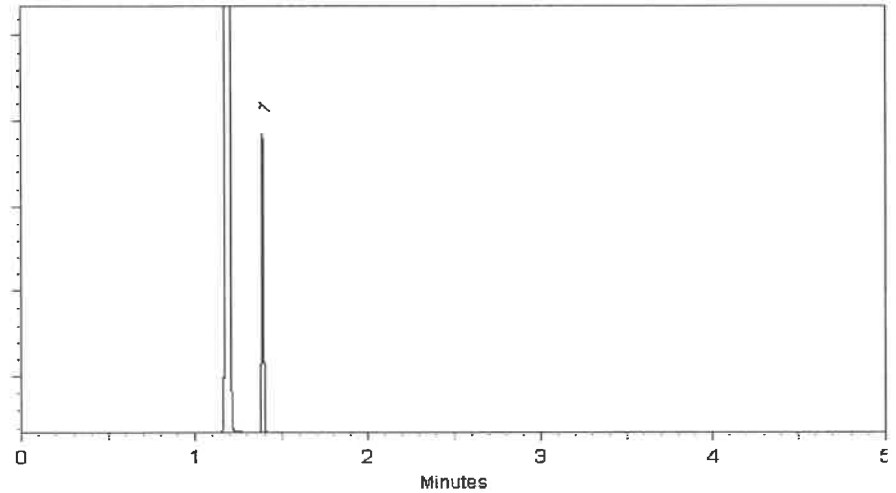
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

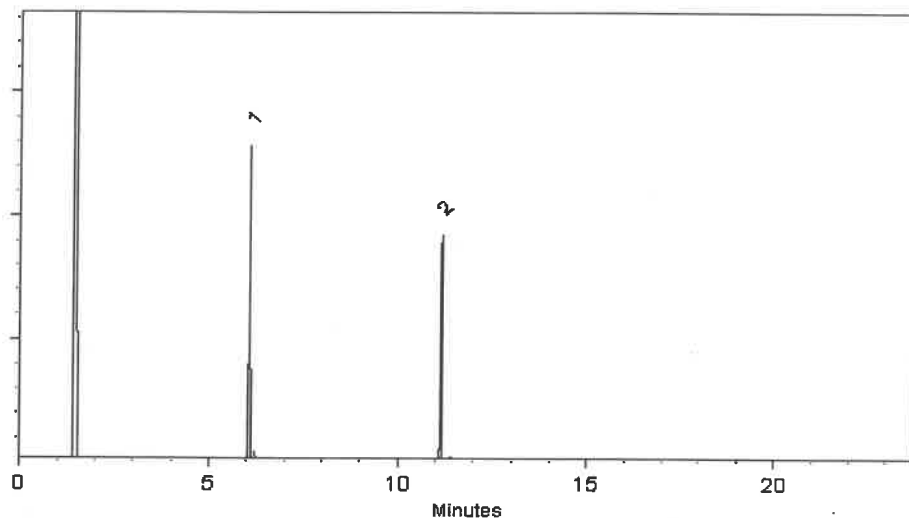
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

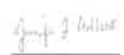


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 }
↓ RC
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

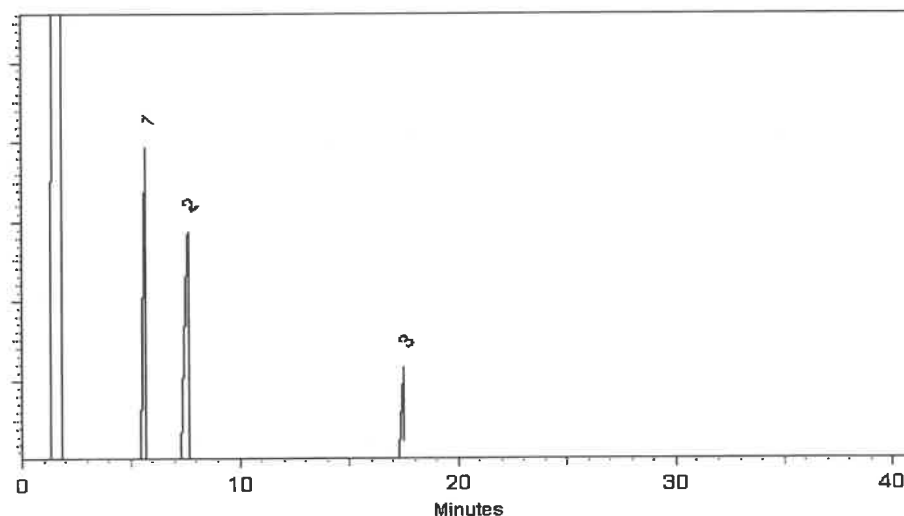
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

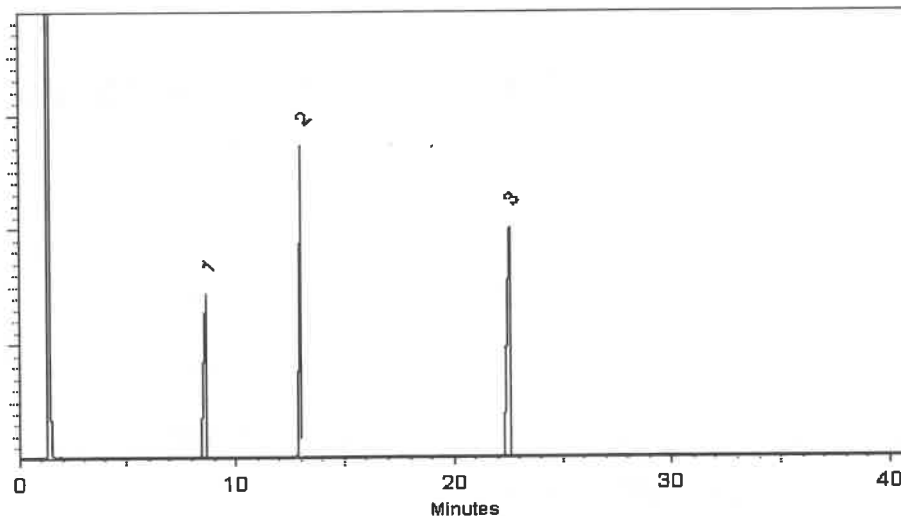
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

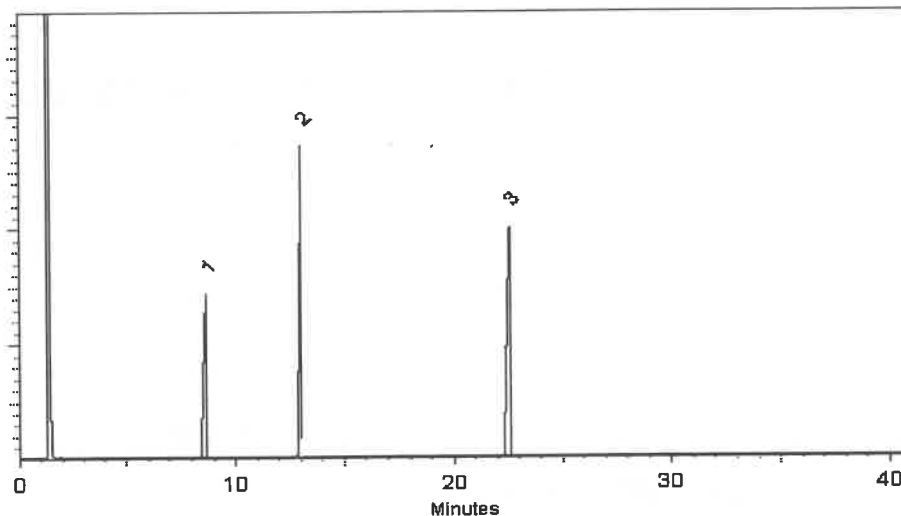
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

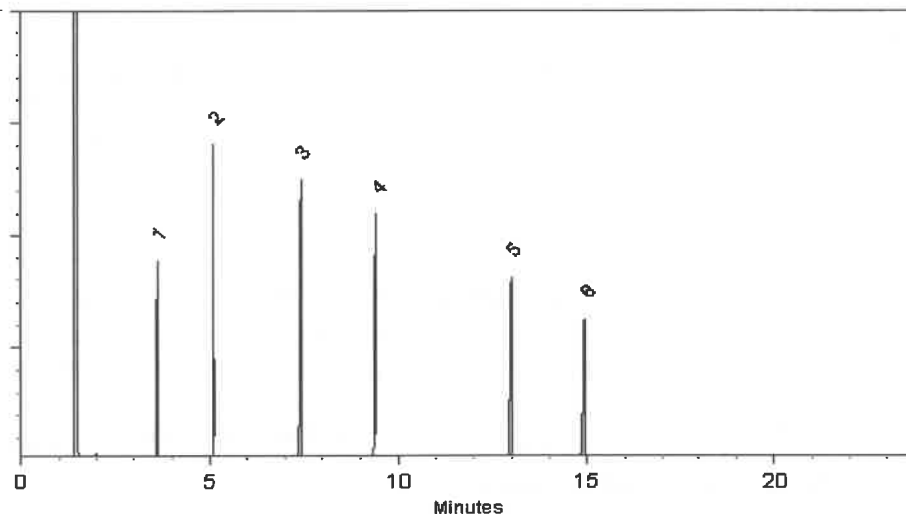
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

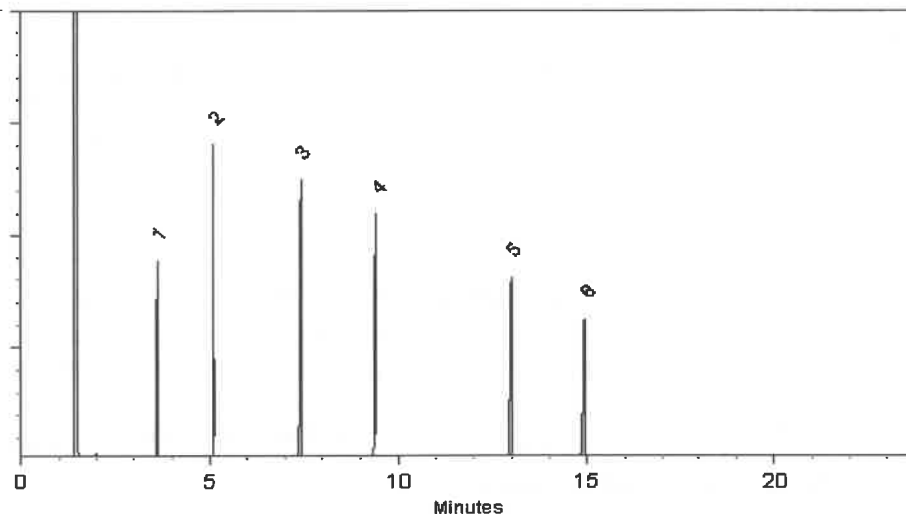
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041883

P5169

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NNRP BETHPAGE
PROJECT NO.: LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AE.COM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY: OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
X EDD FORMAT NYS DEC EDD CAT B

VOL'S 8260
14 DIOXANE 8270

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	RE108D2-20241206	6W	X		12-6-24	0940	3	2	1									
2.	RE108D1-20241206	6W	X			1040	3	2	1									
3.	RE105D1-20241206	6W	X			0915	3	2	1									
4.	RE105D2-20241206	6W	X			0940	3	2	1									
5.	TB	DW	X		9-13-24	-	2	2										
6.	FB-20241206	DW	X		12-6-24	1130	3	2	1									
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 12-6-24	RECEIVED BY: 1.	1300	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>21.4</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1700 12-6-24	RECEIVED BY: 3.		

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5164 AECO15

Order Date : 12/6/2024 1:09:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : Results Only NYS ASP B

Client Contact : Eleanor Vivadou

Receive DateTime : 12/6/2024 5:00:00 PM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

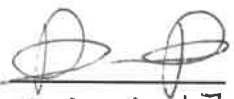
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5164-01	RE108D2-20241206	Water	12/06/2024	09:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5164-02	RE108D1-20241206	Water	12/06/2024	10:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5164-03	RE105D1-20241206	Water	12/06/2024	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5164-04	RE105D2-20241206	Water	12/06/2024	09:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5164-05	TB	Water	12/06/2024	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5164-06	FB-20241206	Water	12/06/2024	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5164	AECO15	Order Date : 12/6/2024 1:09:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 12/6/2024 5:00:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : 

Date / Time : 12-6-24 1725

Received By : 

Date / Time : 12/6/24 1725

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035350.D
 Acq On : 27 Nov 2024 15:34
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

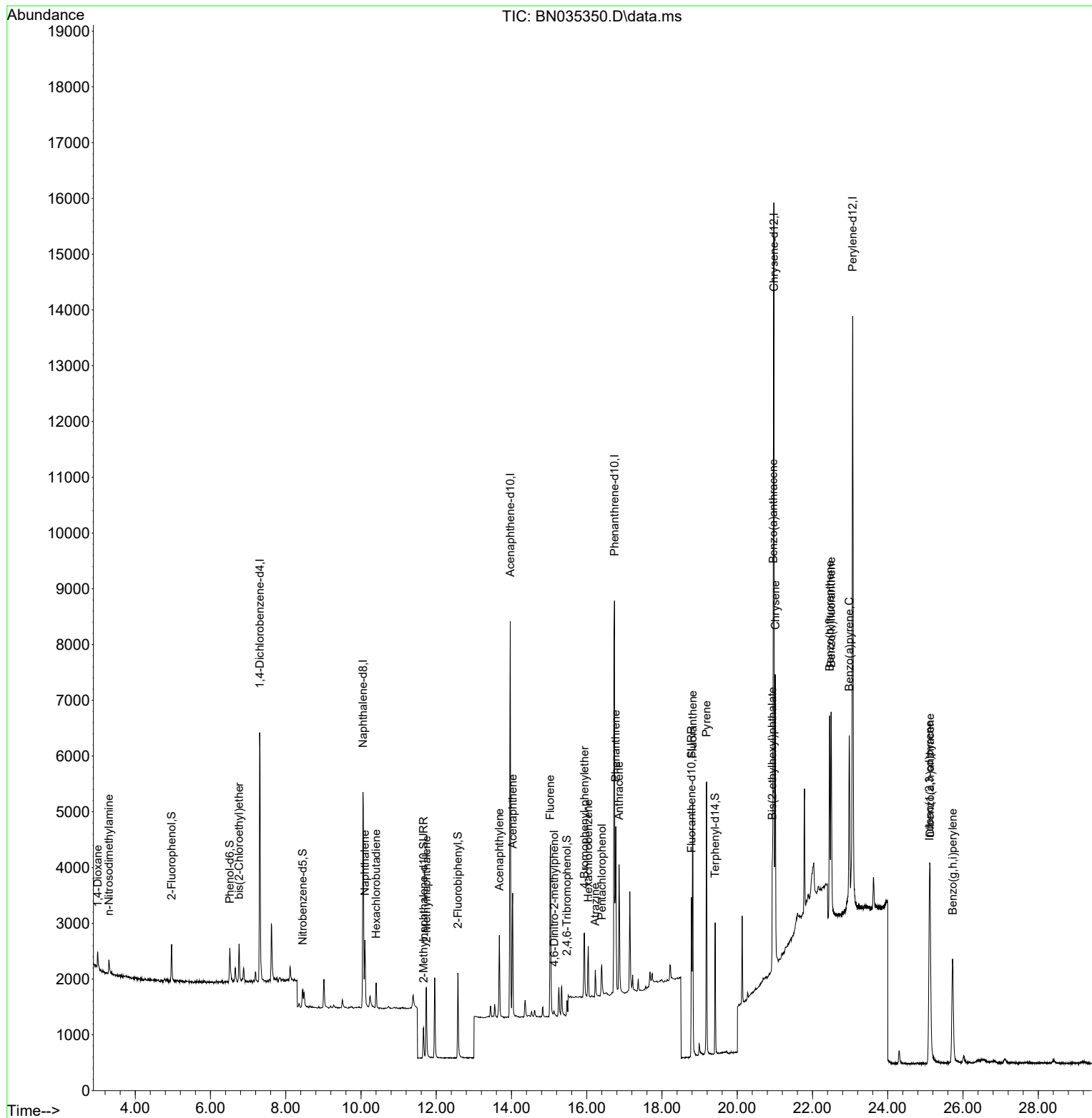
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng	0.00
35) Perylene-d12	23.067	264	13004	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	573	0.101	ng	0.00
5) Phenol-d6	6.513	99	686	0.096	ng	0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng	0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng	0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	227	0.112	ng	# 87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	# 90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng	98
9) Naphthalene	10.105	128	1527	0.102	ng	# 91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	# 97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng	96
16) Acenaphthylene	13.679	152	1675	0.096	ng	100
17) Acenaphthene	14.031	154	1143	0.100	ng	99
18) Fluorene	15.026	166	1620	0.096	ng	98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	# 29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	# 94
22) Hexachlorobenzene	16.041	284	720	0.100	ng	97
23) Atrazine	16.227	200	421	0.068	ng	# 86
24) Pentachlorophenol	16.401	266	381	0.114	ng	90
25) Phenanthrene	16.773	178	2963	0.104	ng	99
26) Anthracene	16.860	178	2617	0.100	ng	98
28) Fluoranthene	18.817	202	4173	0.106	ng	99
30) Pyrene	19.184	202	4461	0.119	ng	100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng	99
33) Chrysene	21.010	228	4123	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng	97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	# 82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	# 80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	# 69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	# 86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	# 93

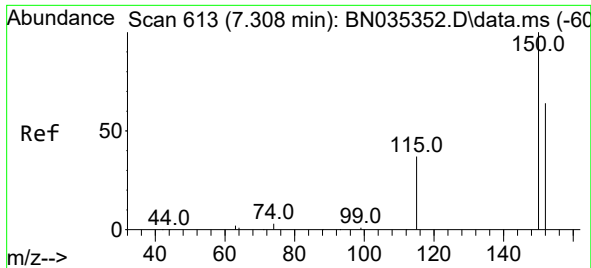
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

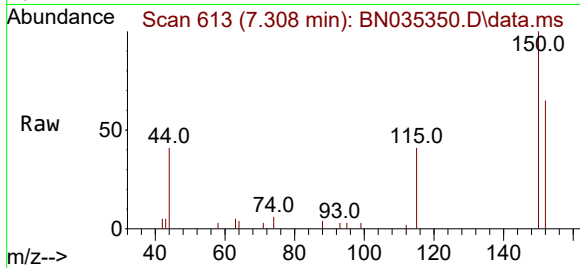
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



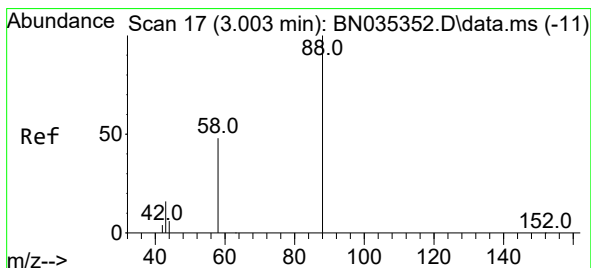
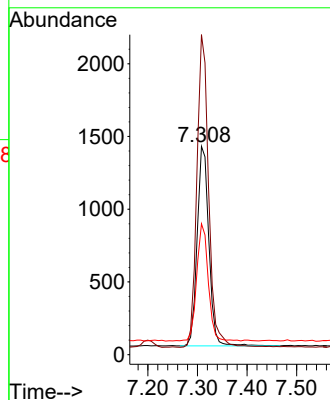
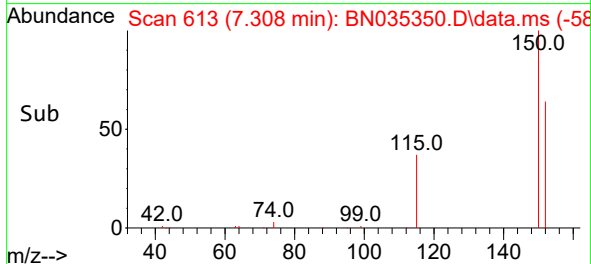


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

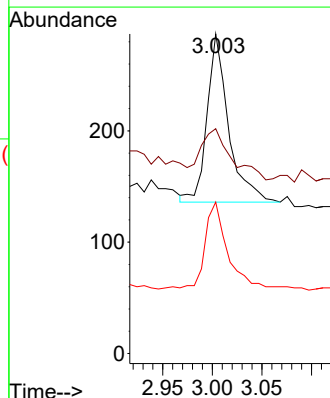
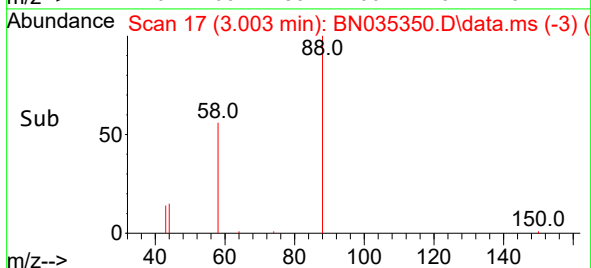
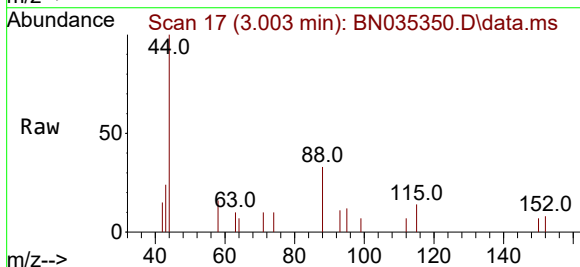


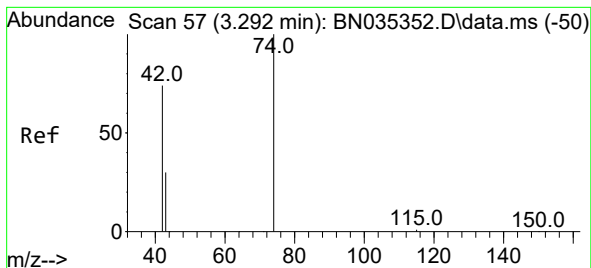
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4



#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.099 ng

RT: 3.299 min Scan# 51

Delta R.T. 0.007 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

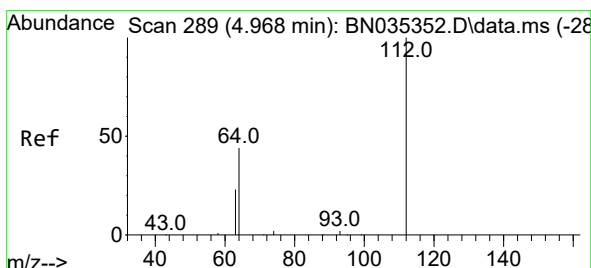
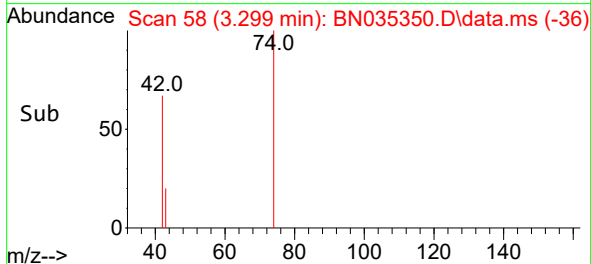
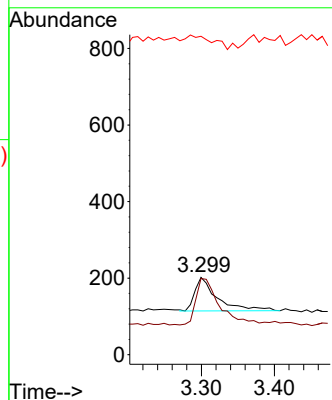
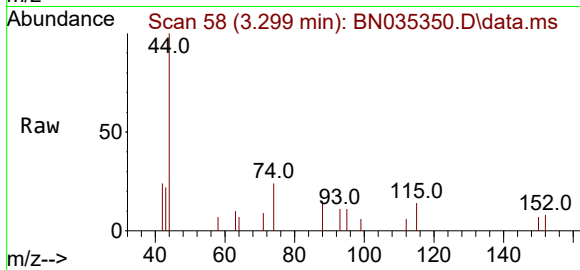
Tgt Ion: 42 Resp: 187

Ion Ratio Lower Upper

42 100

74 146.5 124.9 187.3

44 51.9 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.101 ng

RT: 4.968 min Scan# 289

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

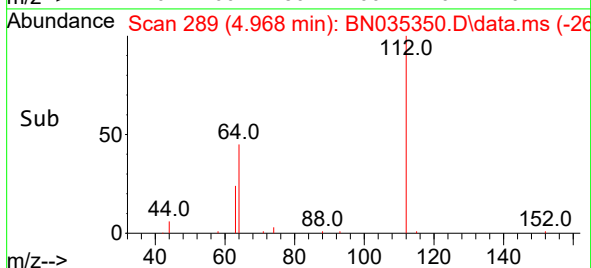
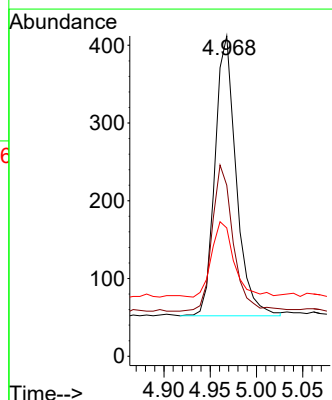
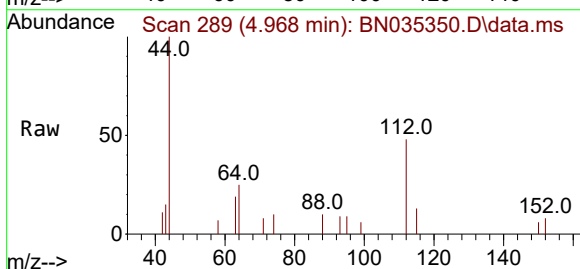
Tgt Ion: 112 Resp: 573

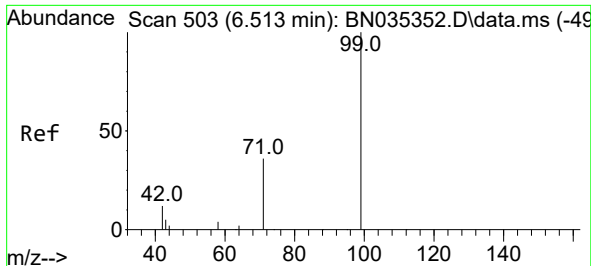
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6

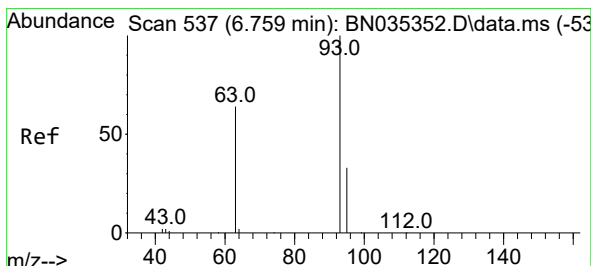
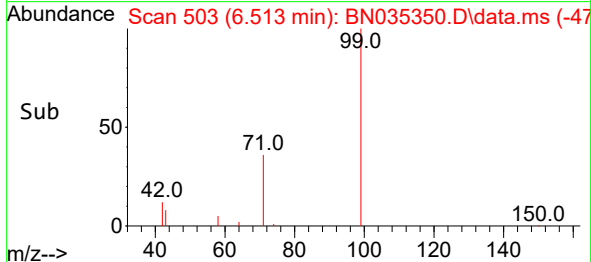
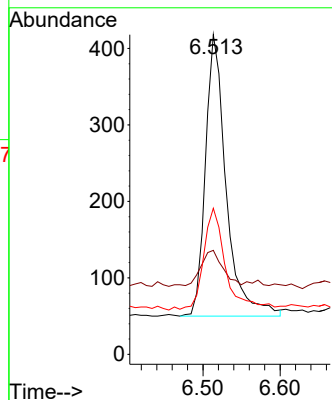
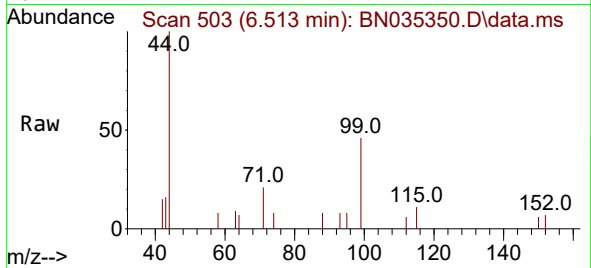




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

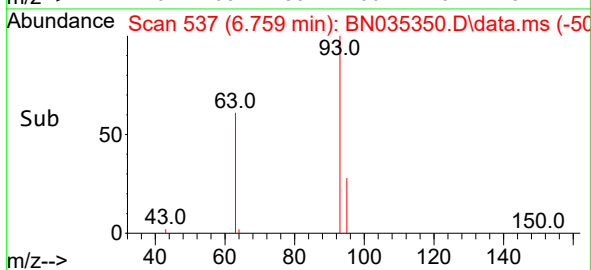
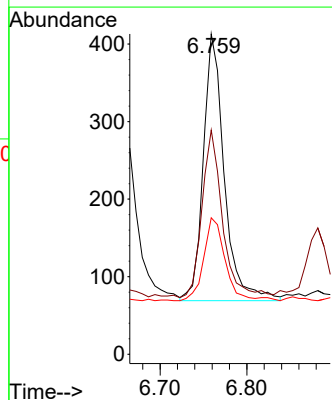
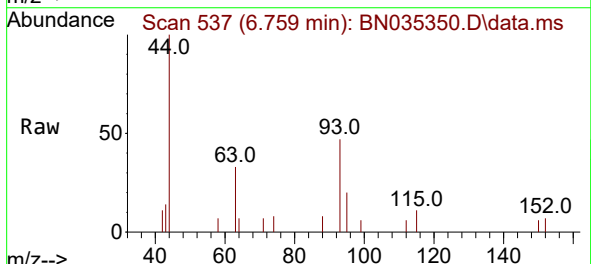
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

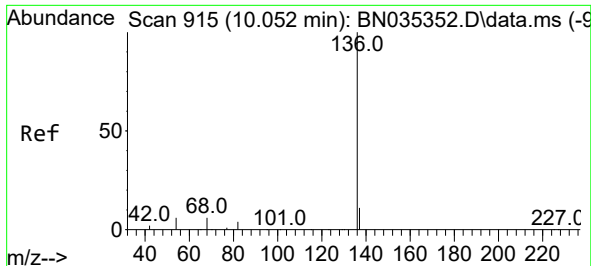
Tgt Ion: 99 Resp: 686
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.3 25.7 38.5

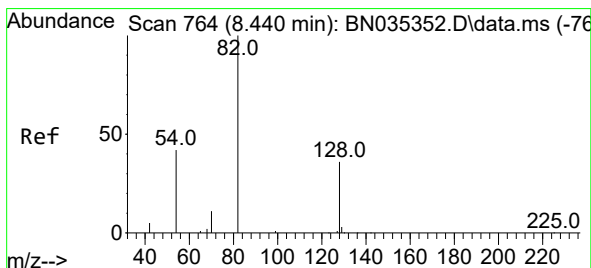
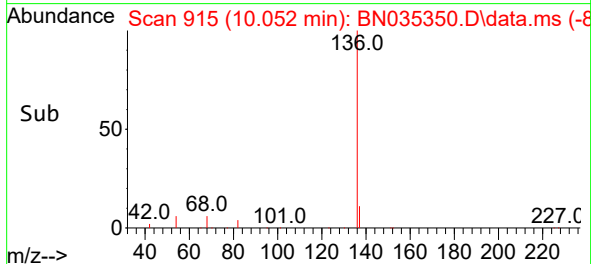
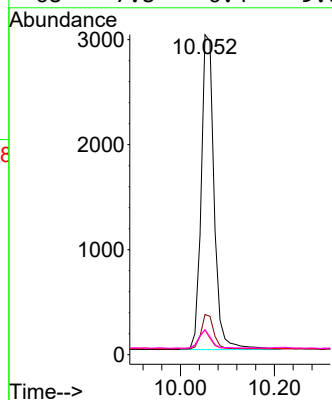
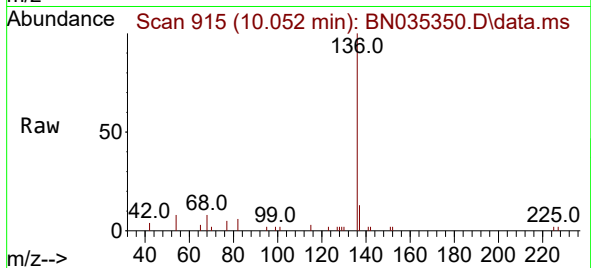




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

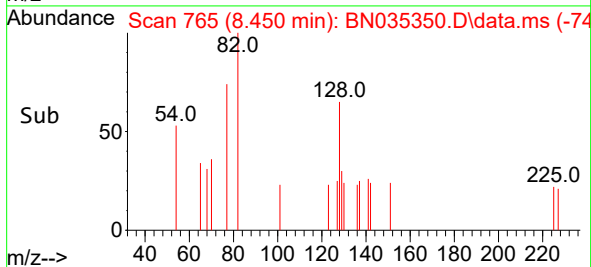
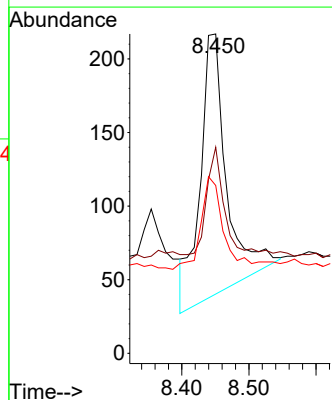
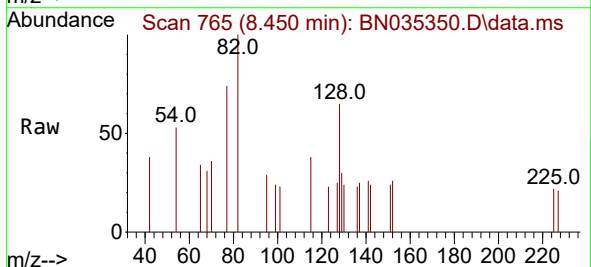
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

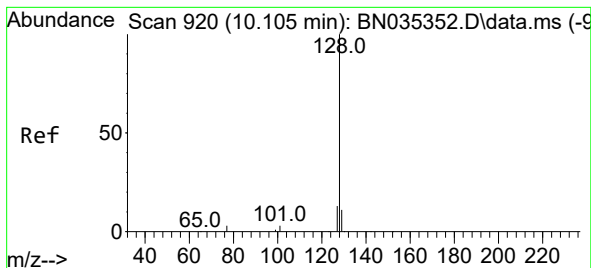
Tgt Ion:	136	Resp:	5753
Ion Ratio	Lower	Upper	
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:	82	Resp:	492
Ion Ratio	Lower	Upper	
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1





#9

Naphthalene

Concen: 0.102 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

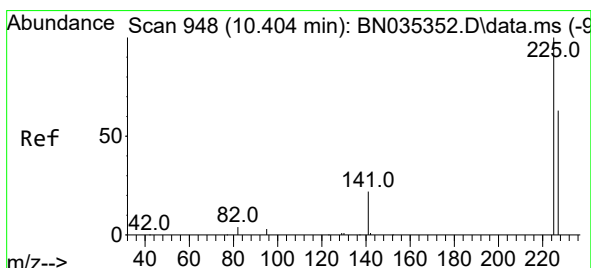
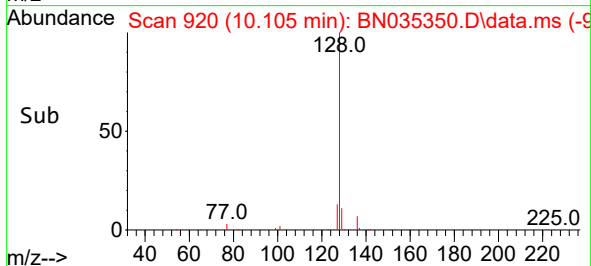
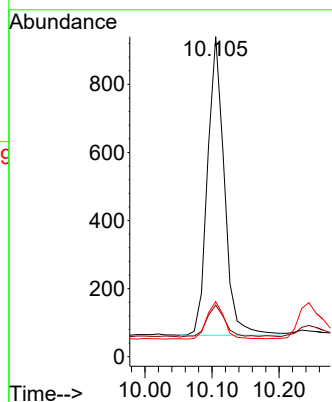
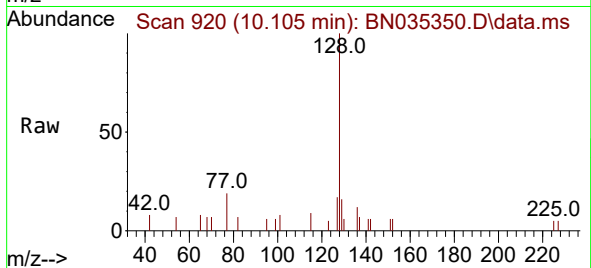
Tgt Ion:128 Resp: 1527

Ion Ratio Lower Upper

128 100

129 16.2 9.8 14.6#

127 17.2 11.4 17.2#



#10

Hexachlorobutadiene

Concen: 0.080 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

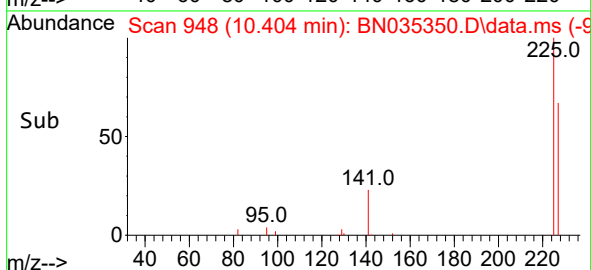
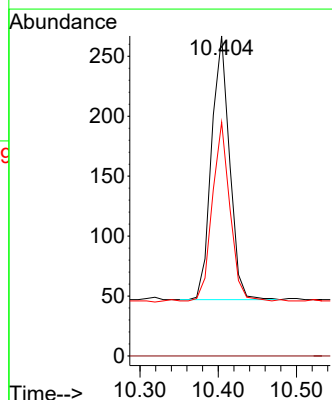
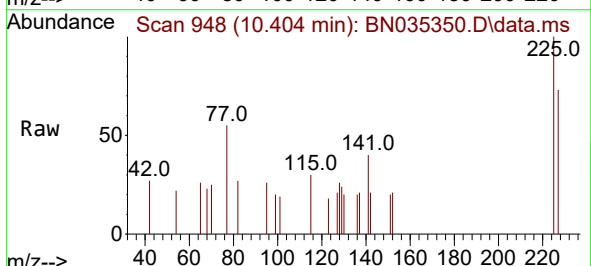
Tgt Ion:225 Resp: 352

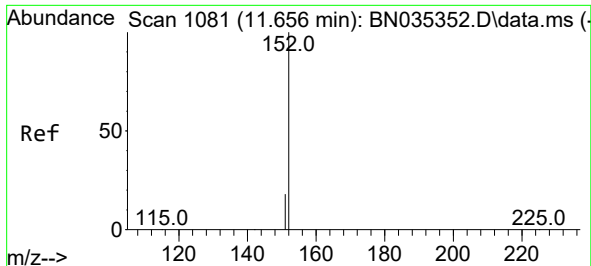
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 66.2 51.3 76.9

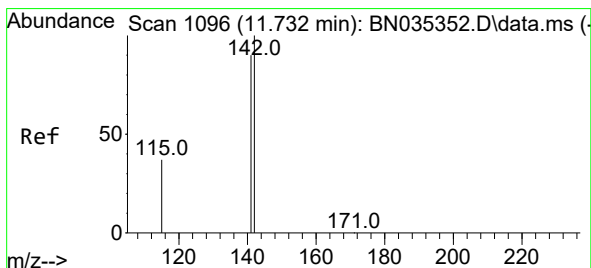
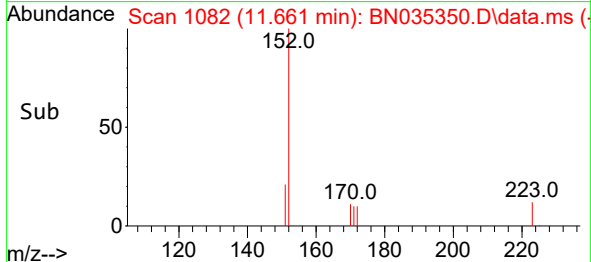
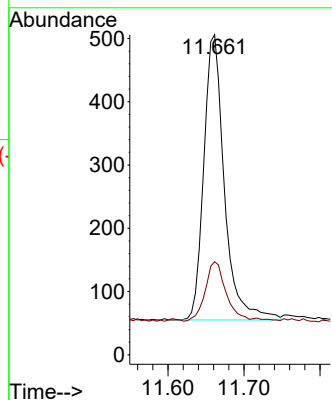
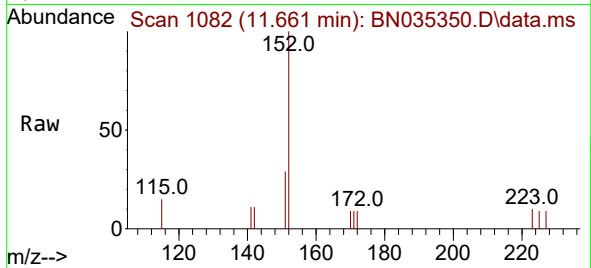




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

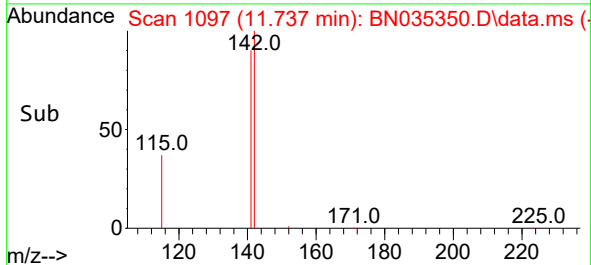
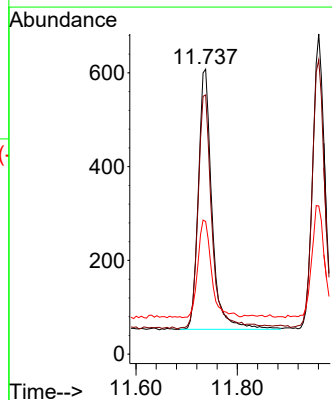
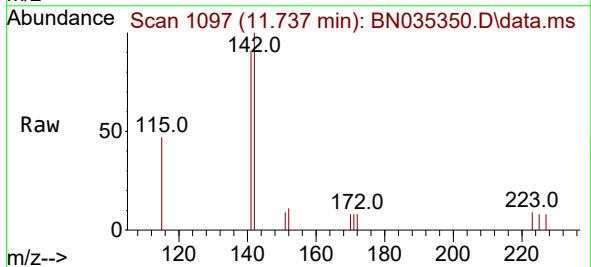
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

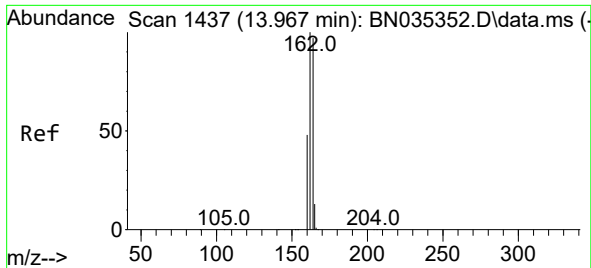
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0

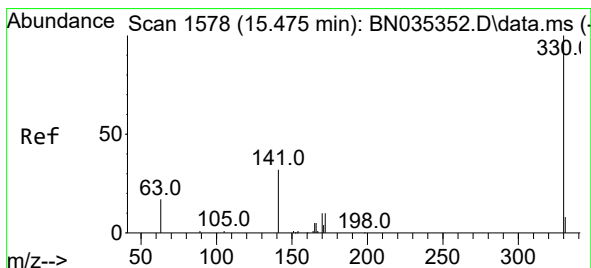
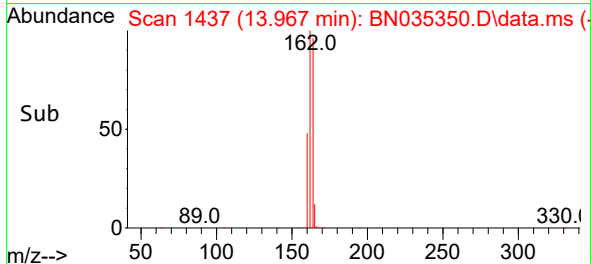
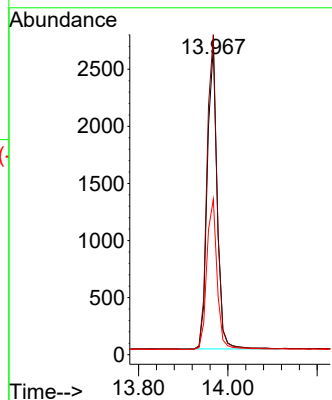
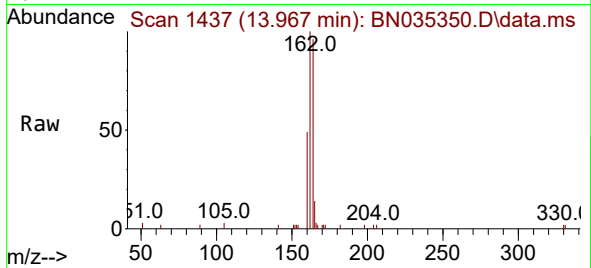




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

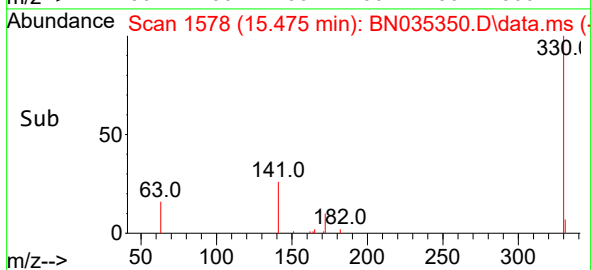
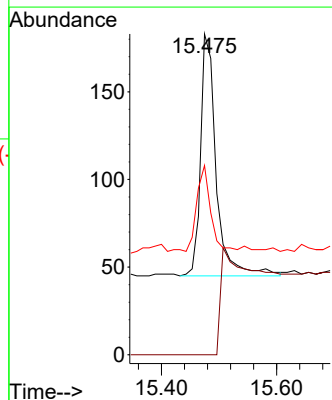
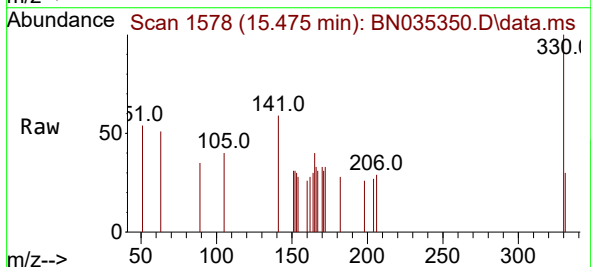
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

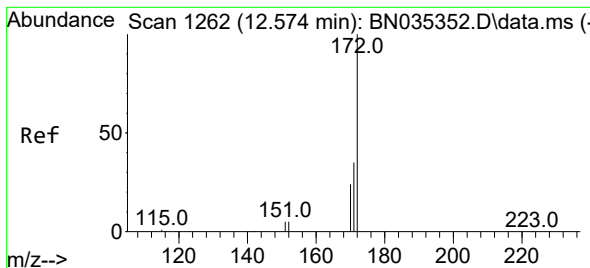
Tgt Ion:164 Resp: 4077
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

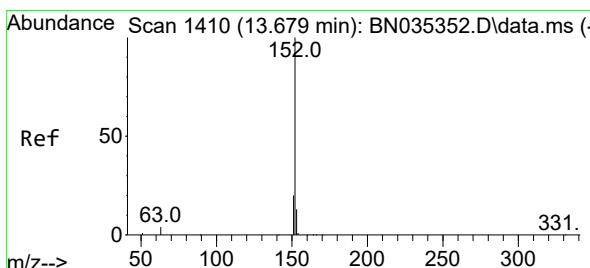
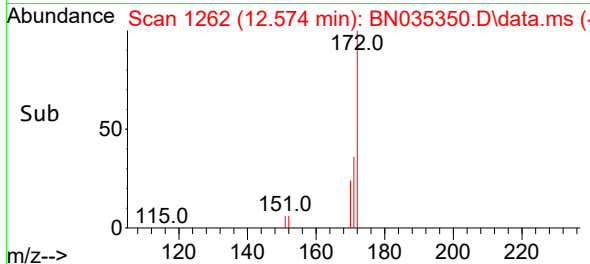
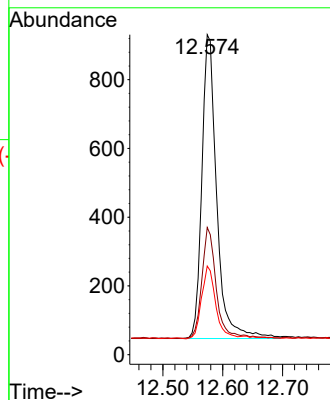
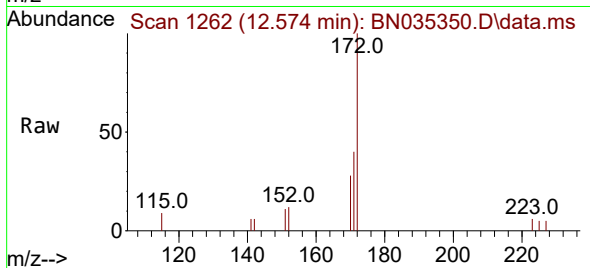
Tgt Ion:172 Resp: 1518

Ion Ratio Lower Upper

172 100

171 39.7 29.0 43.4

170 27.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.096 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

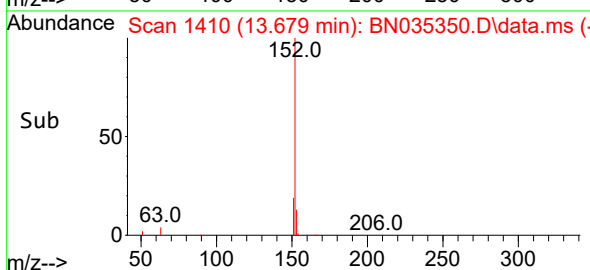
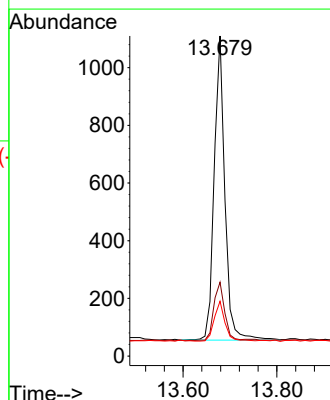
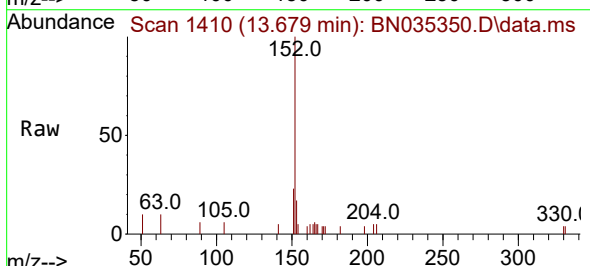
Tgt Ion:152 Resp: 1675

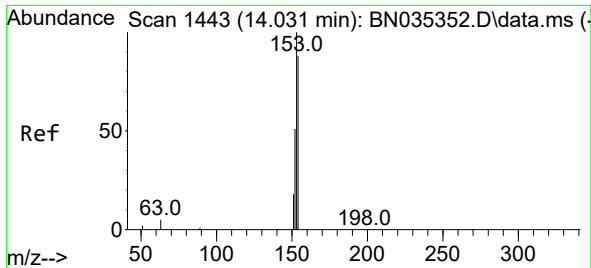
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.1 10.4 15.6

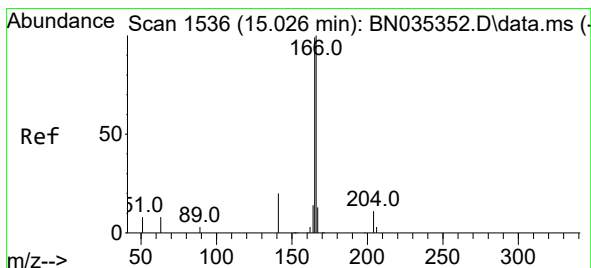
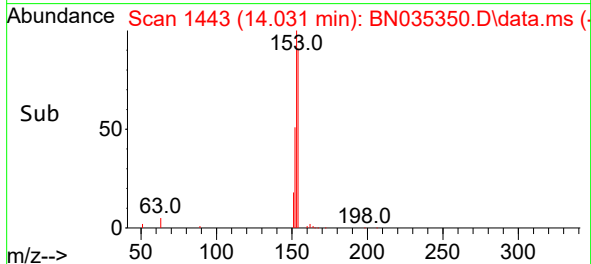
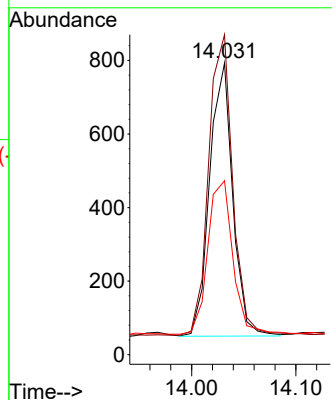
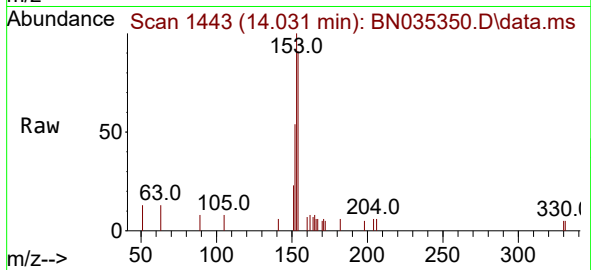




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

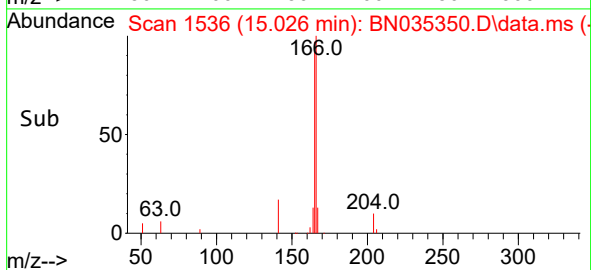
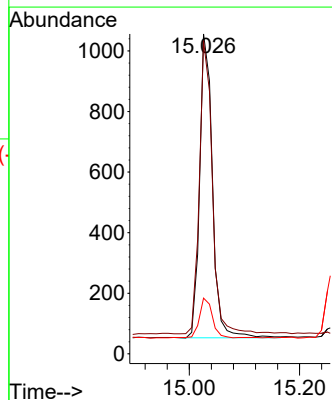
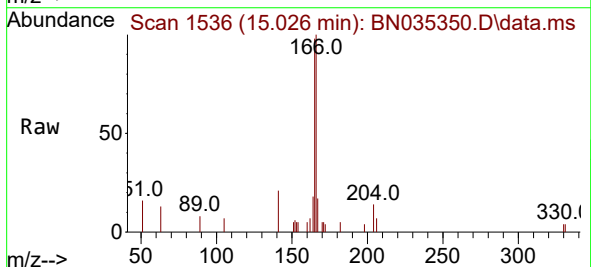
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

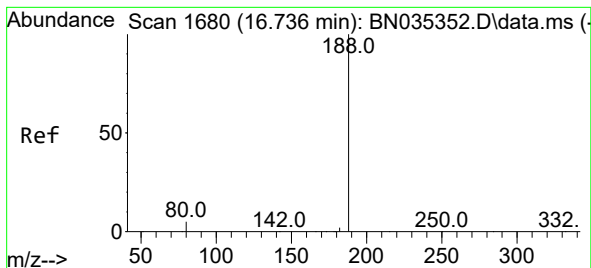
Tgt Ion:154 Resp: 1143
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6



#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620
Ion Ratio Lower Upper
166 100
165 97.7 79.7 119.5
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

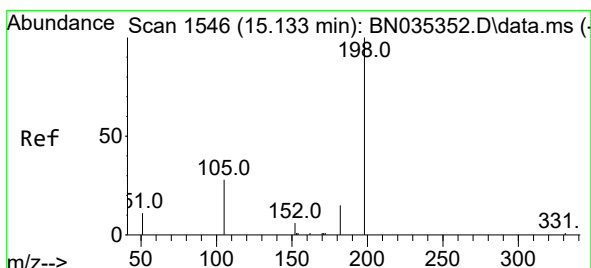
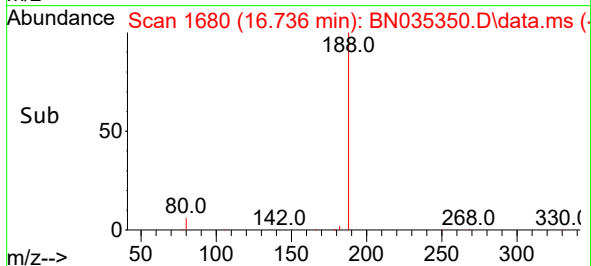
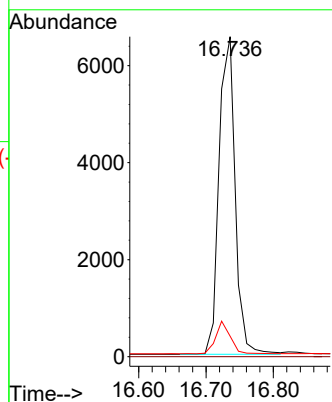
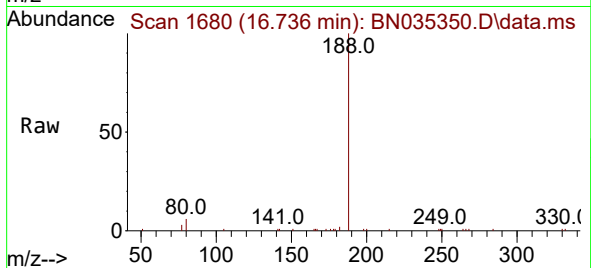
Tgt Ion:188 Resp: 10855

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.4 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

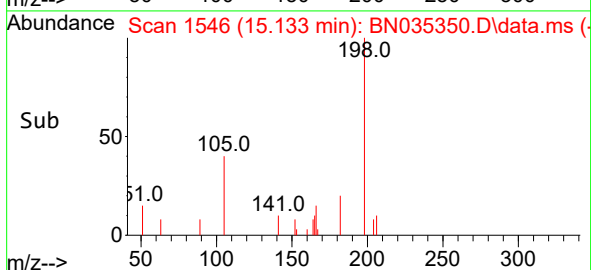
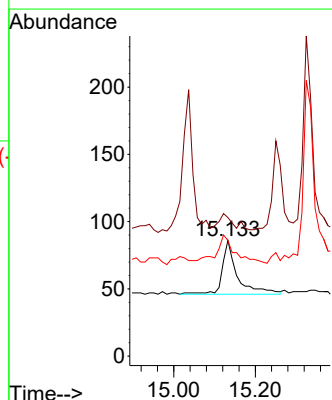
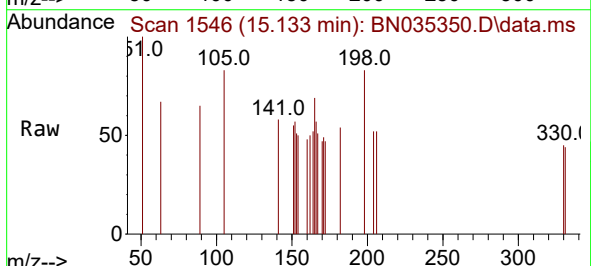
Tgt Ion:198 Resp: 103

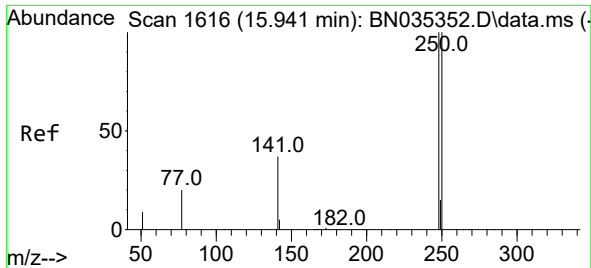
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

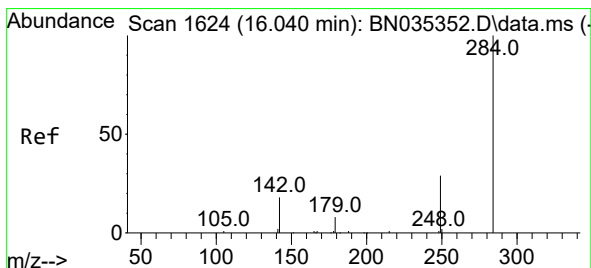
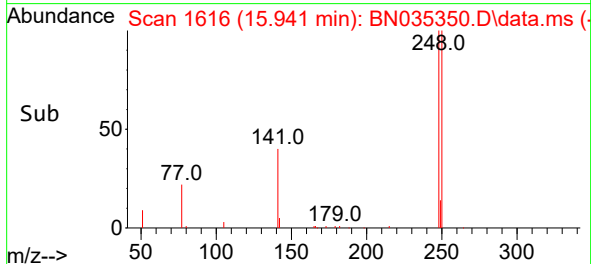
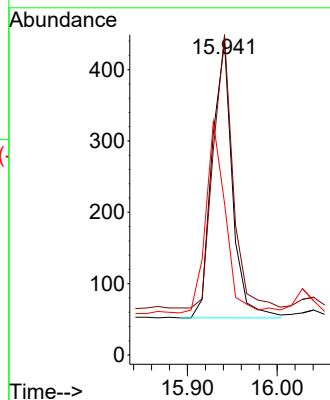
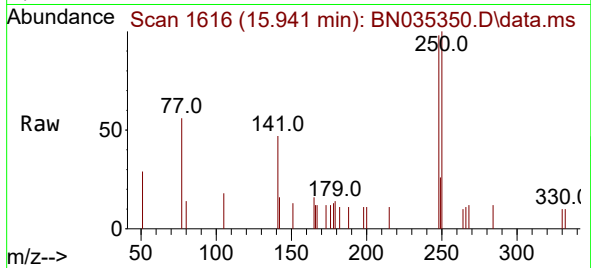




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

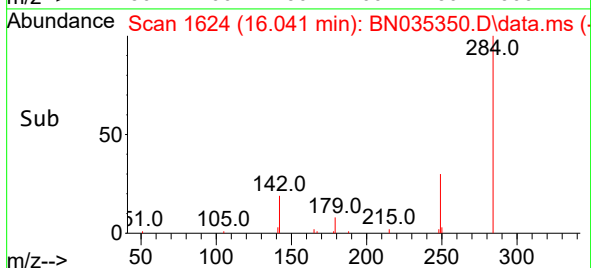
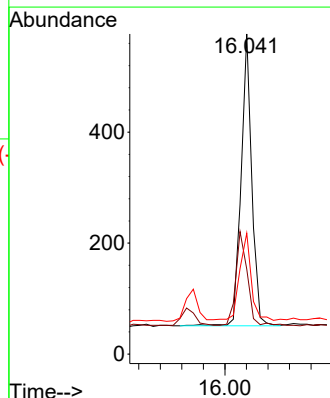
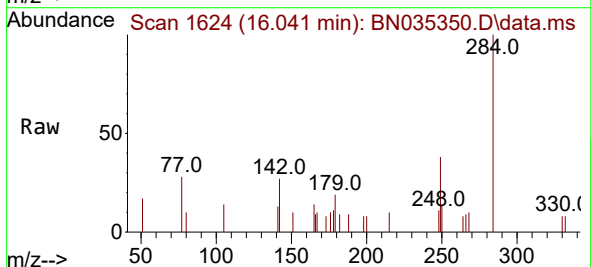
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

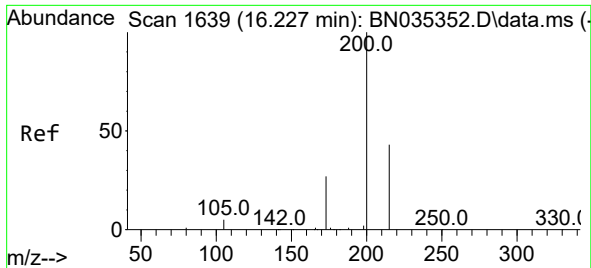
Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8

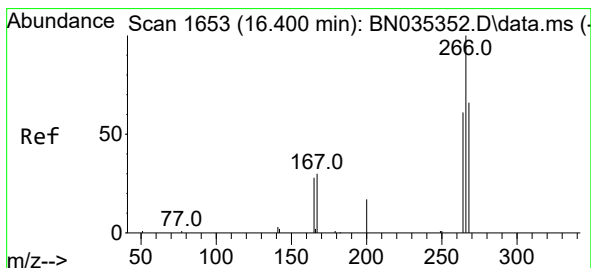
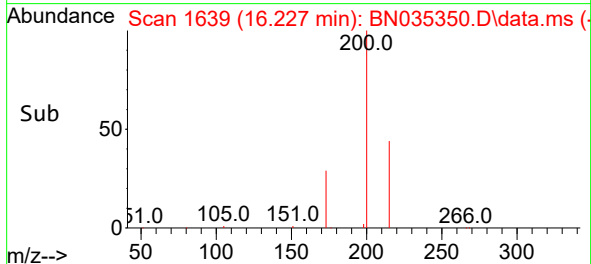
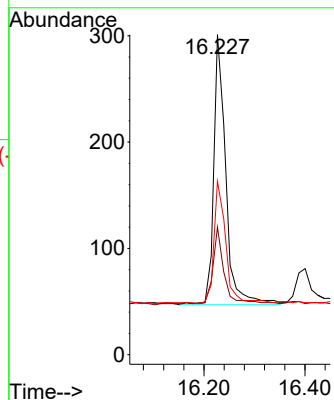
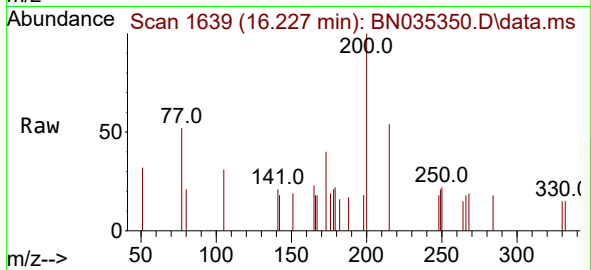




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

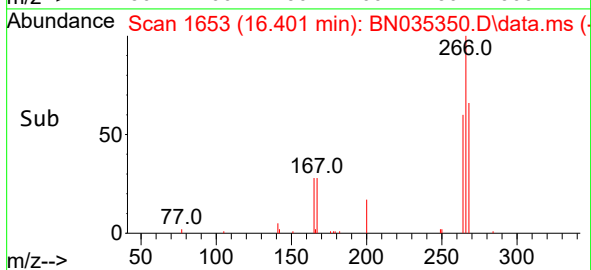
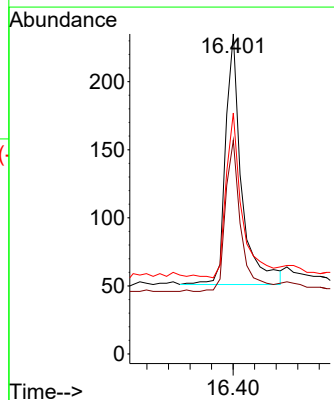
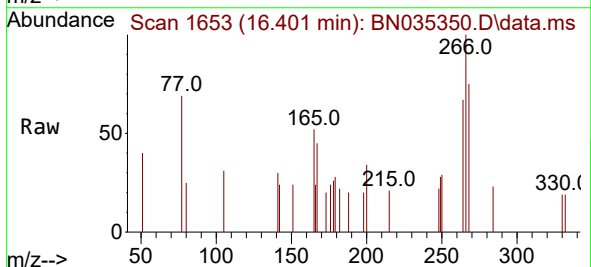
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

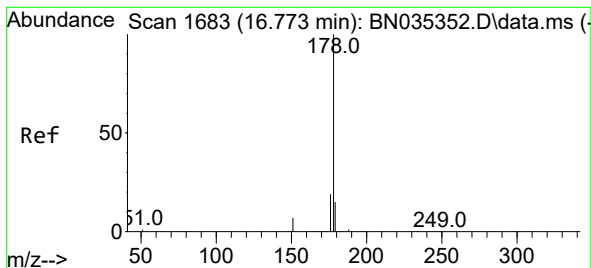
Tgt Ion:200 Resp: 421
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1#
215 54.2 36.9 55.3



#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381
Ion Ratio Lower Upper
266 100
264 58.3 42.3 63.5
268 63.3 43.3 64.9





#25

Phenanthrene

Concen: 0.104 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

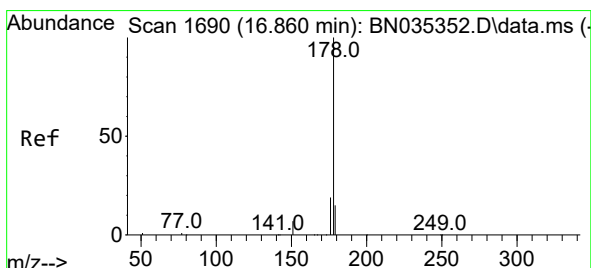
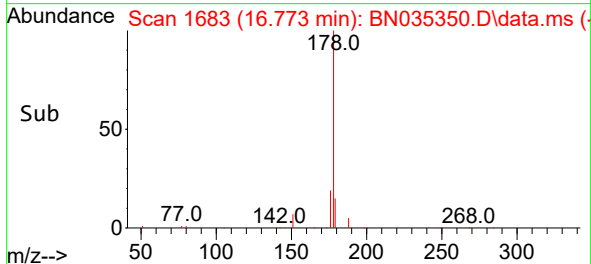
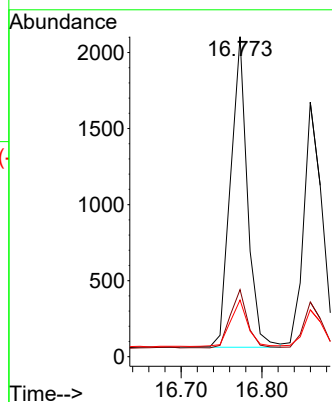
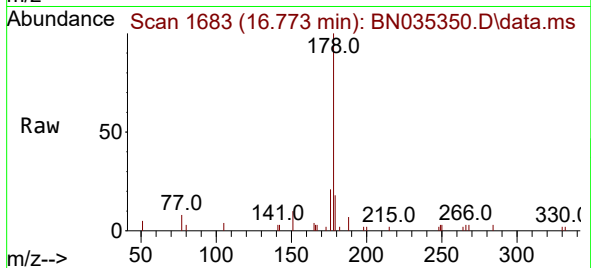
Tgt Ion:178 Resp: 2963

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.100 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

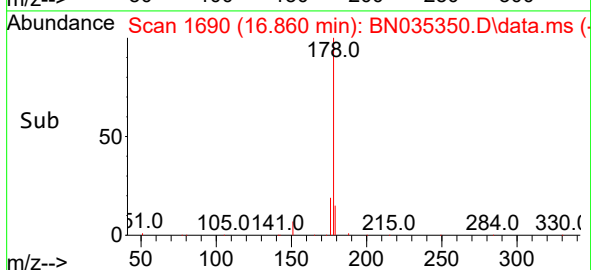
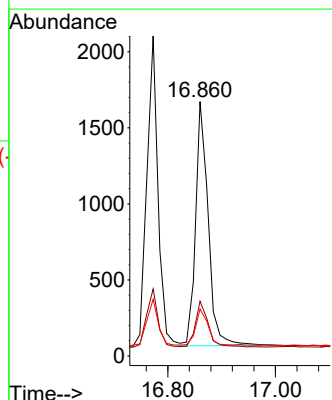
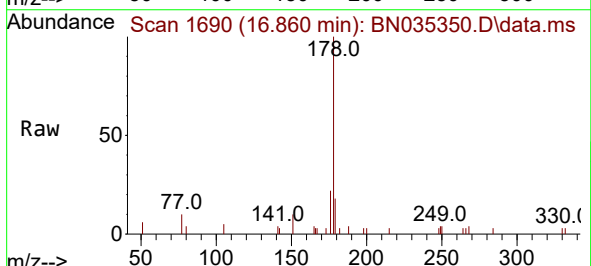
Tgt Ion:178 Resp: 2617

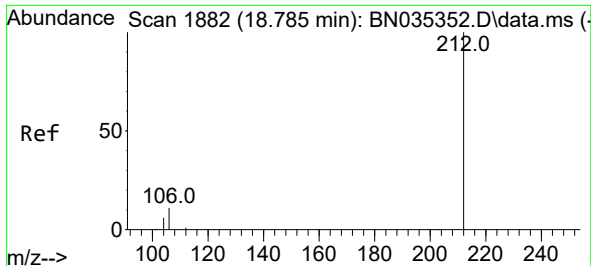
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 14.3 12.6 18.8

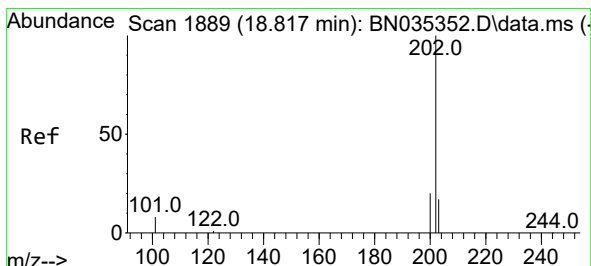
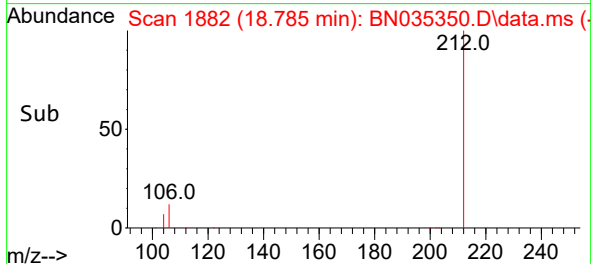
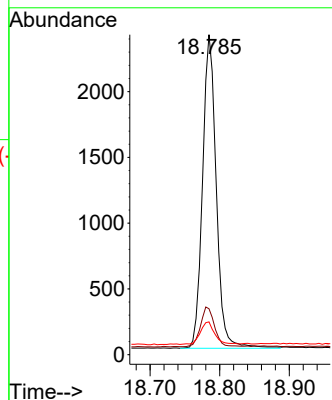
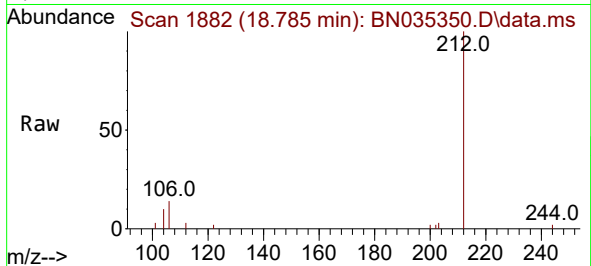




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

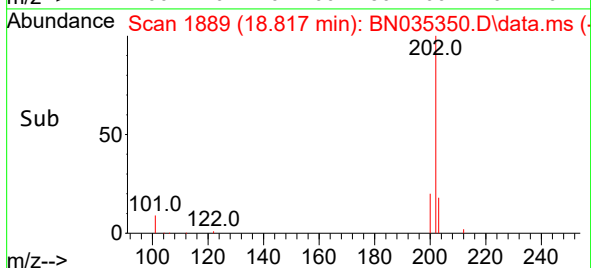
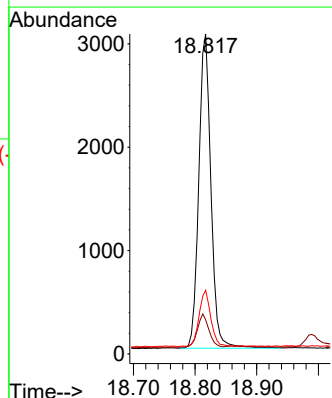
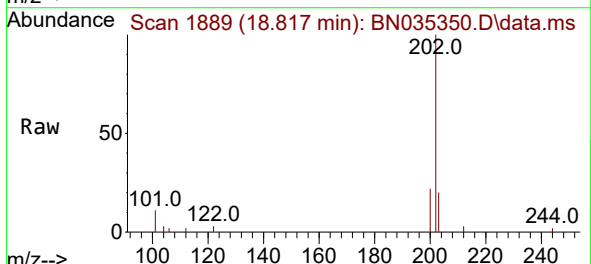
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

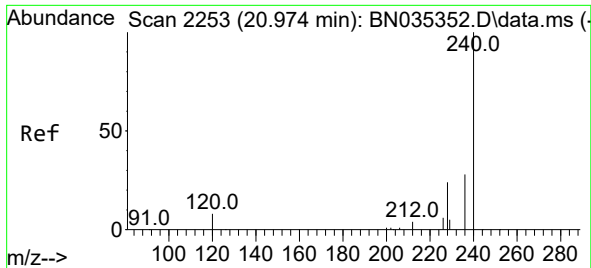
Tgt Ion:212 Resp: 3265
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9



#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173
Ion Ratio Lower Upper
202 100
101 10.2 7.4 11.0
203 17.3 13.7 20.5

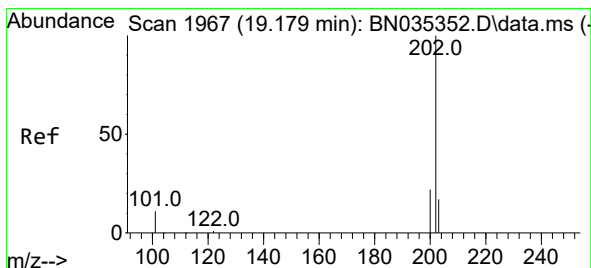
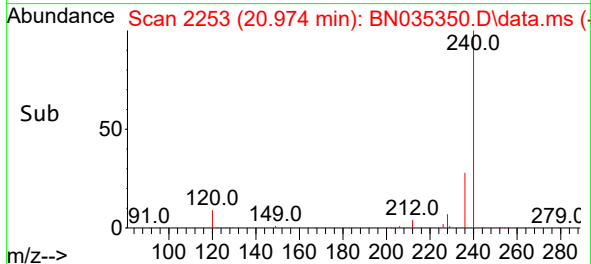
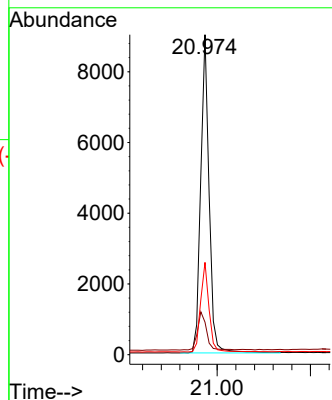
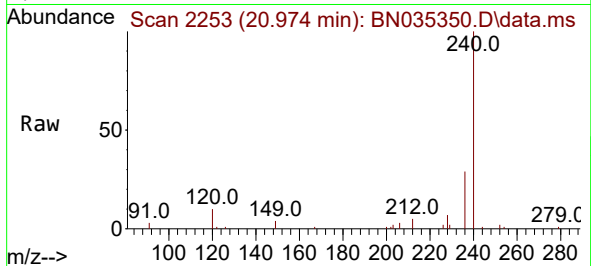




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

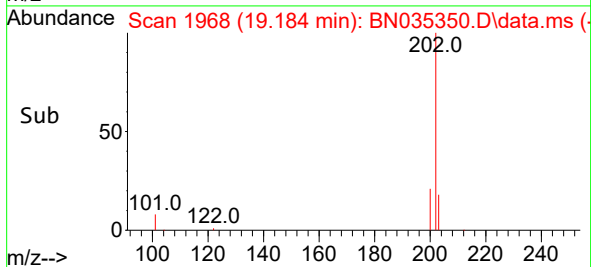
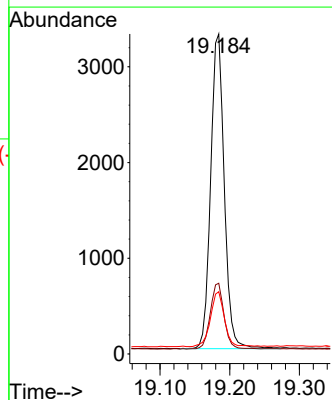
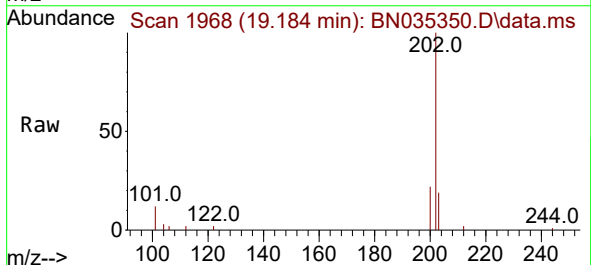
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

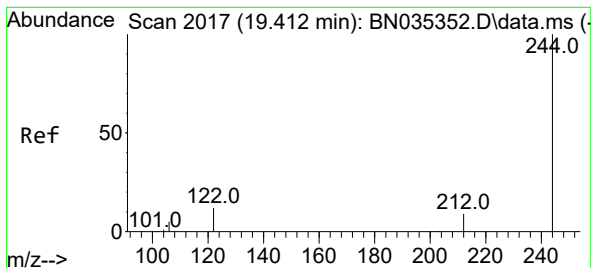
Tgt Ion:240 Resp: 11269
Ion Ratio Lower Upper
240 100
120 10.1 7.9 11.9
236 28.8 22.9 34.3



#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.099 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

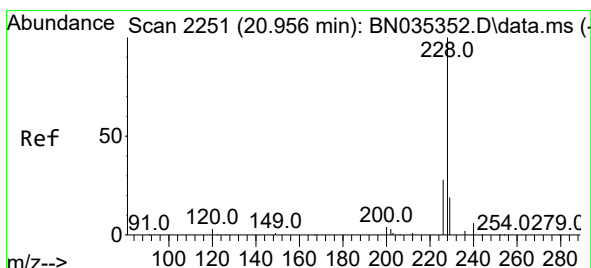
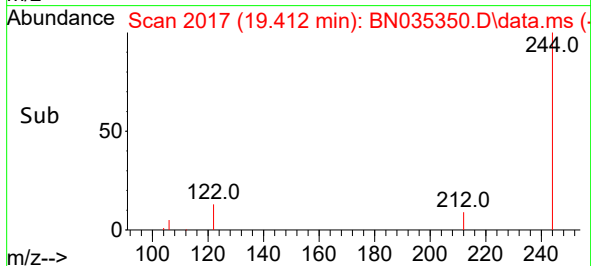
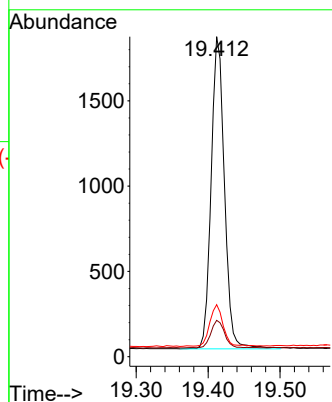
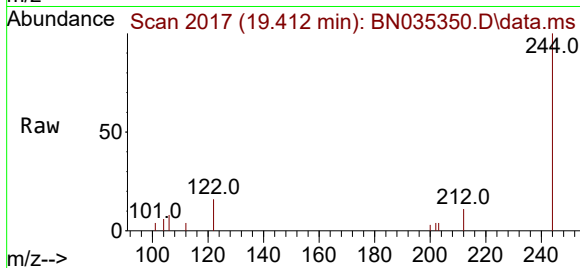
Tgt Ion:244 Resp: 2344

Ion Ratio Lower Upper

244 100

212 11.4 8.1 12.1

122 16.3 10.3 15.5#



#32

Benzo(a)anthracene

Concen: 0.103 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

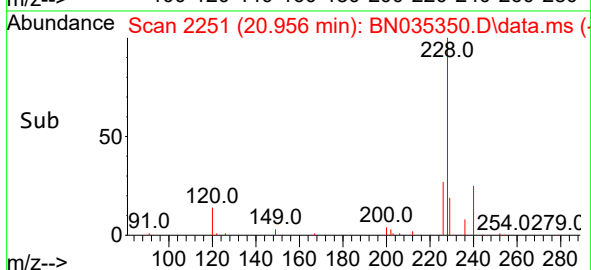
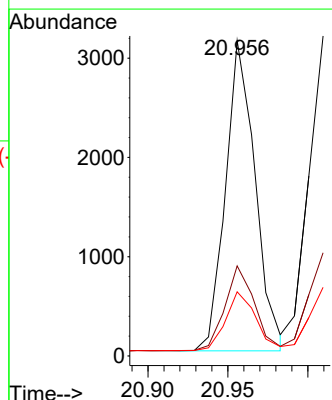
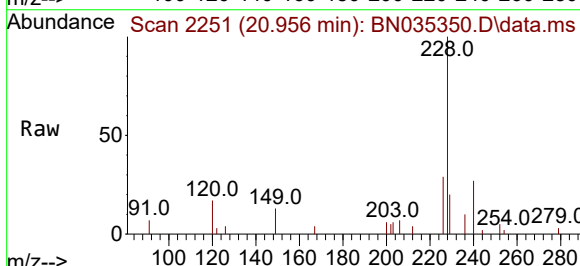
Tgt Ion:228 Resp: 4031

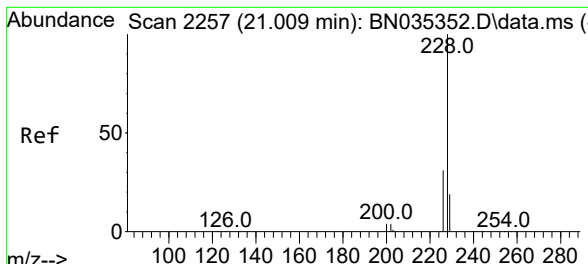
Ion Ratio Lower Upper

228 100

226 28.5 22.5 33.7

229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.106 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

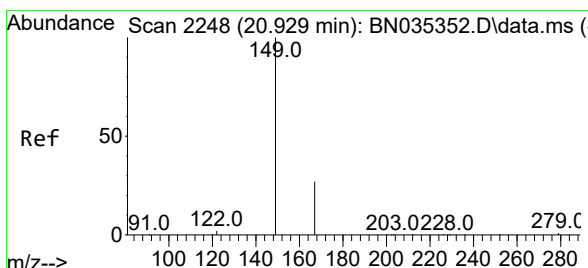
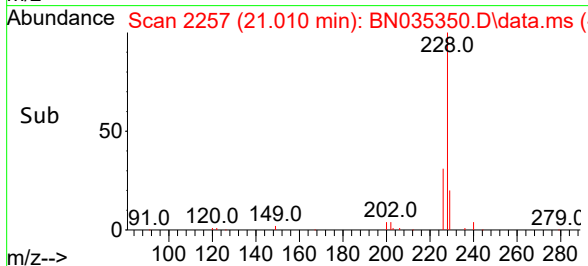
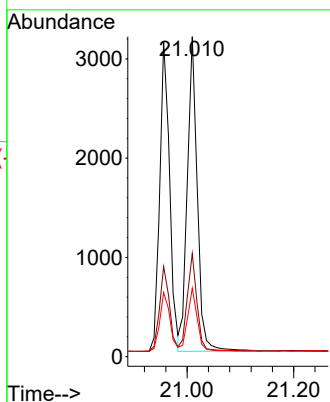
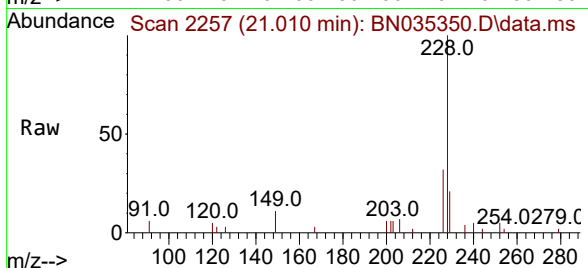
Tgt Ion:228 Resp: 4123

Ion Ratio Lower Upper

228 100

226 32.3 24.6 37.0

229 21.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

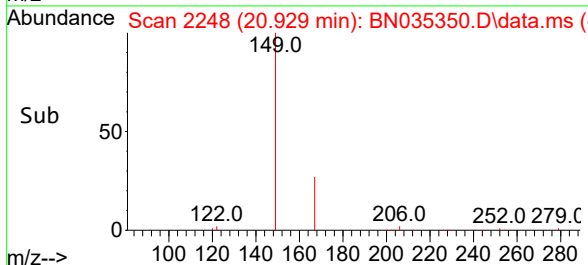
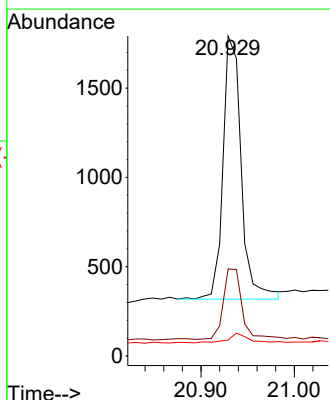
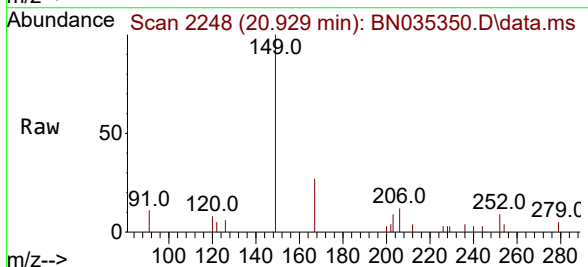
Tgt Ion:149 Resp: 1999

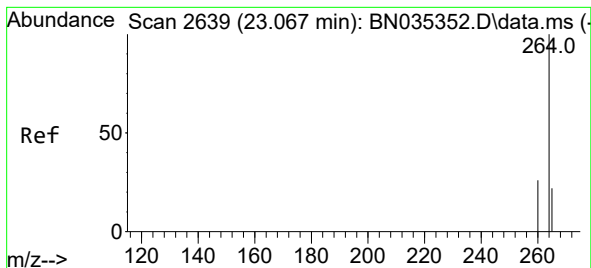
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.6 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

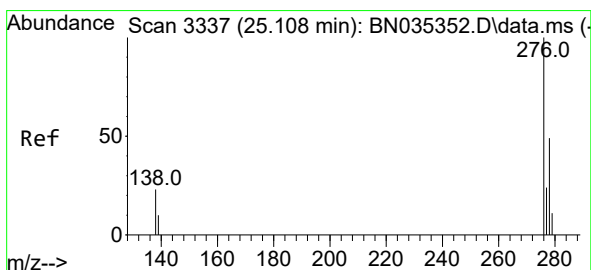
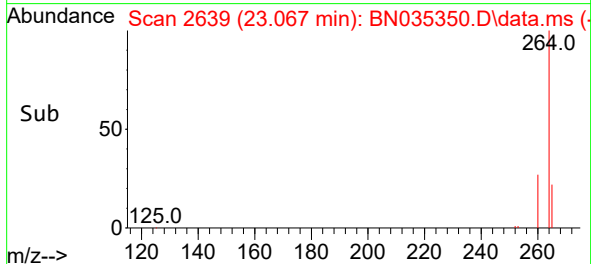
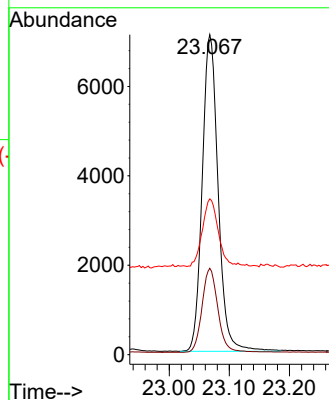
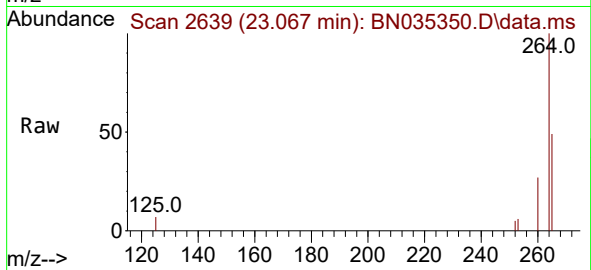
Tgt Ion:264 Resp: 13004

Ion Ratio Lower Upper

264 100

260 27.0 21.4 32.2

265 48.7 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.088 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

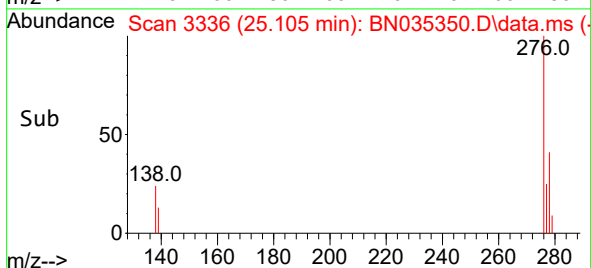
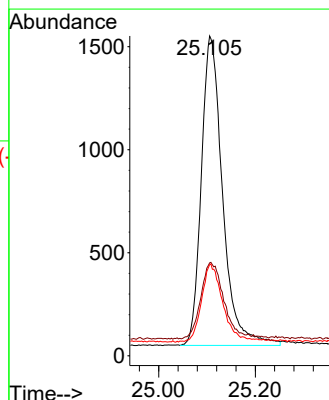
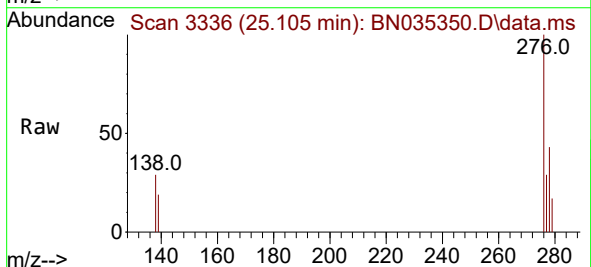
Tgt Ion:276 Resp: 4586

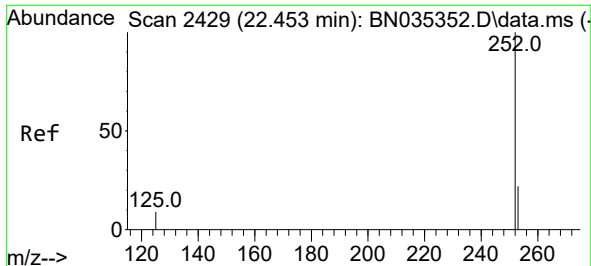
Ion Ratio Lower Upper

276 100

138 26.2 19.4 29.0

277 25.6 19.8 29.6

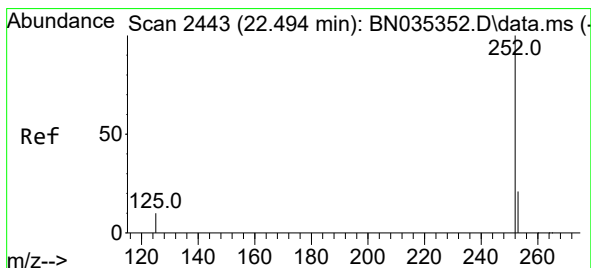
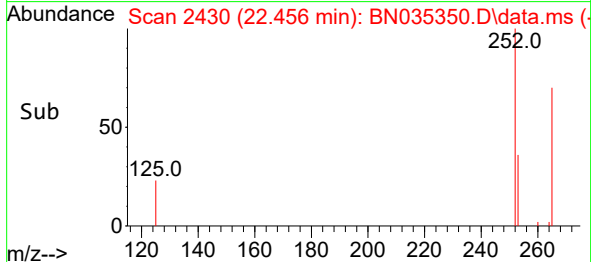
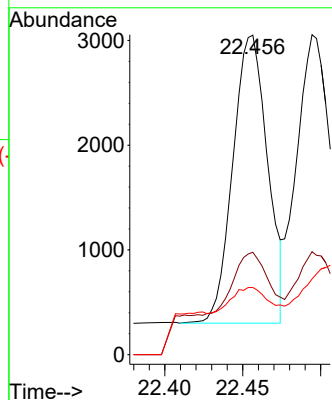
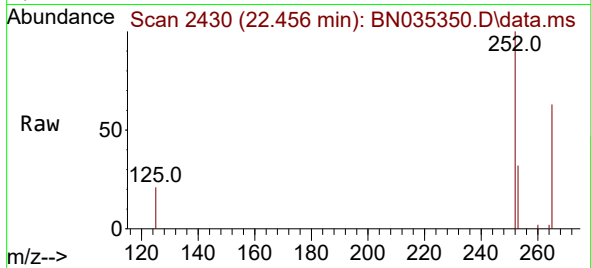




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

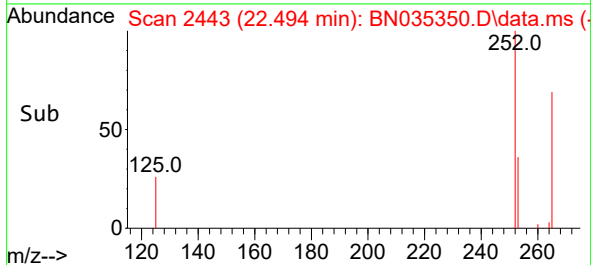
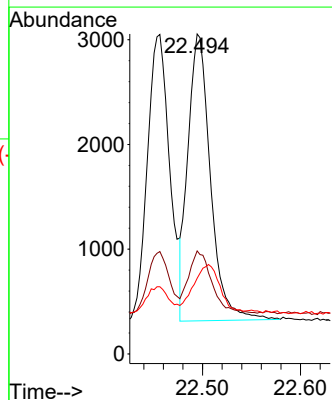
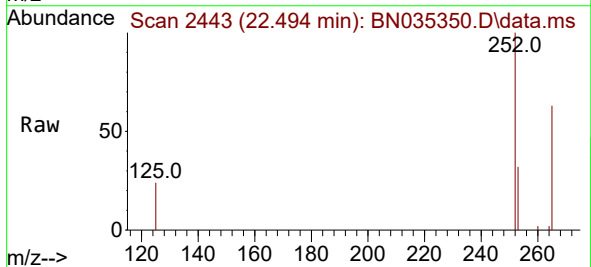
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

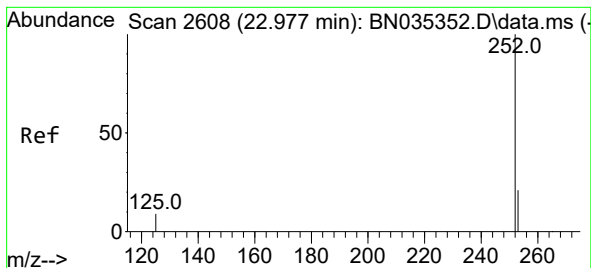
Tgt Ion:252 Resp: 4243
Ion Ratio Lower Upper
252 100
253 32.1 19.6 29.4#
125 21.0 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378
Ion Ratio Lower Upper
252 100
253 32.2 19.5 29.3#
125 23.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

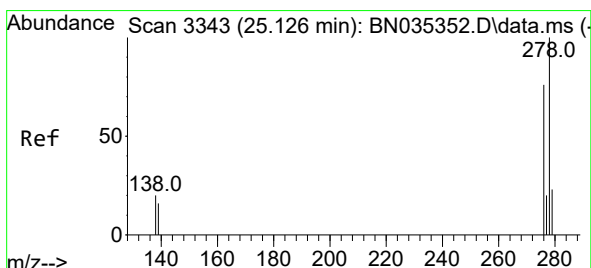
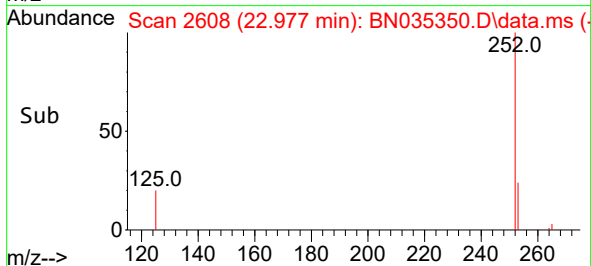
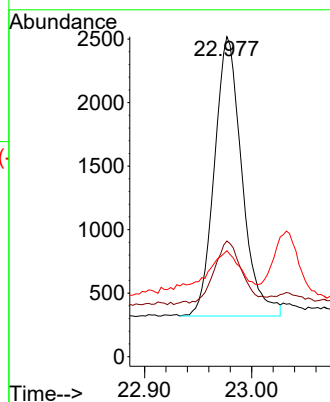
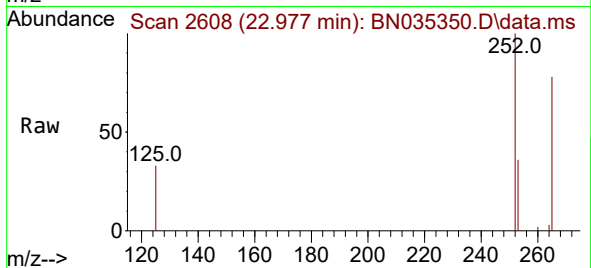
Tgt Ion:252 Resp: 3913

Ion Ratio Lower Upper

252 100

253 36.1 20.2 30.4#

125 33.1 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

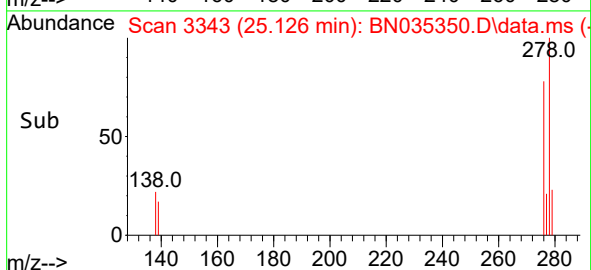
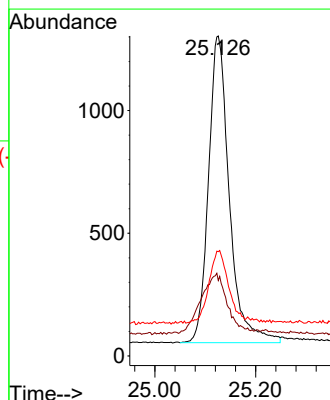
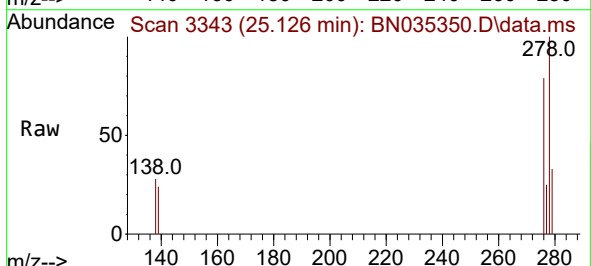
Tgt Ion:278 Resp: 3588

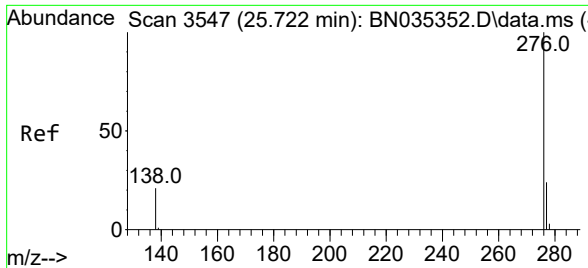
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

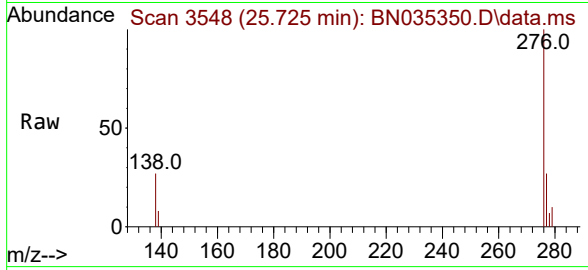
279 32.6 20.5 30.7#



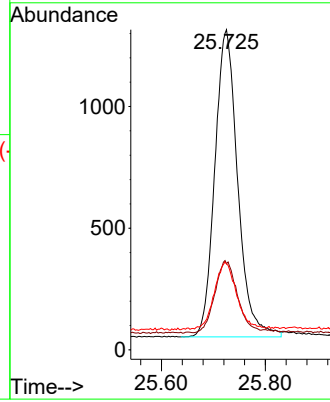
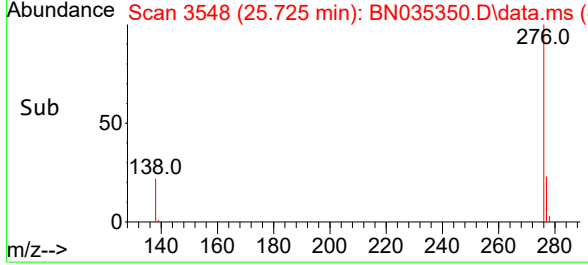


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 3863
Ion Ratio Lower Upper
276 100
277 26.9 19.9 29.9
138 26.8 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035351.D
 Acq On : 27 Nov 2024 16:10
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

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

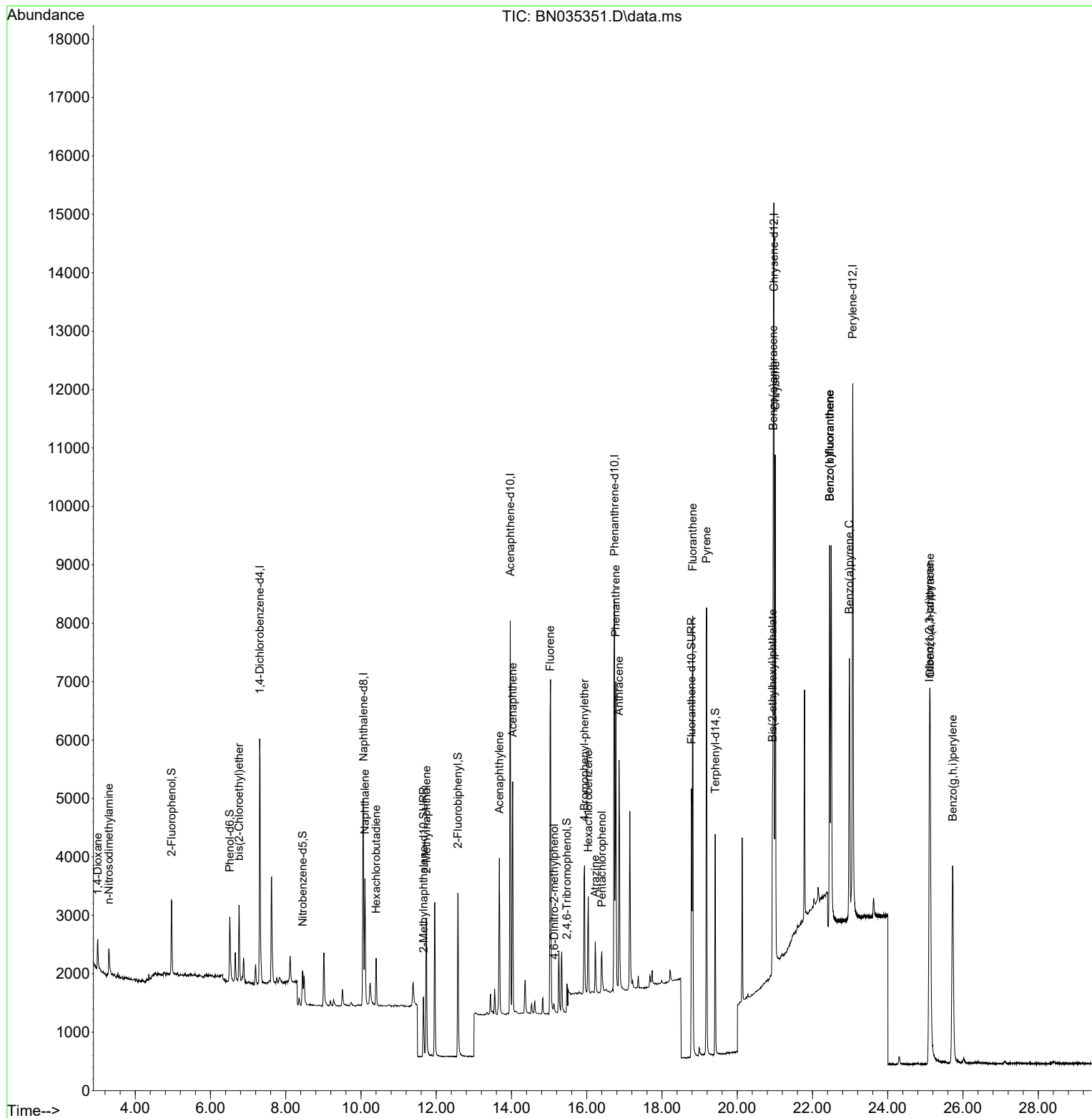
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

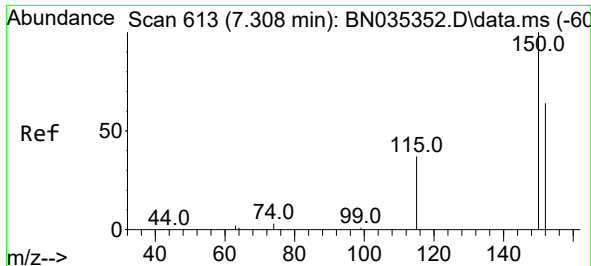
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

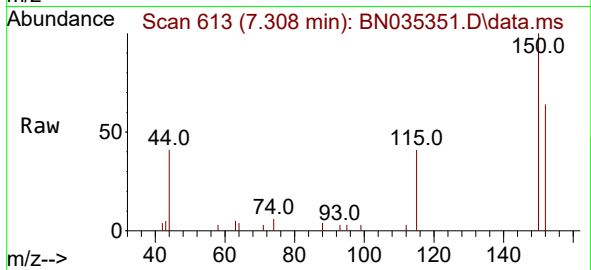
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





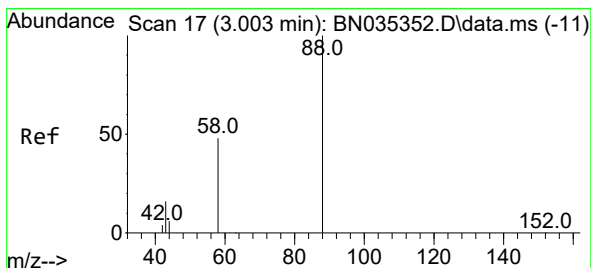
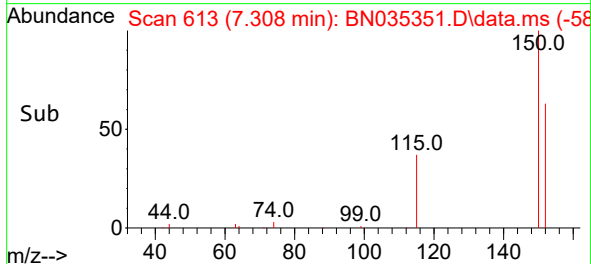
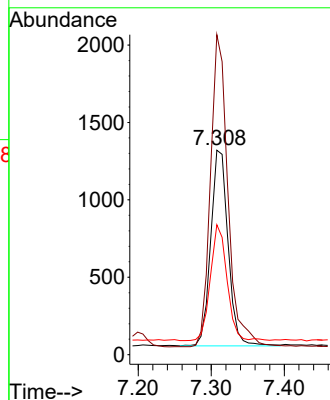
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion: 152 Resp: 2084

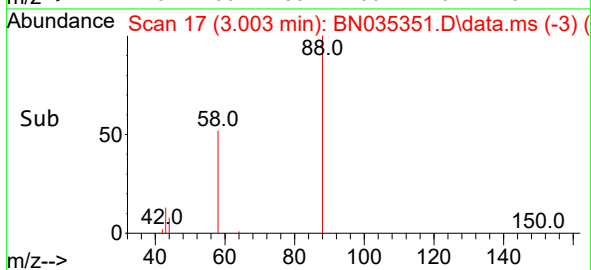
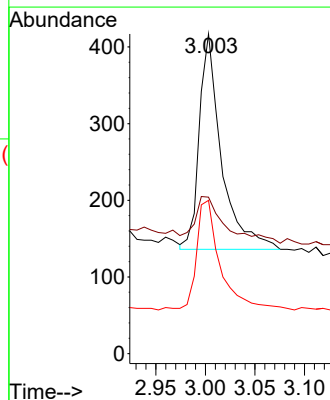
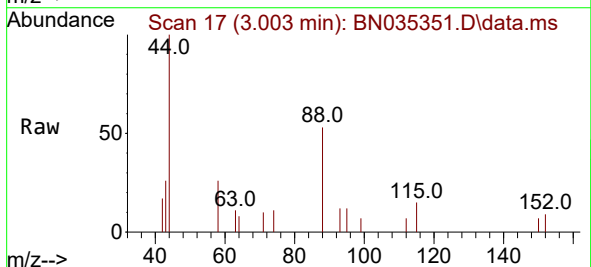
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

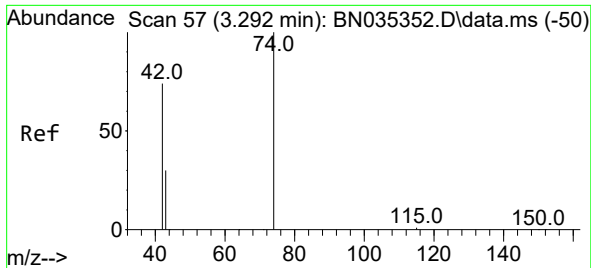


#2
 1,4-Dioxane
 Concen: 0.230 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8
58	55.2	44.5	66.7

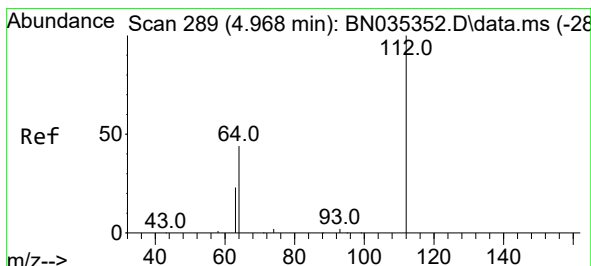
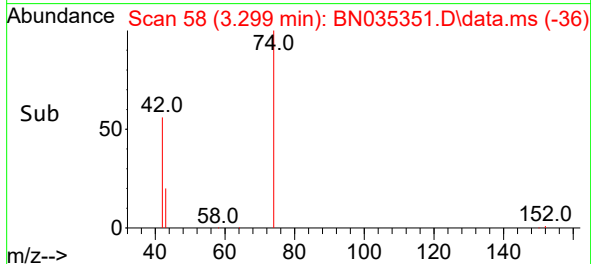
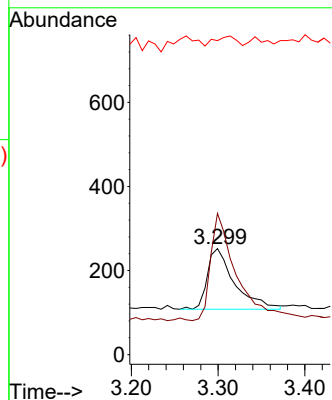
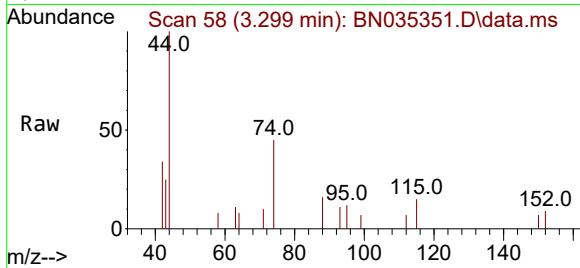




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

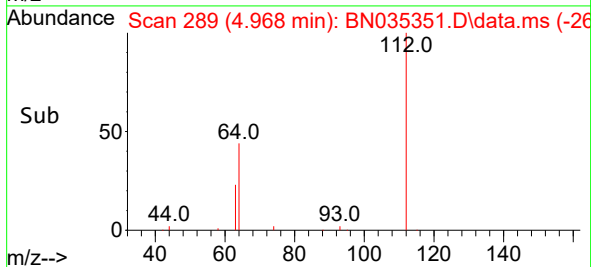
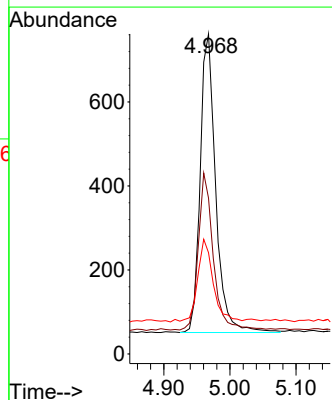
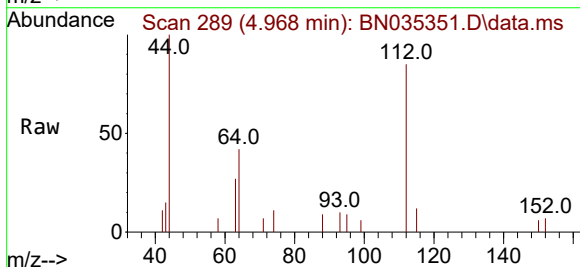
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

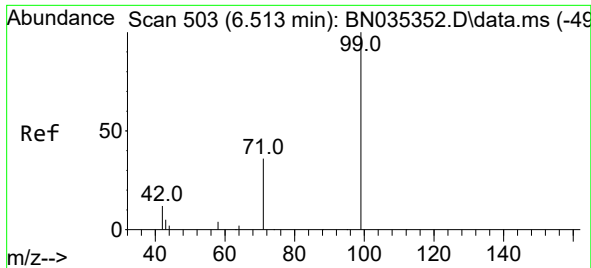
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 112 Resp: 1159
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 27.9 21.0 31.6

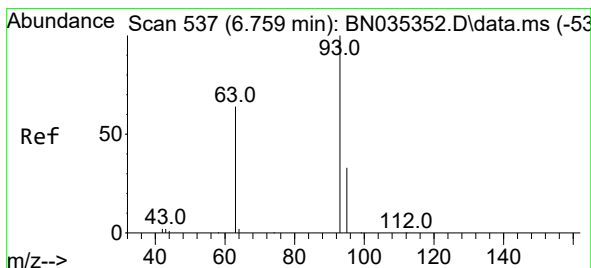
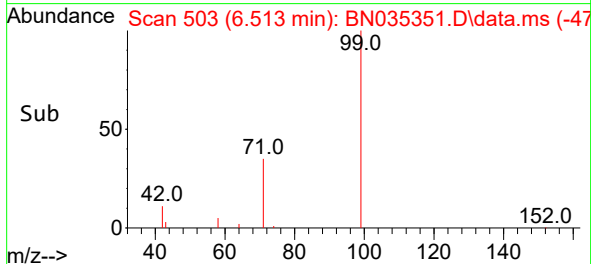
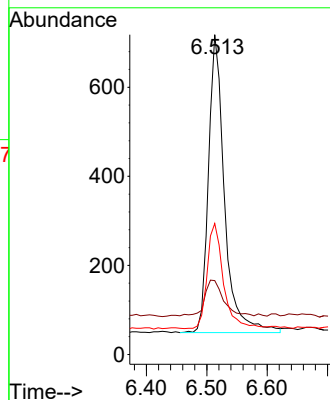
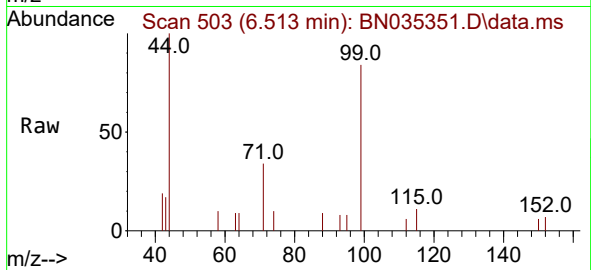




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

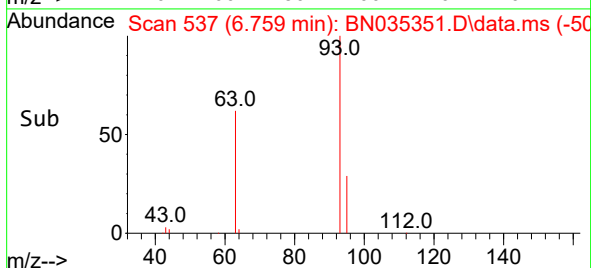
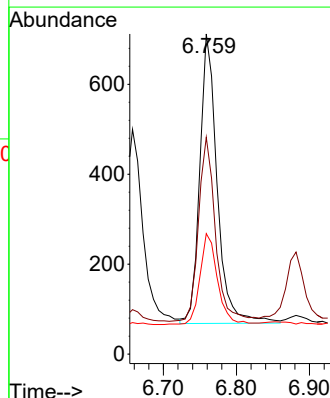
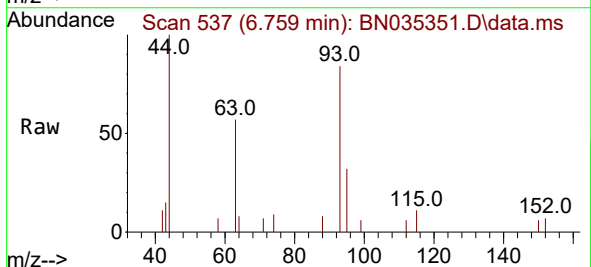
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

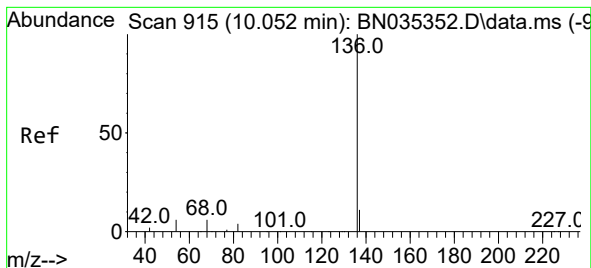
Tgt Ion:	99	Resp:	1236
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:	93	Resp:	1064
Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 91

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5334

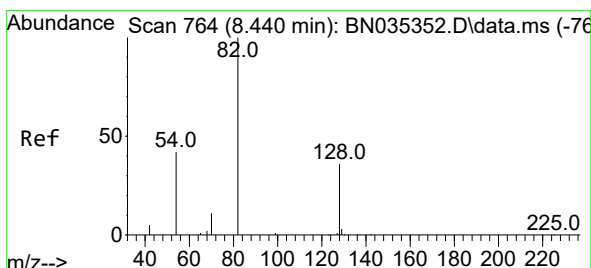
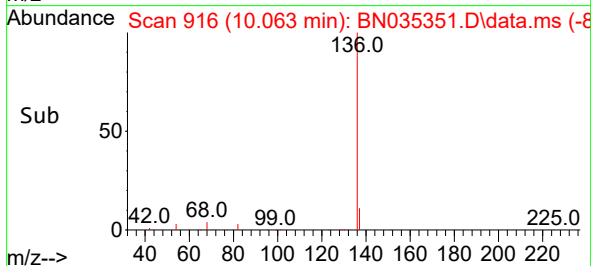
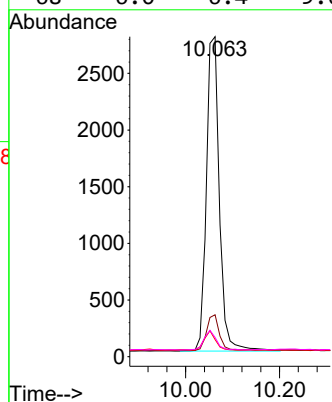
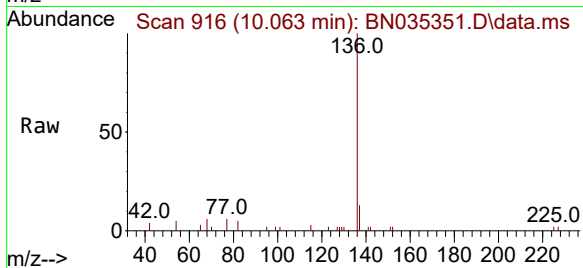
Ion Ratio Lower Upper

136 100

137 13.1 10.2 15.2

54 5.3 6.1 9.1#

68 6.0 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.174 ng

RT: 8.450 min Scan# 765

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

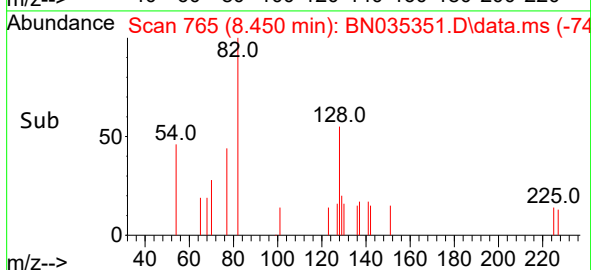
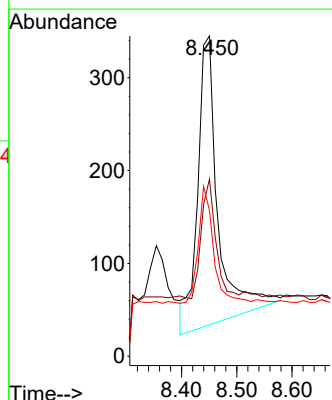
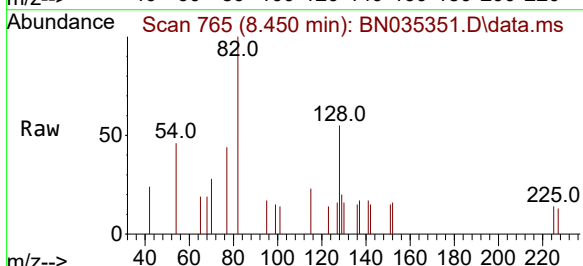
Tgt Ion: 82 Resp: 806

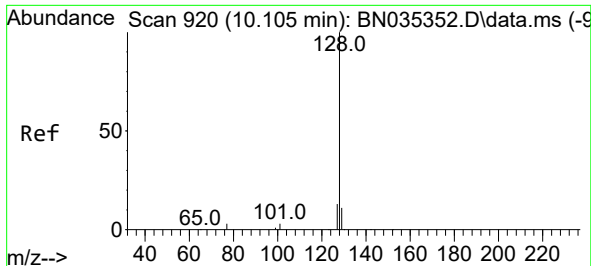
Ion Ratio Lower Upper

82 100

128 55.4 33.4 50.0#

54 45.5 36.7 55.1

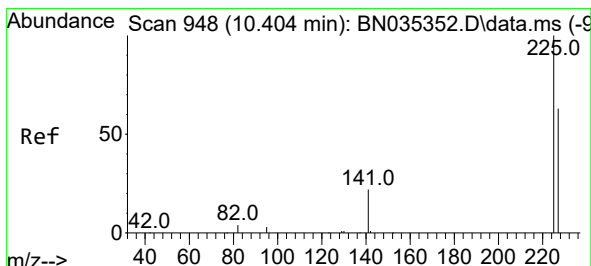
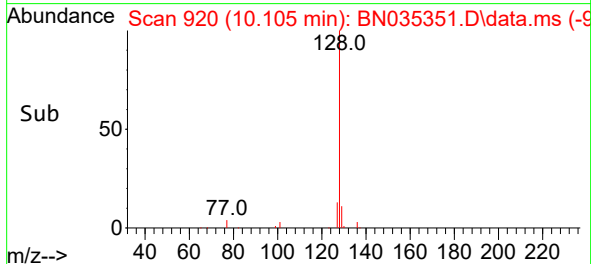
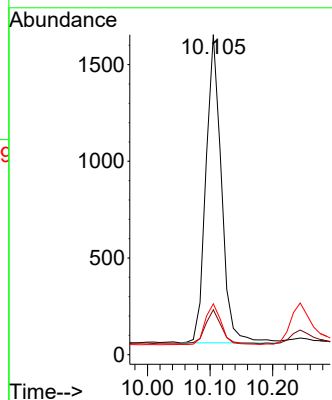
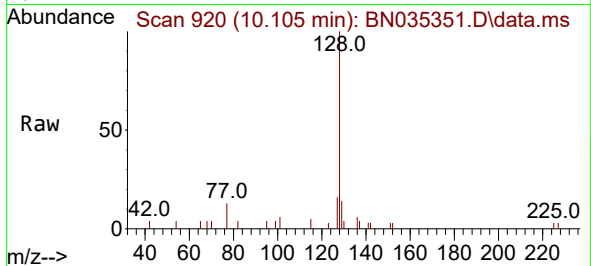




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

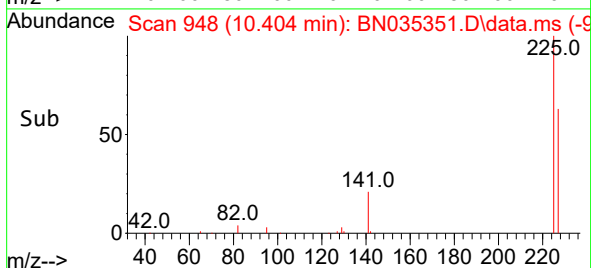
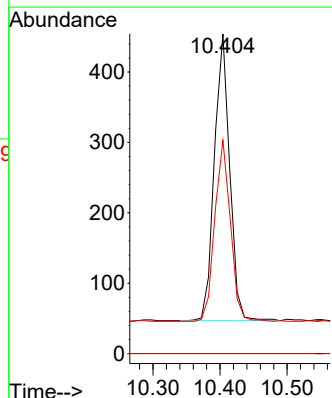
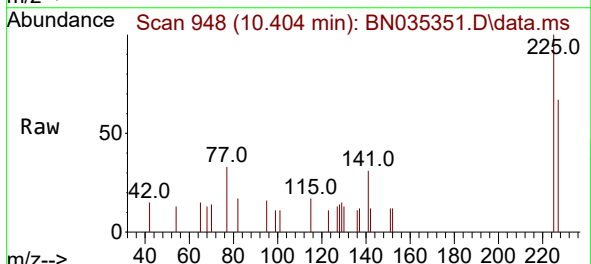
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

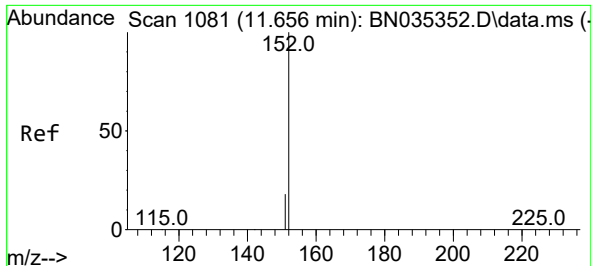
Tgt Ion:128 Resp: 2744
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.169 ng

RT: 11.661 min Scan# 1082

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

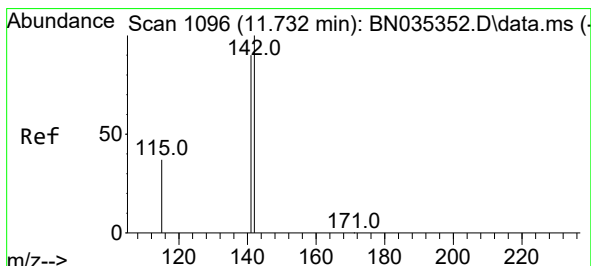
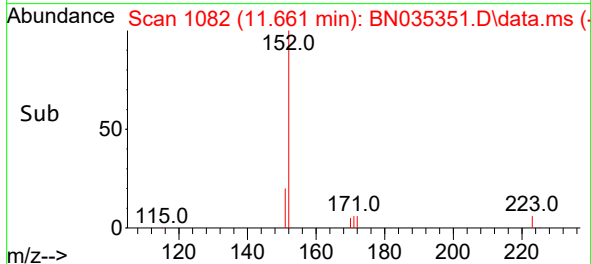
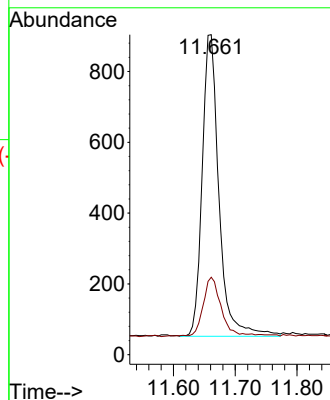
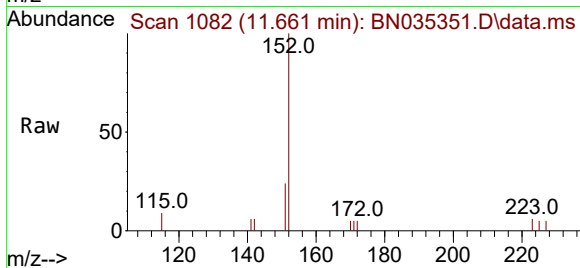
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion Ratio Lower Upper

152 100

151 22.3 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.186 ng

RT: 11.737 min Scan# 1097

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

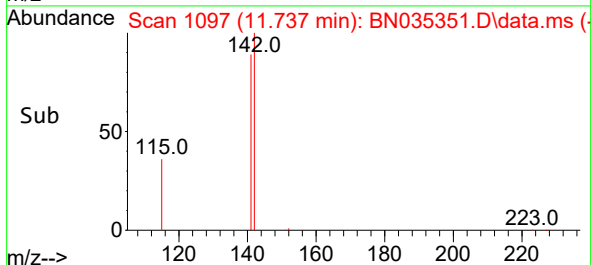
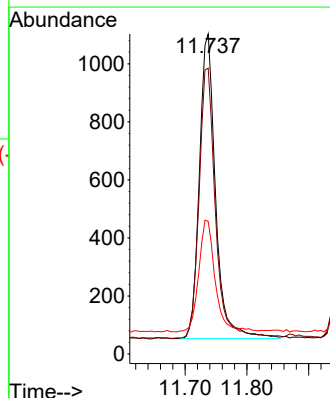
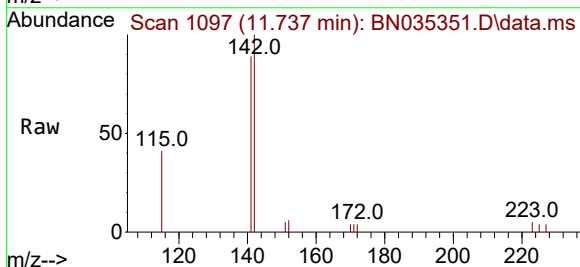
Tgt Ion:142 Resp: 1910

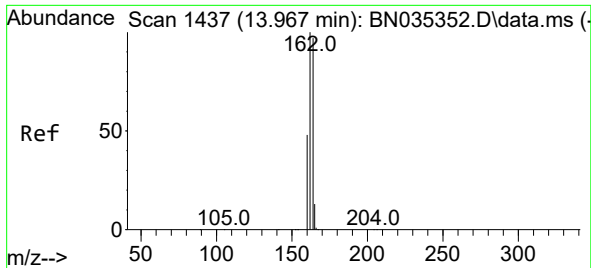
Ion Ratio Lower Upper

142 100

141 89.3 72.2 108.4

115 41.4 31.4 47.0

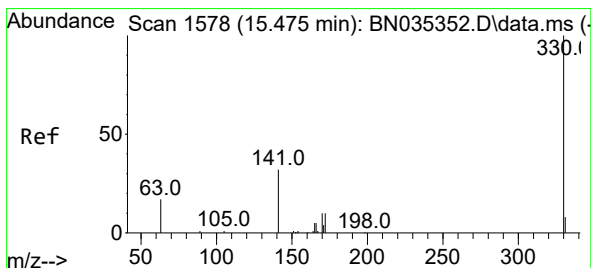
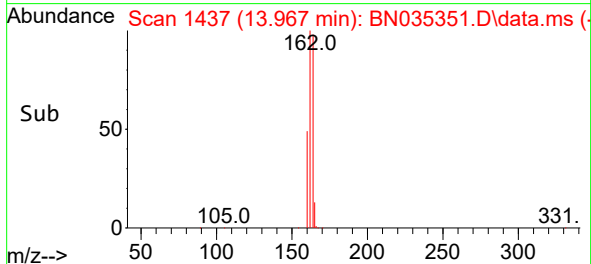
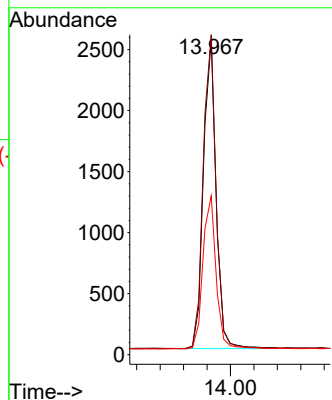
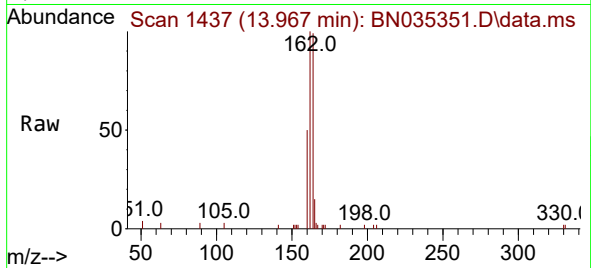




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

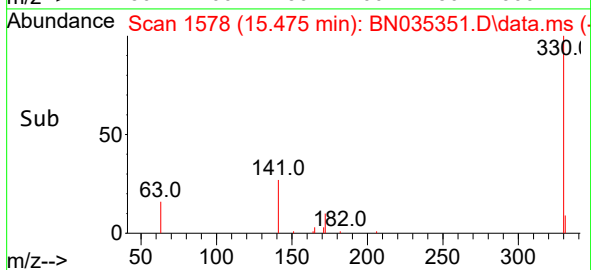
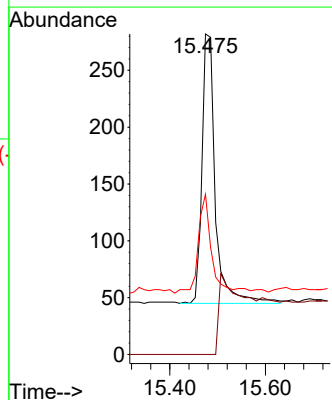
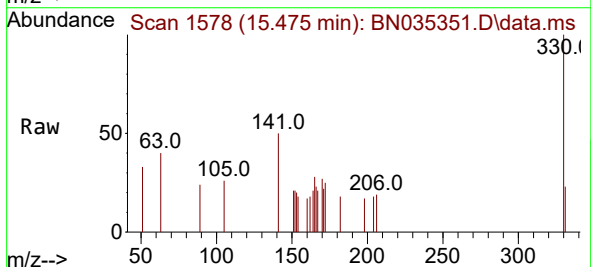
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

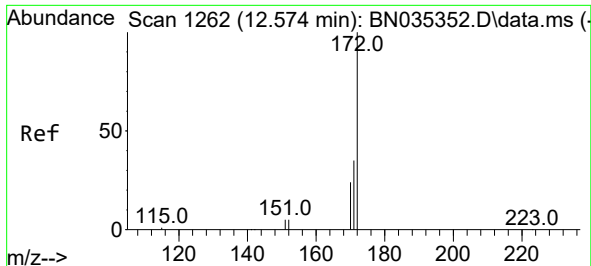
Tgt Ion:164 Resp: 3808
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.2 26.6 40.0

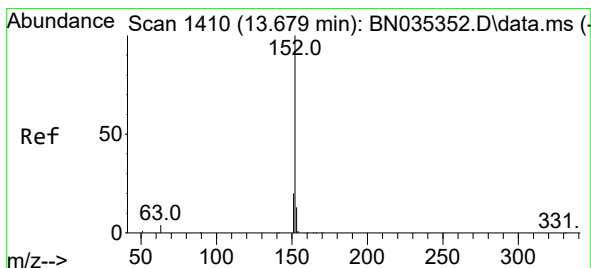
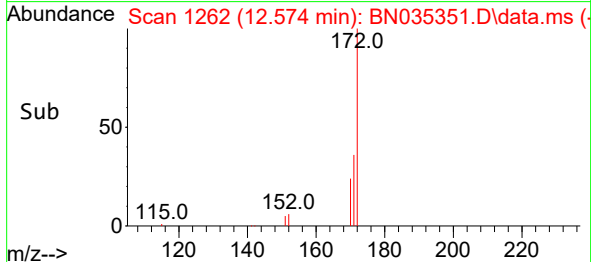
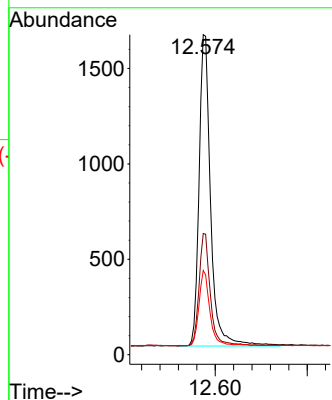
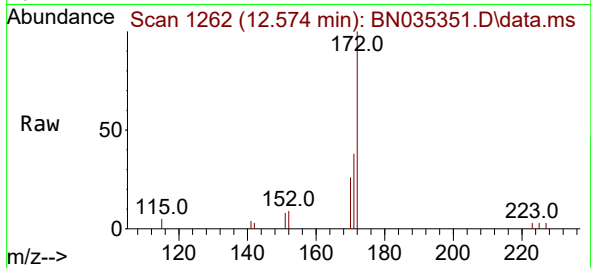




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

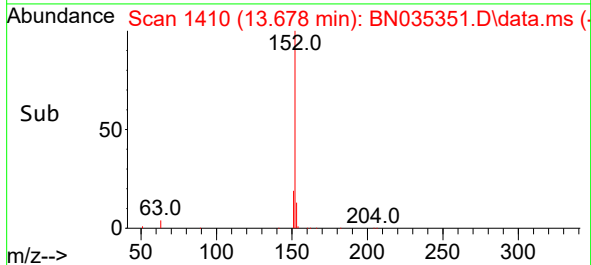
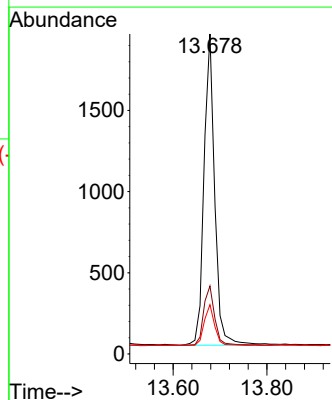
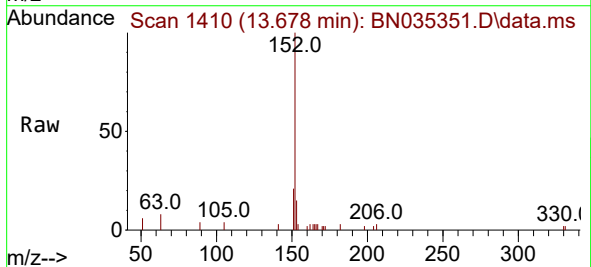
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

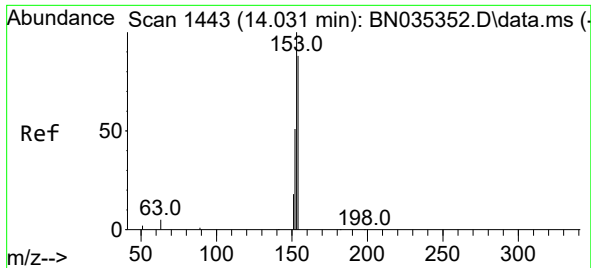
Tgt Ion:172 Resp: 2838
Ion Ratio Lower Upper
172 100
171 37.9 29.0 43.4
170 26.3 19.8 29.8



#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 12.9 10.4 15.6

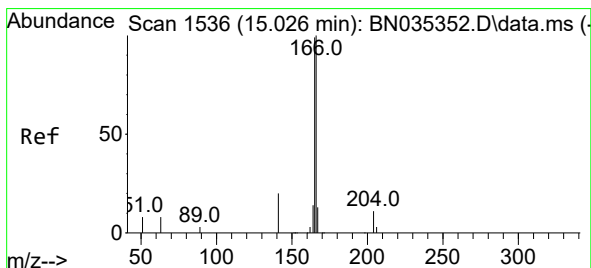
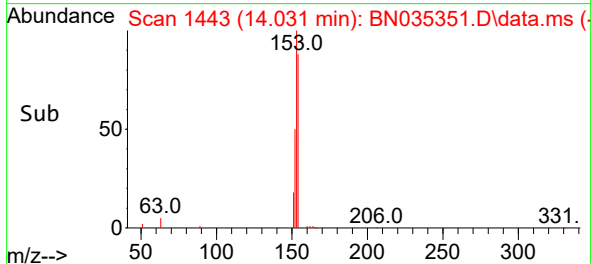
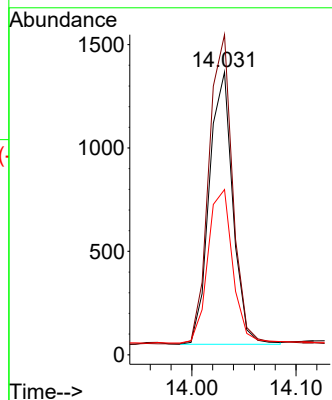
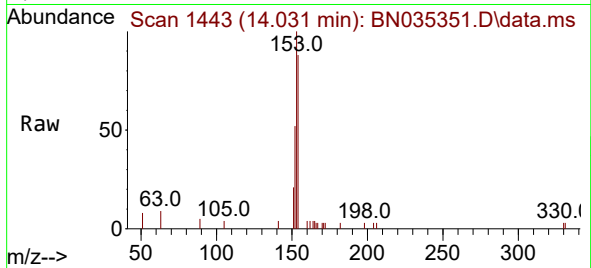




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

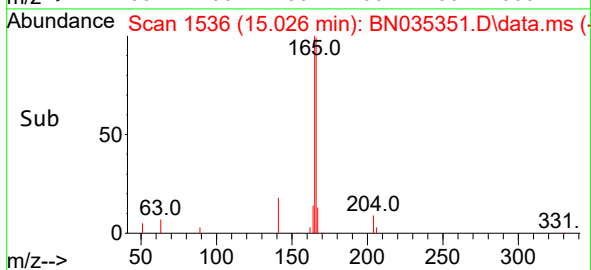
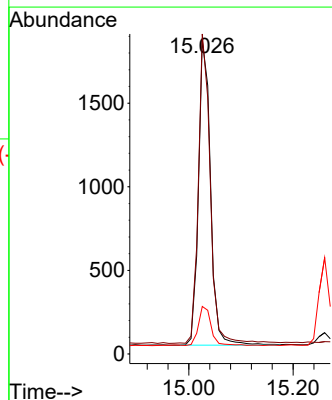
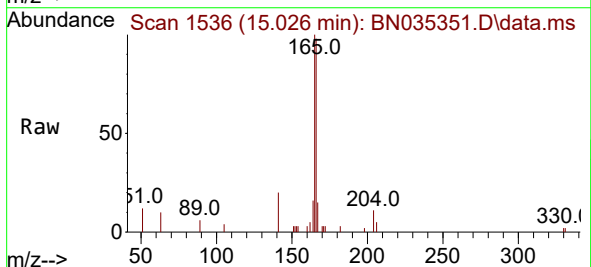
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

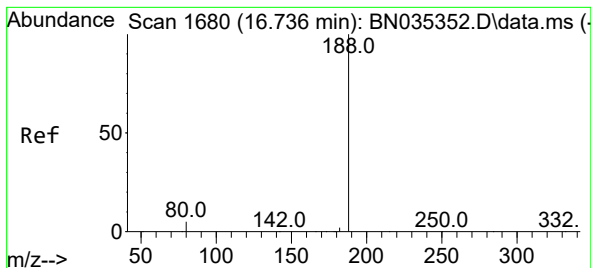
Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6



#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

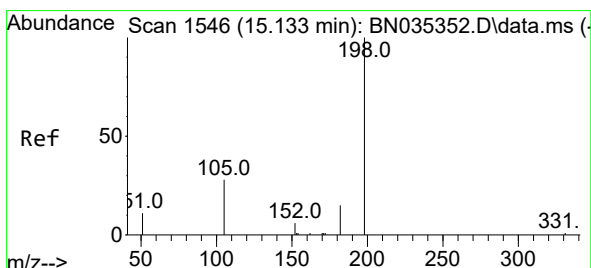
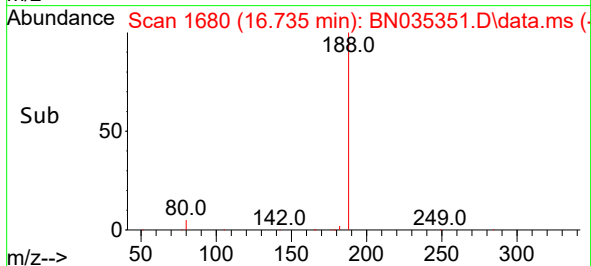
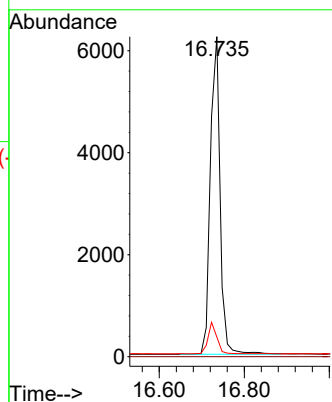
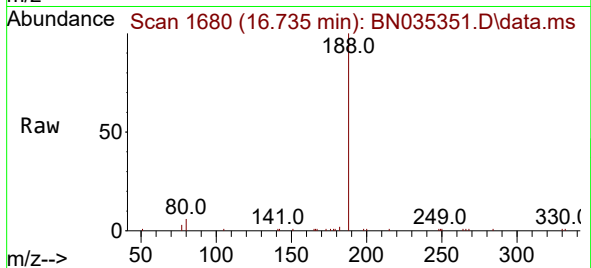
Tgt Ion:188 Resp: 9904

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.2 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

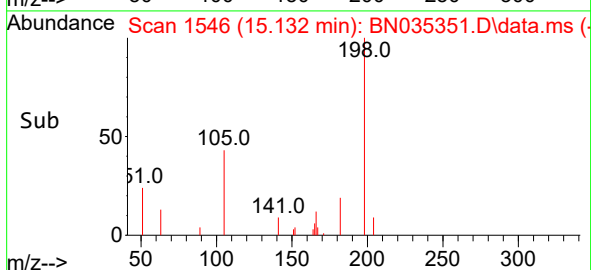
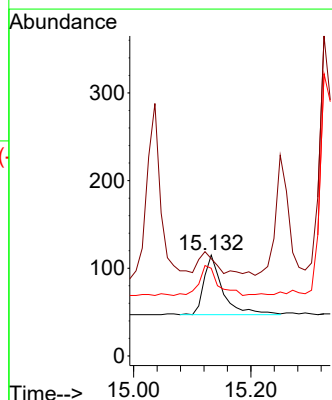
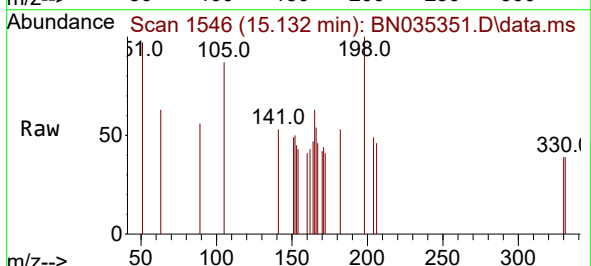
Tgt Ion:198 Resp: 153

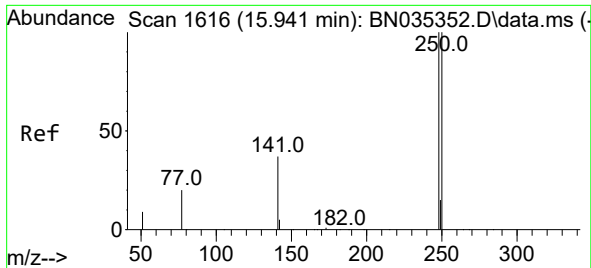
Ion Ratio Lower Upper

198 100

51 96.5 46.5 69.7#

105 87.0 45.3 67.9#

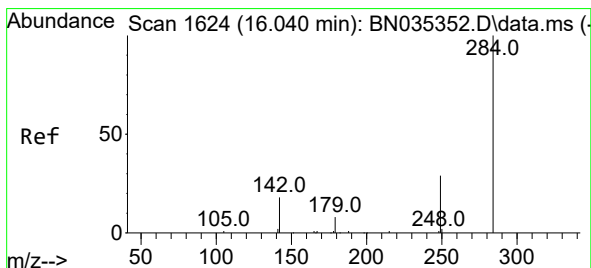
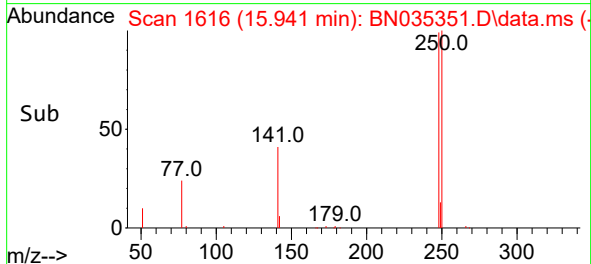
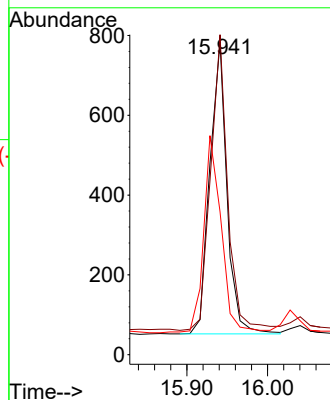
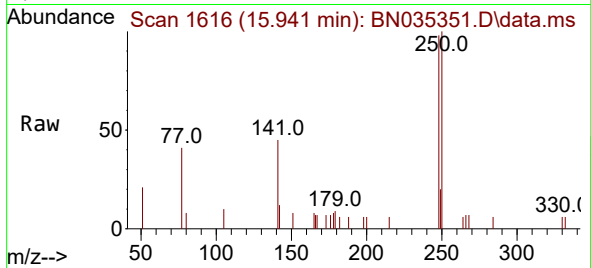




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

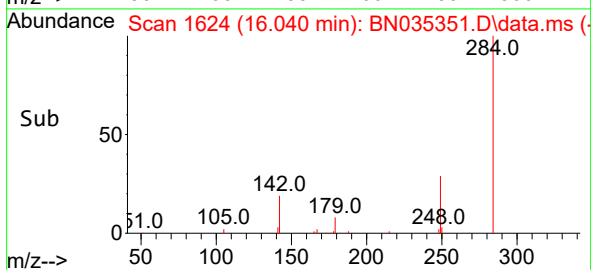
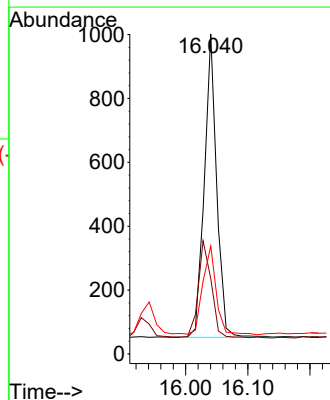
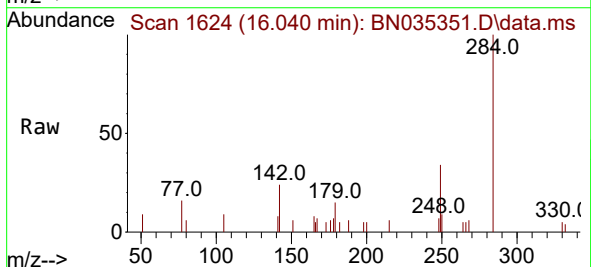
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

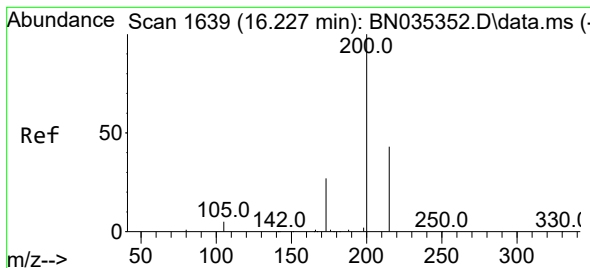
Tgt Ion:248 Resp: 1081
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3



#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





#23

Atrazine

Concen: 0.136 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

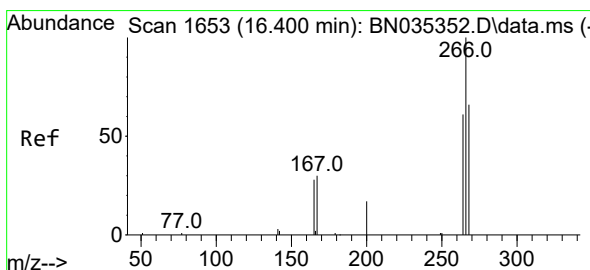
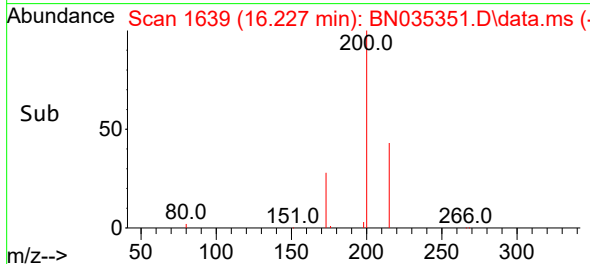
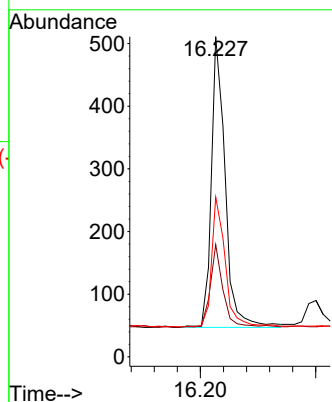
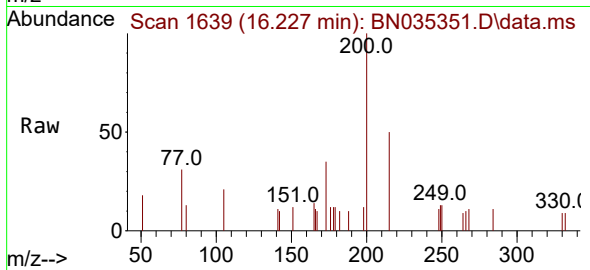
Tgt Ion:200 Resp: 770

Ion Ratio Lower Upper

200 100

173 35.0 24.1 36.1

215 49.9 36.9 55.3



#24

Pentachlorophenol

Concen: 0.145 ng

RT: 16.400 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

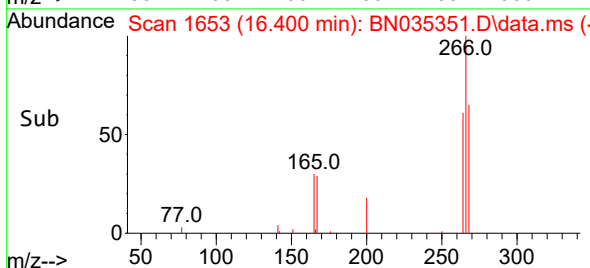
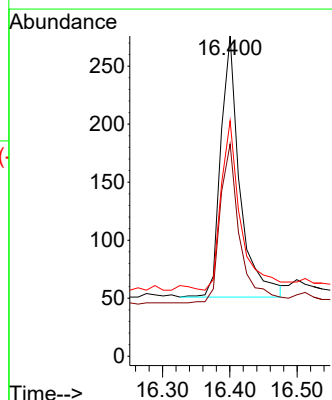
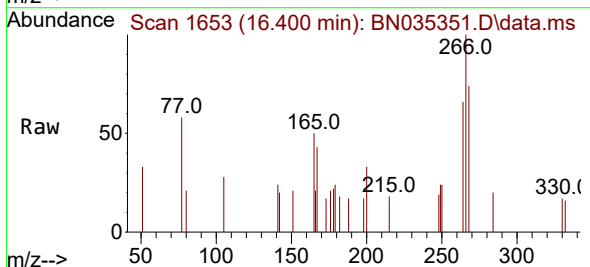
Tgt Ion:266 Resp: 445

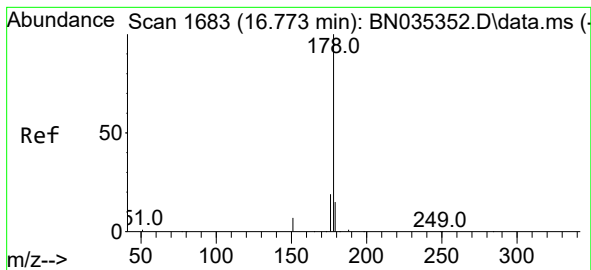
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 67.2 43.3 64.9#





#25

Phenanthrene

Concen: 0.199 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

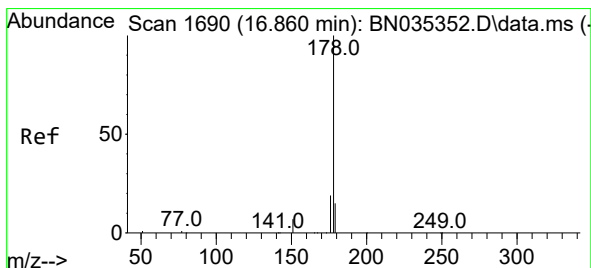
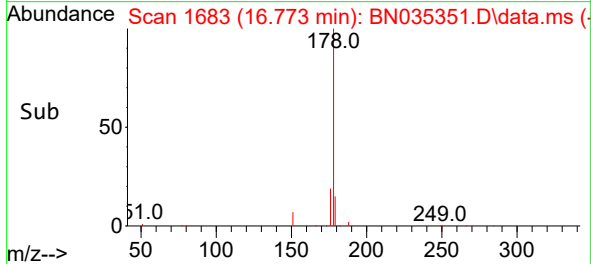
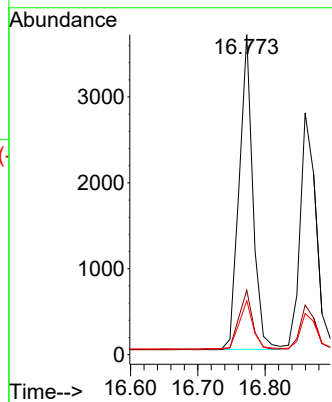
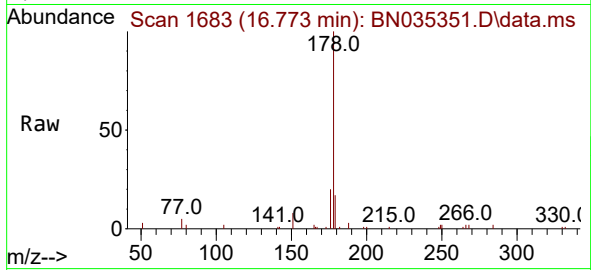
Tgt Ion:178 Resp: 5182

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.9 12.3 18.5



#26

Anthracene

Concen: 0.191 ng

RT: 16.860 min Scan# 1690

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

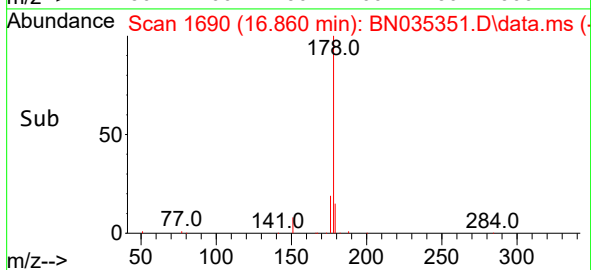
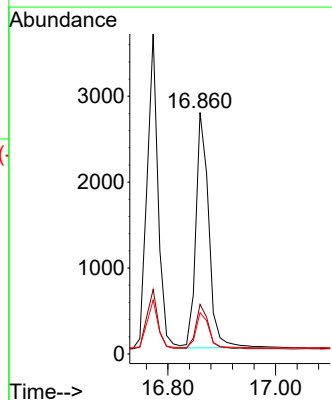
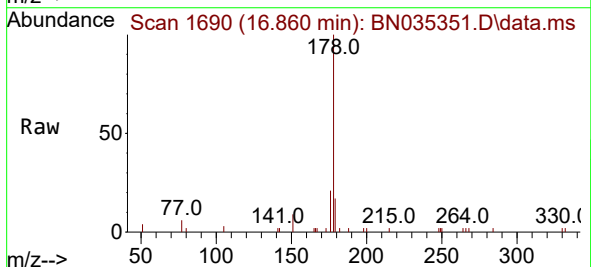
Tgt Ion:178 Resp: 4571

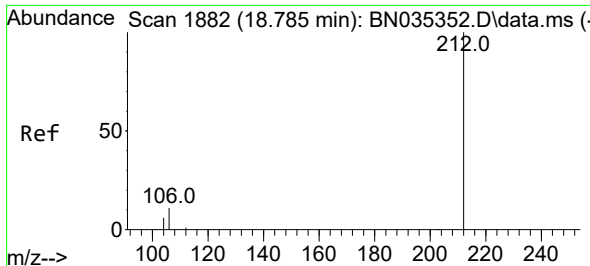
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.4 12.6 18.8

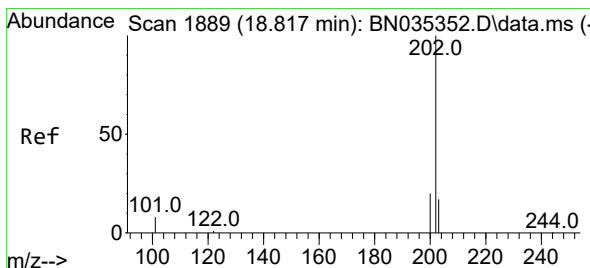
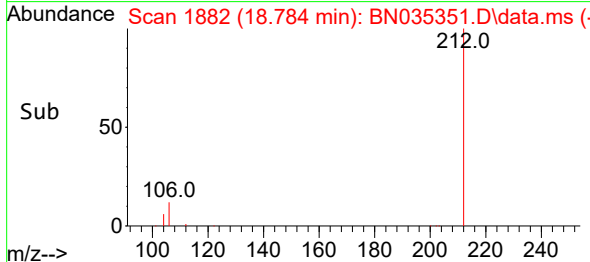
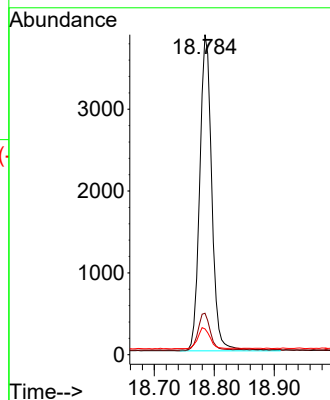
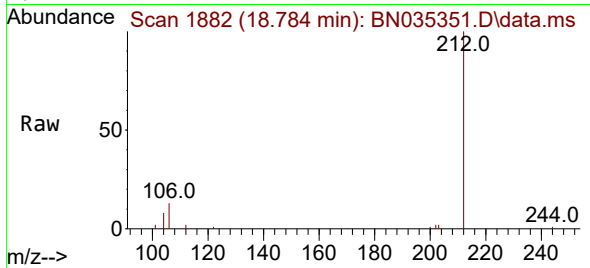




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

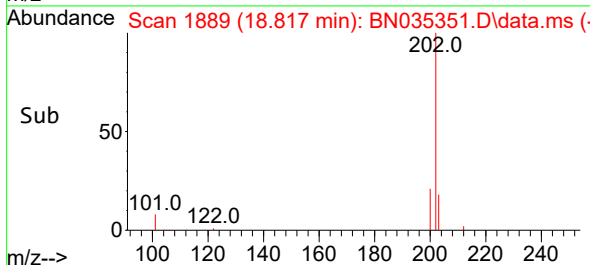
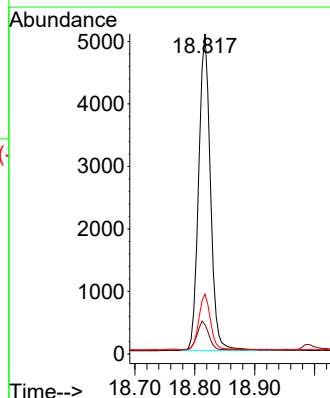
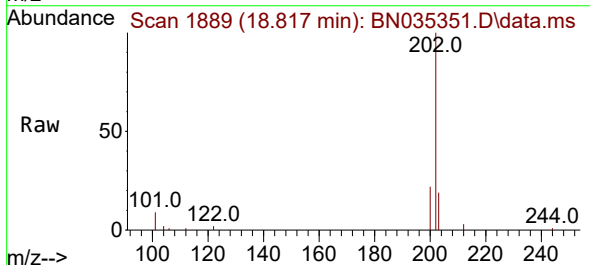
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

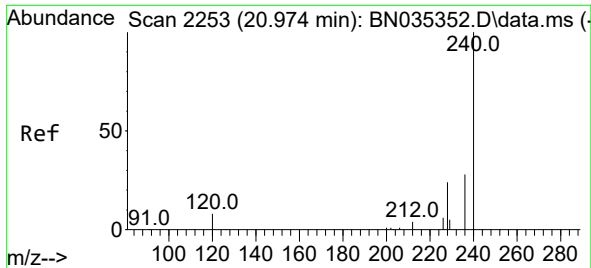
Tgt Ion:212 Resp: 5379
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.9 5.3 7.9



#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 17.3 13.7 20.5

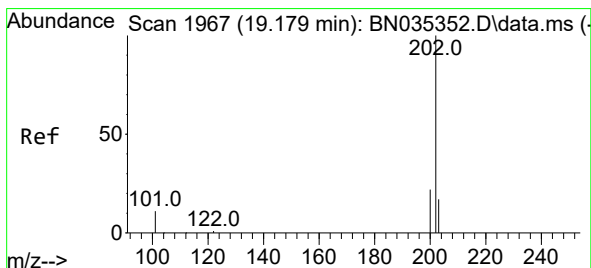
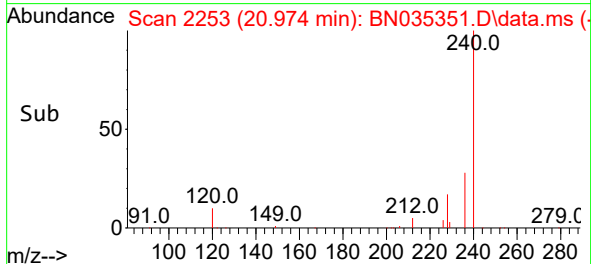
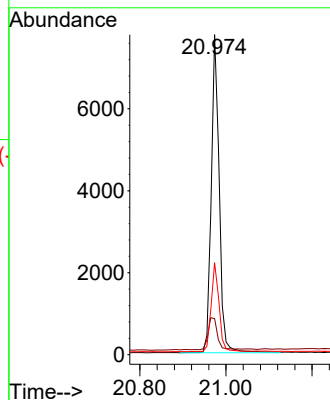
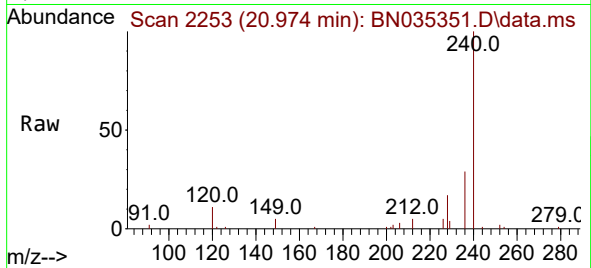




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

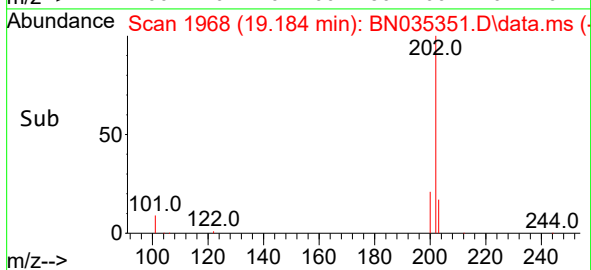
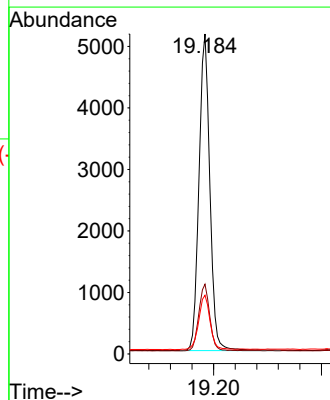
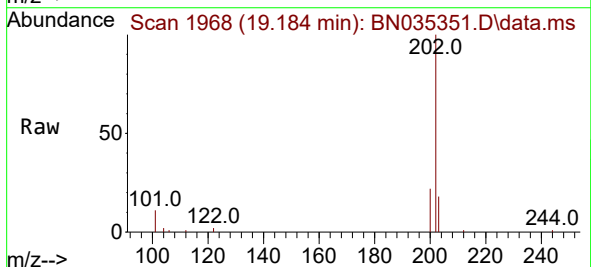
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

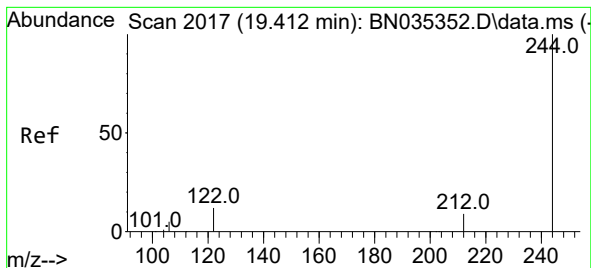
Tgt Ion:240 Resp: 9963
Ion Ratio Lower Upper
240 100
120 11.3 7.9 11.9
236 28.8 22.9 34.3



#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.185 ng

RT: 19.416 min Scan# 2017

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

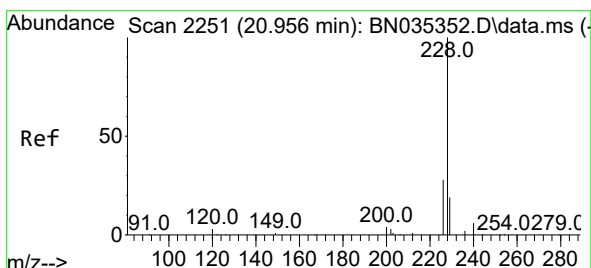
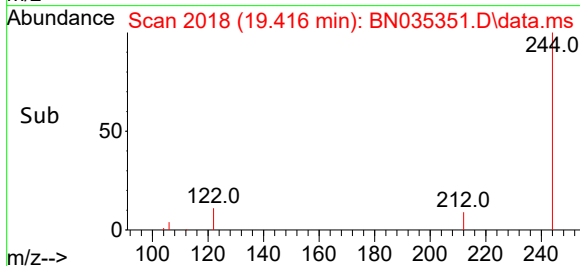
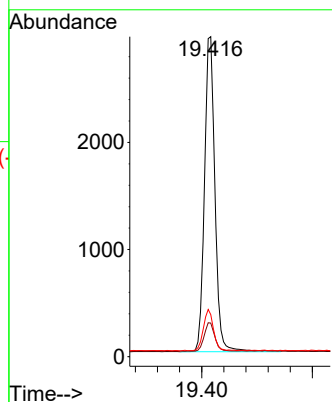
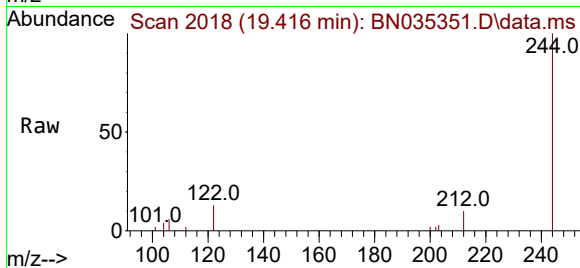
Tgt Ion:244 Resp: 3871

Ion Ratio Lower Upper

244 100

212 10.5 8.1 12.1

122 13.1 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.193 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

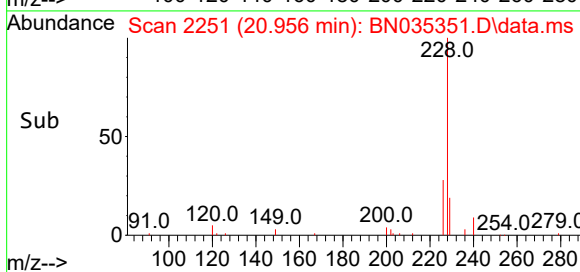
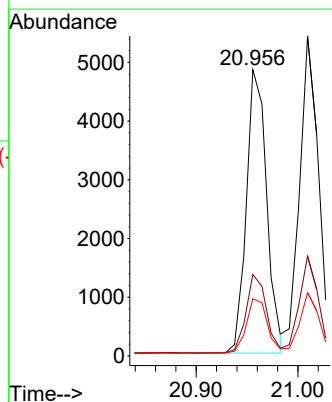
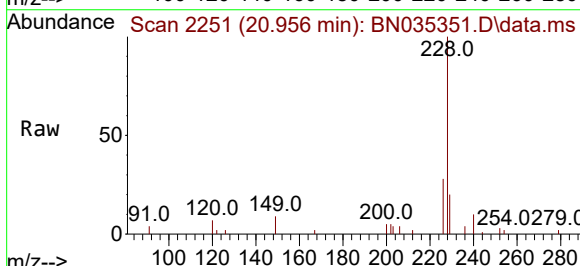
Tgt Ion:228 Resp: 6691

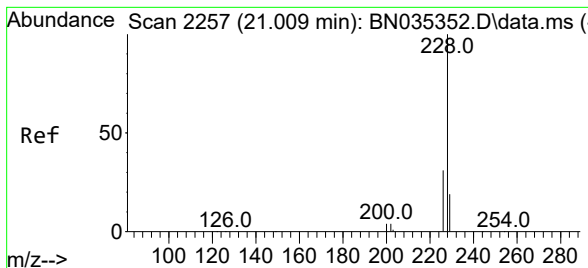
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

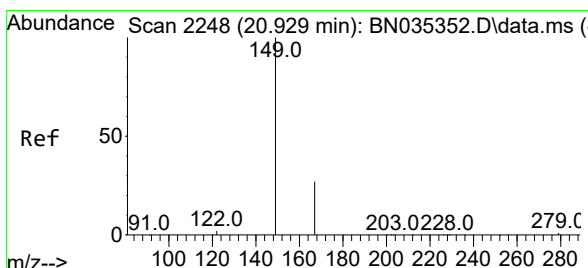
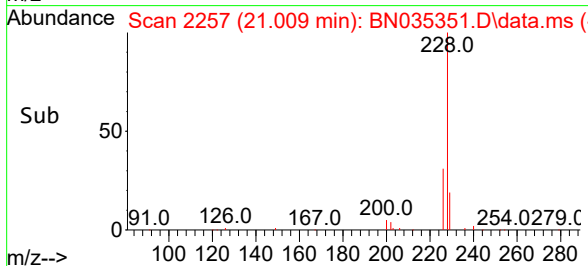
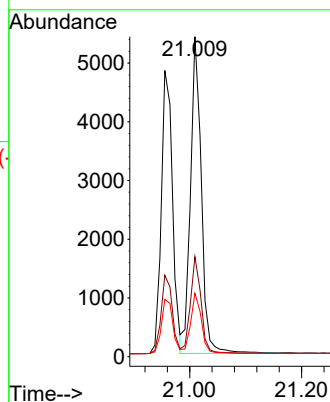
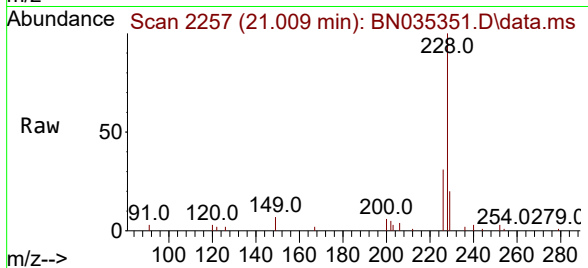
Tgt Ion:228 Resp: 7234

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

RT: 20.938 min Scan# 2249

Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

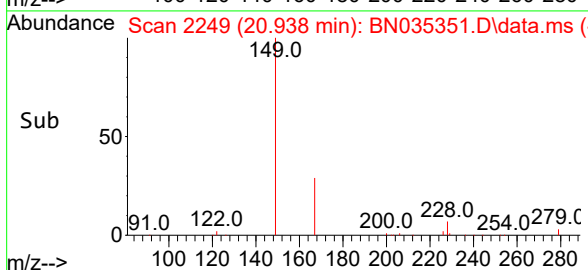
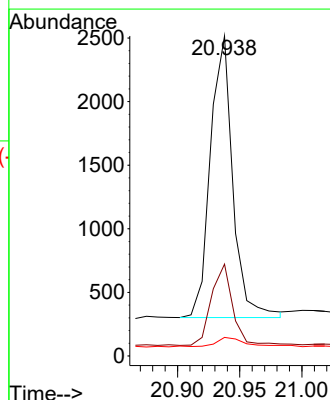
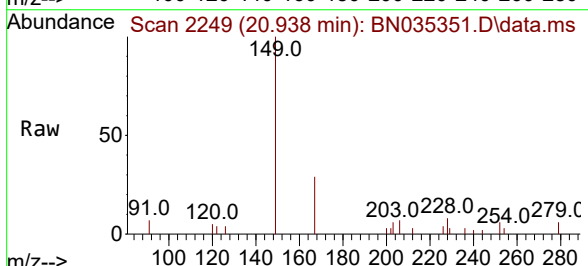
Tgt Ion:149 Resp: 2779

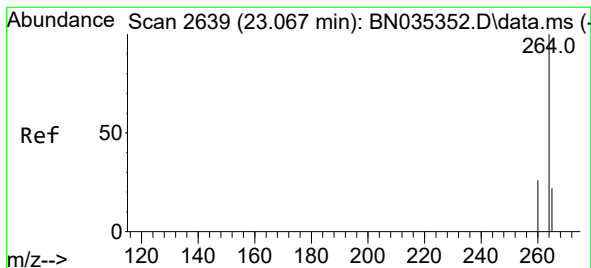
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 4.8 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.070 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

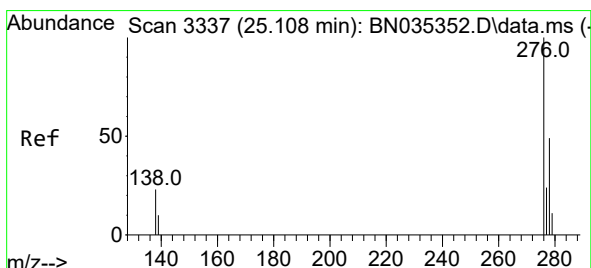
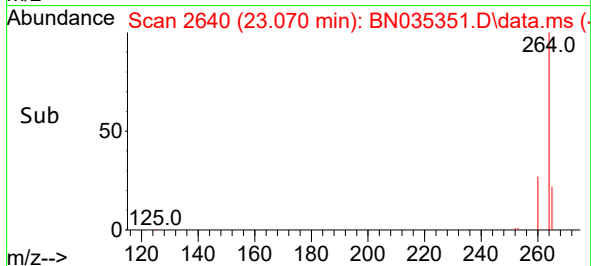
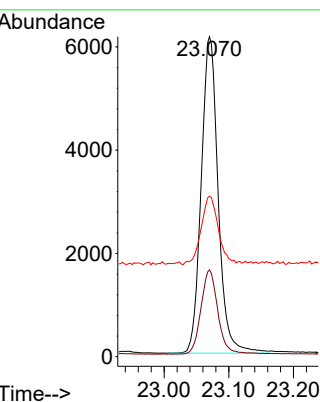
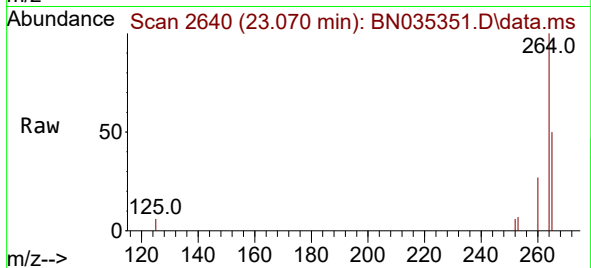
Tgt Ion:264 Resp: 11158

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.2 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.187 ng

RT: 25.108 min Scan# 3337

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

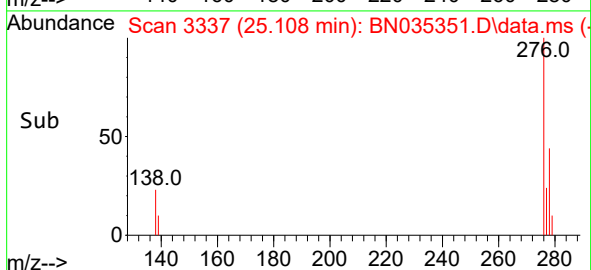
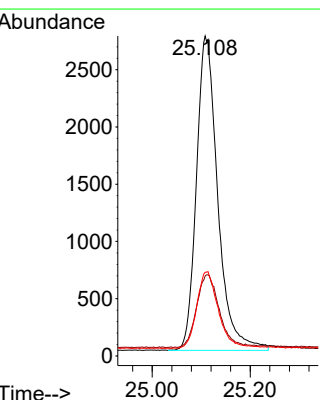
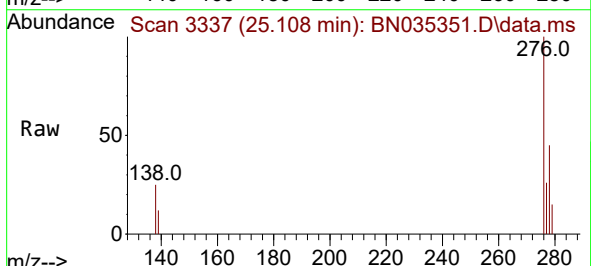
Tgt Ion:276 Resp: 8305

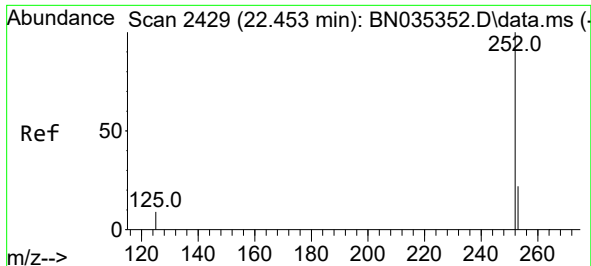
Ion Ratio Lower Upper

276 100

138 24.3 19.4 29.0

277 24.7 19.8 29.6

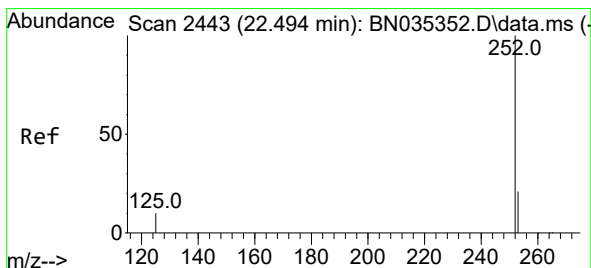
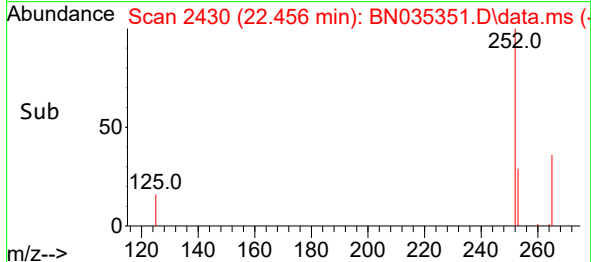
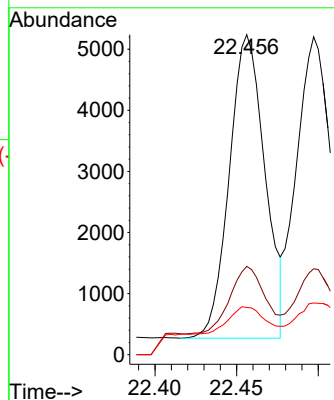
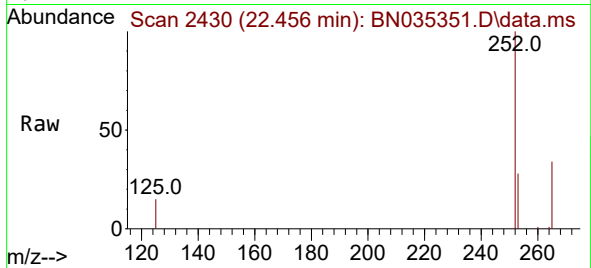




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

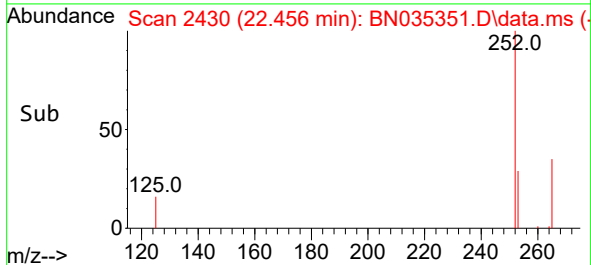
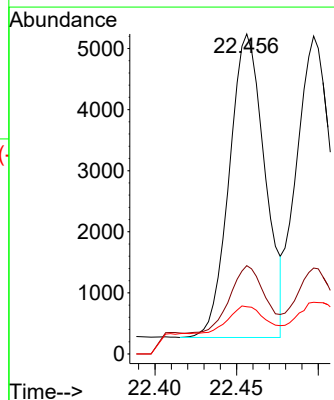
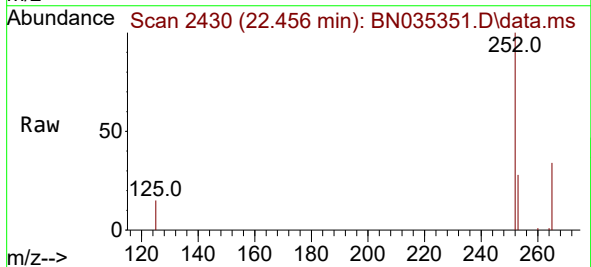
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

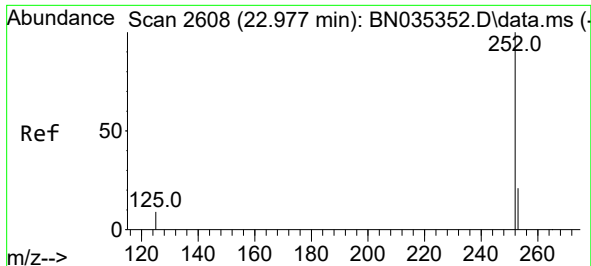
Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.6 29.4
125 14.8 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.5 29.3
125 14.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

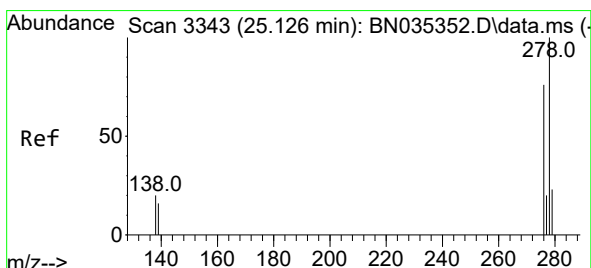
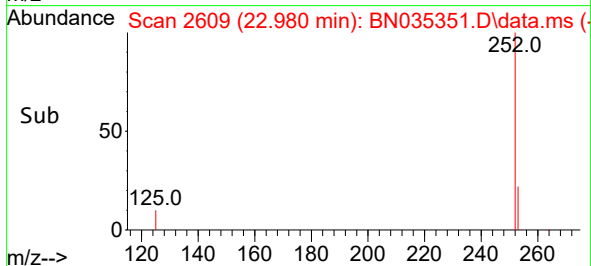
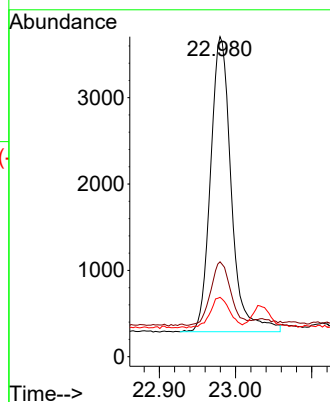
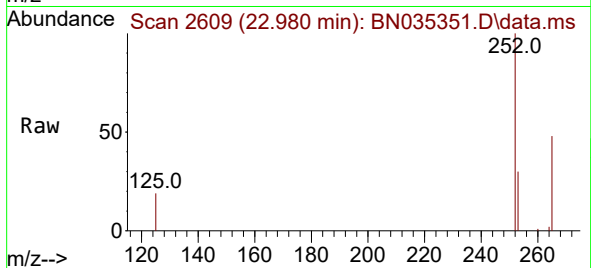
Tgt Ion:252 Resp: 6450

Ion Ratio Lower Upper

252 100

253 29.7 20.2 30.4

125 18.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

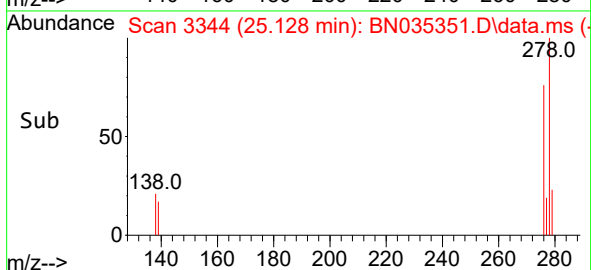
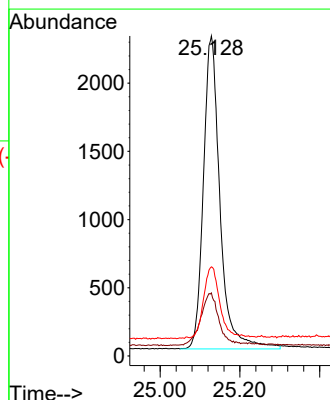
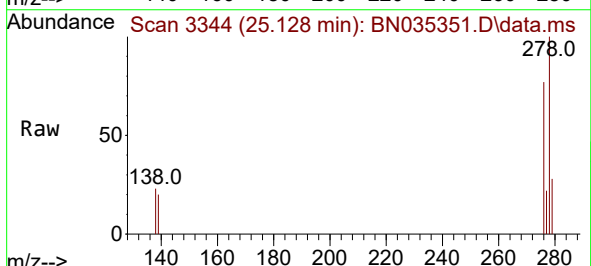
Tgt Ion:278 Resp: 6620

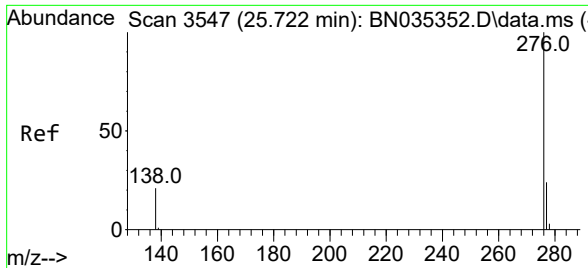
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

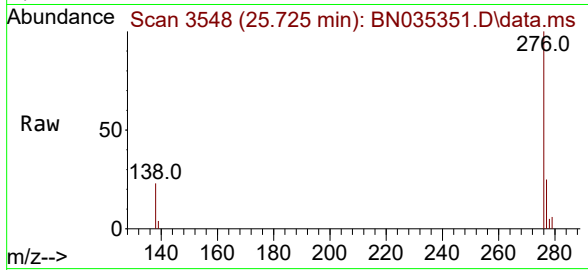
279 27.9 20.5 30.7





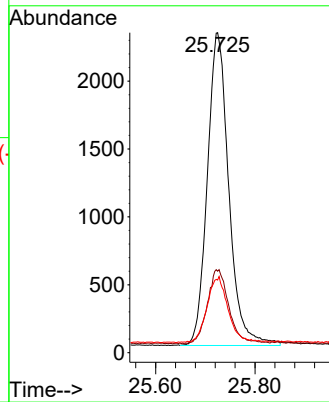
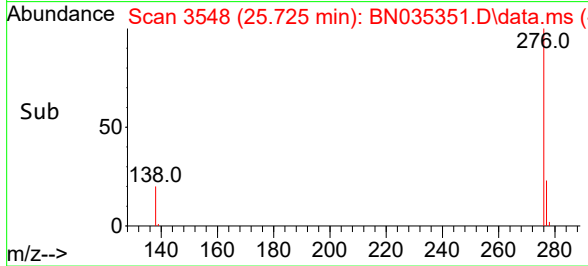
#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035352.D
 Acq On : 27 Nov 2024 16:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

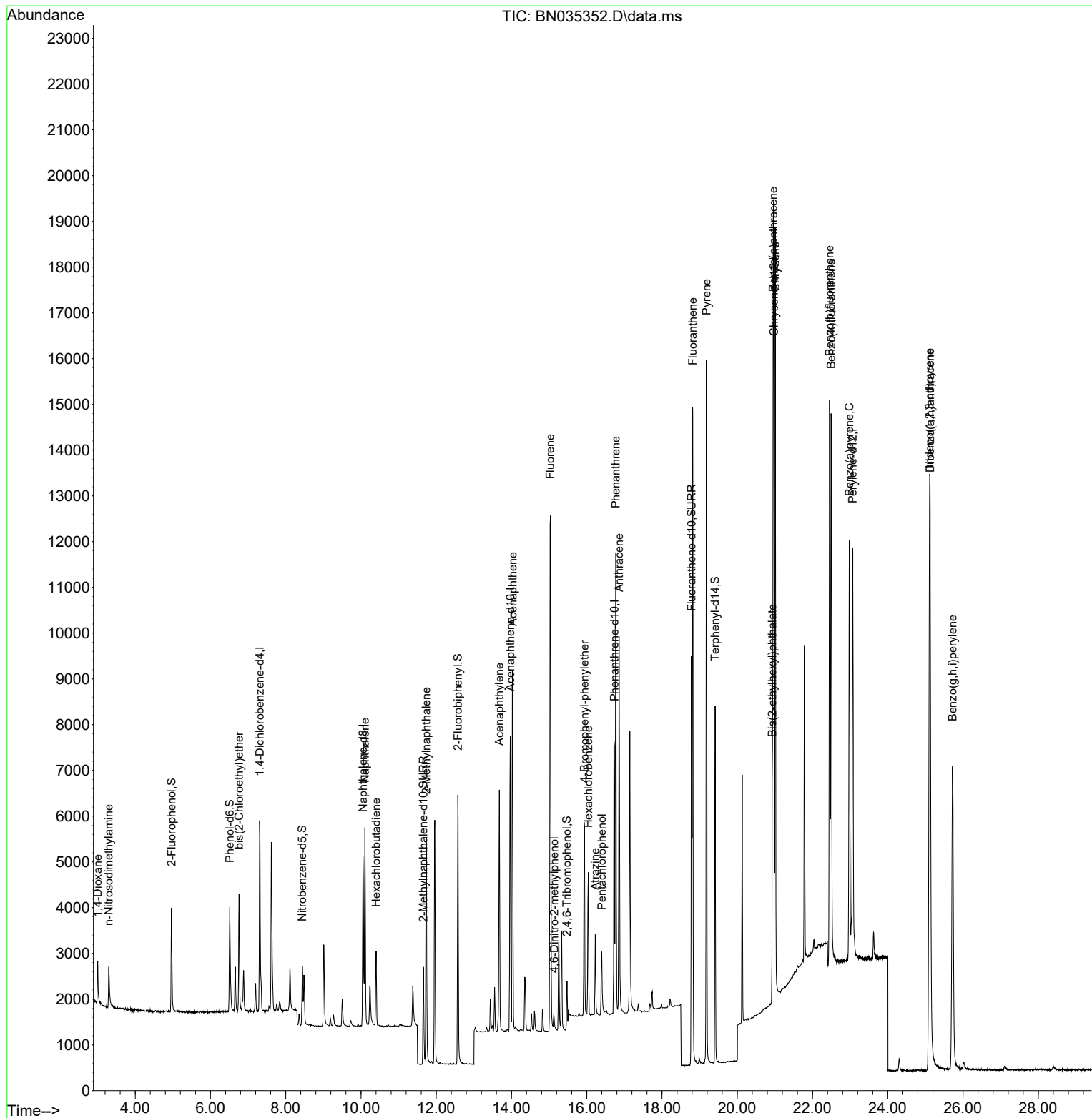
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng	0.00
35) Perylene-d12	23.067	264	10842	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2085	0.401	ng	0.00
5) Phenol-d6	6.513	99	2444	0.375	ng	0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng	0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng	0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng	100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng	100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng	100
9) Naphthalene	10.105	128	5475	0.401	ng	100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng	100
16) Acenaphthylene	13.679	152	6058	0.373	ng	100
17) Acenaphthene	14.031	154	4125	0.388	ng	100
18) Fluorene	15.026	166	5863	0.375	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng	100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng	100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng	100
23) Atrazine	16.227	200	1461	0.269	ng	100
24) Pentachlorophenol	16.400	266	906	0.309	ng	87
25) Phenanthrene	16.773	178	10127	0.405	ng	100
26) Anthracene	16.860	178	8921	0.389	ng	100
28) Fluoranthene	18.817	202	13438	0.391	ng	100
30) Pyrene	19.179	202	14053	0.443	ng	100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng	100
33) Chrysene	21.009	228	13729	0.418	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng	100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng	100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng	100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng	100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng	100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng	100

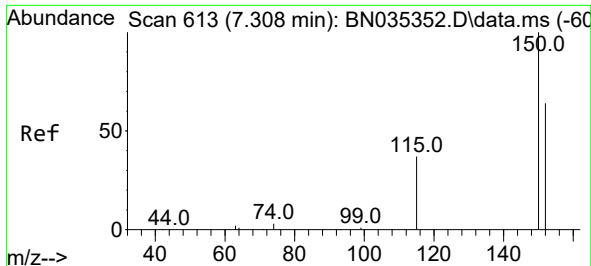
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

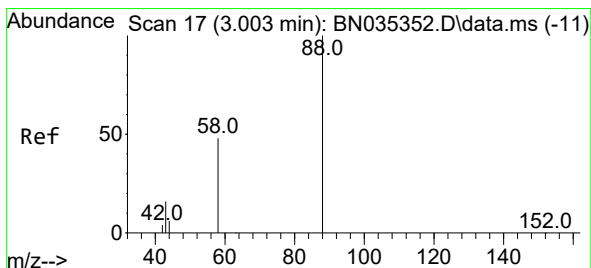
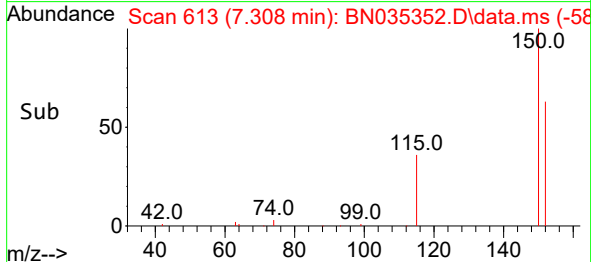
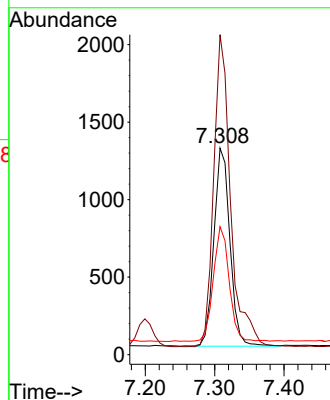
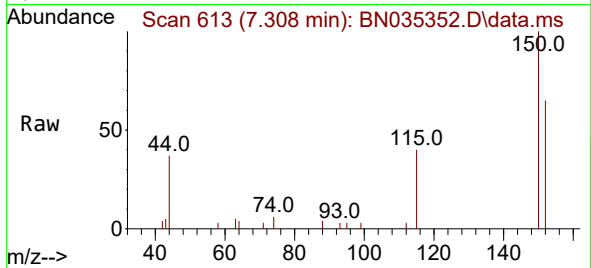




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

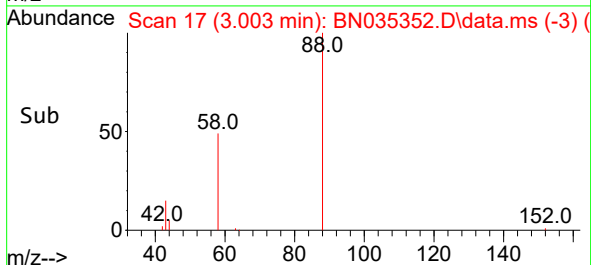
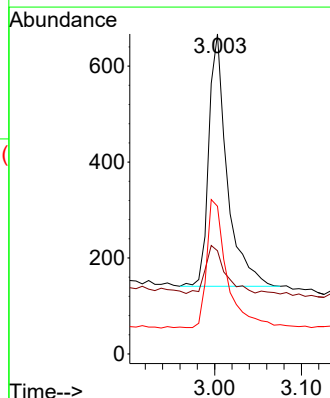
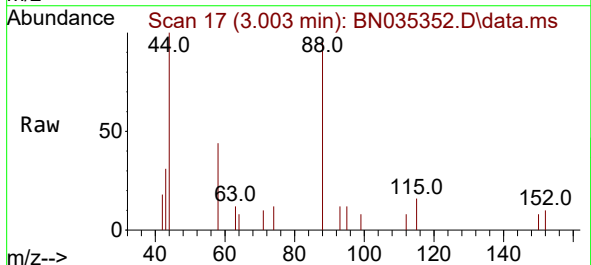
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

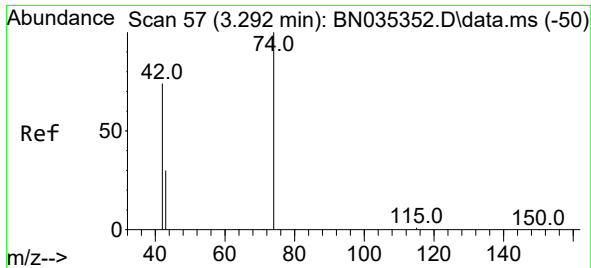
Tgt Ion:152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4



#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 55.6 44.5 66.7

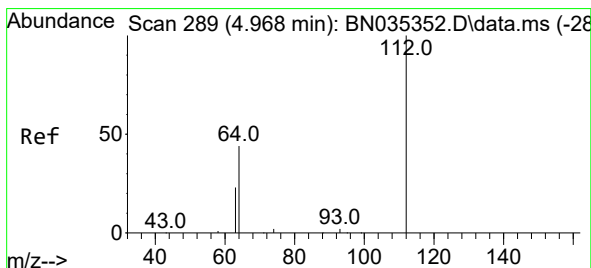
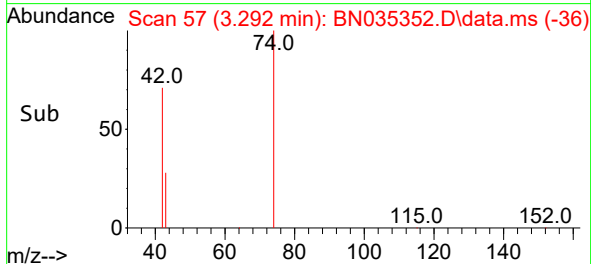
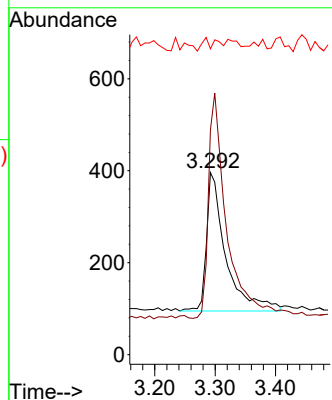
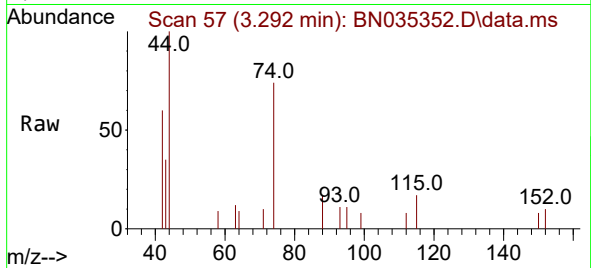




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

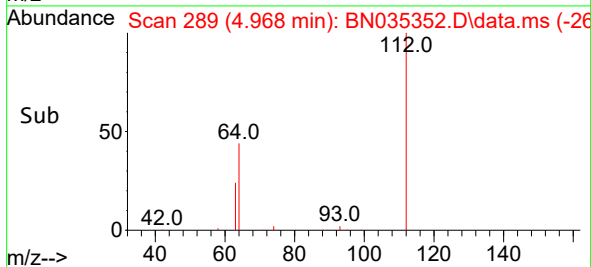
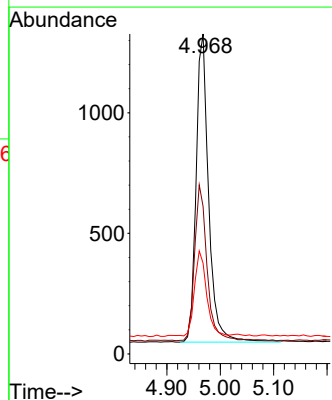
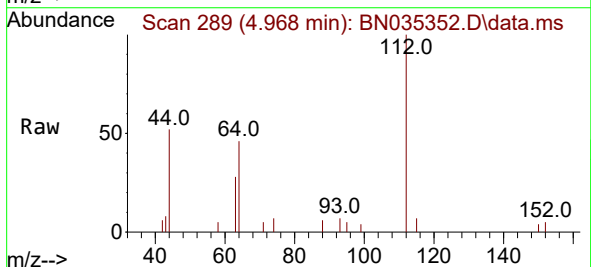
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

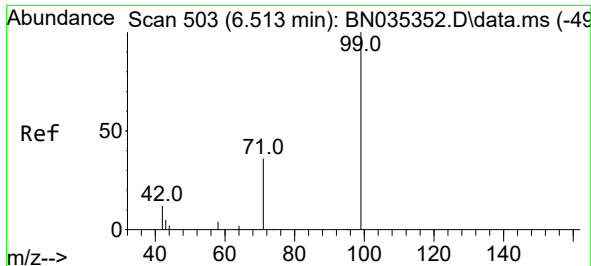
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 112 Resp: 2085
Ion Ratio Lower Upper
112 100
64 49.8 39.8 59.8
63 26.3 21.0 31.6

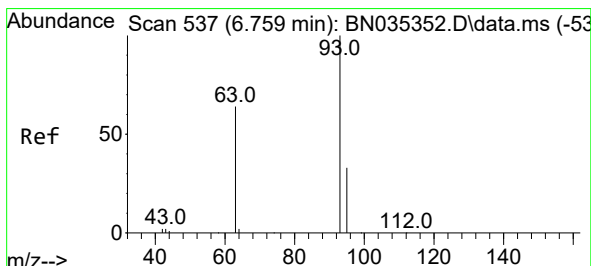
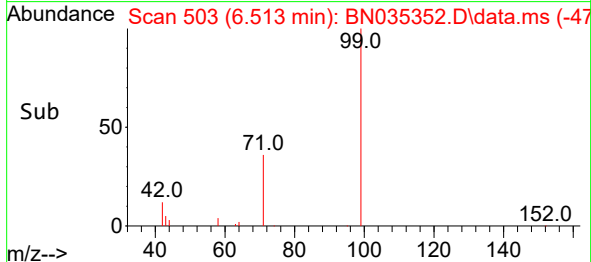
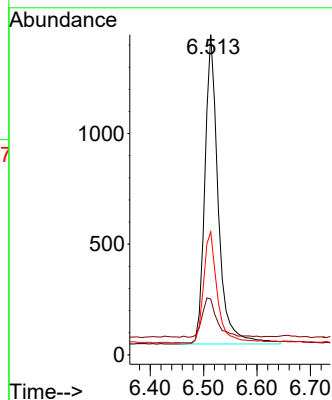
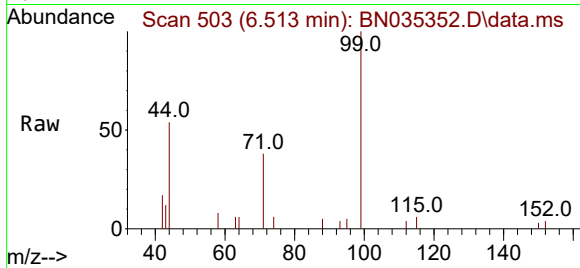




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

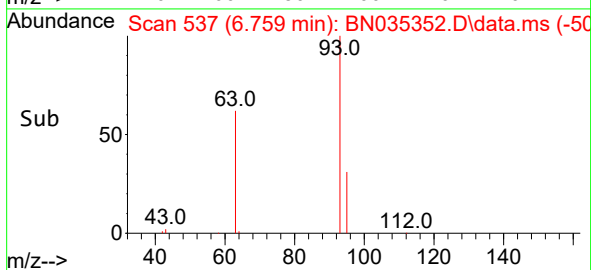
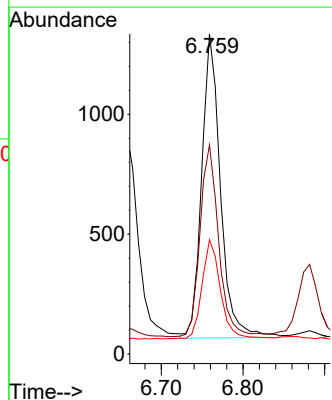
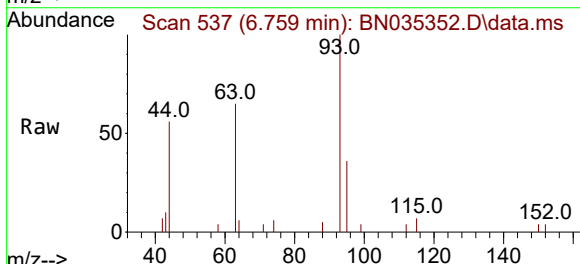
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

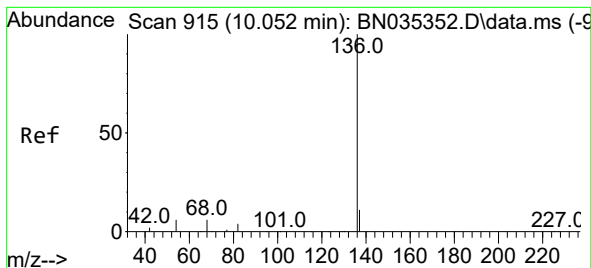
Tgt Ion:	99	Resp:	2444
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:	93	Resp:	2032
Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 915

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:136 Resp: 5229

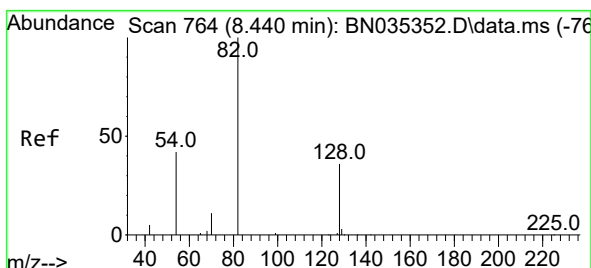
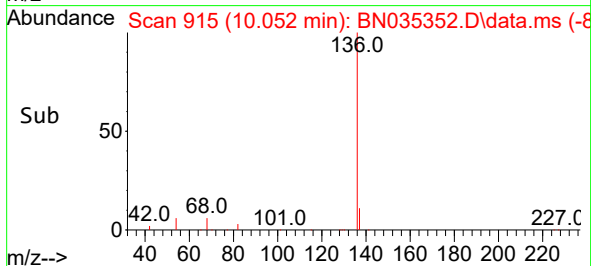
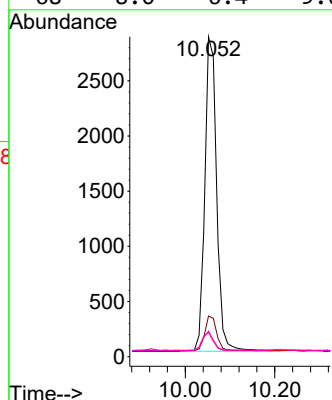
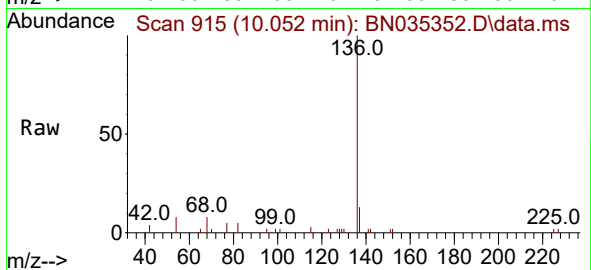
Ion Ratio Lower Upper

136 100

137 12.7 10.2 15.2

54 7.6 6.1 9.1

68 8.0 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.301 ng

RT: 8.440 min Scan# 764

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

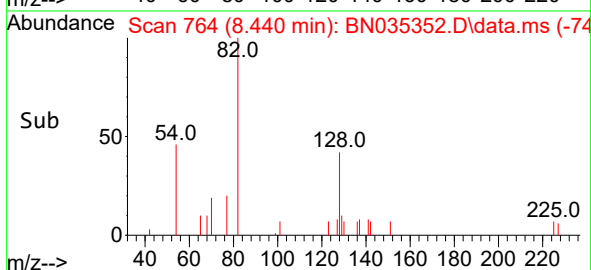
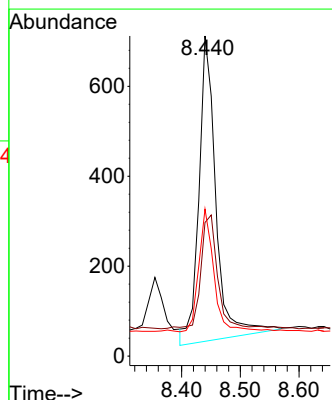
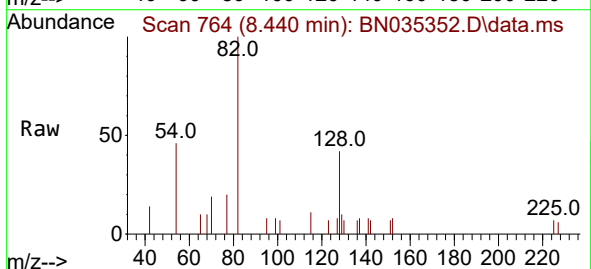
Tgt Ion: 82 Resp: 1371

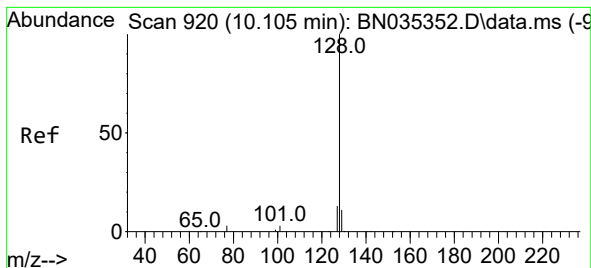
Ion Ratio Lower Upper

82 100

128 41.7 33.4 50.0

54 45.9 36.7 55.1





#9

Naphthalene

Concen: 0.401 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

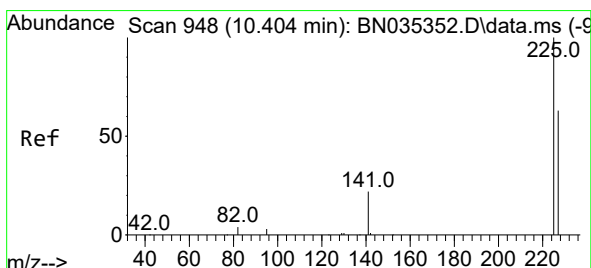
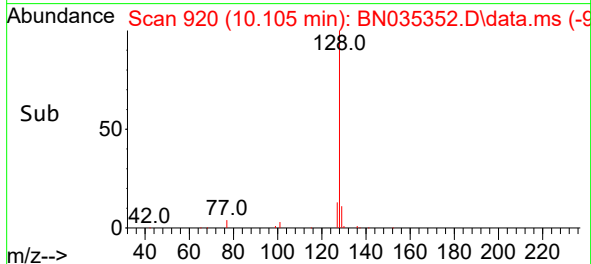
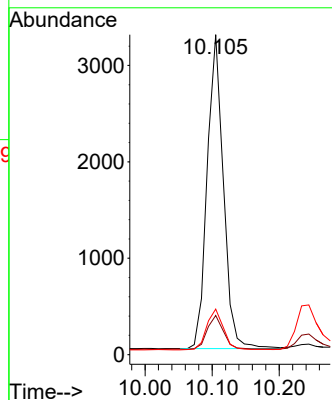
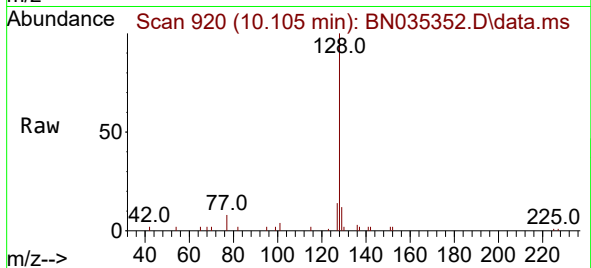
Tgt Ion:128 Resp: 5475

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.323 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

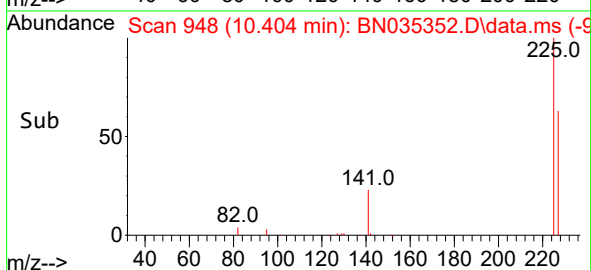
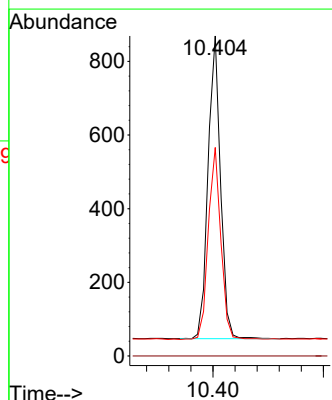
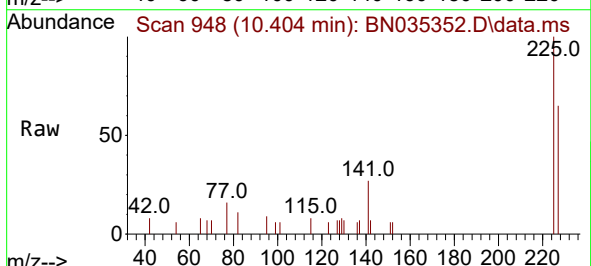
Tgt Ion:225 Resp: 1292

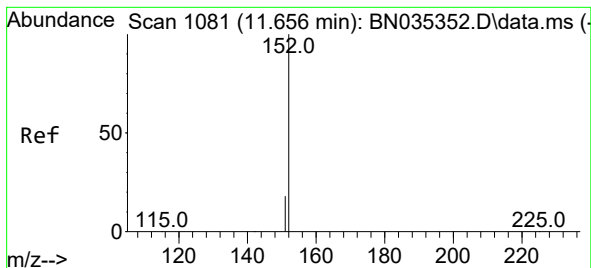
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

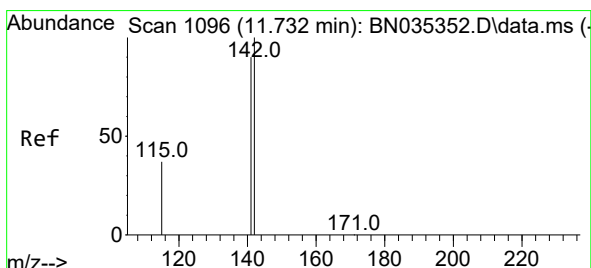
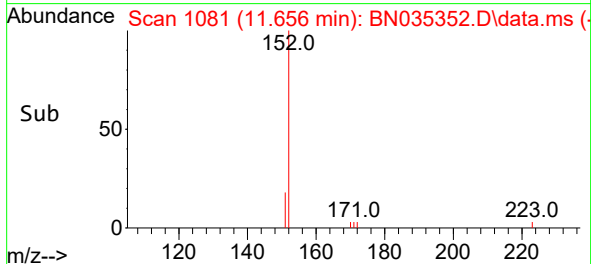
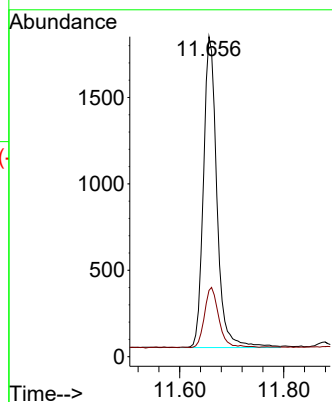
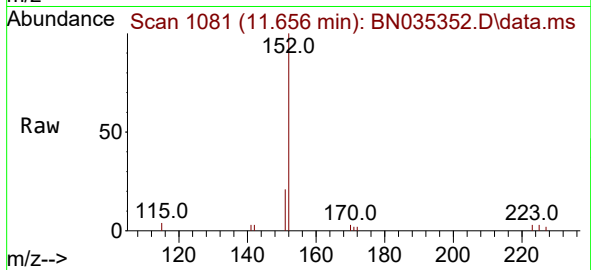




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

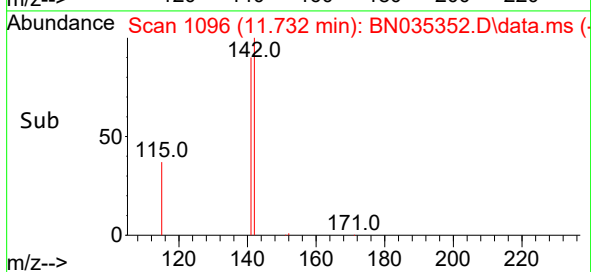
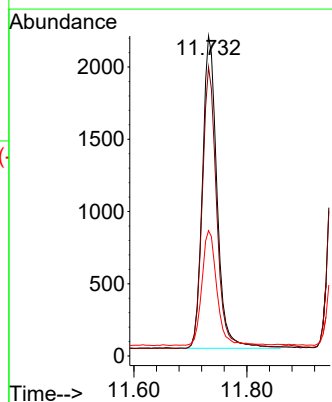
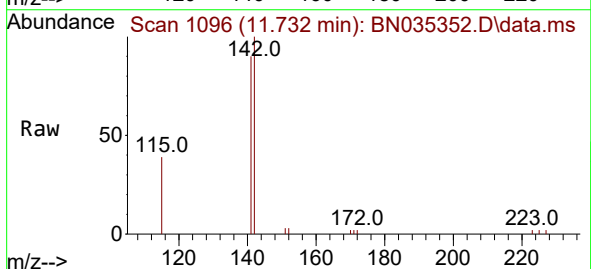
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

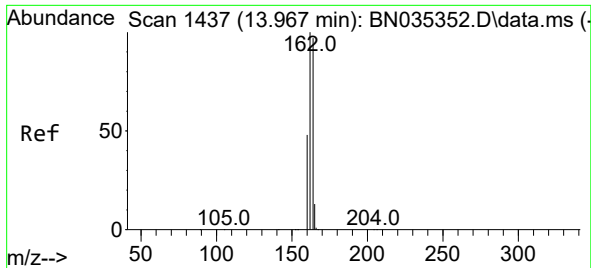
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0

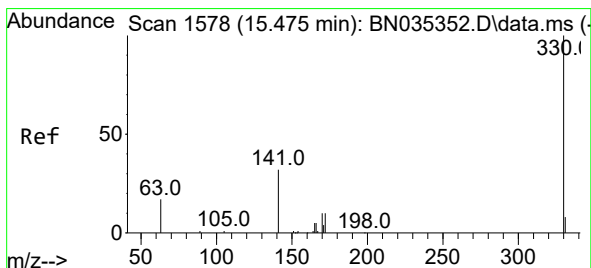
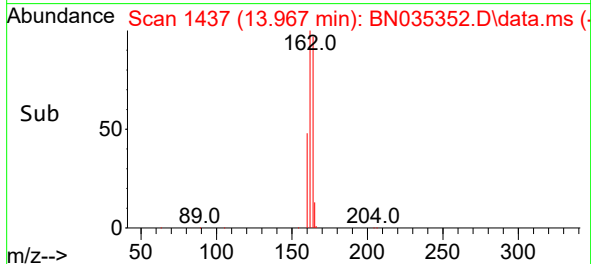
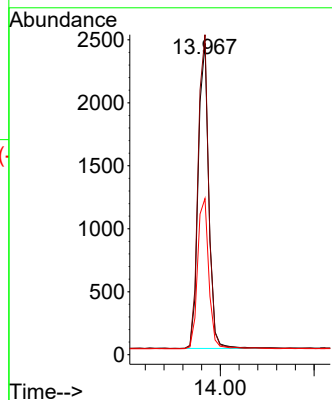
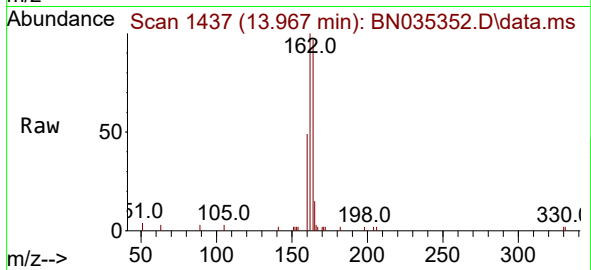




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1437
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

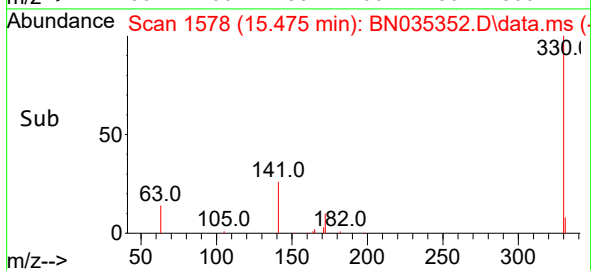
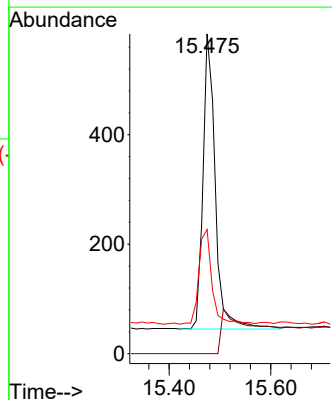
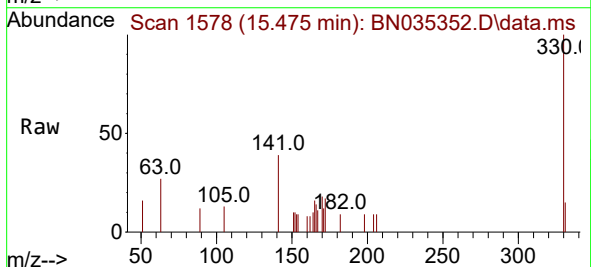
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

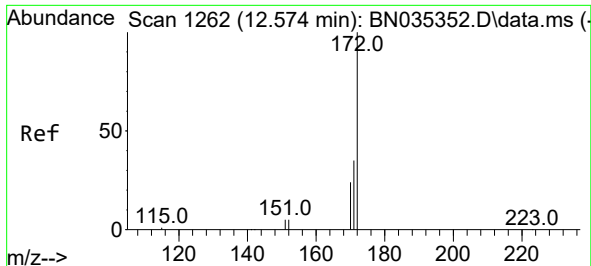
Tgt Ion:164 Resp: 3799
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 50.1 40.1 60.1



#14
 2,4,6-Tribromophenol
 Concen: 0.356 ng
 RT: 15.475 min Scan# 1578
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 33.3 26.6 40.0

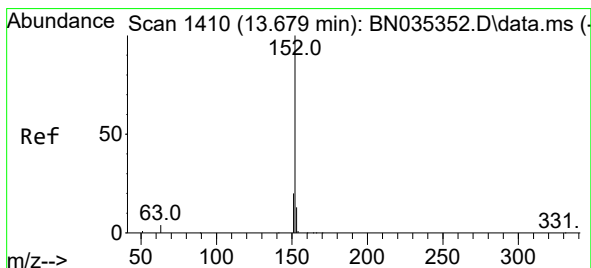
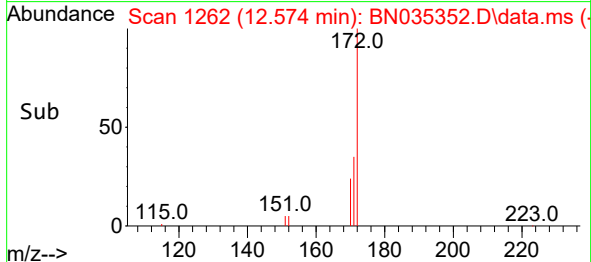
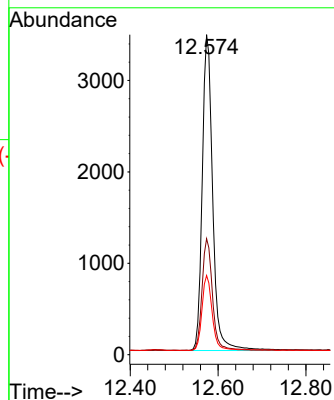
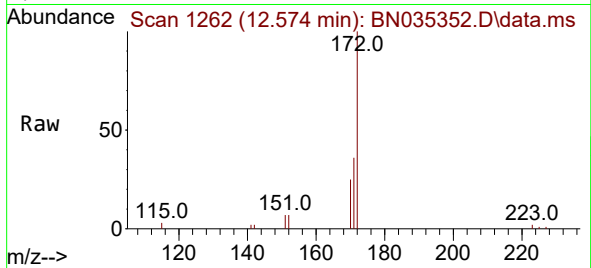




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

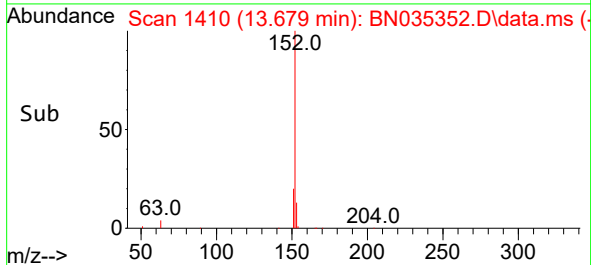
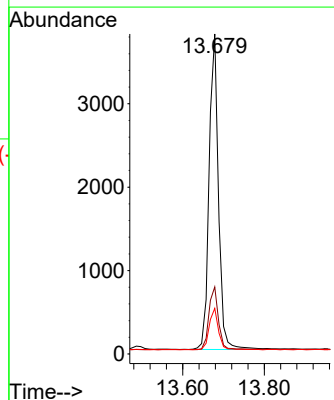
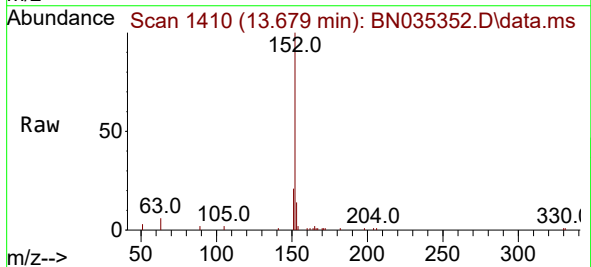
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

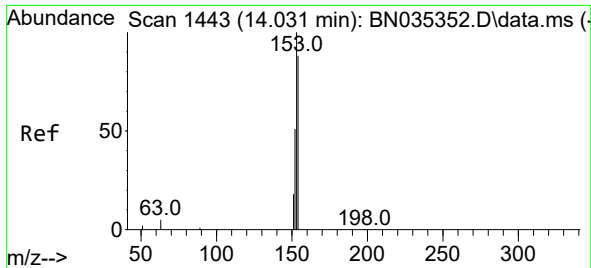
Tgt Ion:172 Resp: 5735
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.8 19.8 29.8



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 13.0 10.4 15.6

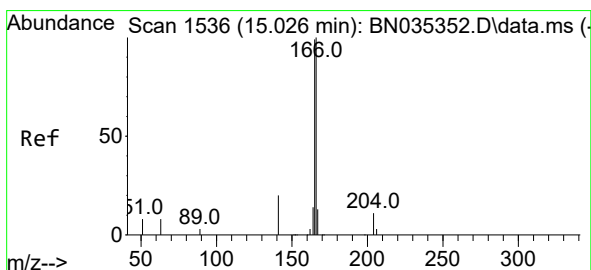
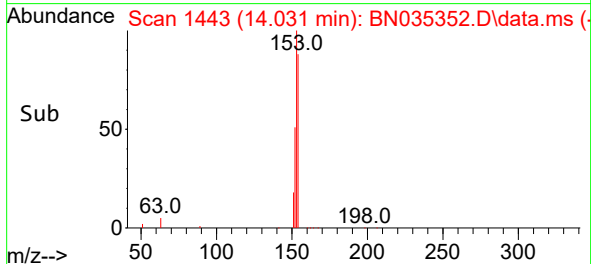
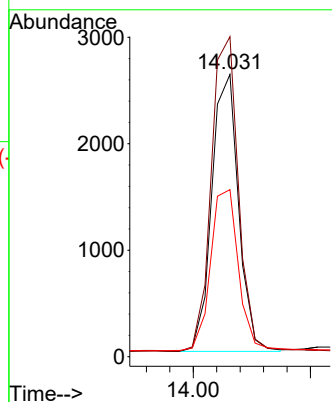
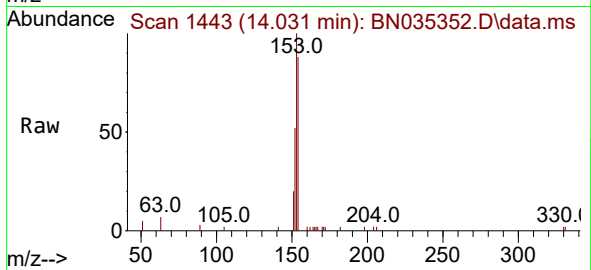




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

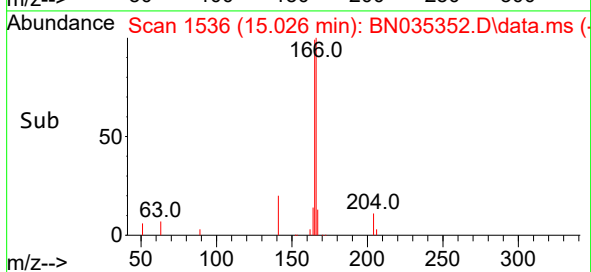
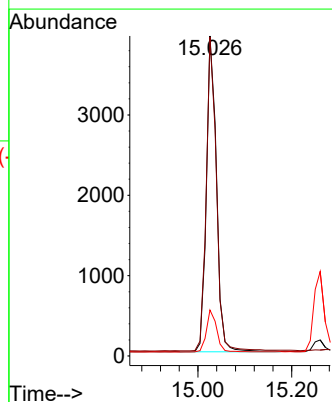
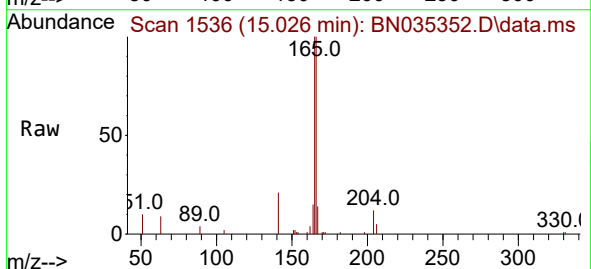
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

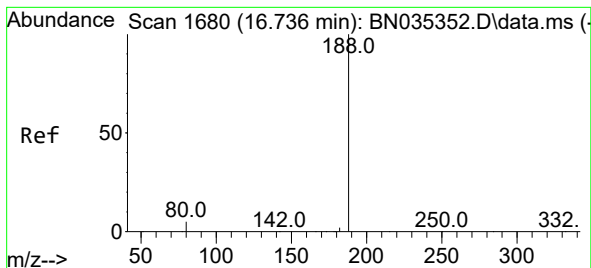
Tgt Ion:154 Resp: 4125
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 61.3 49.0 73.6



#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863
Ion Ratio Lower Upper
166 100
165 99.6 79.7 119.5
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

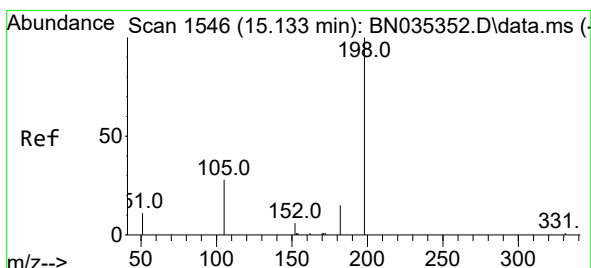
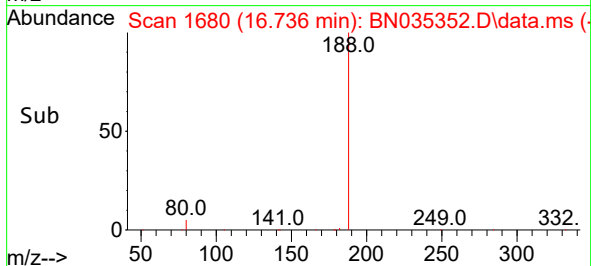
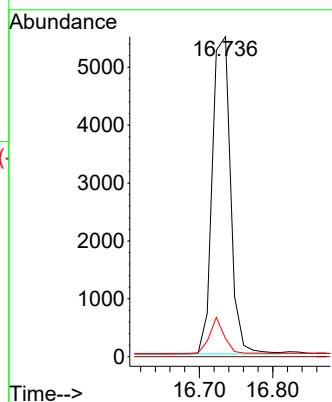
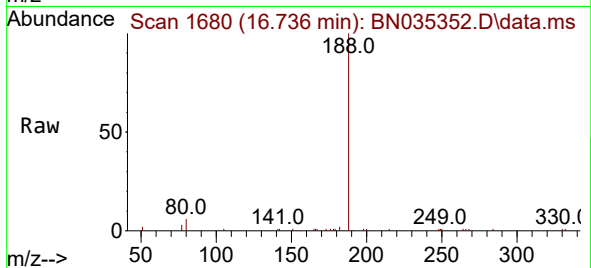
Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

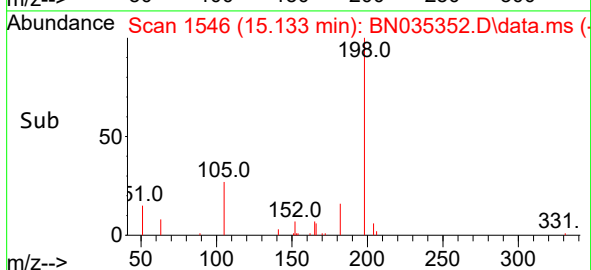
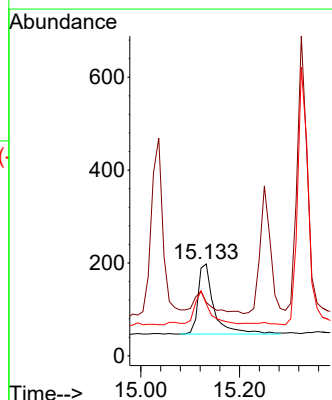
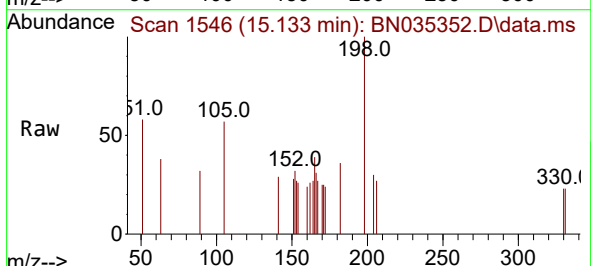
Tgt Ion:198 Resp: 337

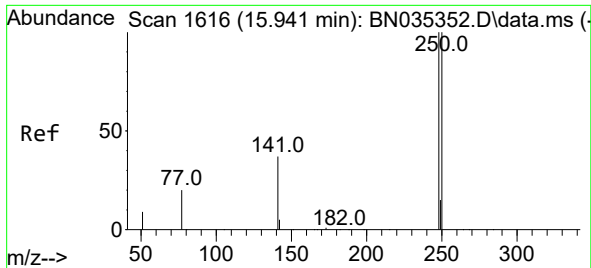
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9

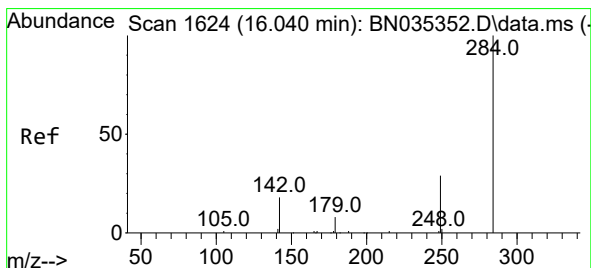
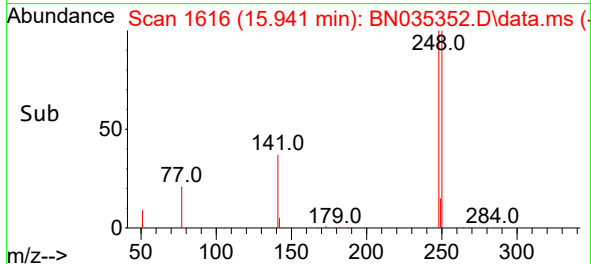
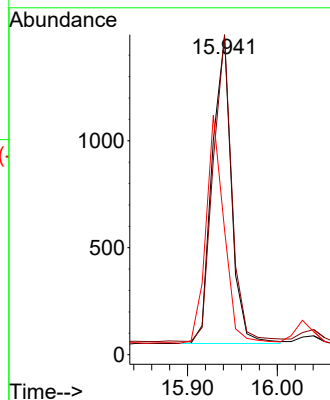
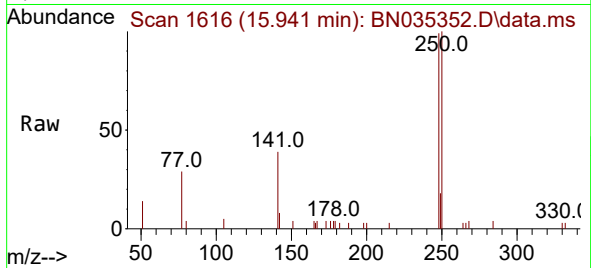




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

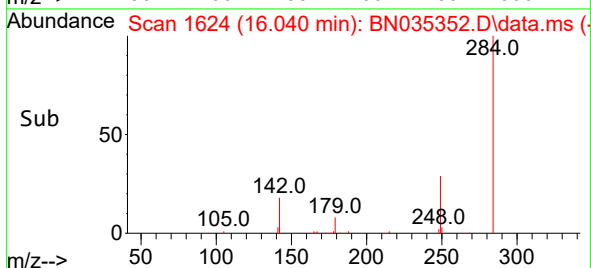
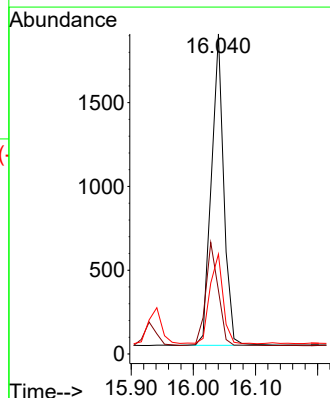
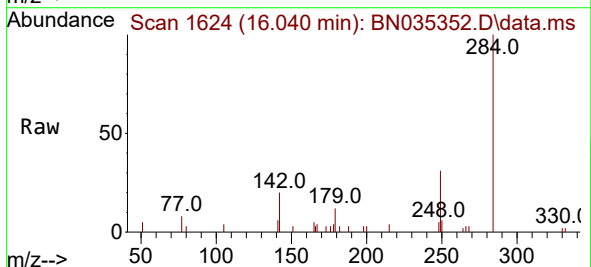
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

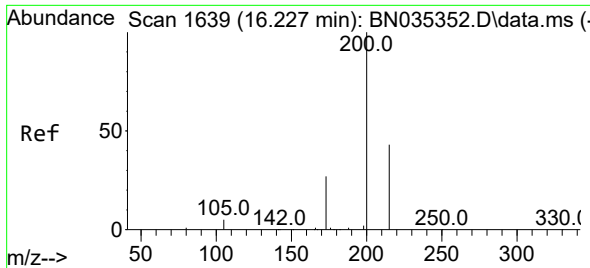
Tgt Ion:248 Resp: 2146
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.7 24.6 36.8

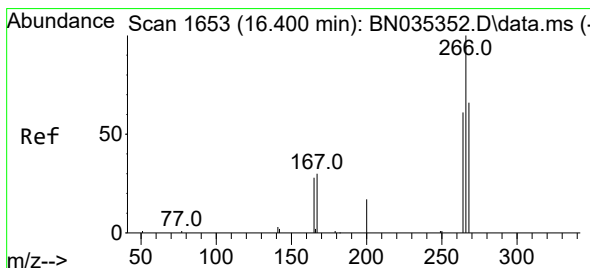
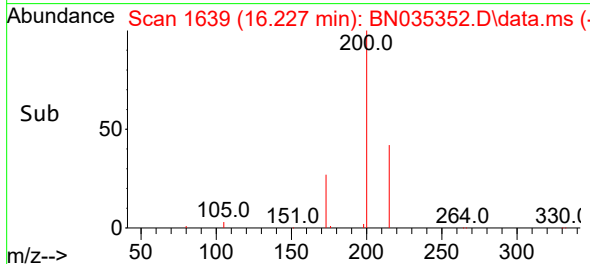
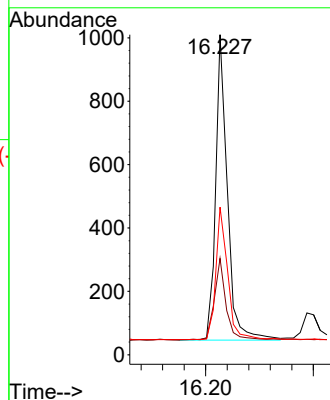
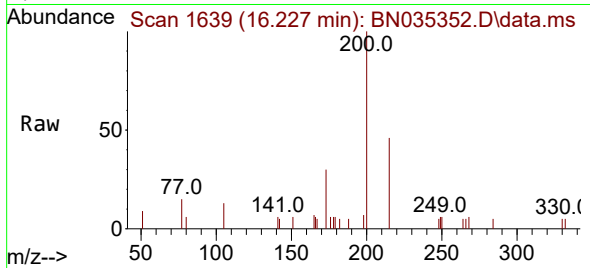




#23
 Atrazine
 Concen: 0.269 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

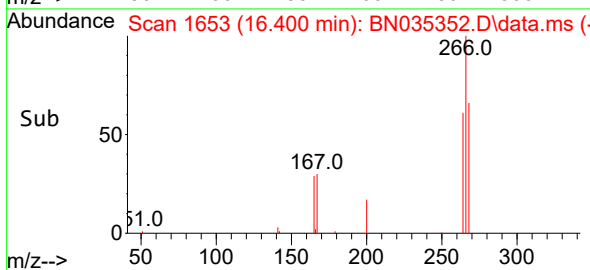
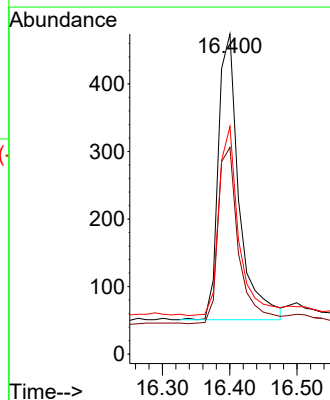
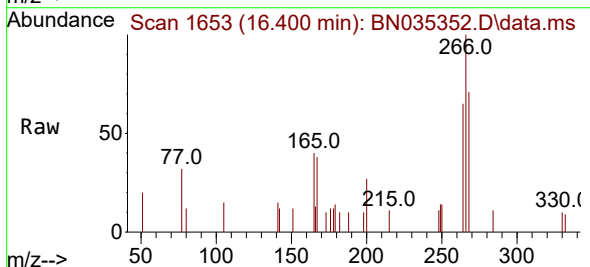
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

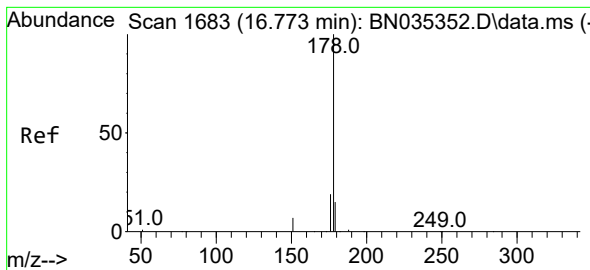
Tgt Ion:200 Resp: 1461
 Ion Ratio Lower Upper
 200 100
 173 30.1 24.1 36.1
 215 46.1 36.9 55.3



#24
 Pentachlorophenol
 Concen: 0.309 ng
 RT: 16.400 min Scan# 1653
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906
 Ion Ratio Lower Upper
 266 100
 264 62.4 42.3 63.5
 268 63.8 43.3 64.9





#25

Phenanthrene

Concen: 0.405 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

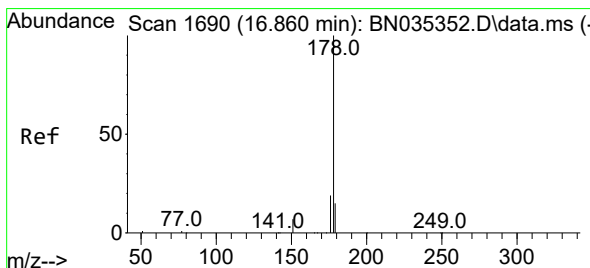
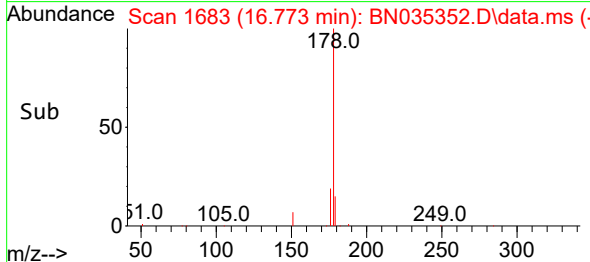
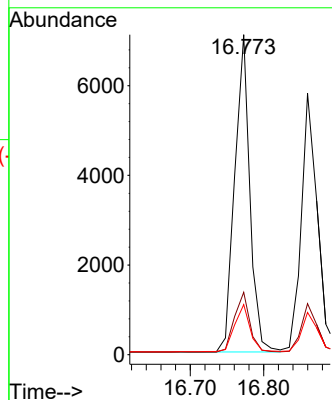
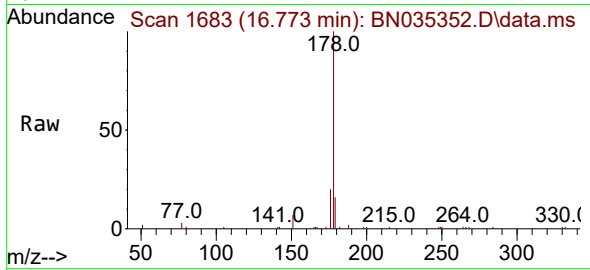
Tgt Ion:178 Resp: 10127

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.389 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

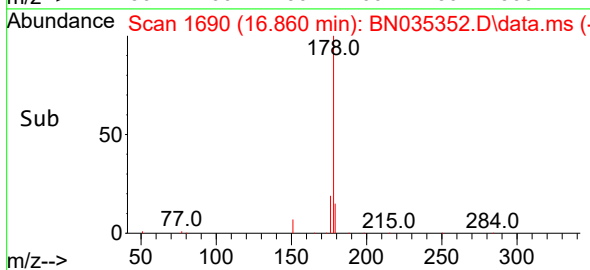
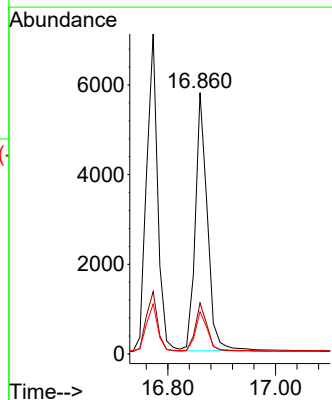
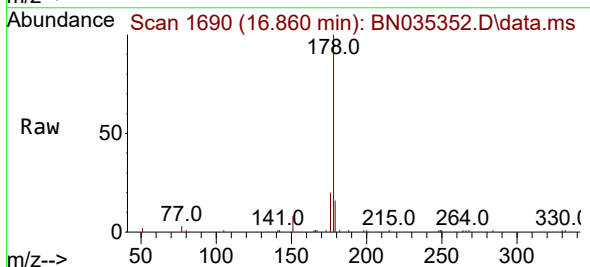
Tgt Ion:178 Resp: 8921

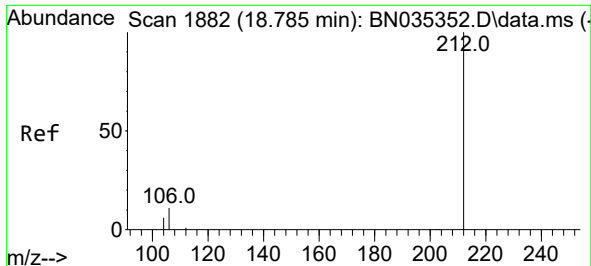
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.6 18.8

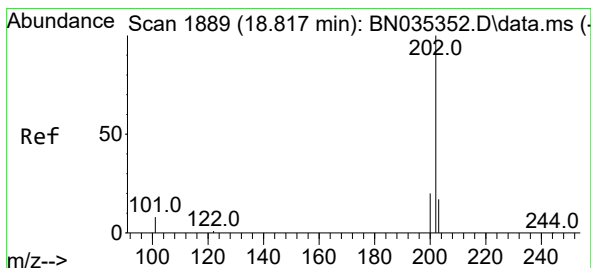
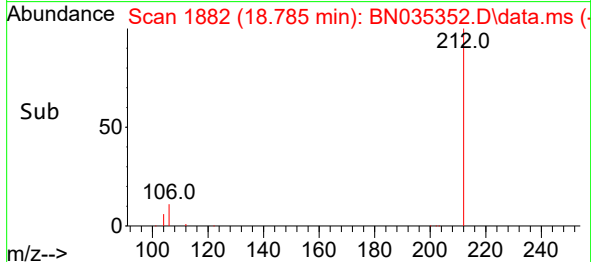
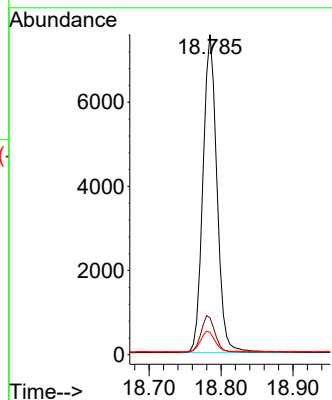
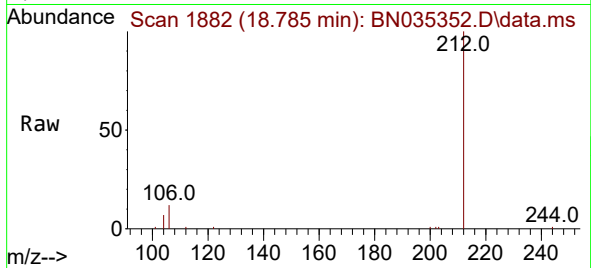




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

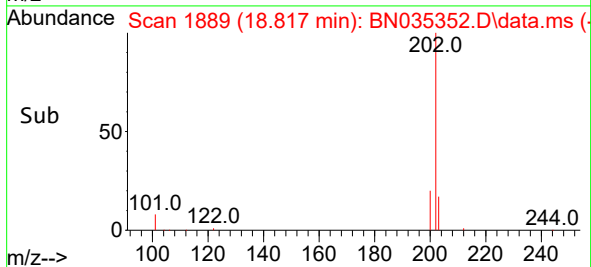
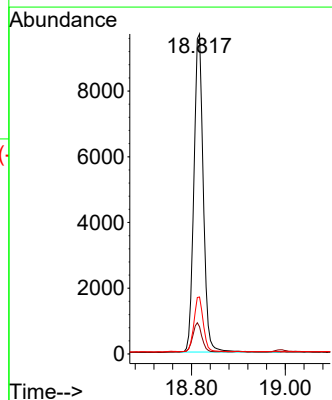
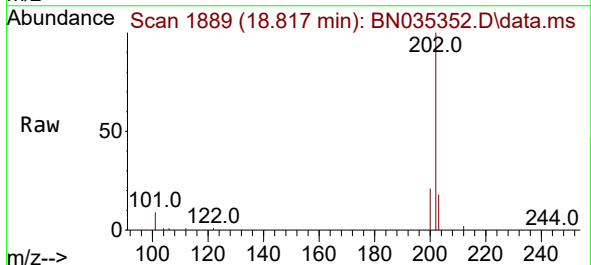
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

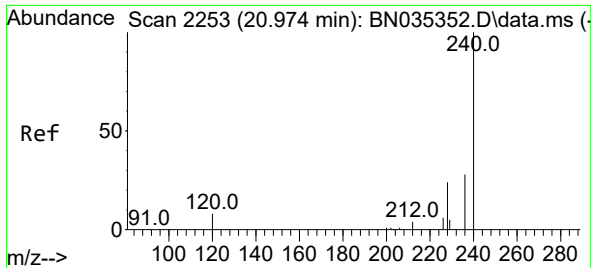
Tgt Ion:212 Resp: 10223
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.1 13.7 20.5

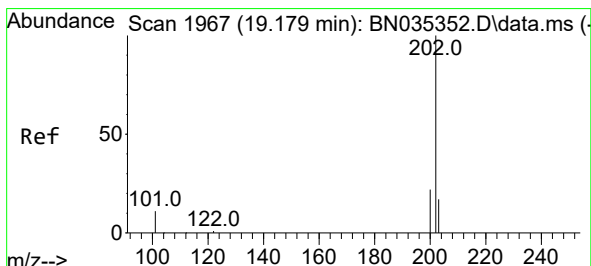
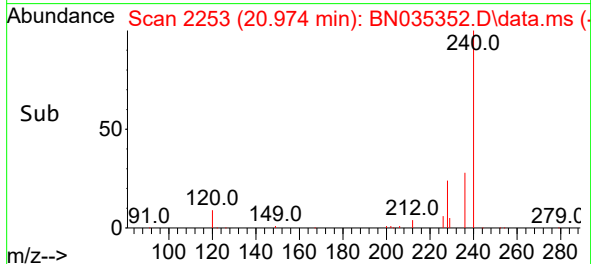
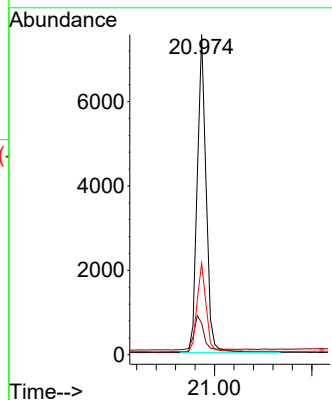
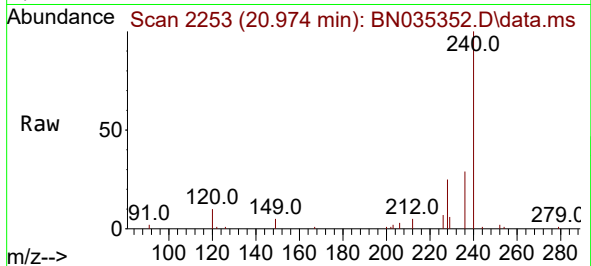




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

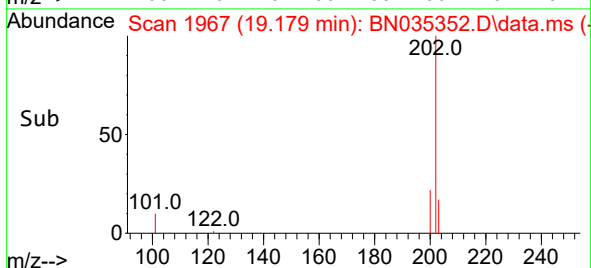
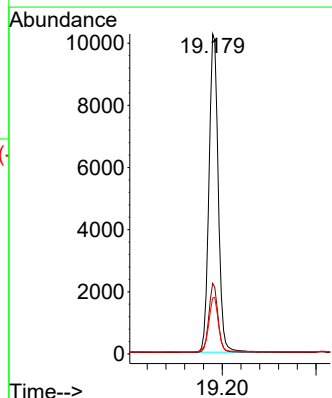
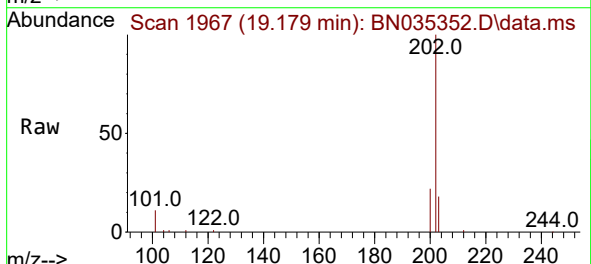
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

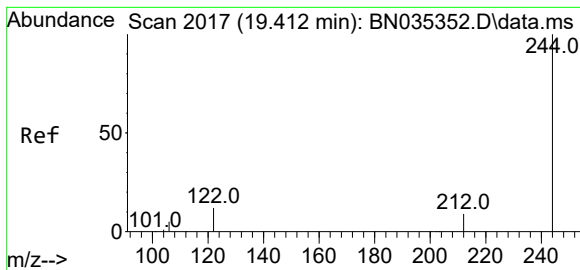
Tgt Ion:240 Resp: 9527
Ion Ratio Lower Upper
240 100
120 9.9 7.9 11.9
236 28.6 22.9 34.3



#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.9 14.3 21.5

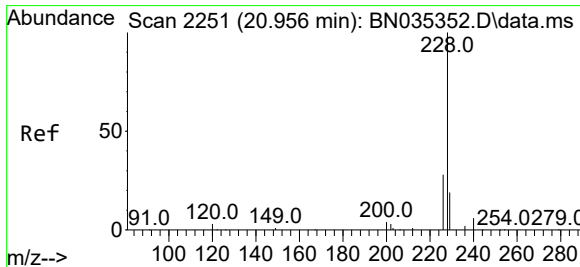
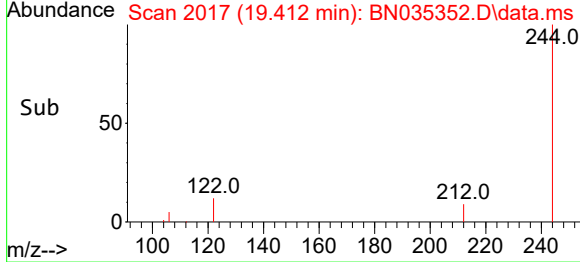
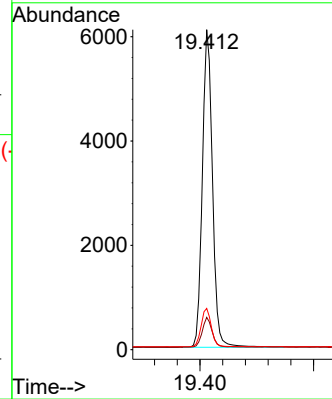
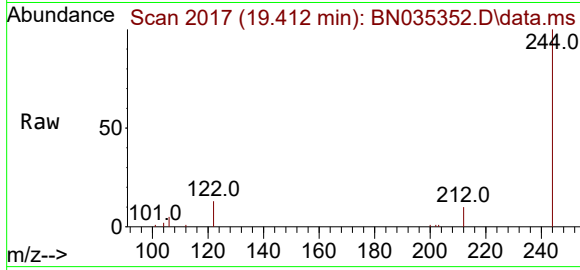




#31
 Terphenyl-d14
 Concen: 0.377 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

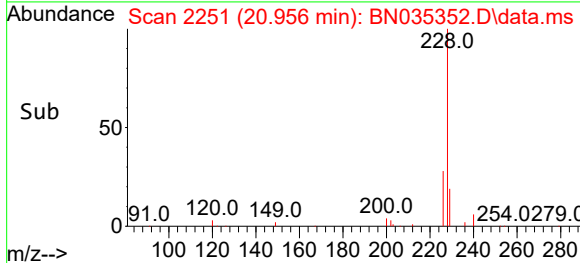
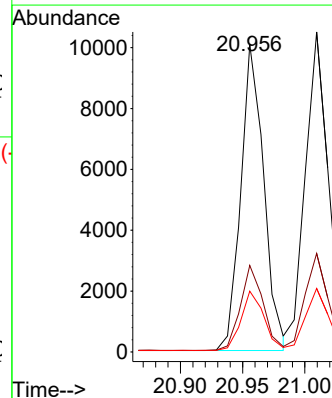
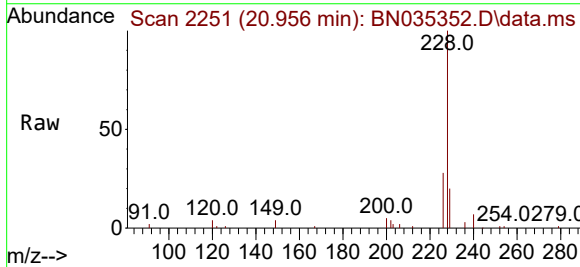
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

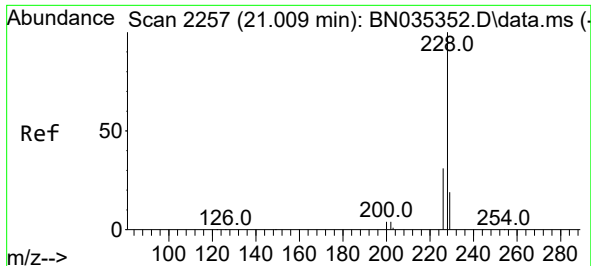
Tgt Ion:	244	Resp:	7533
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



#32
 Benzo(a)anthracene
 Concen: 0.389 ng
 RT: 20.956 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Tgt Ion:	228	Resp:	12908
Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8

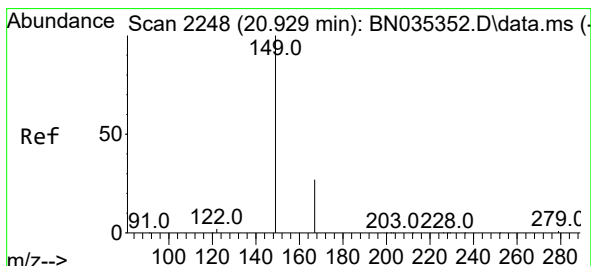
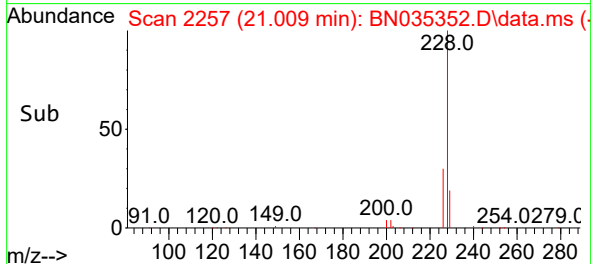
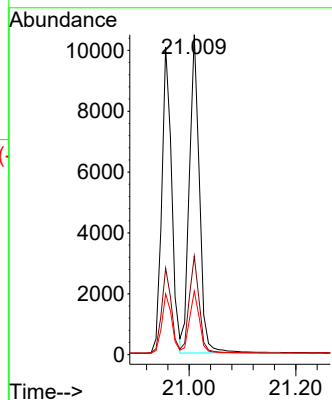
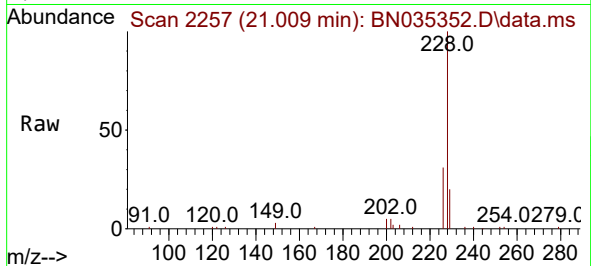




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

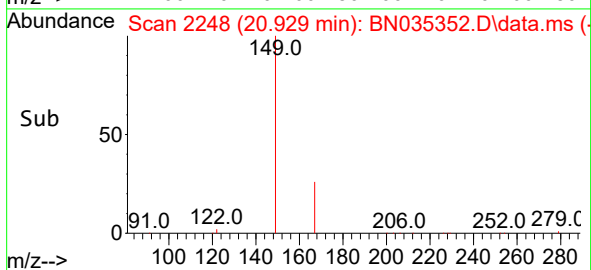
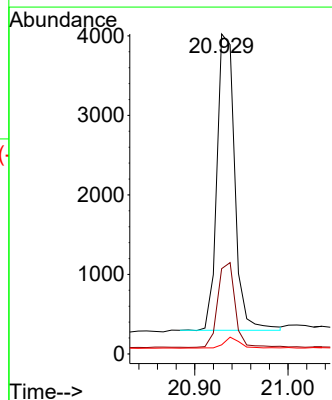
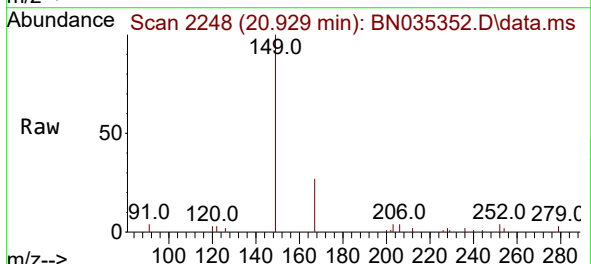
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

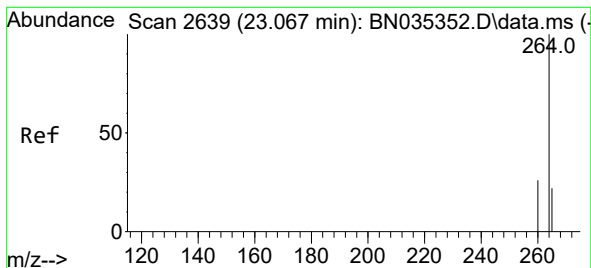
Tgt Ion:228 Resp: 13729
Ion Ratio Lower Upper
228 100
226 30.8 24.6 37.0
229 19.9 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912
Ion Ratio Lower Upper
149 100
167 27.8 22.2 33.4
279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2639

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

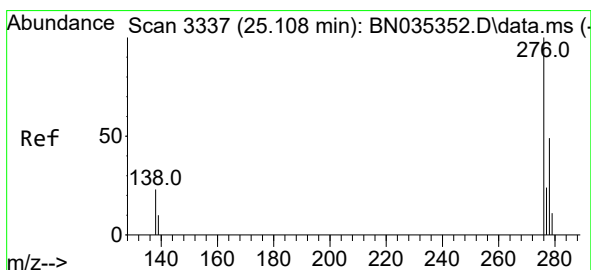
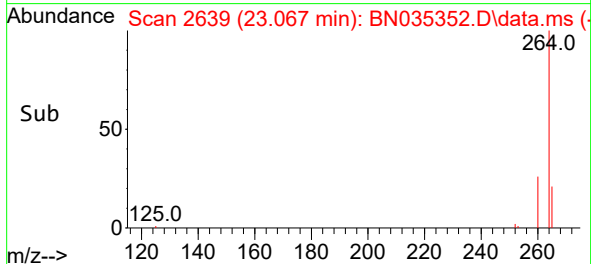
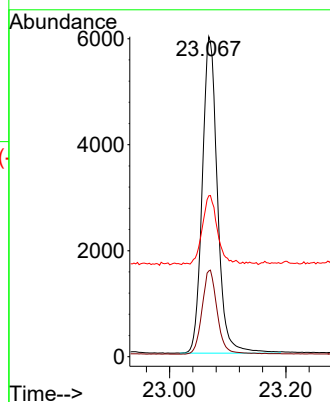
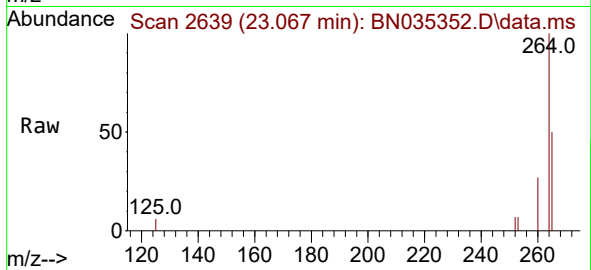
Tgt Ion:264 Resp: 10842

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 50.3 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.384 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

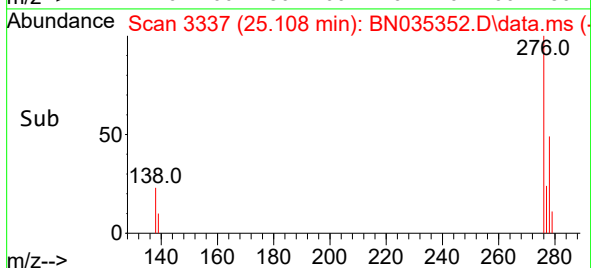
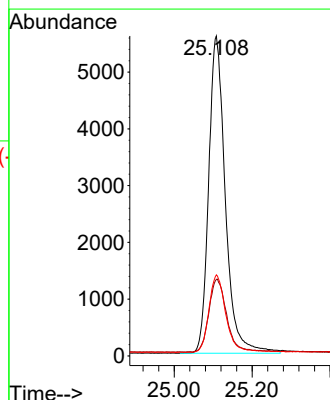
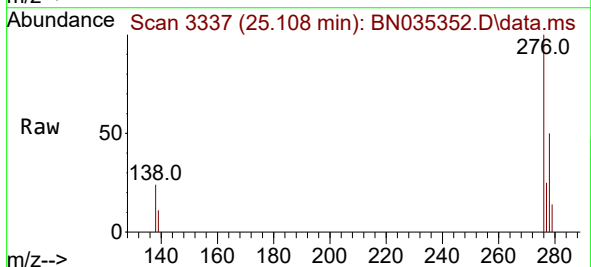
Tgt Ion:276 Resp: 16615

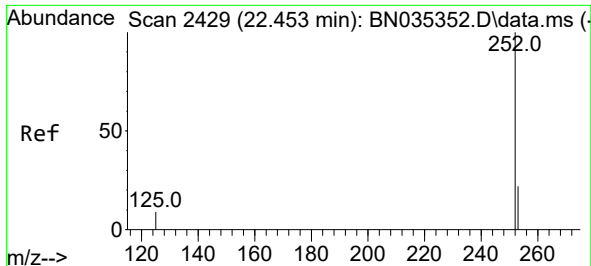
Ion Ratio Lower Upper

276 100

138 24.2 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

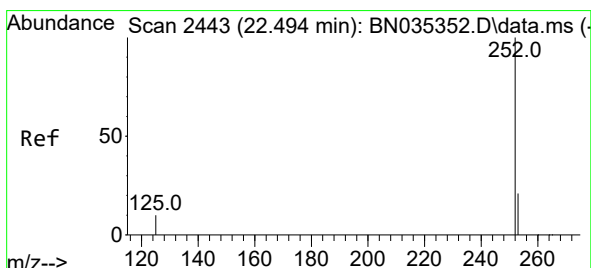
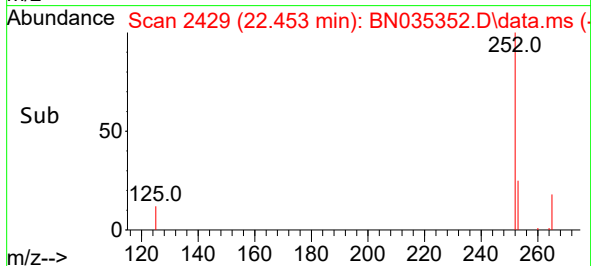
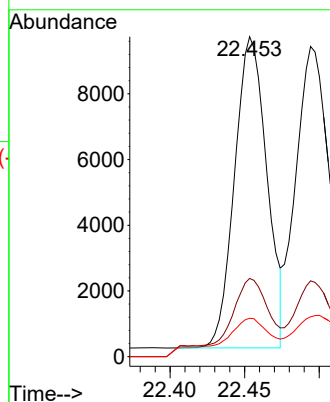
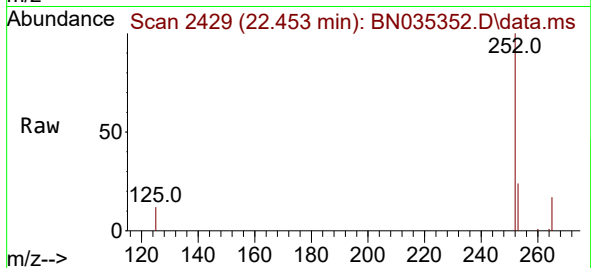
Tgt Ion:252 Resp: 14235

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 12.0 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

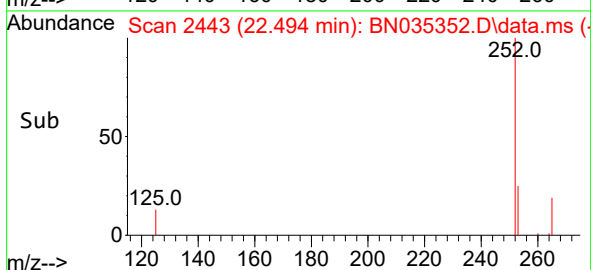
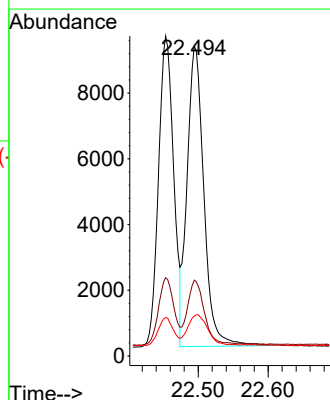
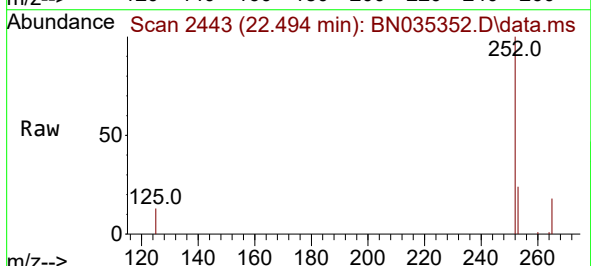
Tgt Ion:252 Resp: 15199

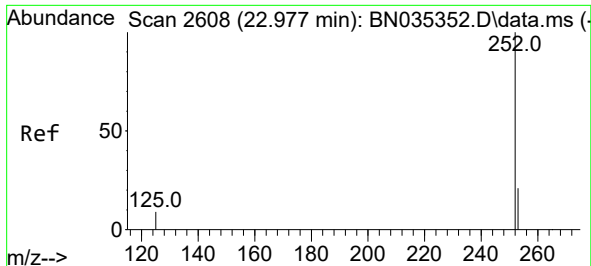
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4

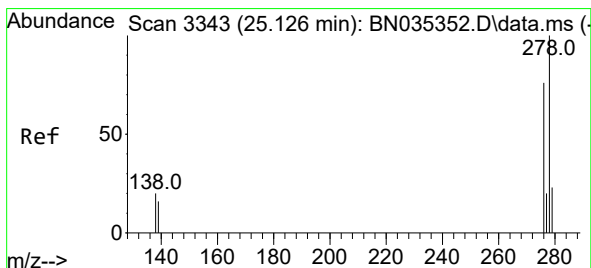
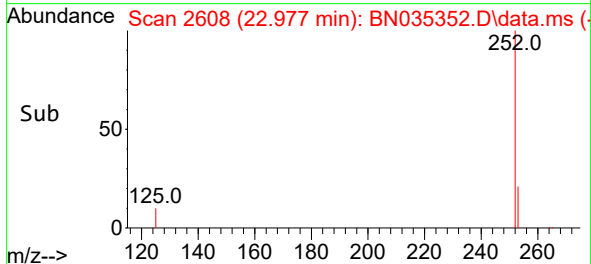
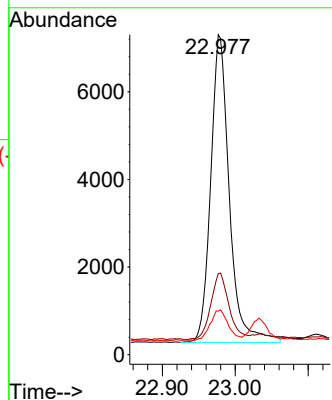
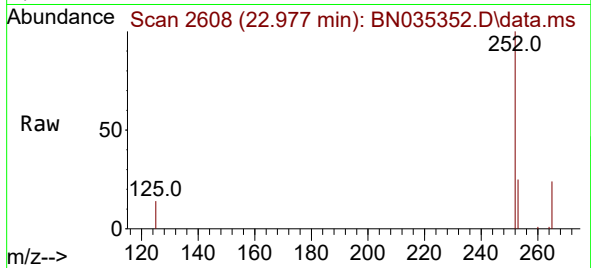




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

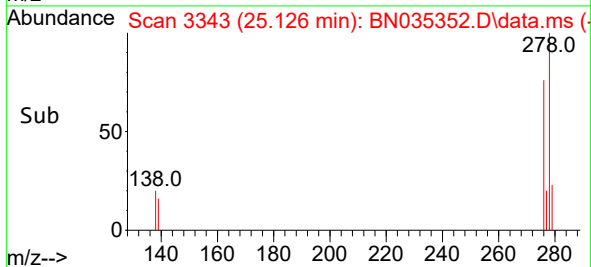
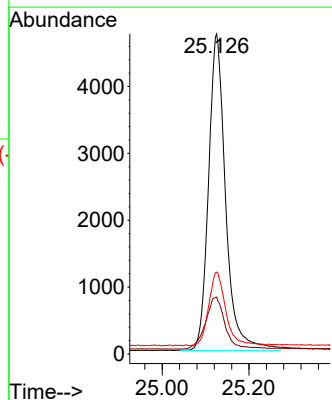
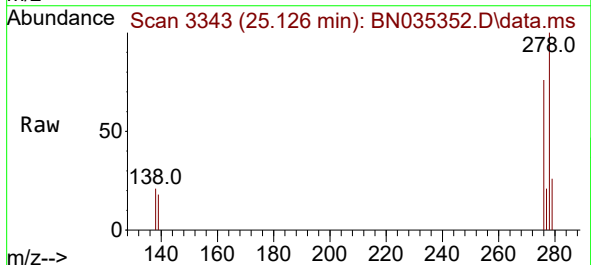
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

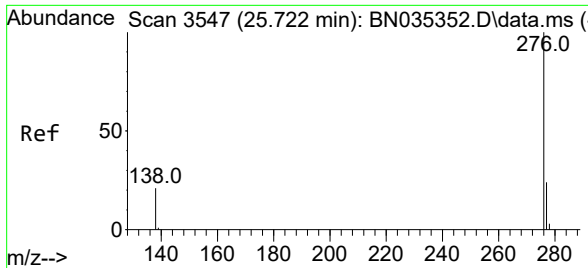
Tgt Ion:252 Resp: 12425
Ion Ratio Lower Upper
252 100
253 25.3 20.2 30.4
125 13.6 10.9 16.3



#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

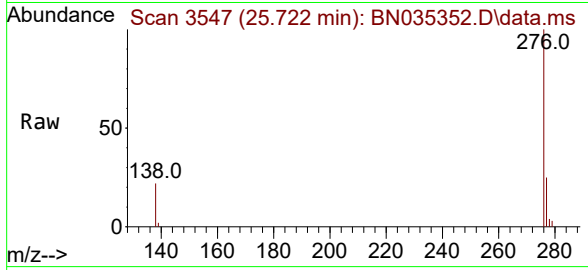
Tgt Ion:278 Resp: 12948
Ion Ratio Lower Upper
278 100
139 17.8 14.2 21.4
279 25.6 20.5 30.7



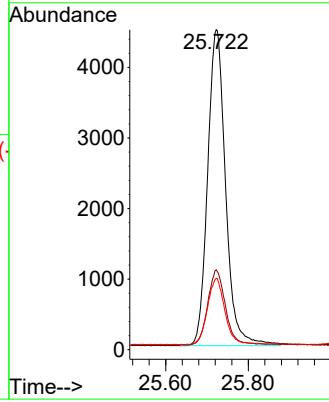
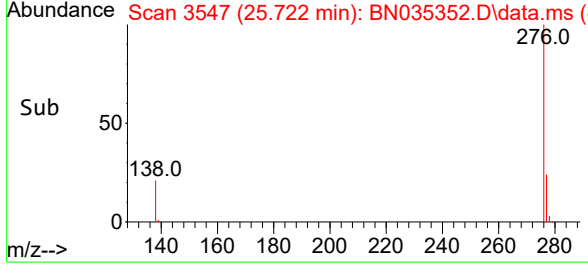


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:	276	Resp:	13529
Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

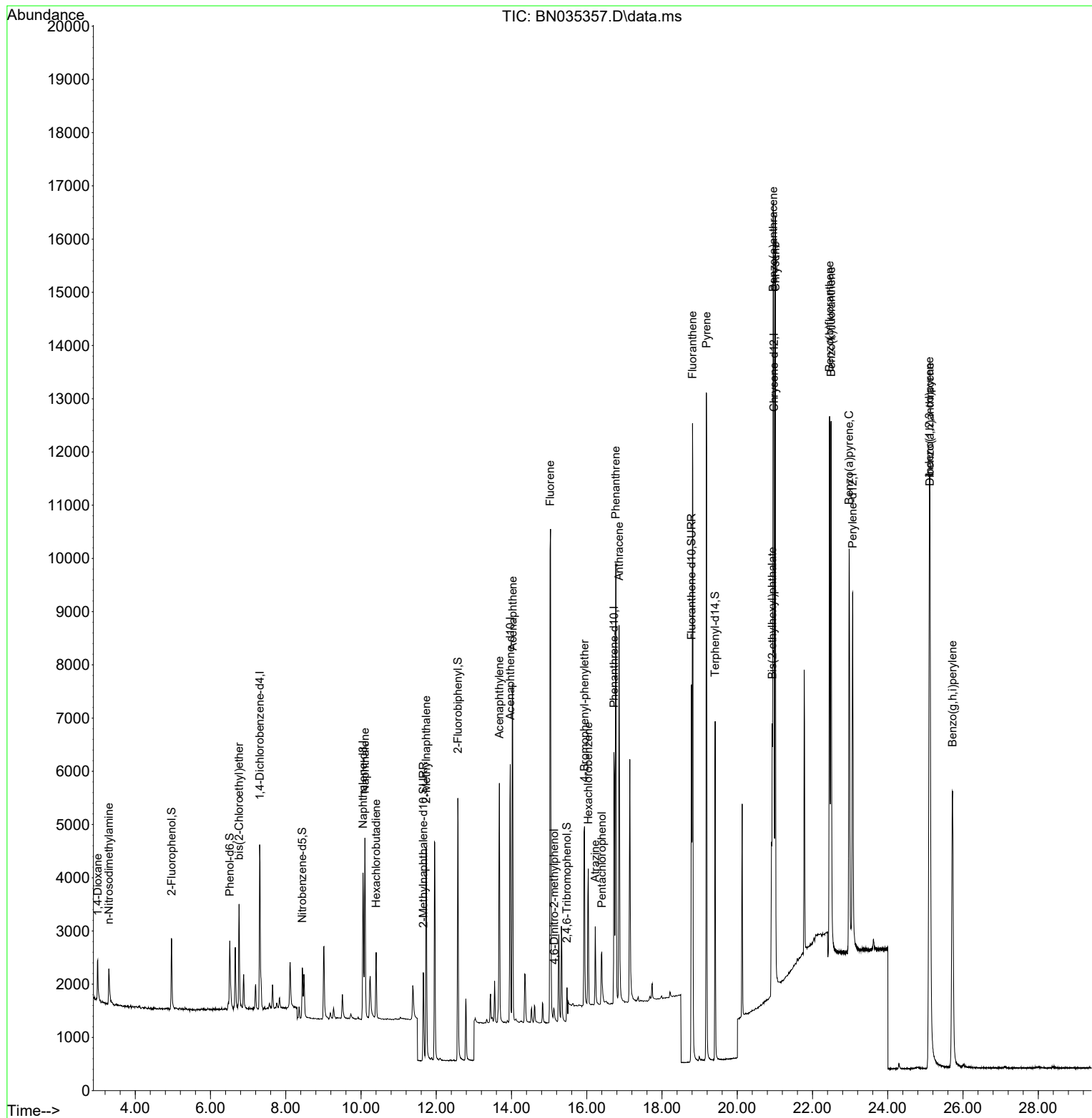
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng	99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	# 88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng	99
9) Naphthalene	10.105	128	4364	0.424	ng	99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng	98
16) Acenaphthylene	13.679	152	5261	0.435	ng	100
17) Acenaphthene	14.031	154	3421	0.426	ng	99
18) Fluorene	15.026	166	4825	0.420	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	# 86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng	99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng	99
23) Atrazine	16.227	200	1227	0.401	ng	99
24) Pentachlorophenol	16.400	266	662	0.301	ng	# 83
25) Phenanthrene	16.773	178	8509	0.421	ng	100
26) Anthracene	16.860	178	7849	0.430	ng	100
28) Fluoranthene	18.812	202	10941	0.402	ng	100
30) Pyrene	19.179	202	11476	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng	100
33) Chrysene	21.009	228	11926	0.436	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng	99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng	99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng	99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng	100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng	99

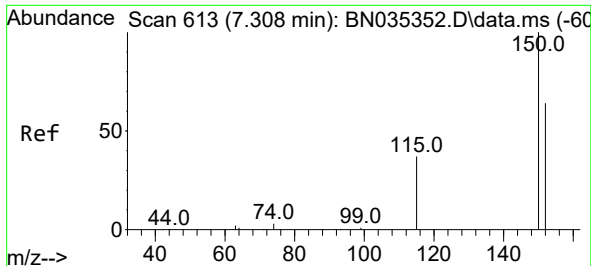
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

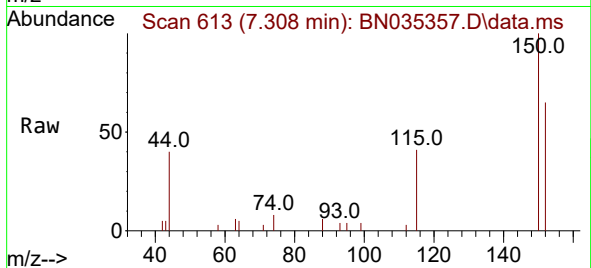
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



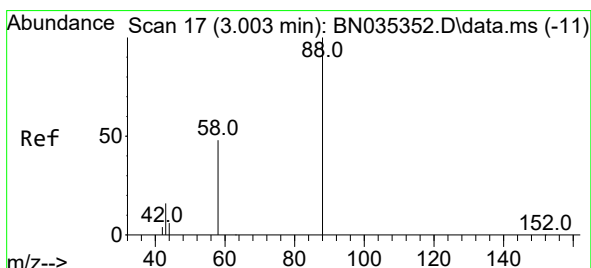
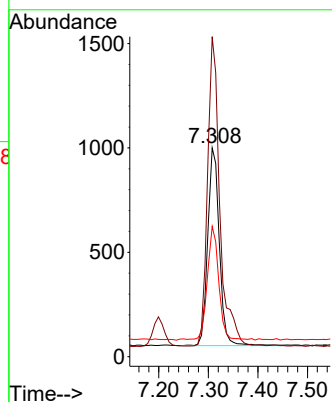
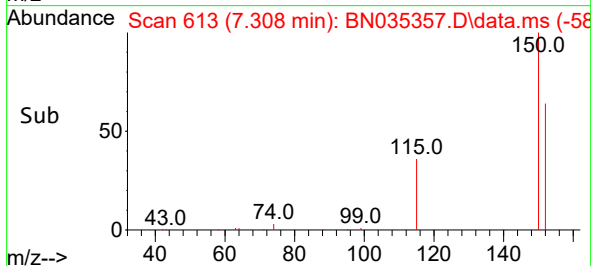


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

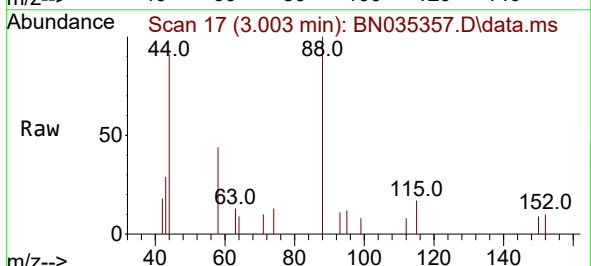
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724



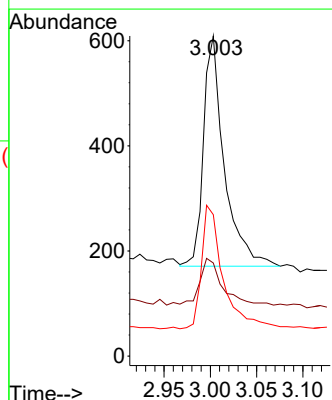
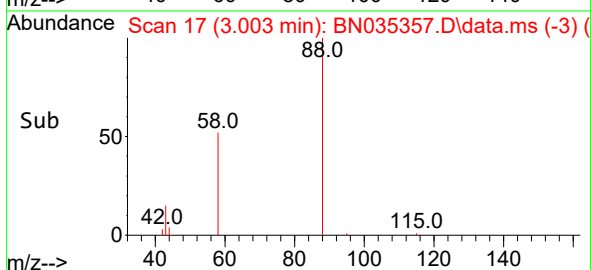
Tgt Ion:152 Resp: 1540
 Ion Ratio Lower Upper
 152 100
 150 153.3 124.0 186.0
 115 62.4 49.6 74.4

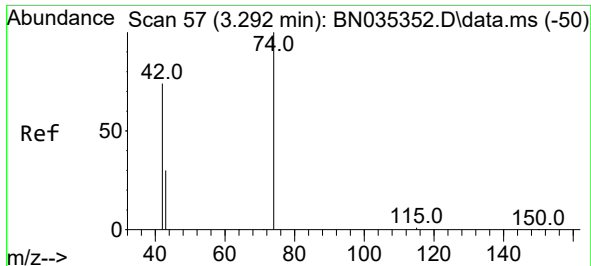


#2
 1,4-Dioxane
 Concen: 0.465 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21



Tgt Ion: 88 Resp: 684
 Ion Ratio Lower Upper
 88 100
 43 21.8 17.2 25.8
 58 56.0 44.5 66.7

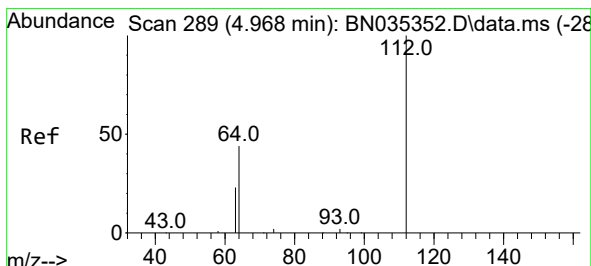
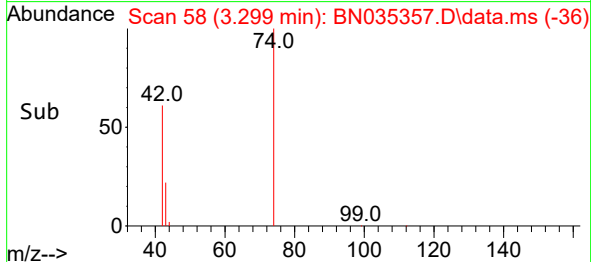
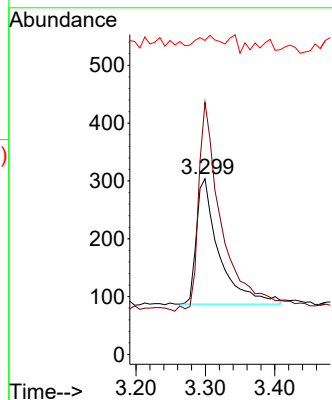
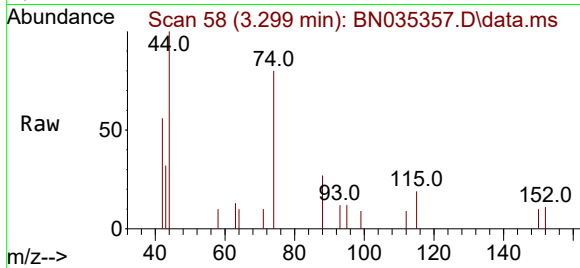




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

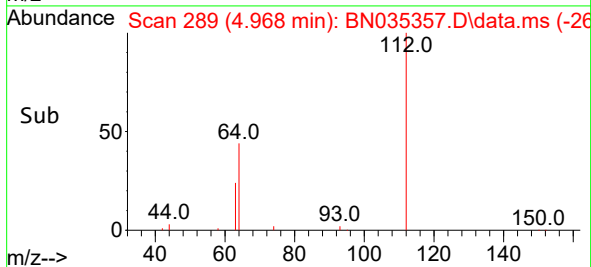
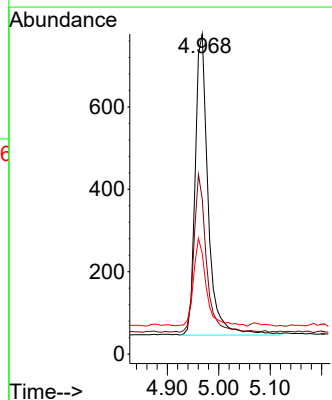
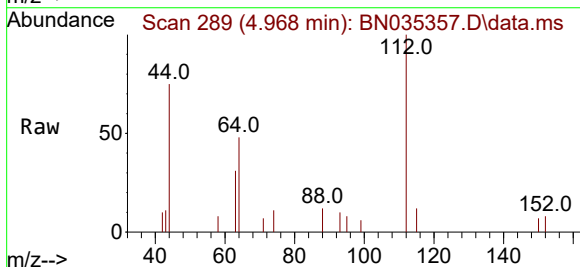
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

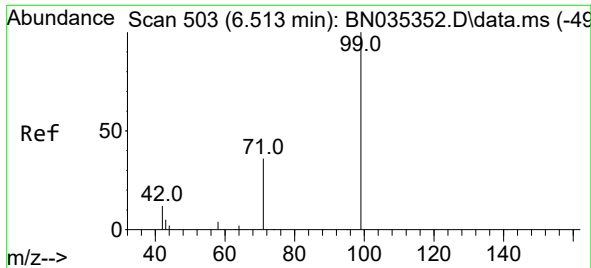
Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 112 Resp: 1280
Ion Ratio Lower Upper
112 100
64 49.0 39.8 59.8
63 28.4 21.0 31.6

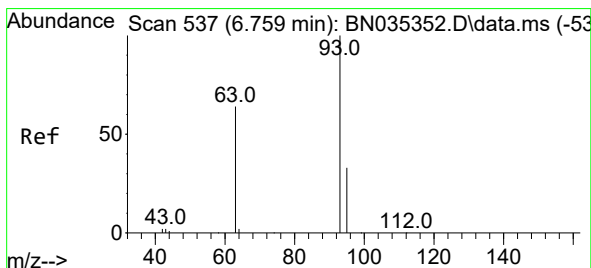
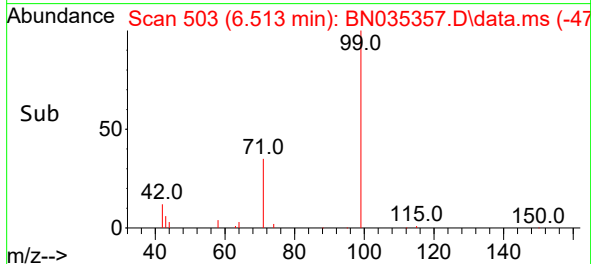
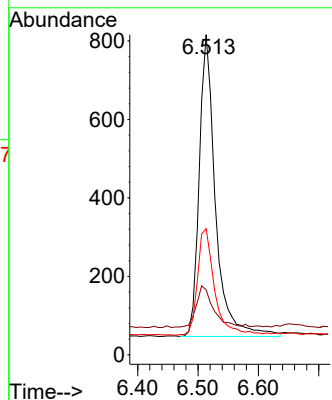
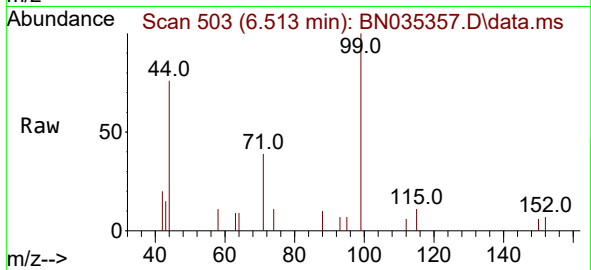




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

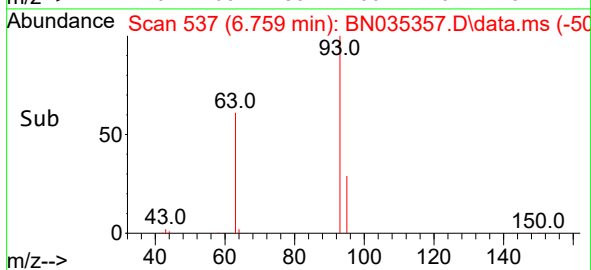
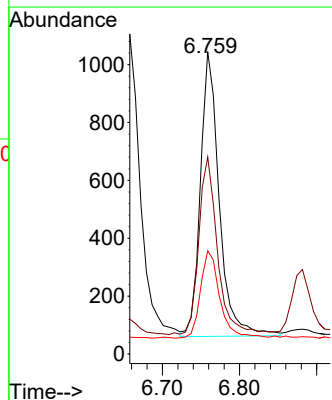
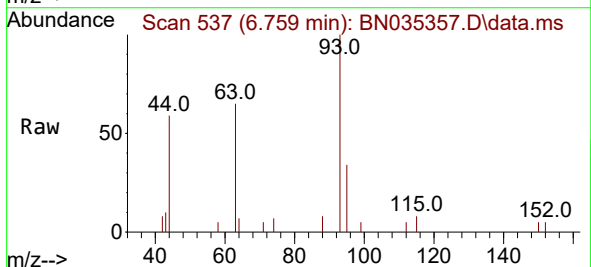
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

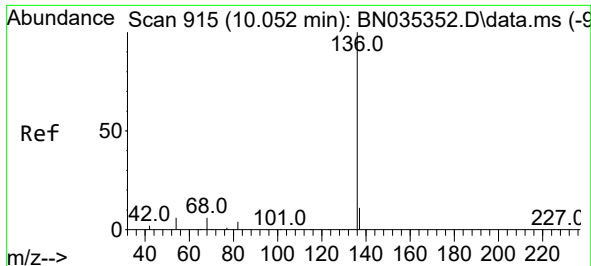
Tgt Ion:	99	Resp:	1437
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:	93	Resp:	1676
Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5

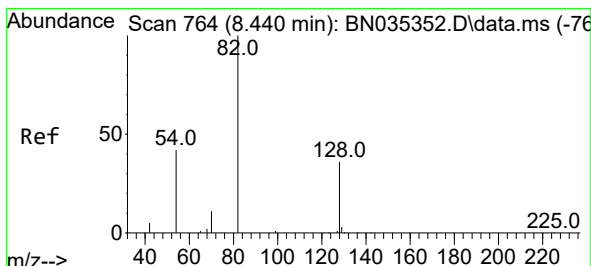
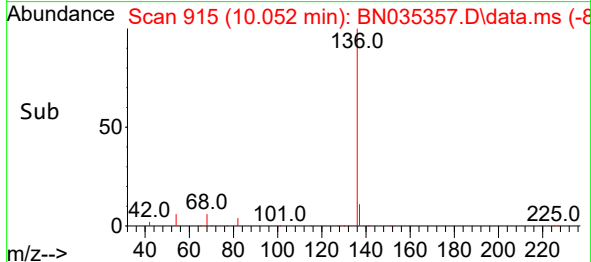
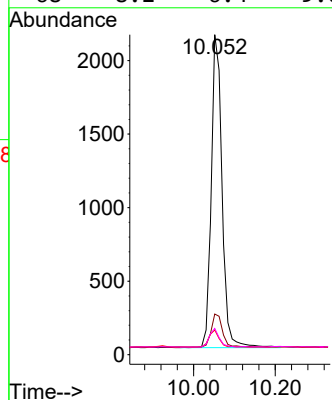
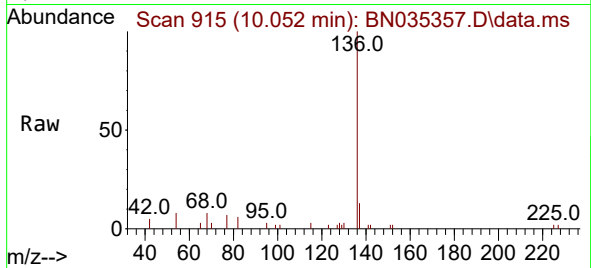




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

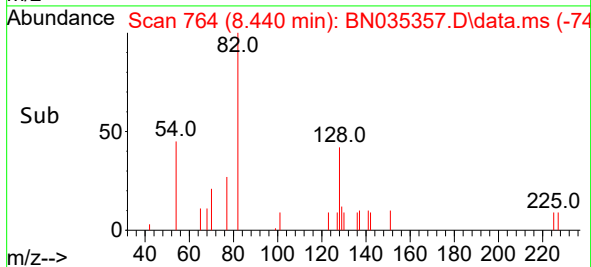
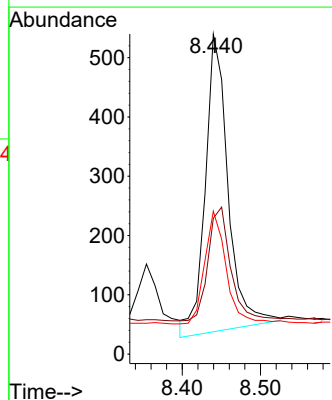
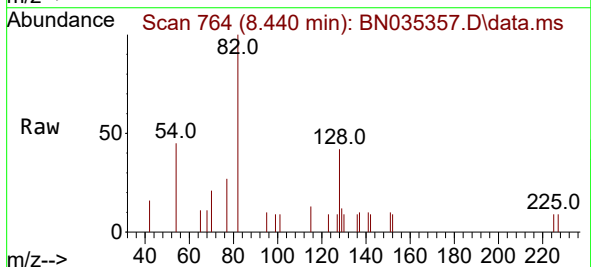
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

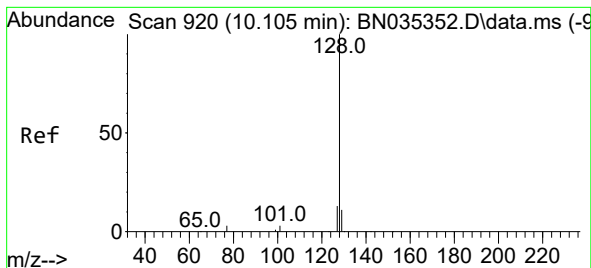
Tgt Ion:	136	Resp:	3904
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:	82	Resp:	1017
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1





#9

Naphthalene

Concen: 0.424 ng

RT: 10.105 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

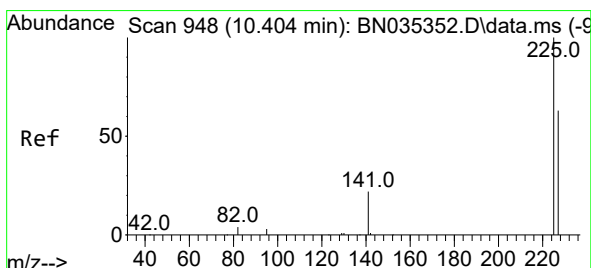
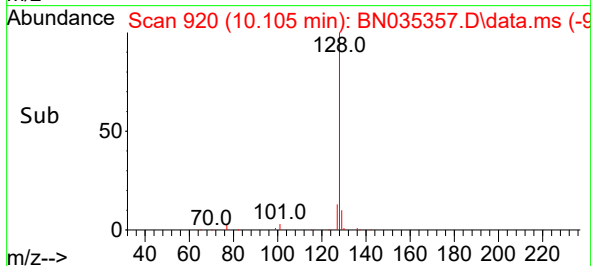
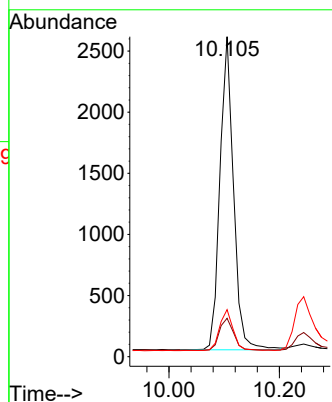
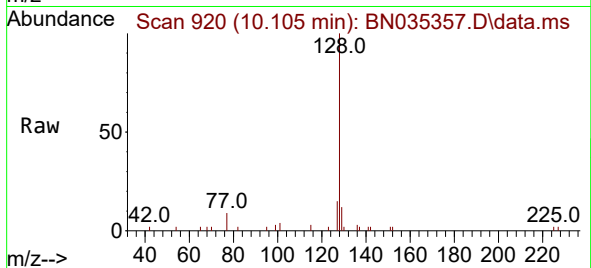
Tgt Ion:128 Resp: 4364

Ion Ratio Lower Upper

128 100

129 12.0 9.8 14.6

127 14.7 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.423 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

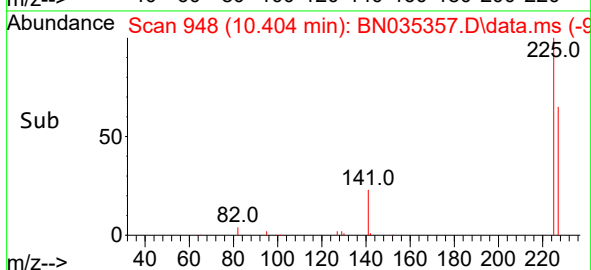
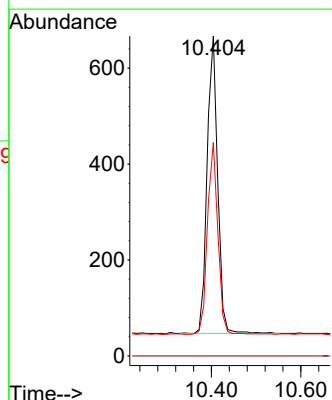
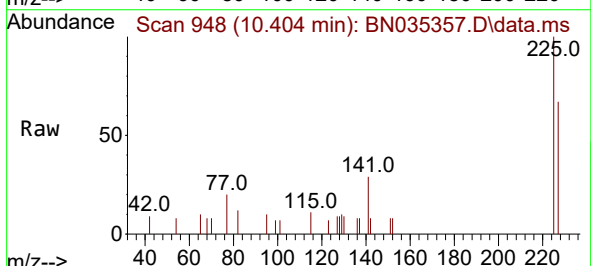
Tgt Ion:225 Resp: 1005

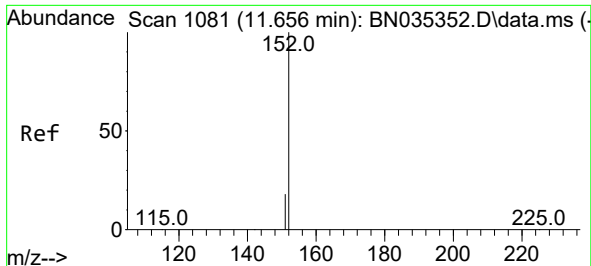
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

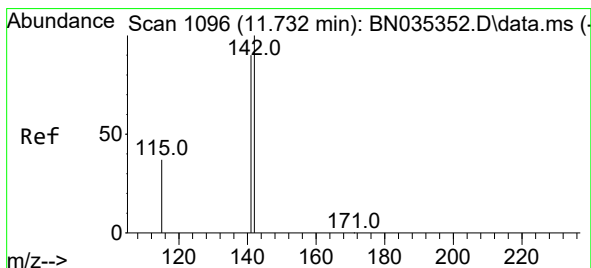
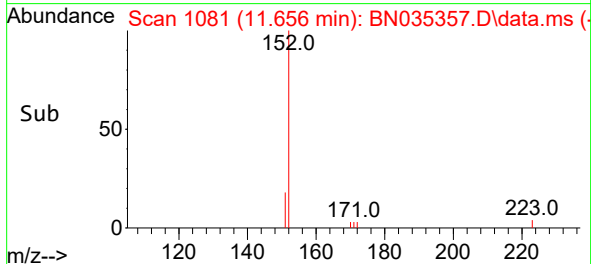
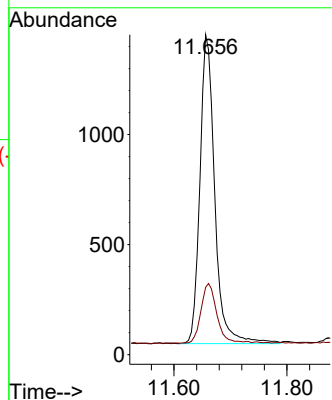
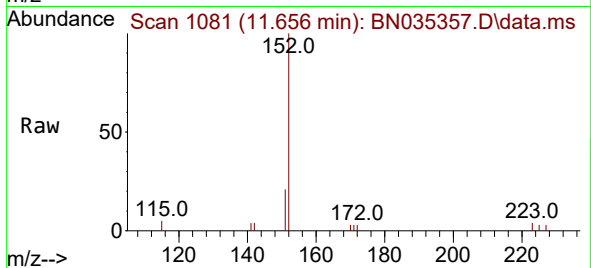




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

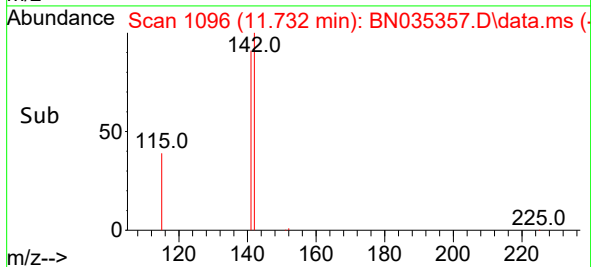
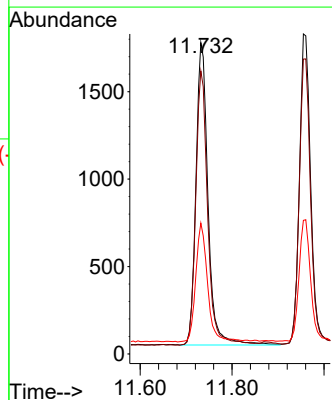
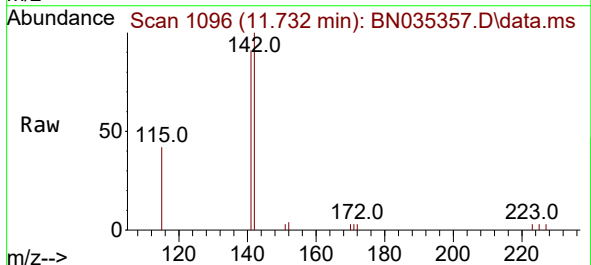
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

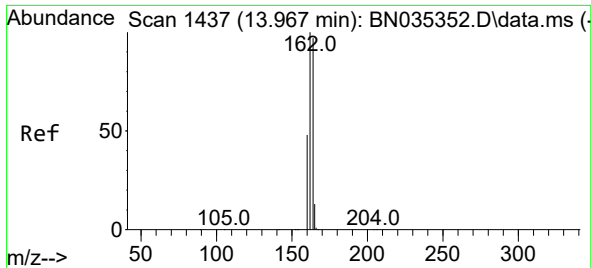
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0

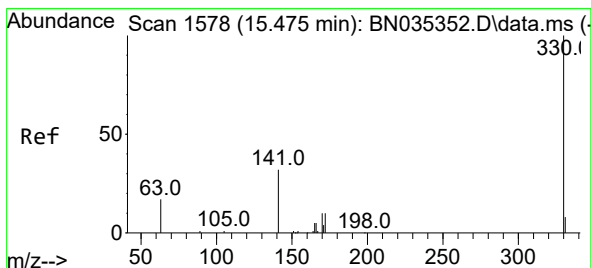
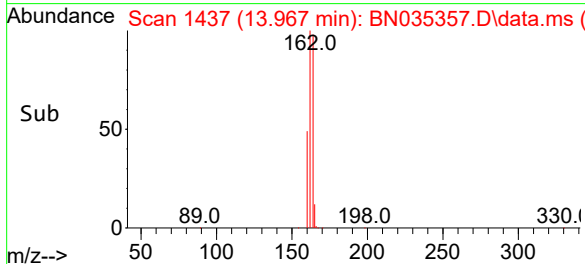
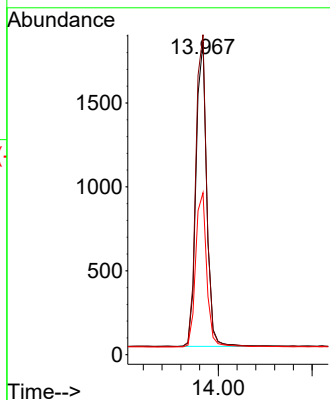
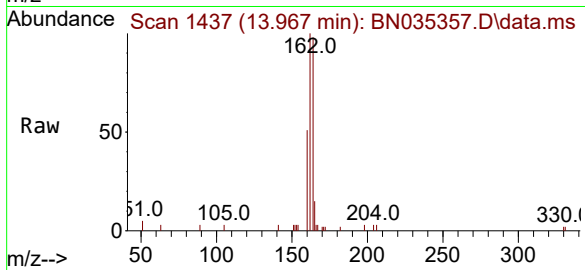




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

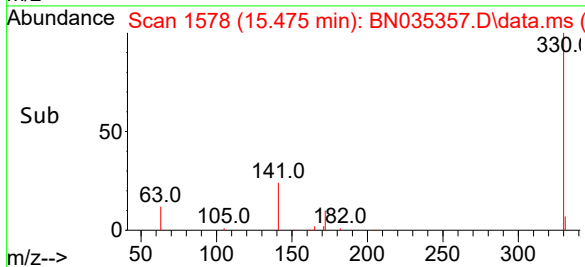
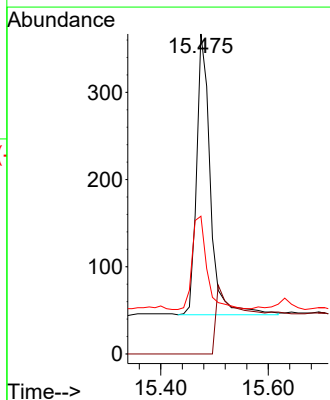
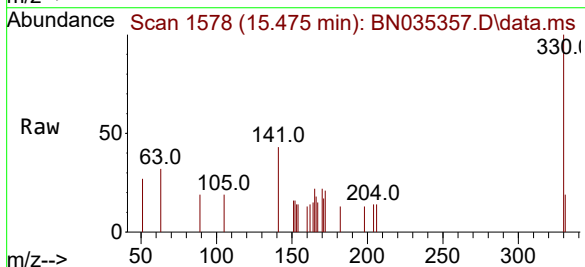
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

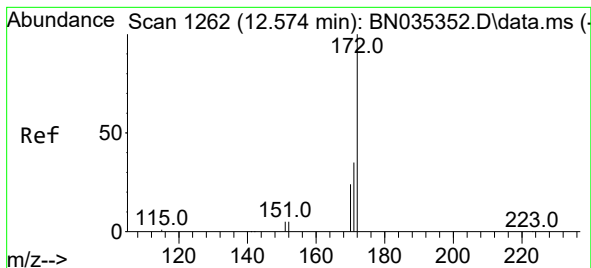
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0

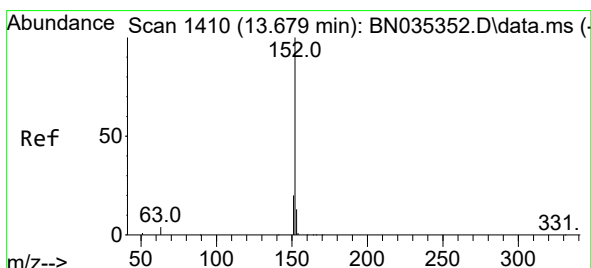
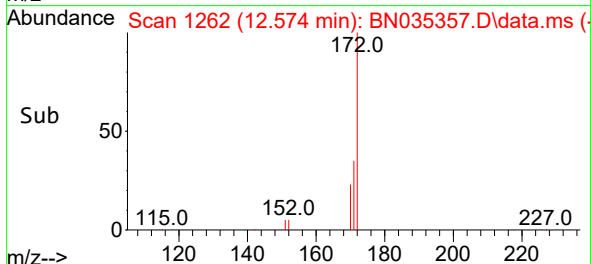
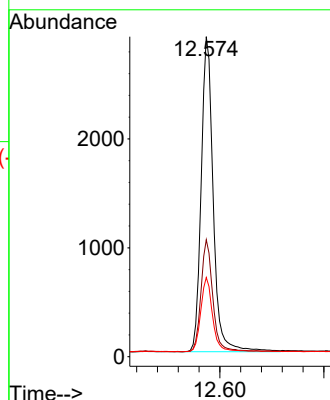
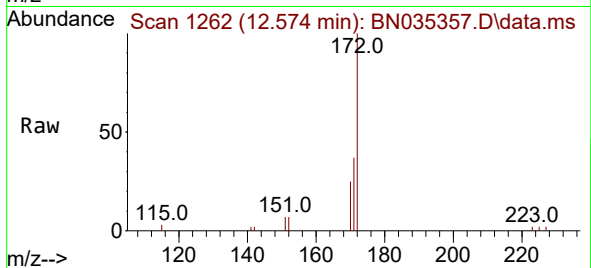




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

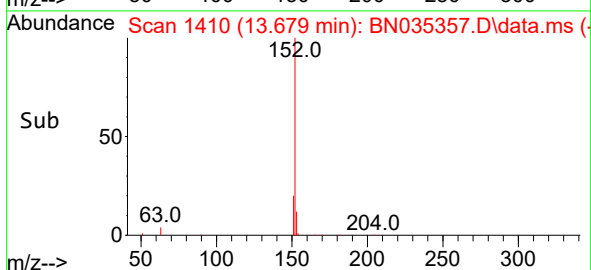
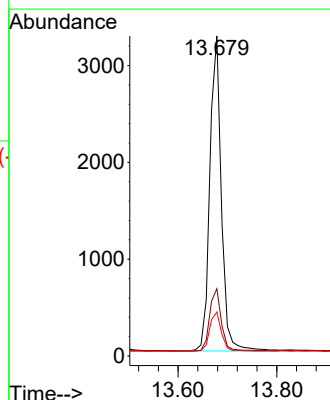
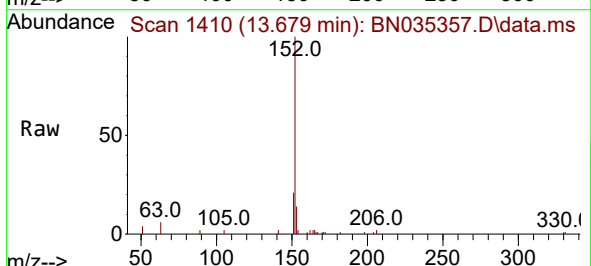
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

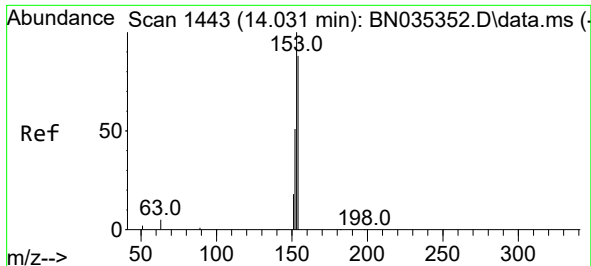
Tgt Ion:	172	Resp:	4647
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:	152	Resp:	5261
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

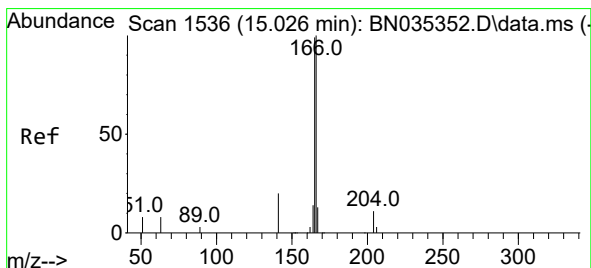
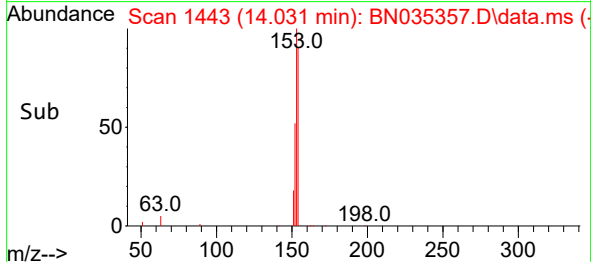
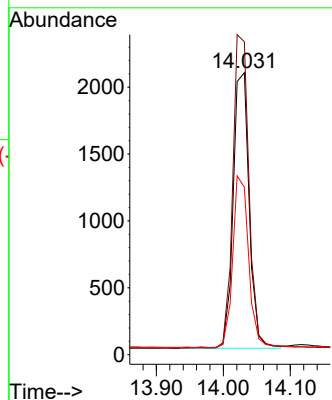
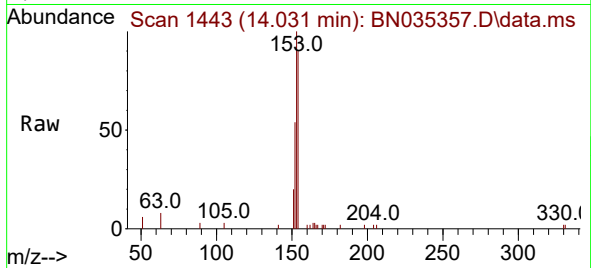




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

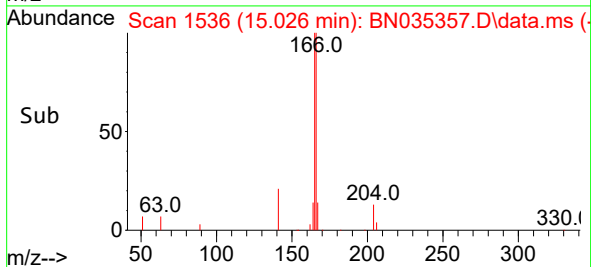
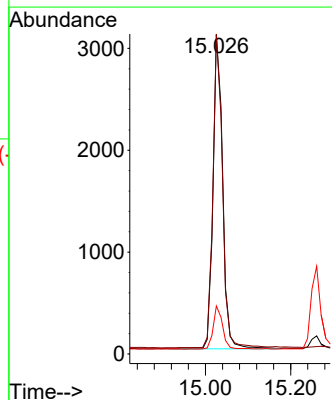
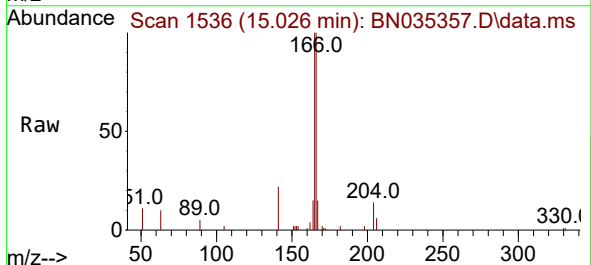
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

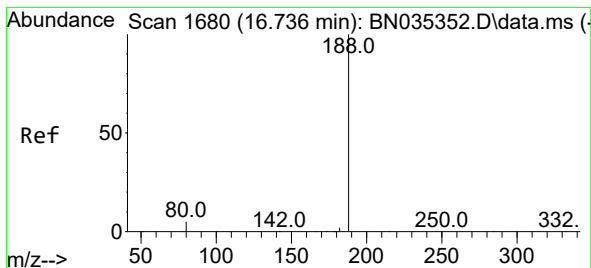
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6



#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825
Ion Ratio Lower Upper
166 100
165 98.4 79.7 119.5
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

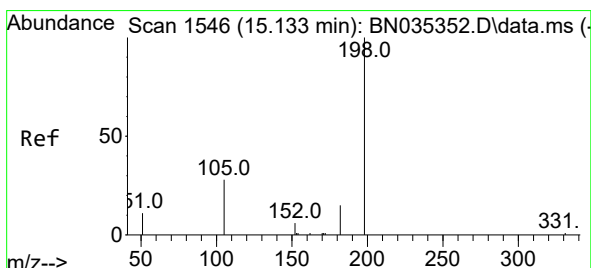
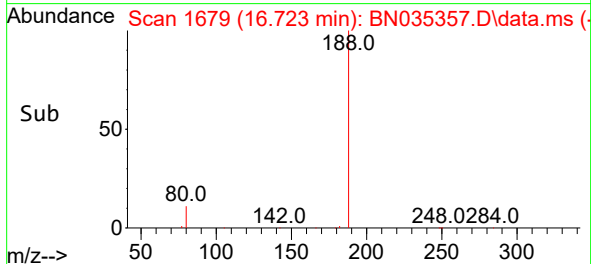
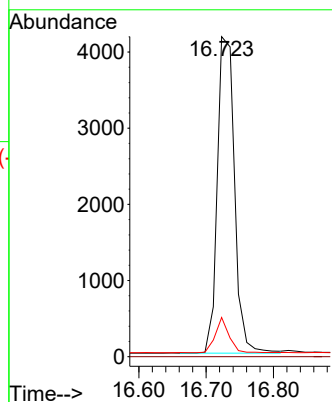
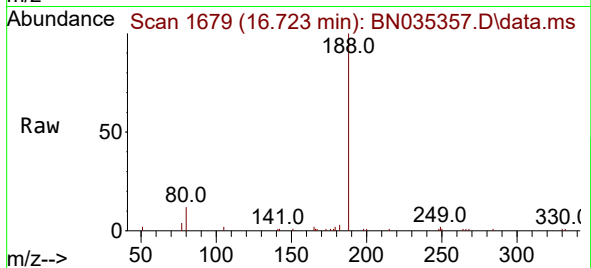
Tgt Ion:188 Resp: 7350

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

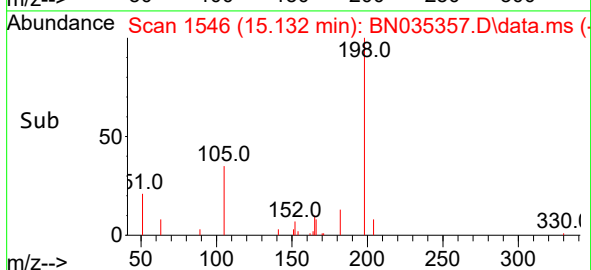
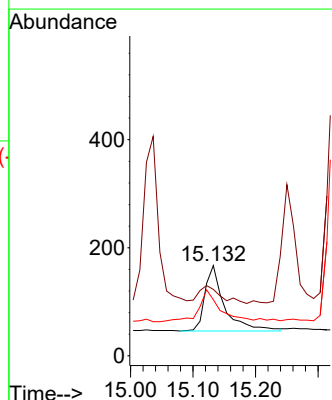
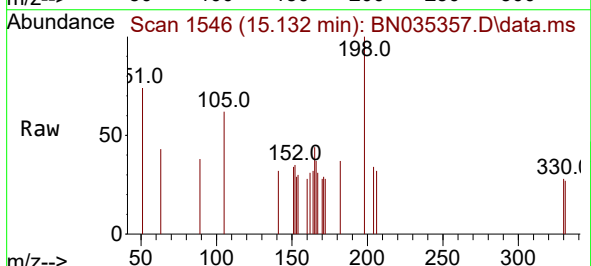
Tgt Ion:198 Resp: 263

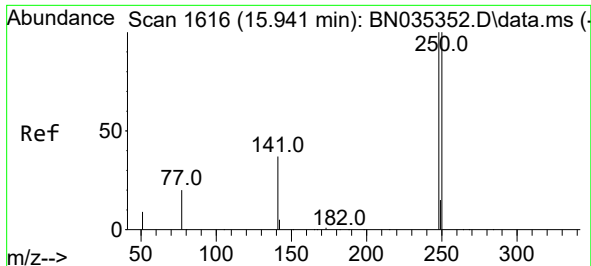
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9

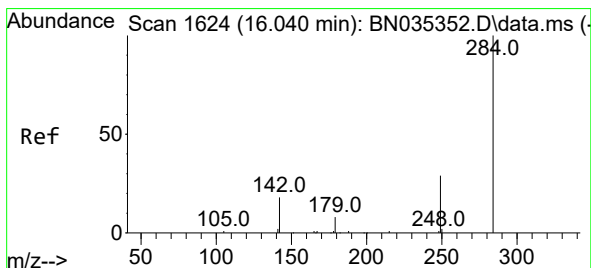
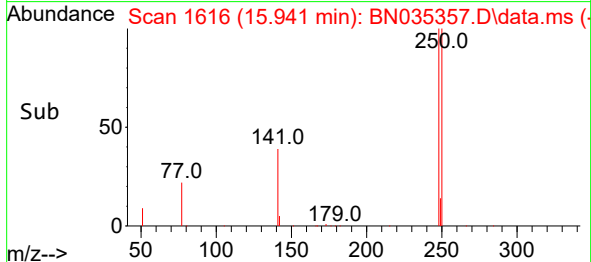
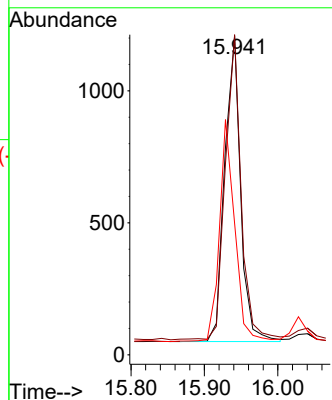
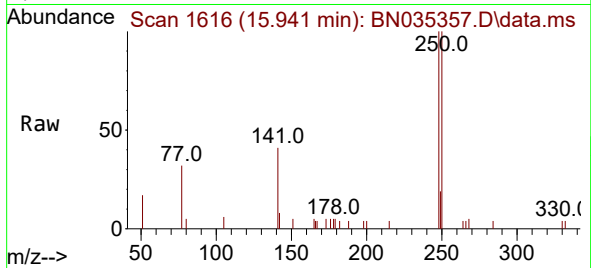




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

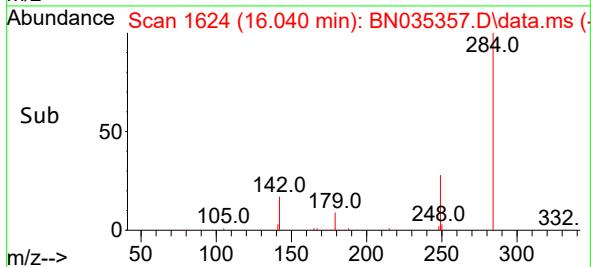
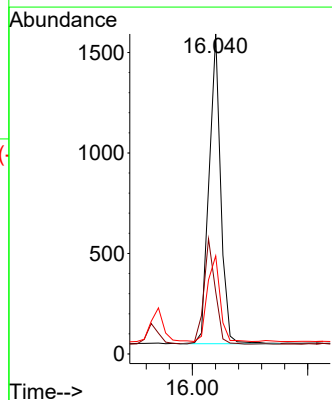
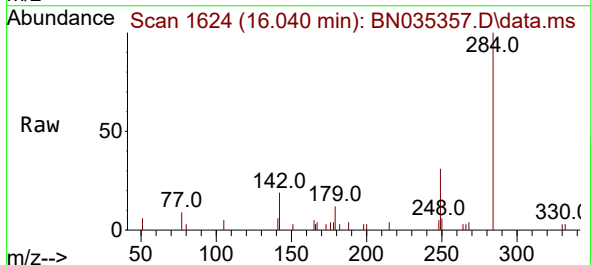
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

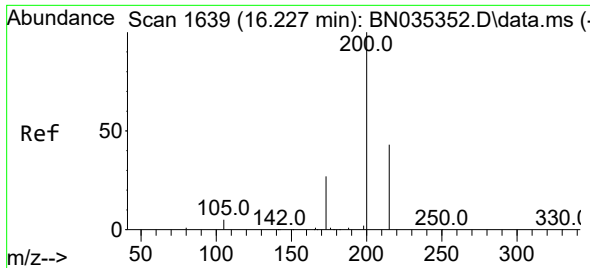
Tgt Ion:248 Resp: 1742
Ion Ratio Lower Upper
248 100
250 100.3 80.6 120.8
141 41.2 31.5 47.3



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151
Ion Ratio Lower Upper
284 100
142 33.5 26.7 40.1
249 30.0 24.6 36.8

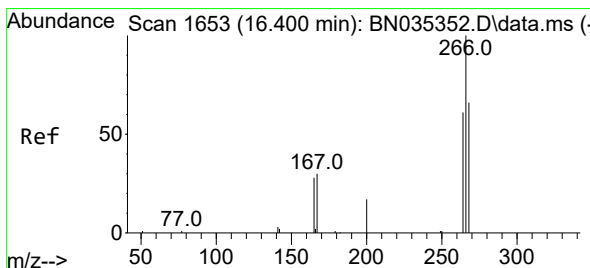
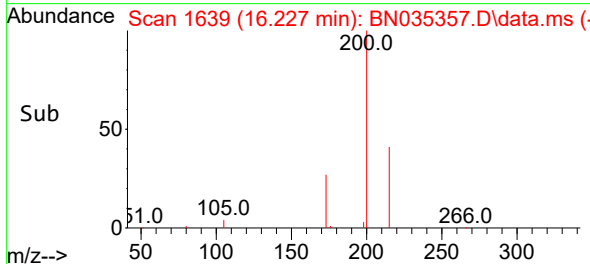
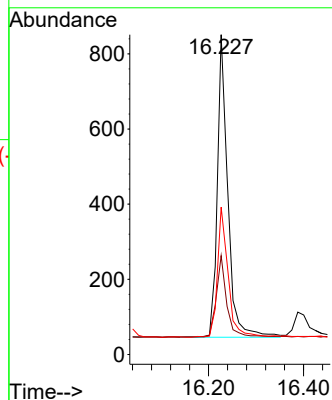
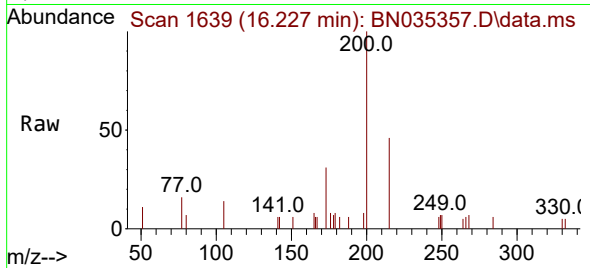




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

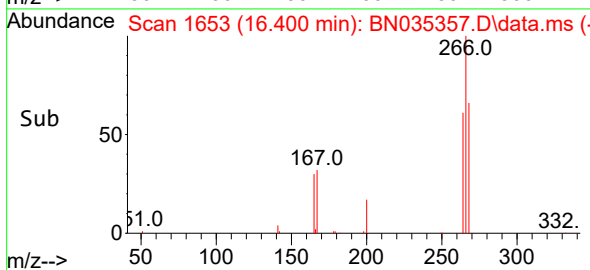
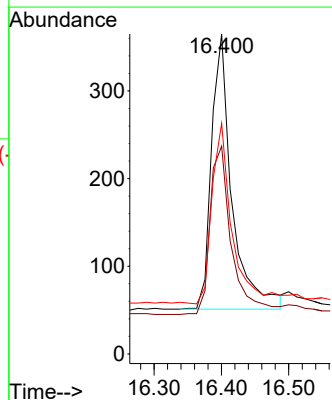
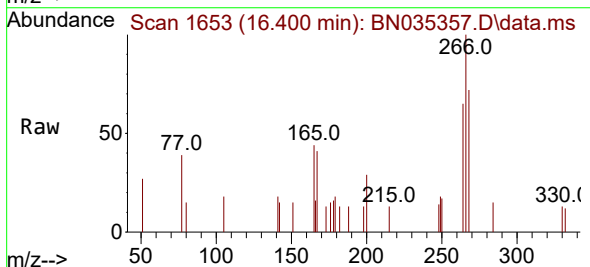
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

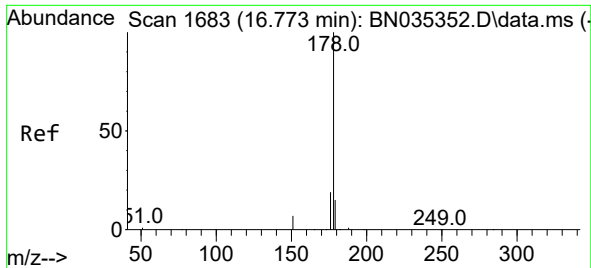
Tgt Ion:200 Resp: 1227
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 46.1 36.9 55.3



#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662
Ion Ratio Lower Upper
266 100
264 65.0 42.3 63.5#
268 66.8 43.3 64.9#

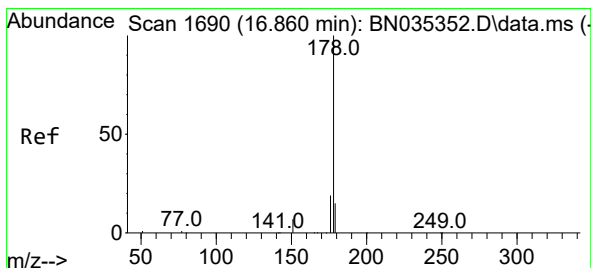
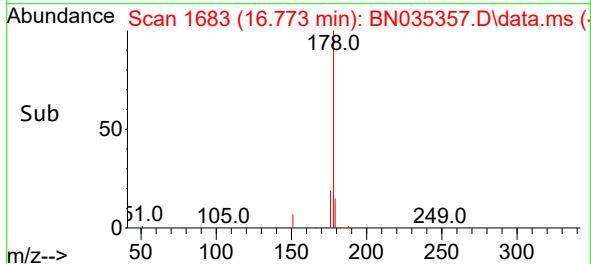
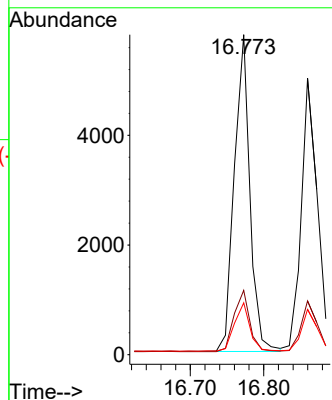
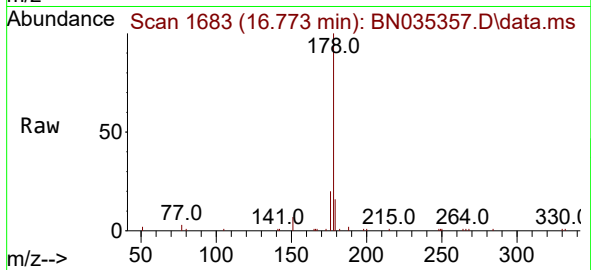




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

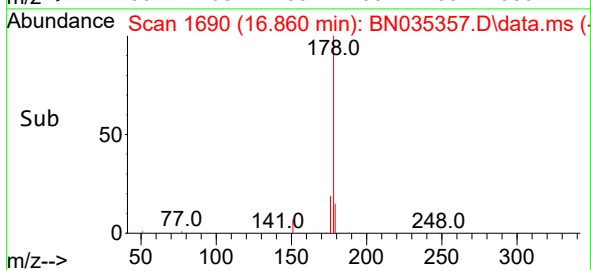
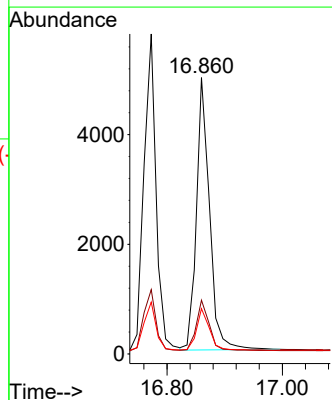
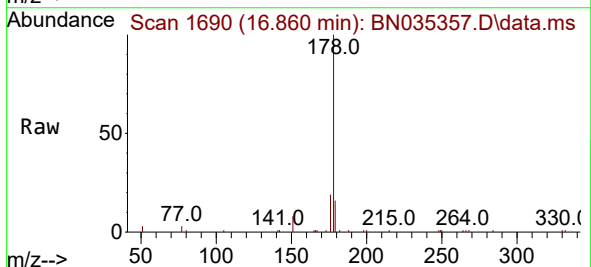
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

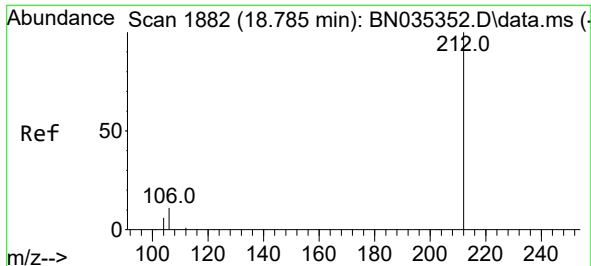
Tgt Ion:178 Resp: 8509
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8

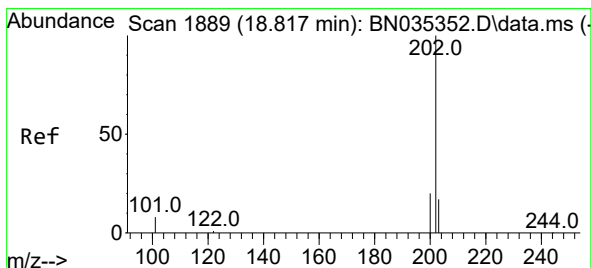
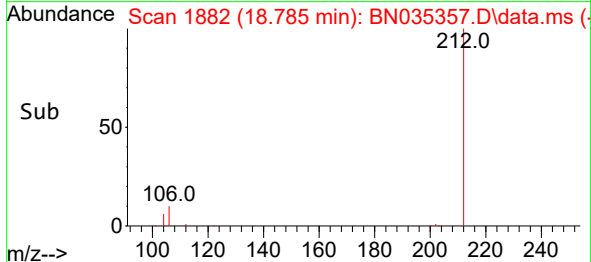
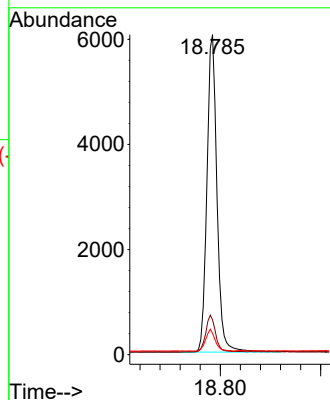
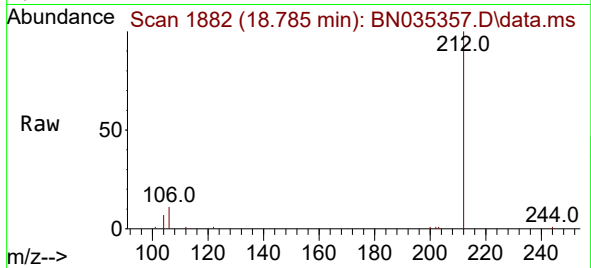




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

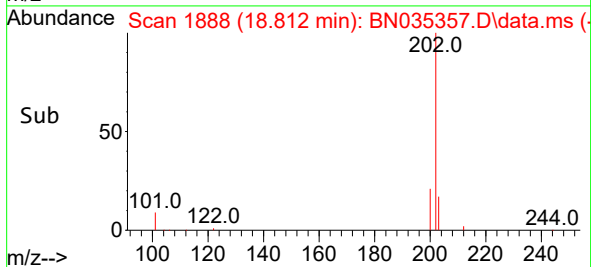
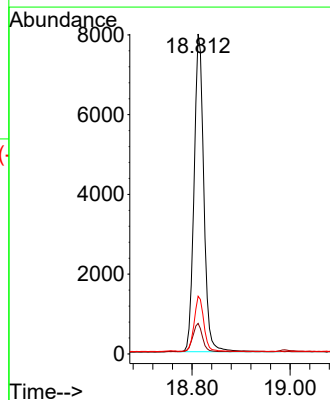
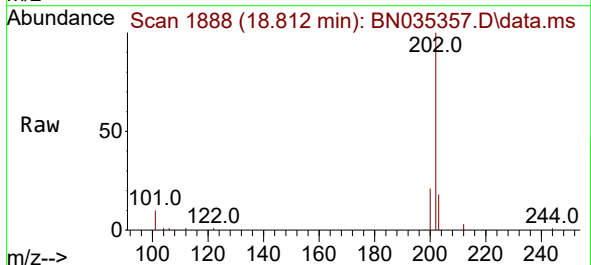
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

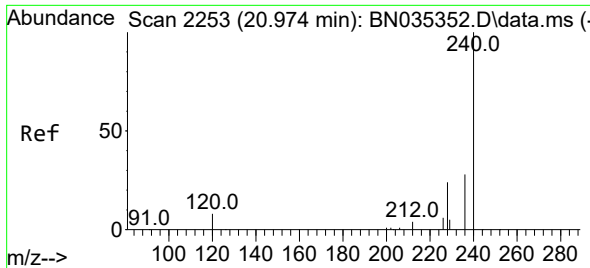
Tgt Ion:212 Resp: 8415
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.4 5.3 7.9



#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.1 13.7 20.5

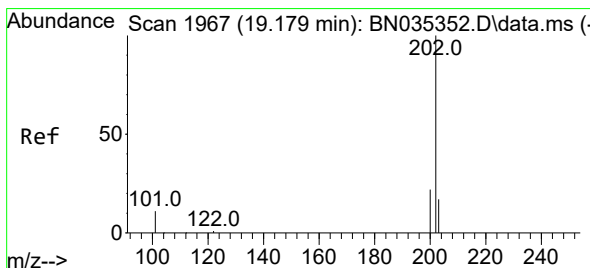
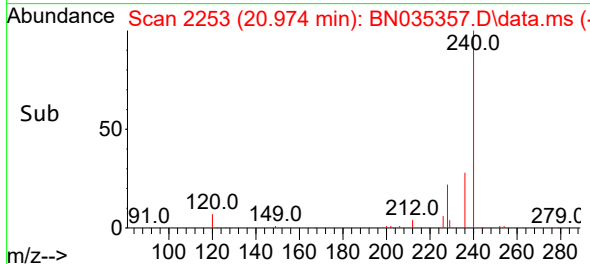
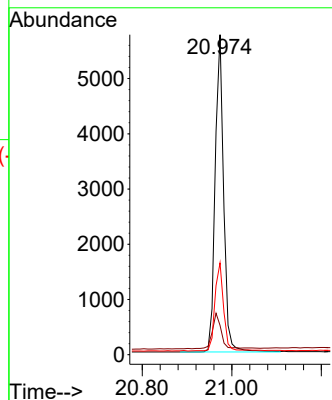
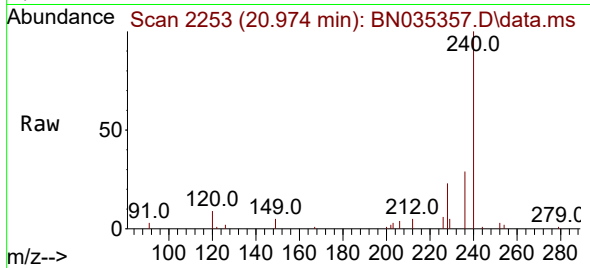




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

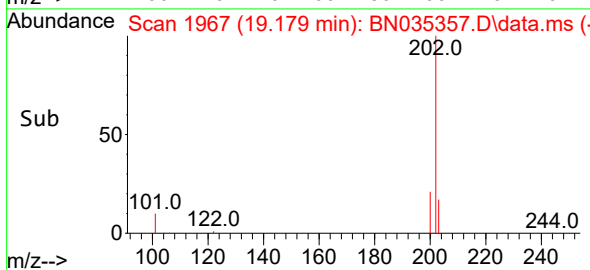
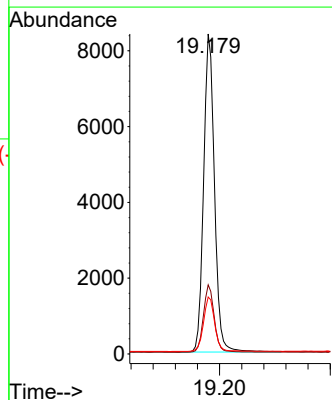
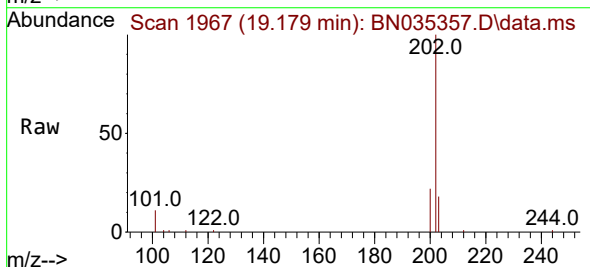
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

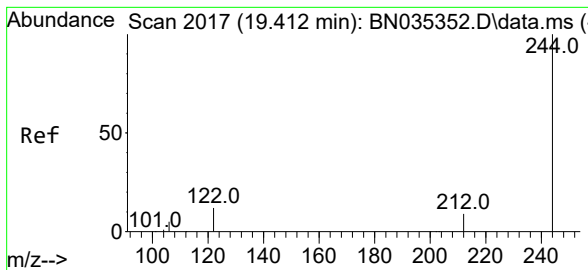
Tgt Ion:240 Resp: 7576
Ion Ratio Lower Upper
240 100
120 9.1 7.9 11.9
236 28.7 22.9 34.3



#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.420 ng

RT: 19.412 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

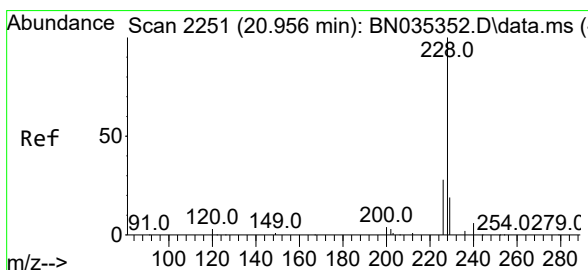
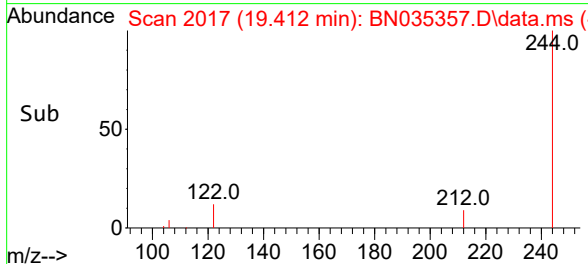
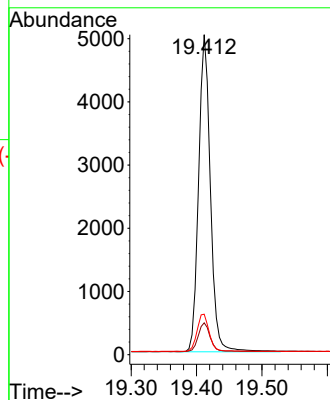
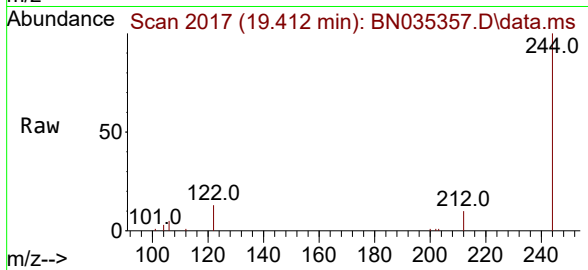
Tgt Ion:244 Resp: 6272

Ion Ratio Lower Upper

244 100

212 9.9 8.1 12.1

122 12.6 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.413 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

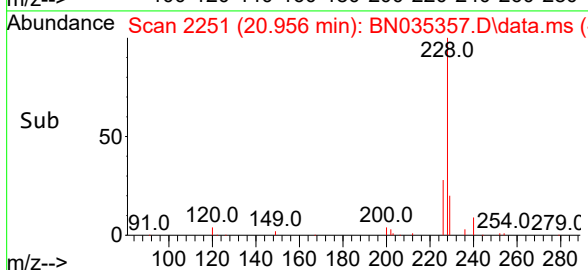
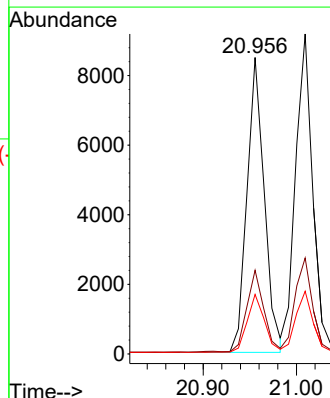
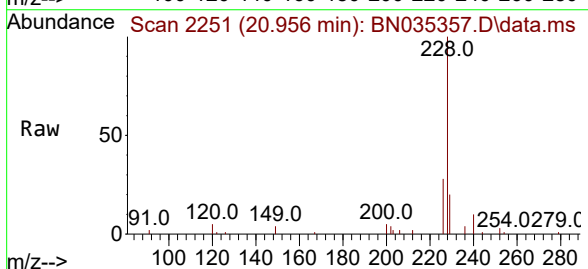
Tgt Ion:228 Resp: 10934

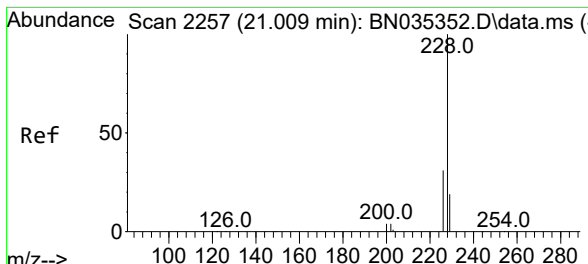
Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

229 20.1 15.8 23.8





#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

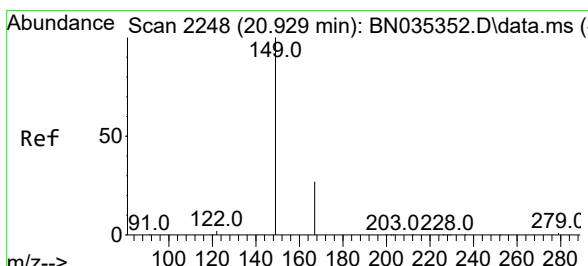
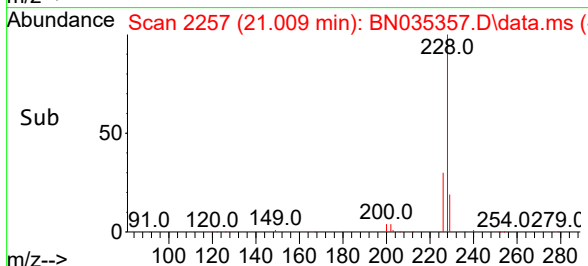
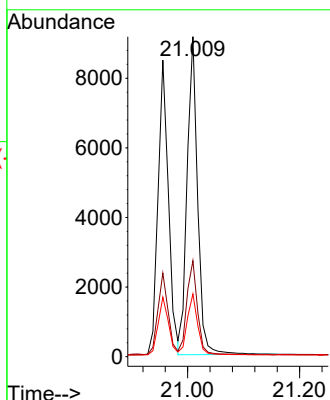
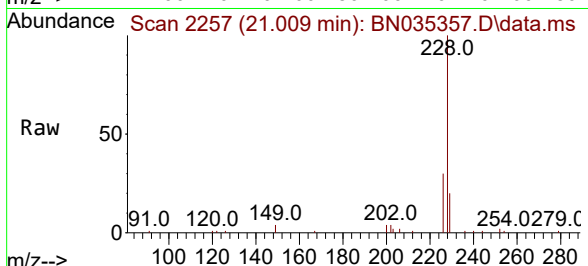
Tgt Ion:228 Resp: 11926

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

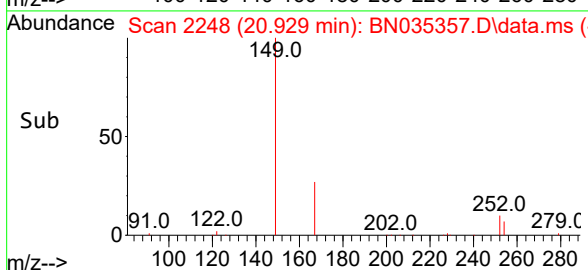
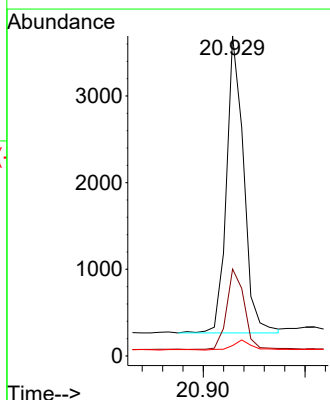
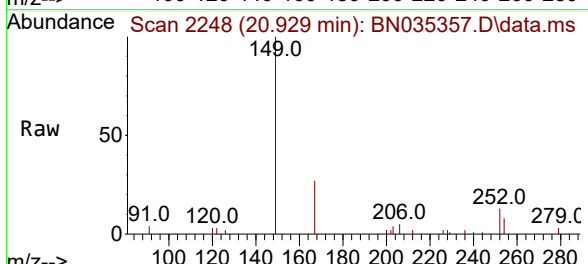
Tgt Ion:149 Resp: 4016

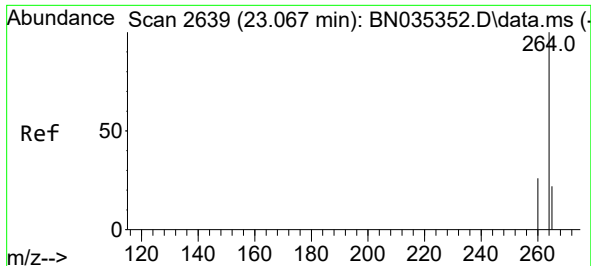
Ion Ratio Lower Upper

149 100

167 27.7 22.2 33.4

279 3.7 2.7 4.1



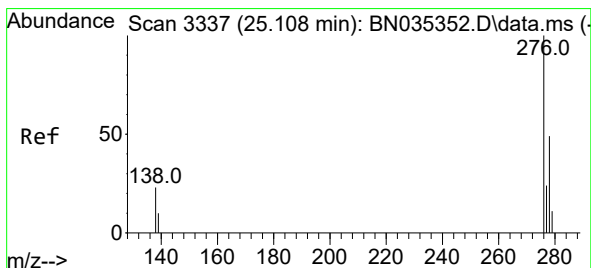
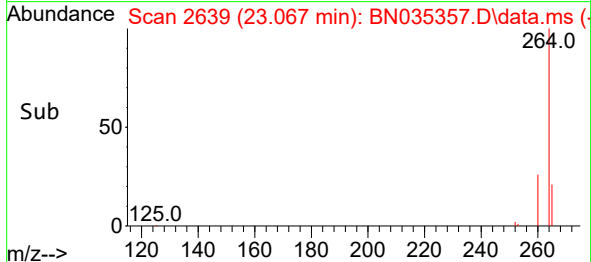
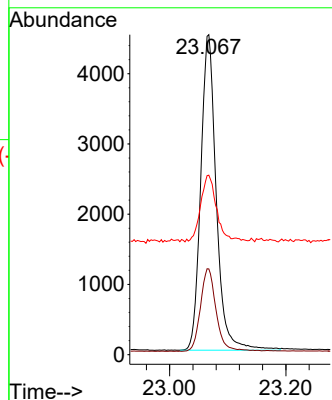
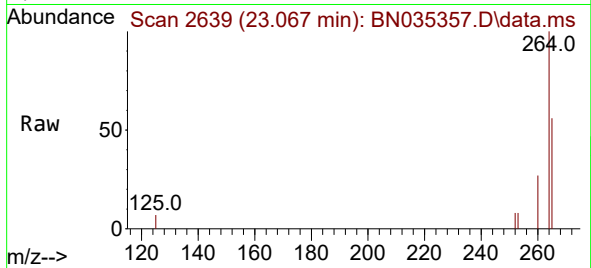


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

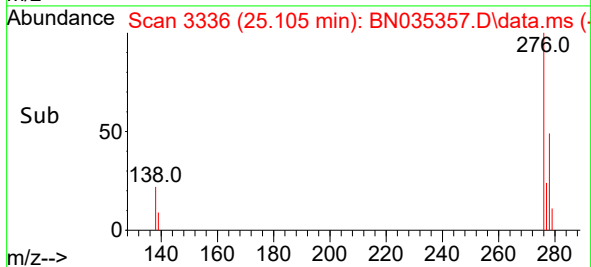
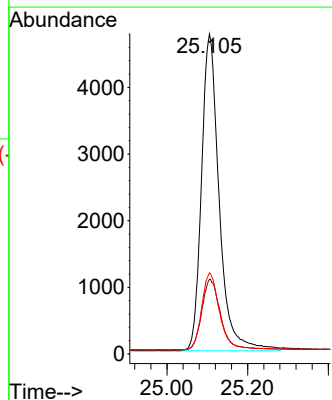
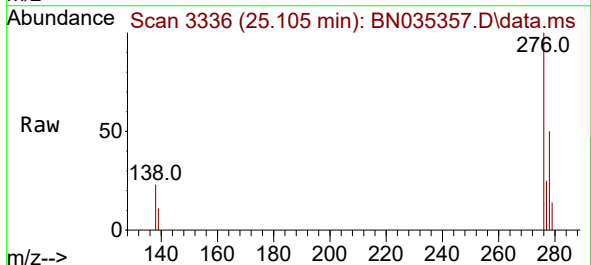
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

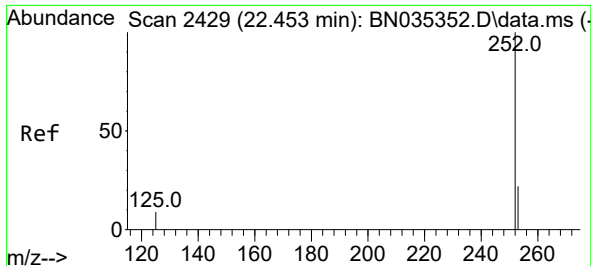


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

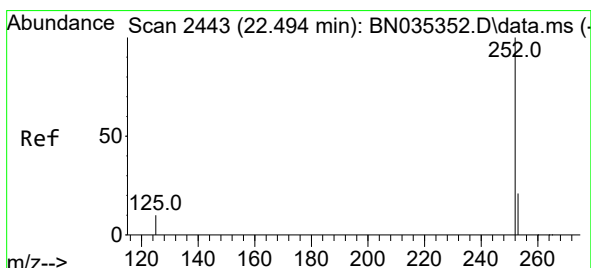
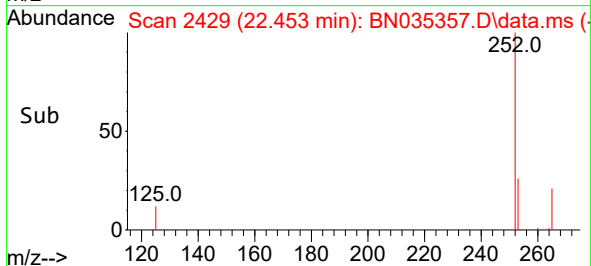
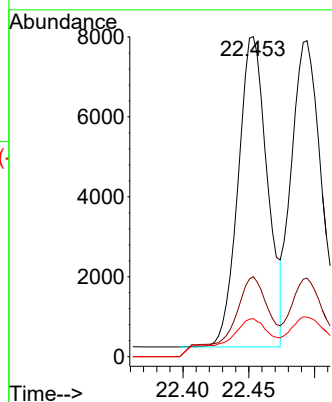
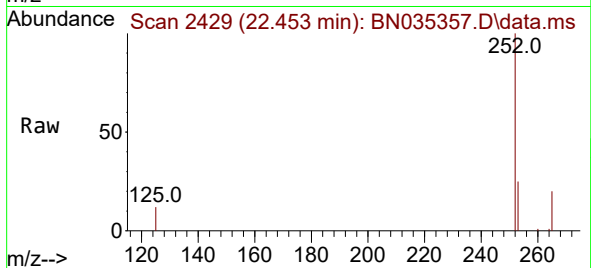
Tgt Ion:252 Resp: 12988

Ion Ratio Lower Upper

252 100

253 25.0 19.6 29.4

125 11.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.422 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

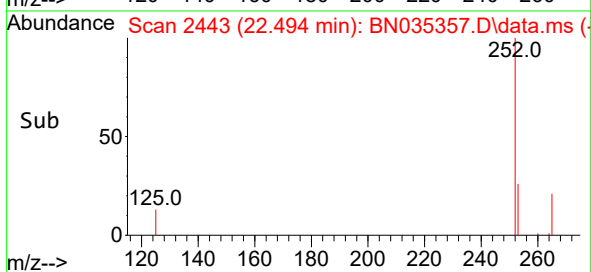
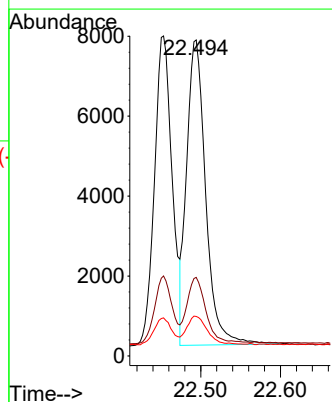
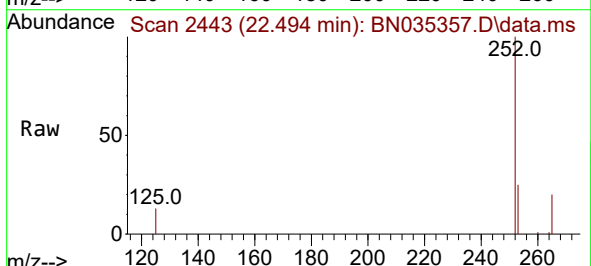
Tgt Ion:252 Resp: 12669

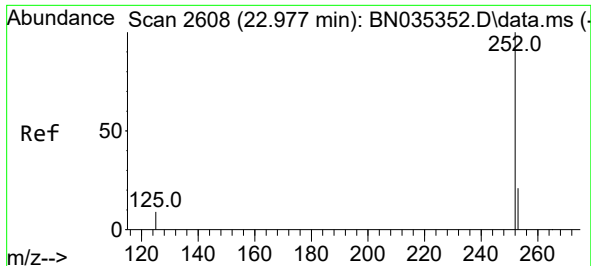
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.442 ng

RT: 22.974 min Scan# 2

Delta R.T. -0.003 min

Lab File: BN035357.D

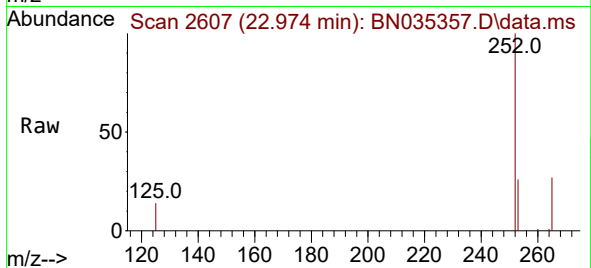
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



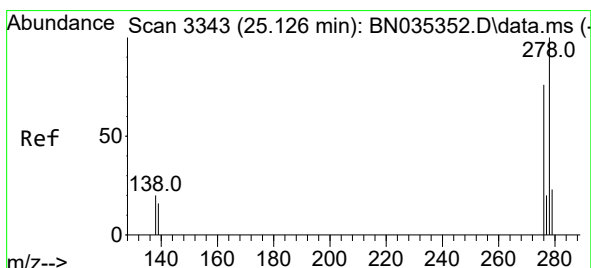
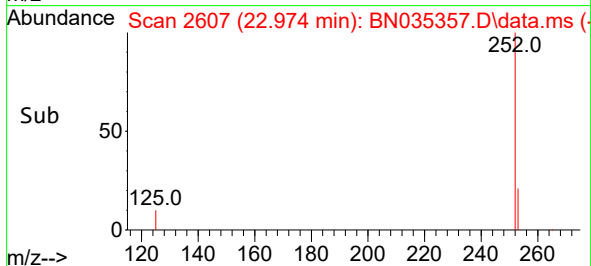
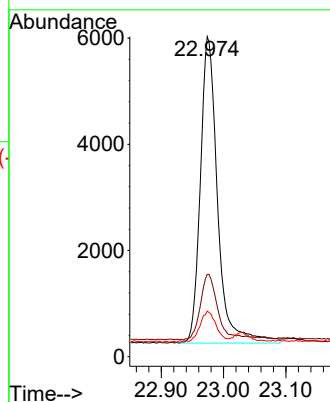
Tgt Ion:252 Resp: 11094

Ion Ratio Lower Upper

252 100

253 25.7 20.2 30.4

125 14.3 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.433 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

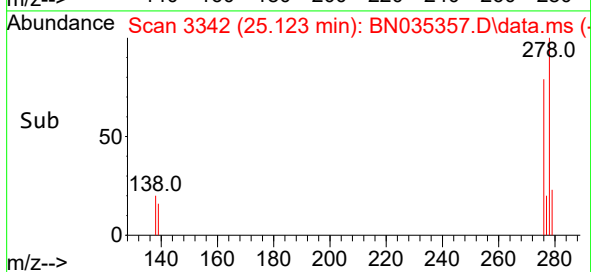
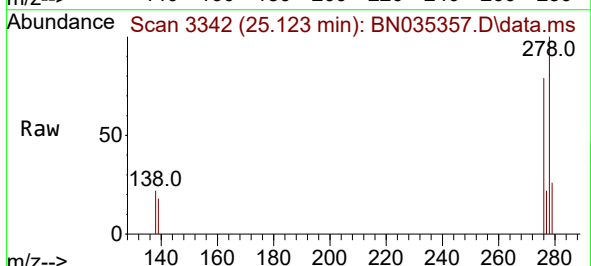
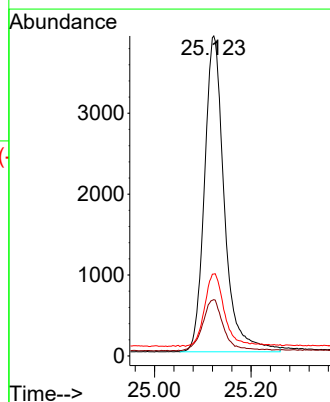
Tgt Ion:278 Resp: 11141

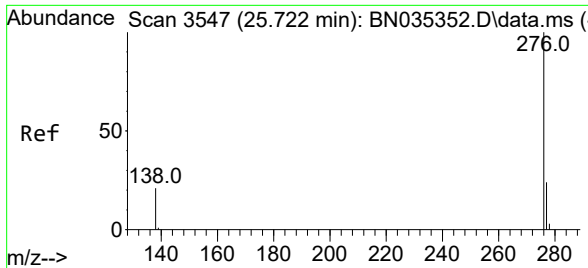
Ion Ratio Lower Upper

278 100

139 17.6 14.2 21.4

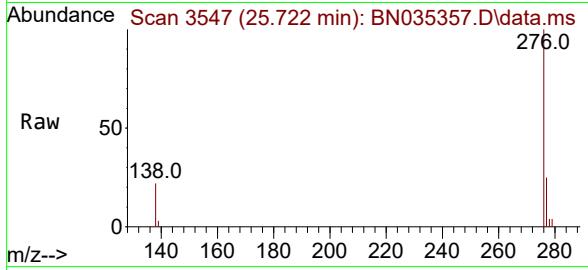
279 25.6 20.5 30.7



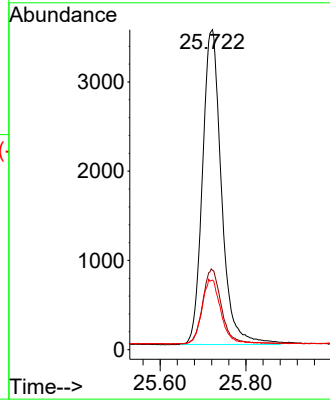
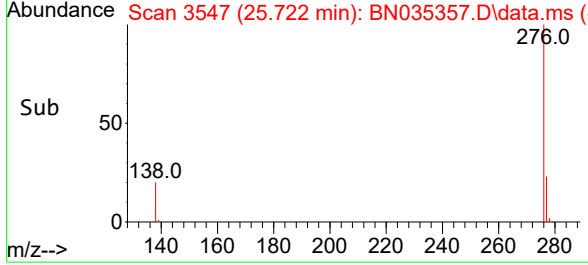


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:	276	Resp:	10870
Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035510.D
 Acq On : 09 Dec 2024 17:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

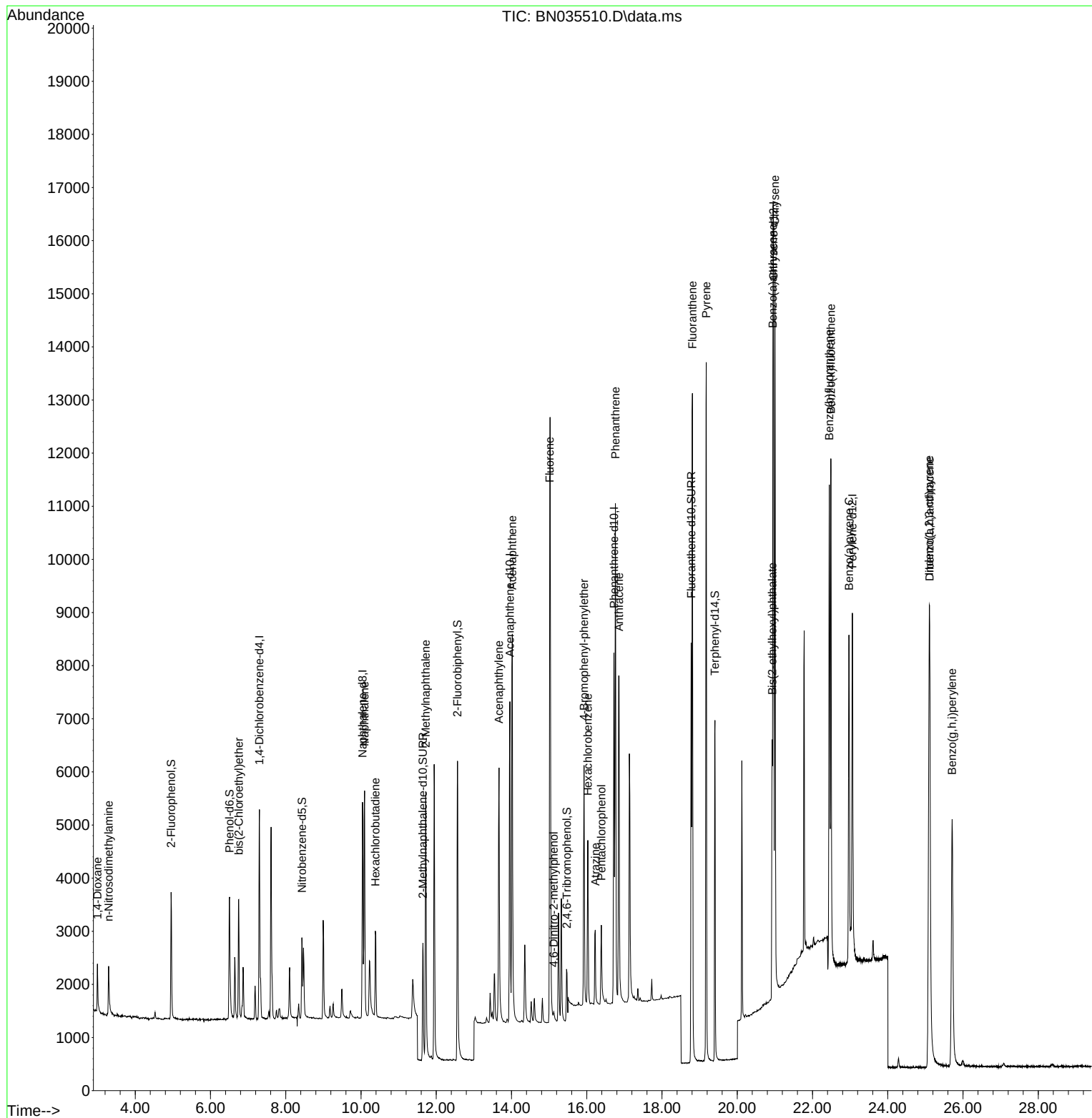
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1975	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	5582	0.400	ng	#-0.01
13) Acenaphthene-d10	13.956	164	4021	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9077	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	8166	0.400	ng	0.00
35) Perylene-d12	23.059	264	8385	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	2063	0.417	ng	-0.01
5) Phenol-d6	6.506	99	2615	0.440	ng	0.00
8) Nitrobenzene-d5	8.429	82	1610	0.472	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3499	0.401	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	1103	0.386	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	6086	0.400	ng	-0.01
27) Fluoranthene-d10	18.775	212	9358	0.364	ng	0.00
31) Terphenyl-d14	19.407	244	6666	0.414	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	717	0.380	ng	98
3) n-Nitrosodimethylamine	3.292	42	635	0.404	ng	# 98
6) bis(2-Chloroethyl)ether	6.752	93	1927	0.386	ng	98
9) Naphthalene	10.095	128	5725	0.389	ng	99
10) Hexachlorobutadiene	10.383	225	1406	0.414	ng	# 100
12) 2-Methylnaphthalene	11.722	142	4137	0.392	ng	99
16) Acenaphthylene	13.668	152	6383	0.378	ng	100
17) Acenaphthene	14.021	154	4360	0.389	ng	99
18) Fluorene	15.015	166	6050	0.377	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	175	0.196	ng	# 56
21) 4-Bromophenyl-phenylether	15.929	248	2075	0.391	ng	# 90
22) Hexachlorobenzene	16.028	284	2587	0.415	ng	99
23) Atrazine	16.227	200	1463	0.387	ng	94
24) Pentachlorophenol	16.388	266	925	0.341	ng	86
25) Phenanthrene	16.760	178	9661	0.387	ng	100
26) Anthracene	16.860	178	8433	0.374	ng	100
28) Fluoranthene	18.808	202	12158	0.362	ng	99
30) Pyrene	19.175	202	12397	0.411	ng	100
32) Benzo(a)anthracene	20.947	228	10365	0.363	ng	99
33) Chrysene	21.000	228	11620	0.394	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4418	0.392	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	12024	0.367	ng	97
37) Benzo(b)fluoranthene	22.447	252	13501	0.440	ng	98
38) Benzo(k)fluoranthene	22.488	252	11908	0.394	ng	99
39) Benzo(a)pyrene	22.968	252	9314	0.369	ng	97
40) Dibenzo(a,h)anthracene	25.114	278	9233	0.357	ng	97
41) Benzo(g,h,i)perylene	25.710	276	9987	0.369	ng	97

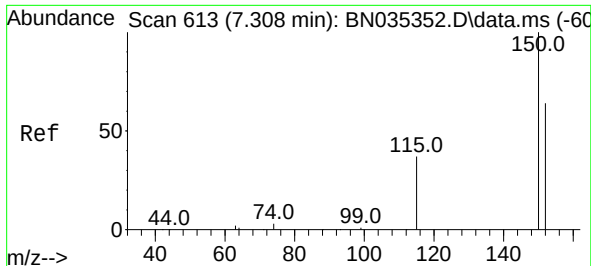
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTCCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

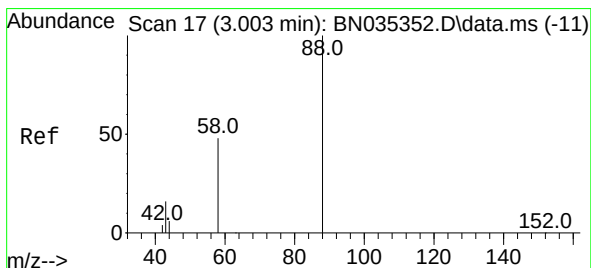
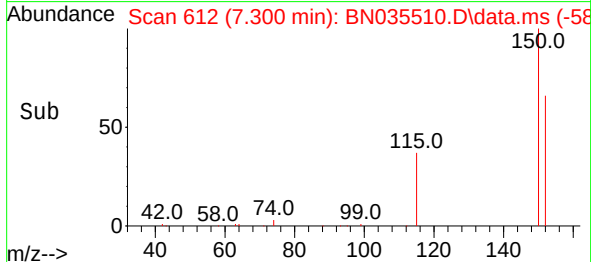
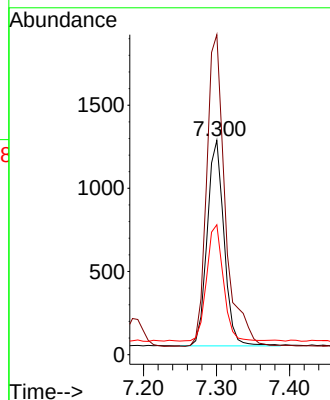
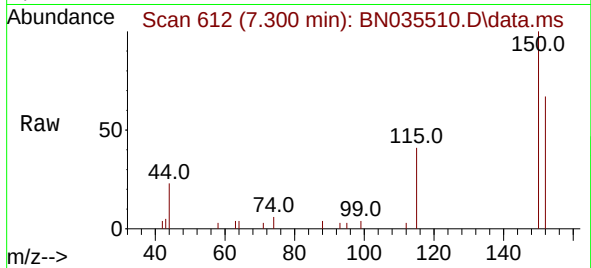




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.300 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

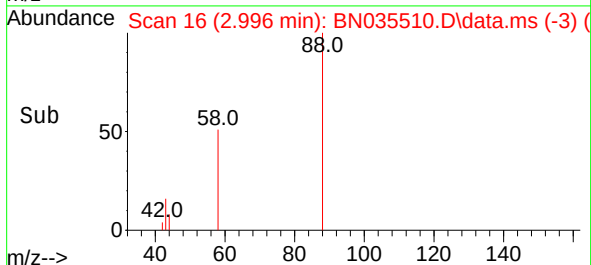
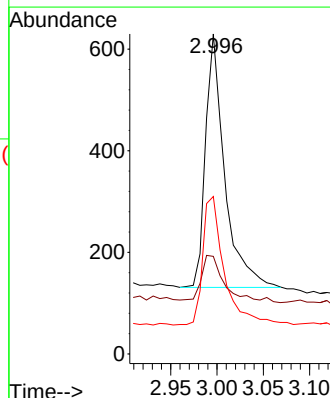
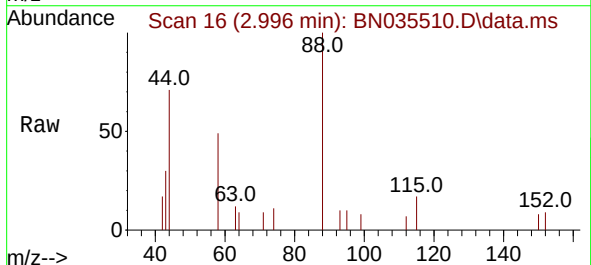
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

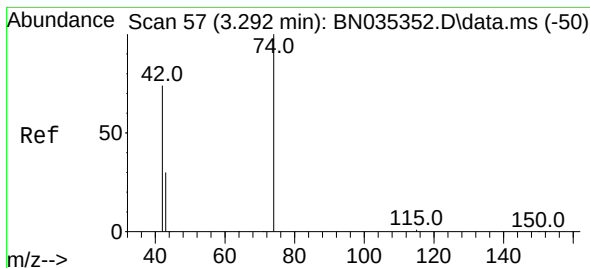
Tgt Ion:152 Resp: 1975
 Ion Ratio Lower Upper
 152 100
 150 149.4 124.0 186.0
 115 60.6 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.380 ng
 RT: 2.996 min Scan# 16
 Delta R.T. -0.007 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

Tgt Ion: 88 Resp: 717
 Ion Ratio Lower Upper
 88 100
 43 23.3 17.2 25.8
 58 56.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.404 ng

RT: 3.292 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

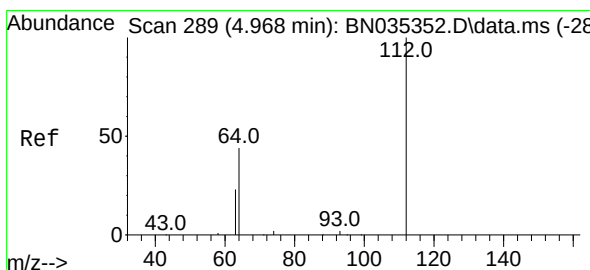
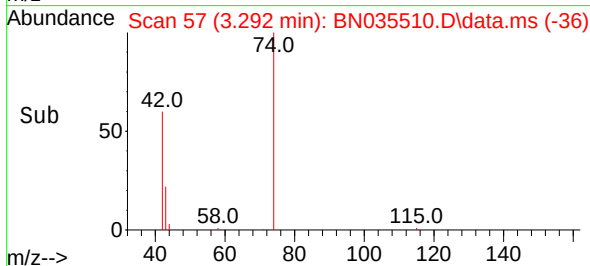
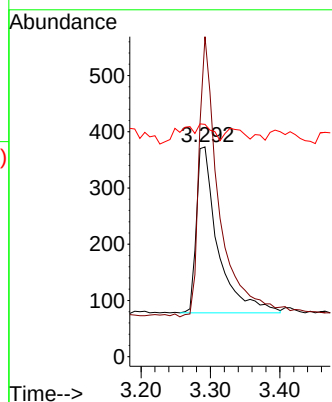
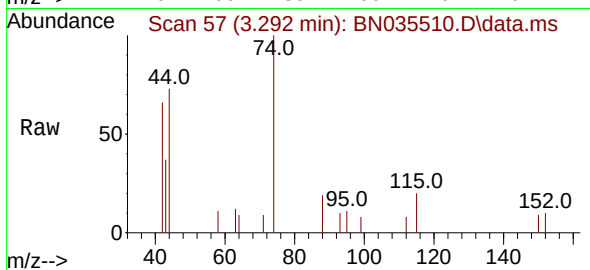
Tgt Ion: 42 Resp: 635

Ion Ratio Lower Upper

42 100

74 159.1 124.9 187.3

44 6.5 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.417 ng

RT: 4.953 min Scan# 287

Delta R.T. -0.015 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

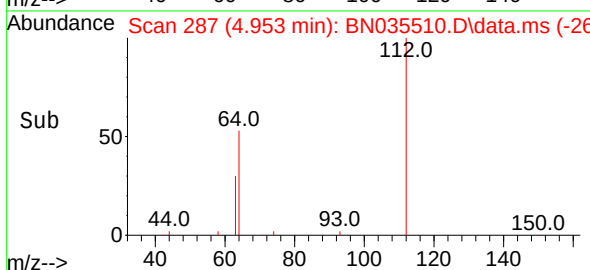
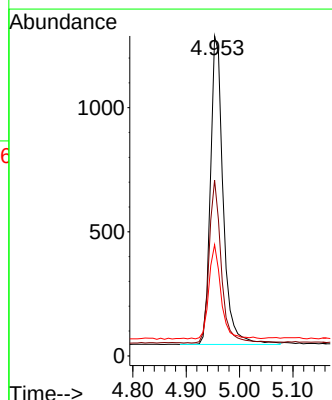
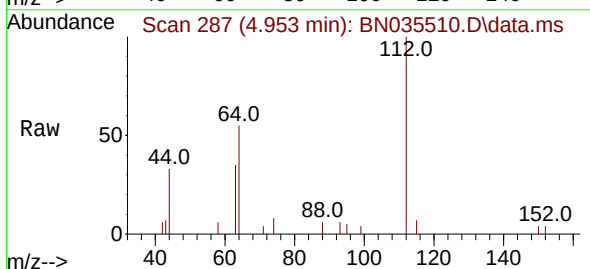
Tgt Ion: 112 Resp: 2063

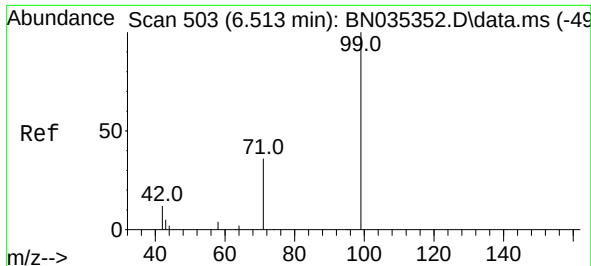
Ion Ratio Lower Upper

112 100

64 50.6 39.8 59.8

63 28.9 21.0 31.6

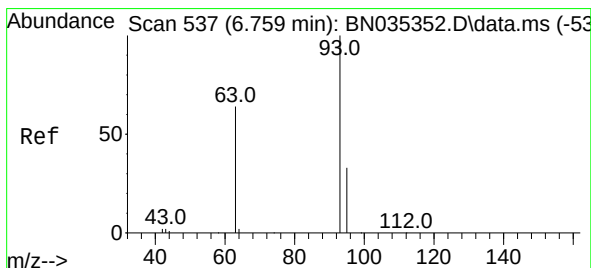
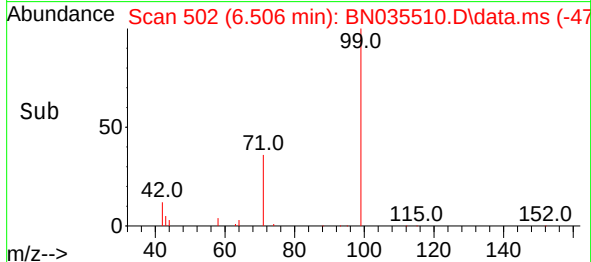
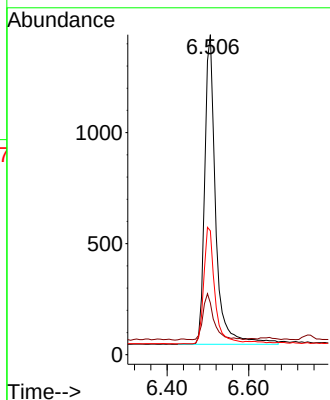
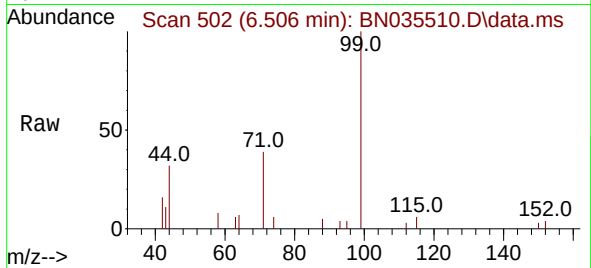




#5
Phenol-d6
Concen: 0.440 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

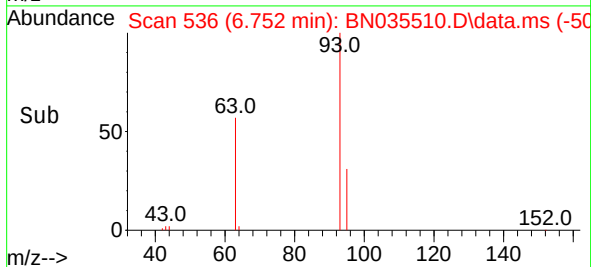
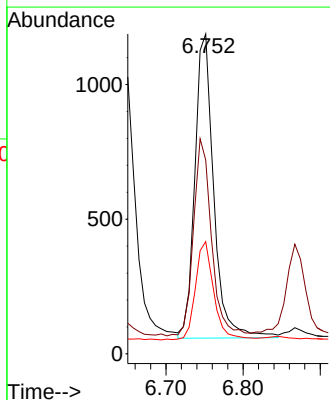
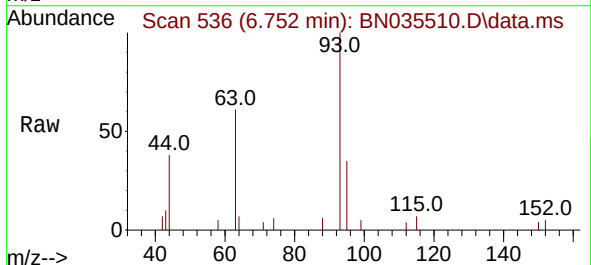
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

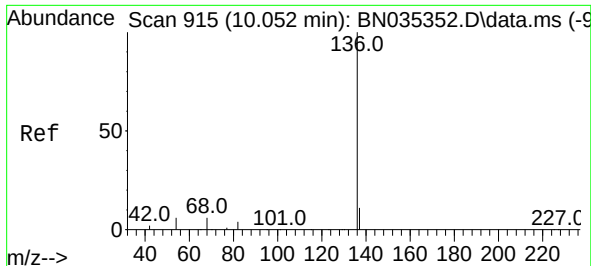
Tgt Ion: 99 Resp: 2615
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.2
71 37.6 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 93 Resp: 1927
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.4 25.7 38.5

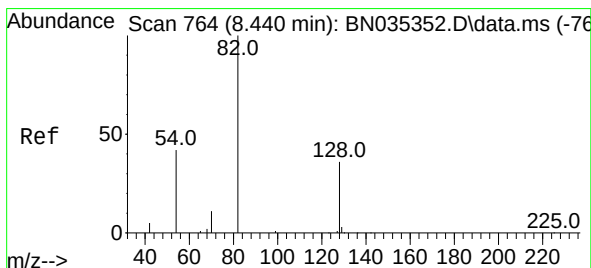
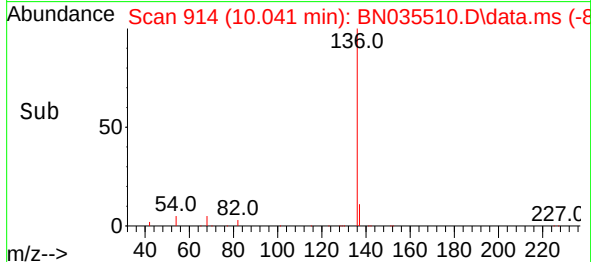
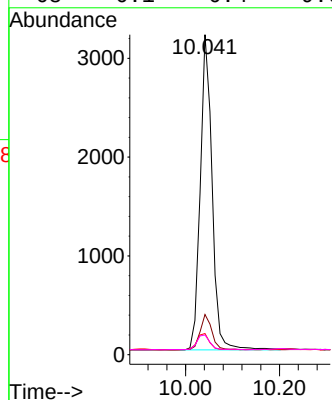
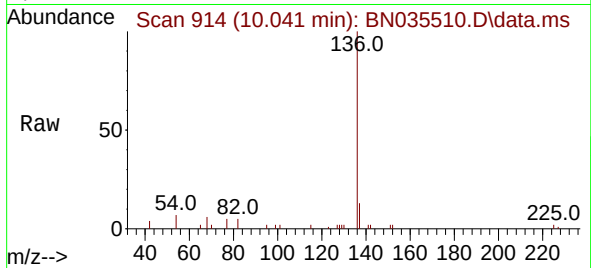




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

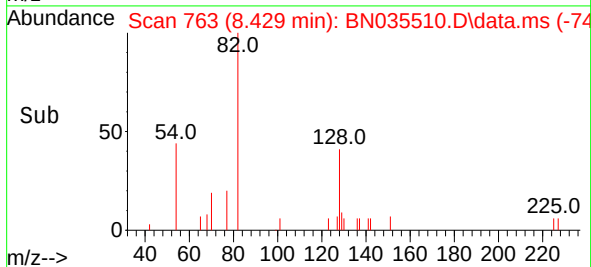
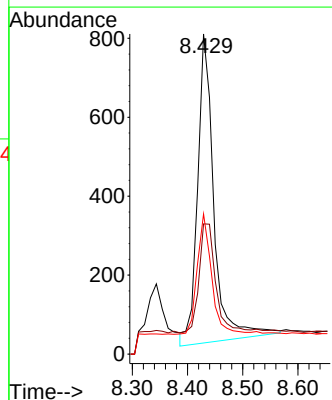
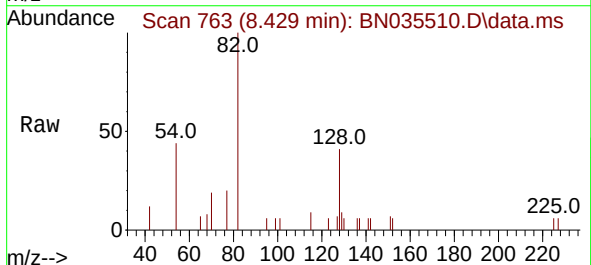
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

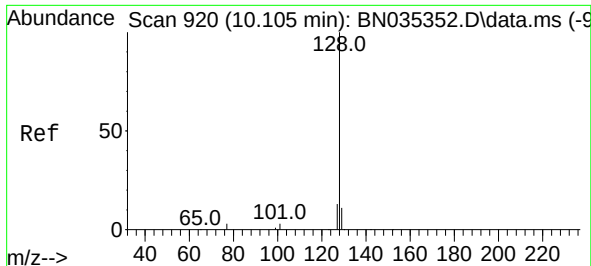
Tgt Ion:	136	Resp:	5582
Ion Ratio	Lower	Upper	
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.1	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.472 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:	82	Resp:	1610
Ion Ratio	Lower	Upper	
82	100		
128	40.7	33.4	50.0
54	43.8	36.7	55.1

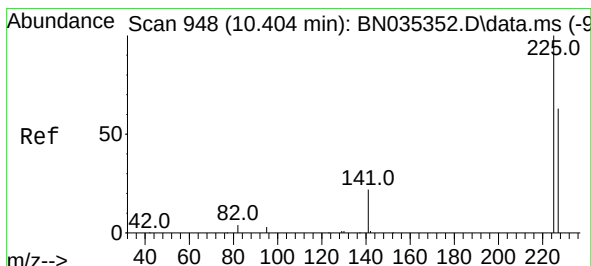
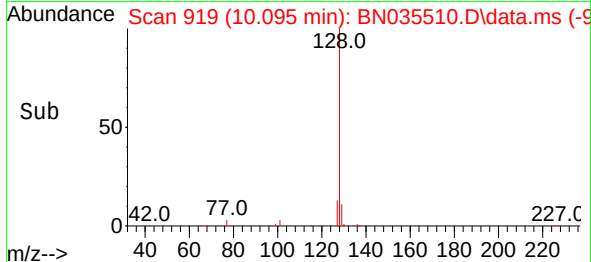
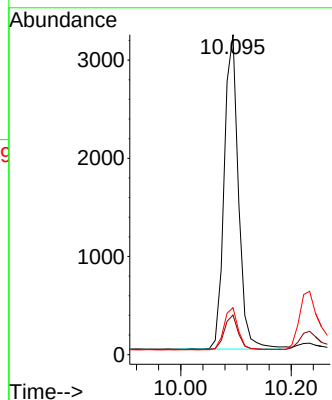
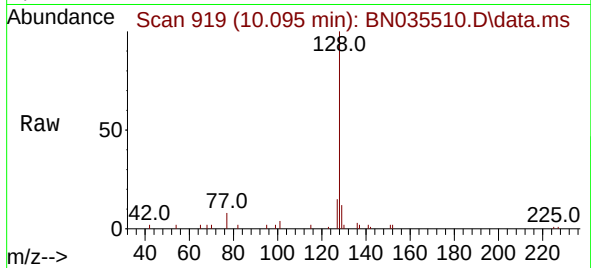




#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

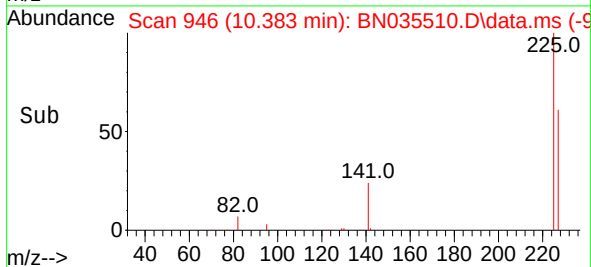
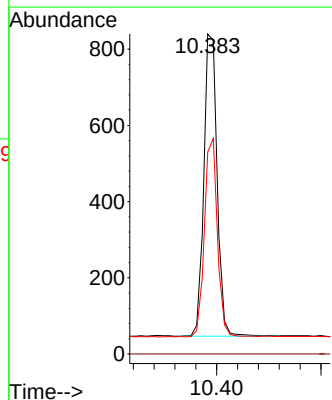
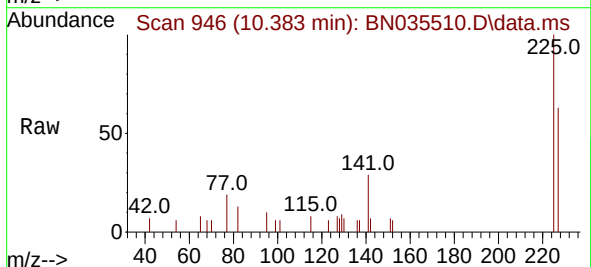
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

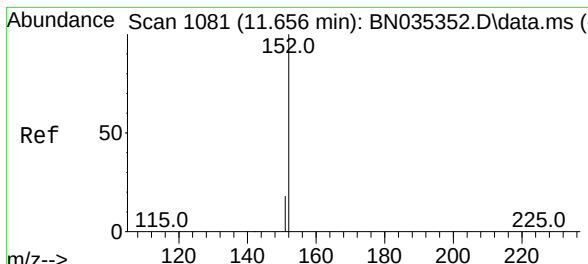
Tgt Ion:128 Resp: 5725
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.7 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:225 Resp: 1406
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9



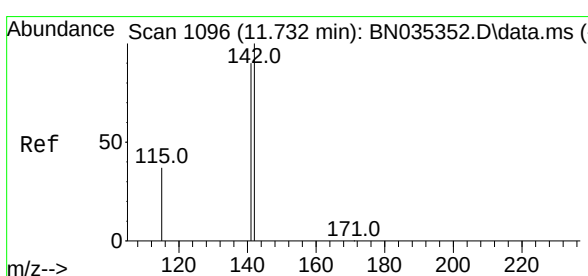
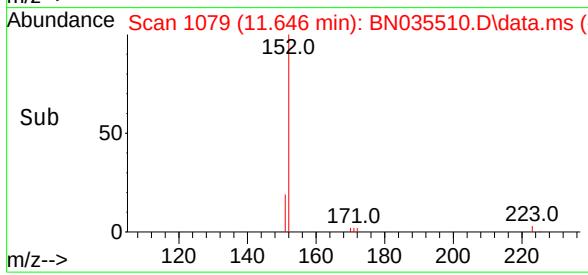
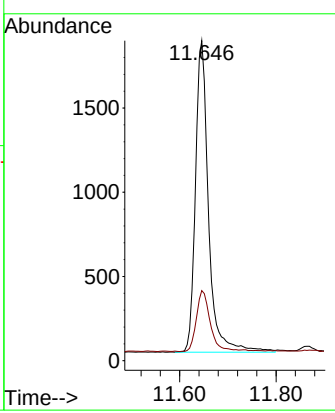
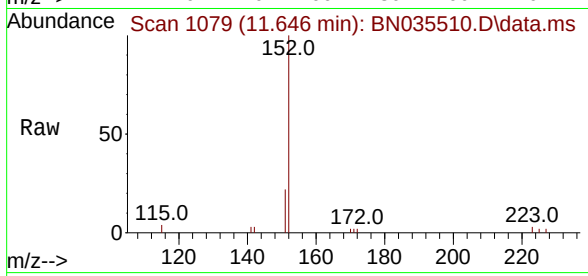


#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3499

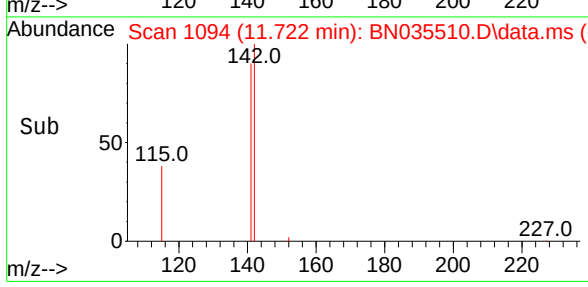
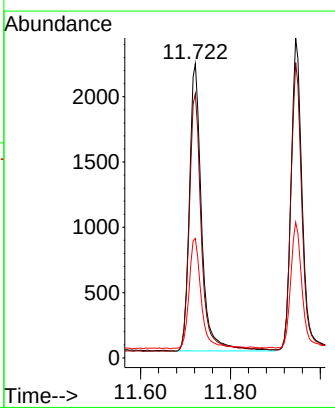
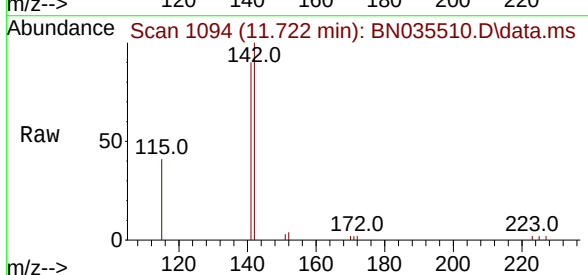
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

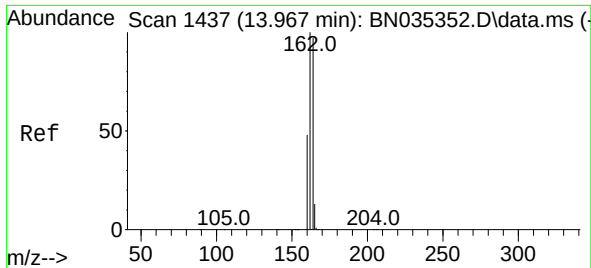


#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:142 Resp: 4137

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.6	31.4	47.0

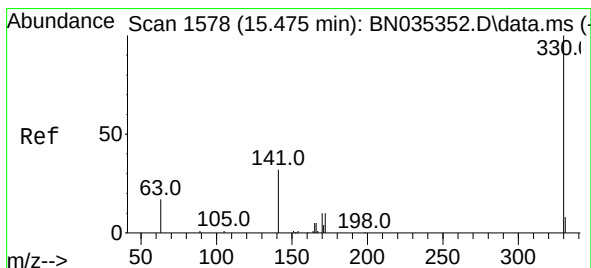
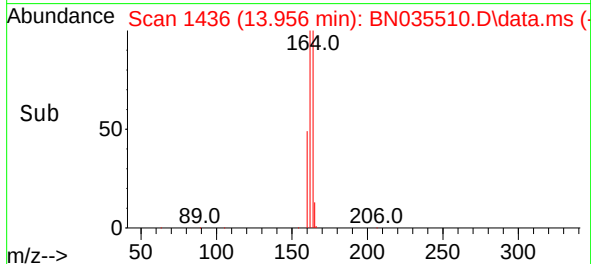
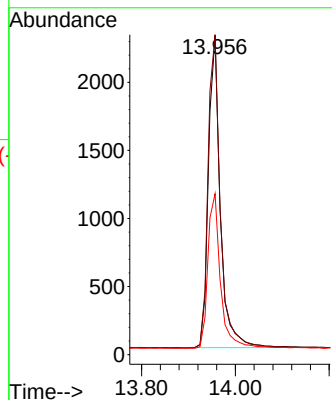
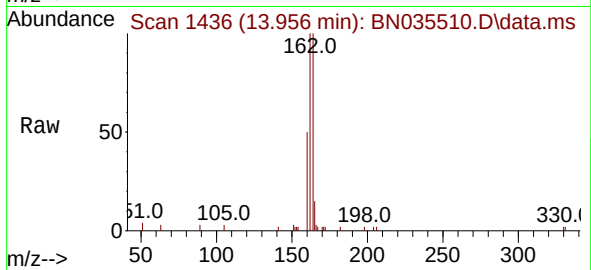




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

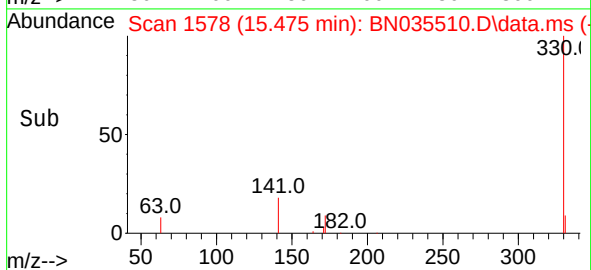
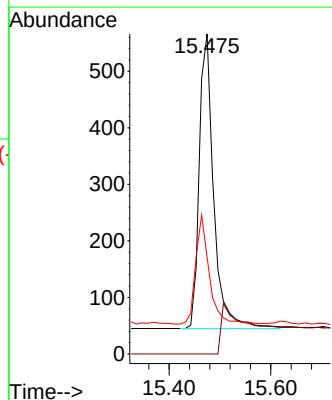
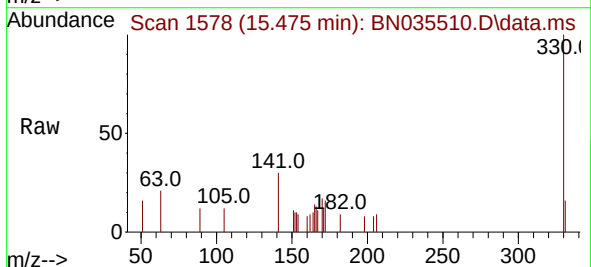
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

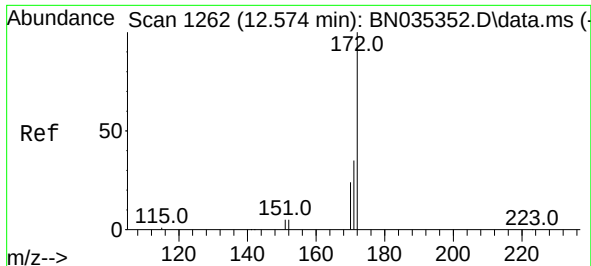
Tgt Ion:164 Resp: 4021
Ion Ratio Lower Upper
164 100
162 100.5 82.2 123.2
160 50.5 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:330 Resp: 1103
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.400 ng

RT: 12.564 min Scan# 1409

Delta R.T. -0.010 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

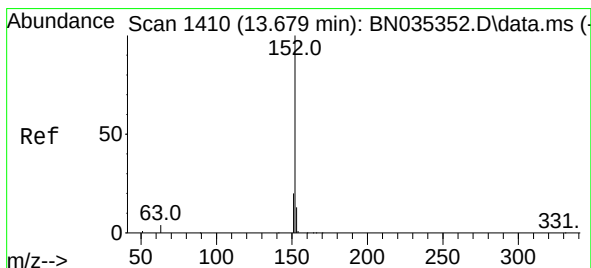
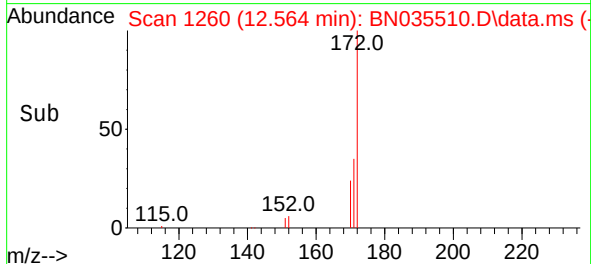
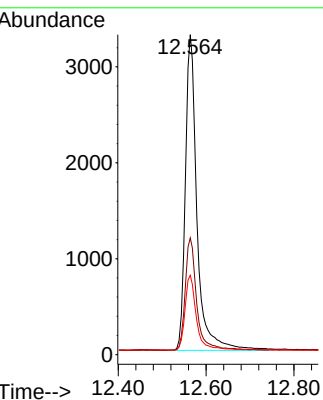
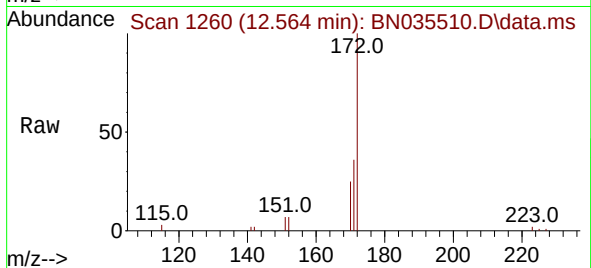
Tgt Ion:172 Resp: 6086

Ion Ratio Lower Upper

172 100

171 36.5 29.0 43.4

170 24.8 19.8 29.8



#16

Acenaphthylene

Concen: 0.378 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

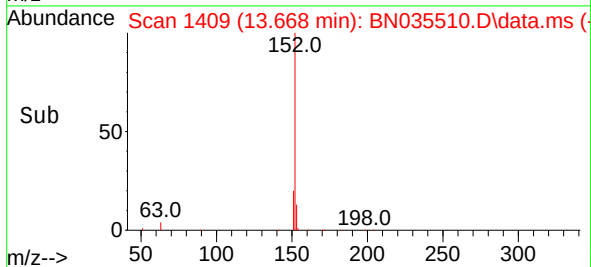
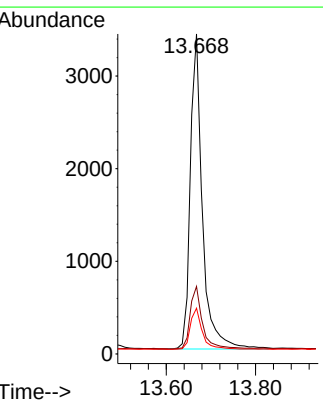
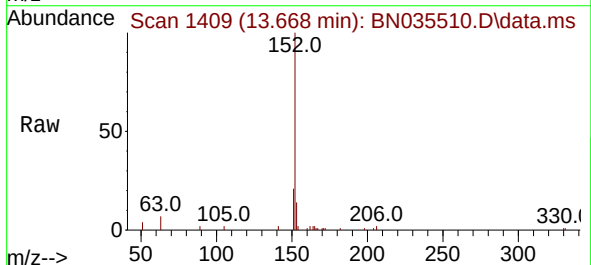
Tgt Ion:152 Resp: 6383

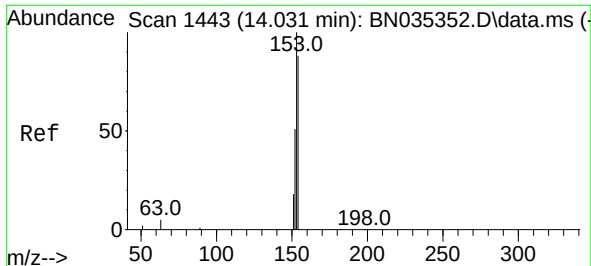
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.2

153 13.3 10.4 15.6

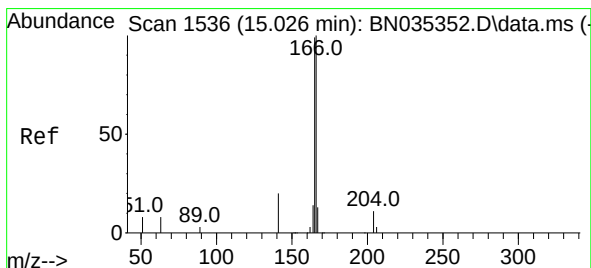
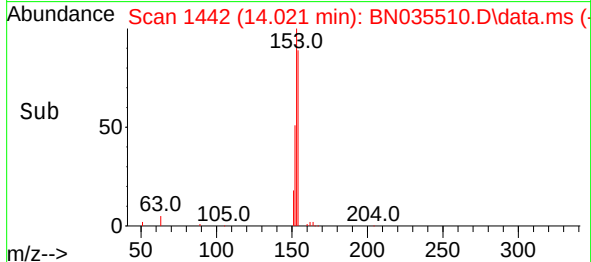
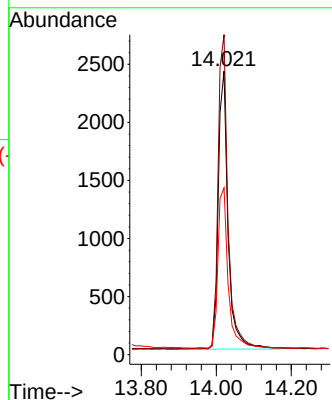
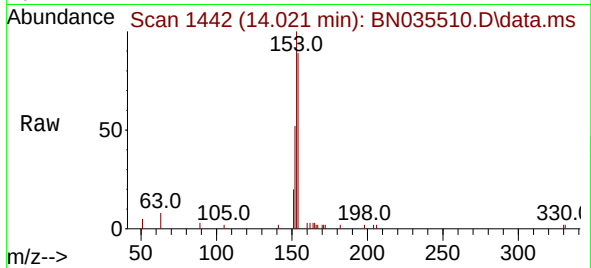




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

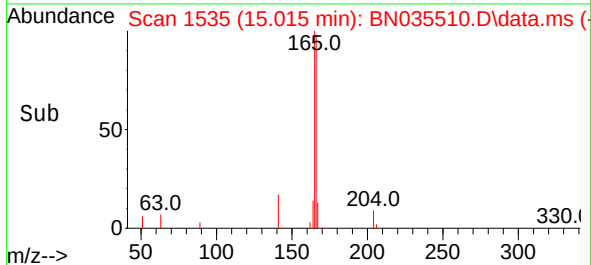
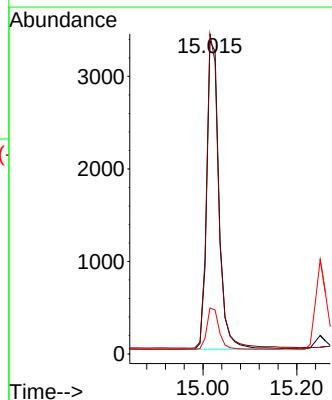
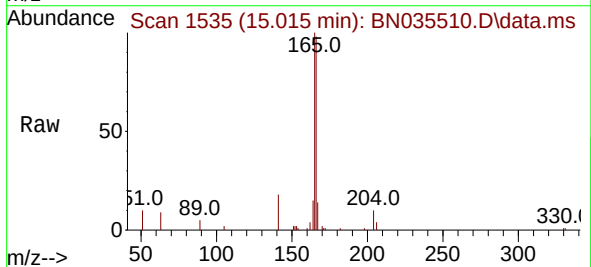
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

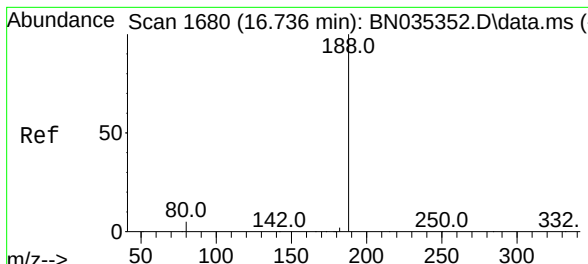
Tgt Ion:154 Resp: 4360
Ion Ratio Lower Upper
154 100
153 114.5 92.6 139.0
152 60.1 49.0 73.6



#18
Fluorene
Concen: 0.377 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:166 Resp: 6050
Ion Ratio Lower Upper
166 100
165 99.4 79.7 119.5
167 13.6 10.8 16.2



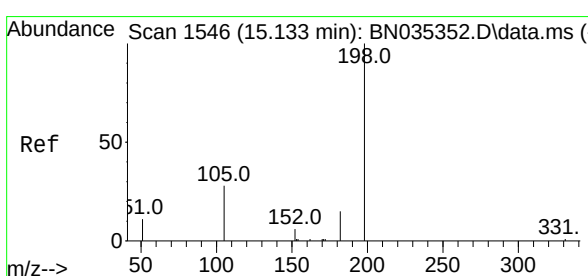
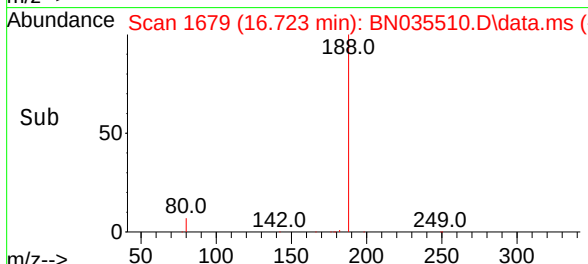
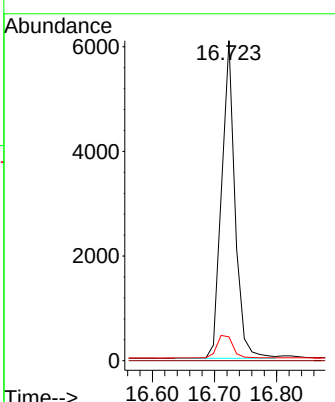
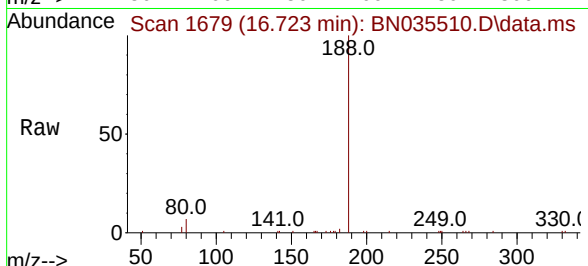


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 1679
 Delta R.T. -0.012 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:188 Resp: 9077

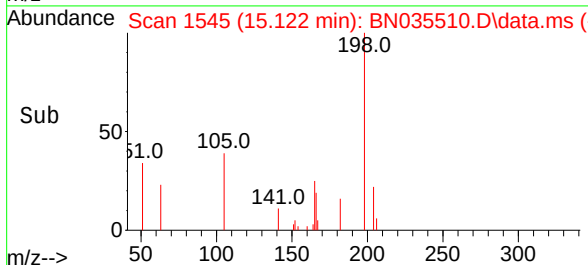
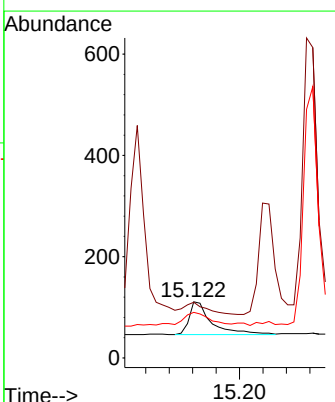
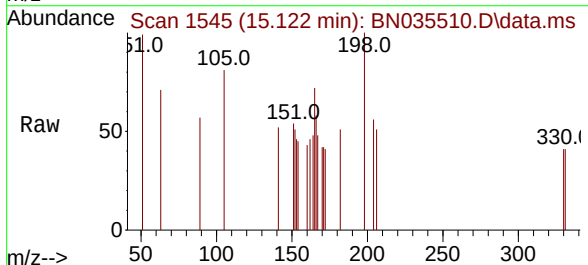
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.6	6.8

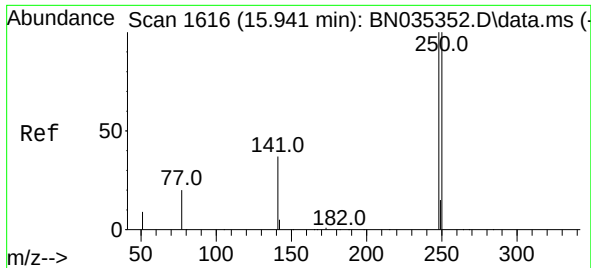


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.196 ng
 RT: 15.122 min Scan# 1545
 Delta R.T. -0.011 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

Tgt Ion:198 Resp: 175

Ion	Ratio	Lower	Upper
198	100		
51	99.1	46.5	69.7
105	81.1	45.3	67.9

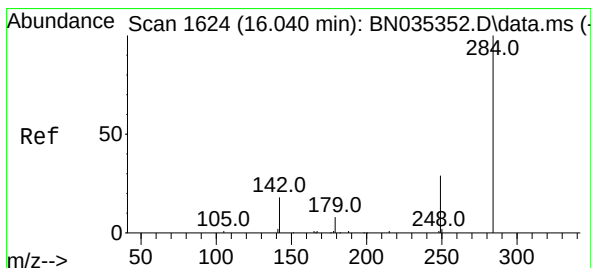
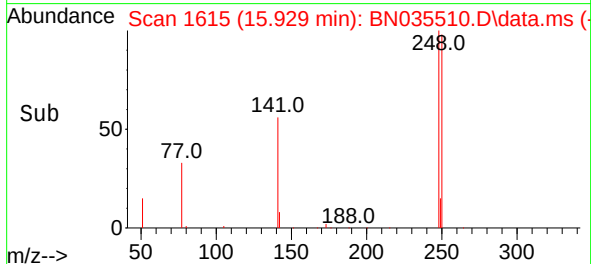
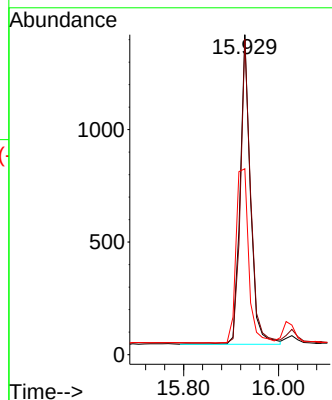
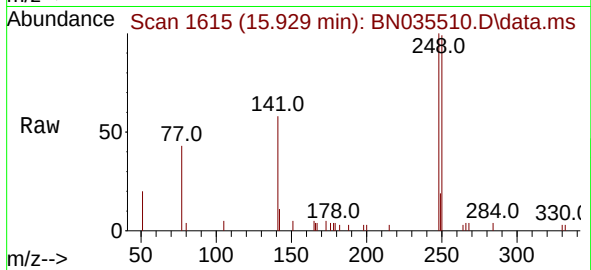




#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

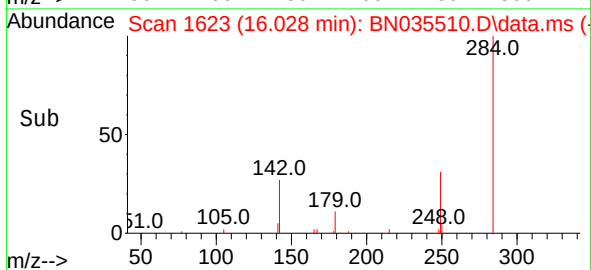
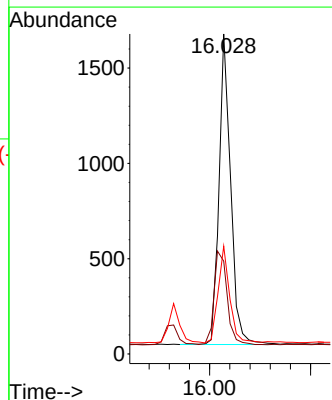
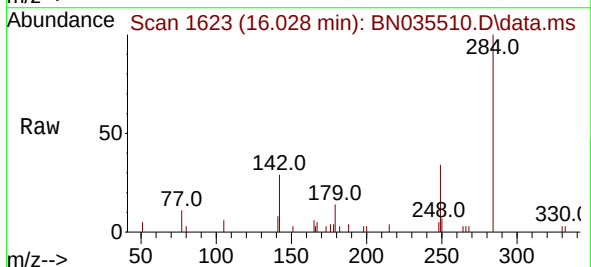
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

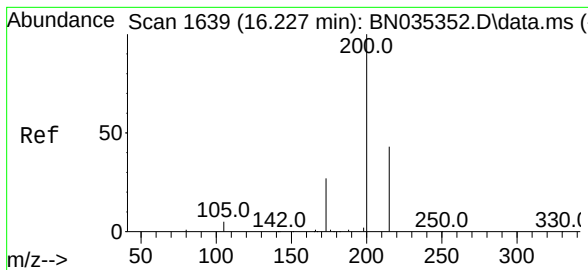
Tgt Ion:248 Resp: 2075
Ion Ratio Lower Upper
248 100
250 98.6 80.6 120.8
141 58.1 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:284 Resp: 2587
Ion Ratio Lower Upper
284 100
142 34.1 26.7 40.1
249 31.2 24.6 36.8





#23

Atrazine

Concen: 0.387 ng

RT: 16.227 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

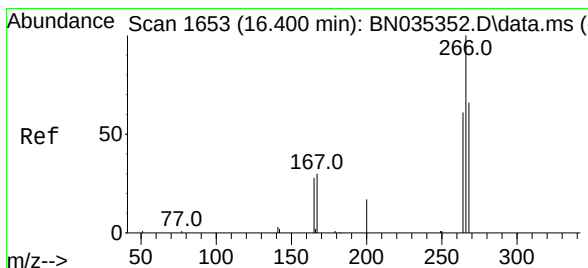
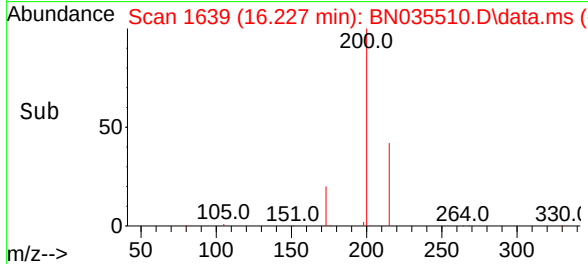
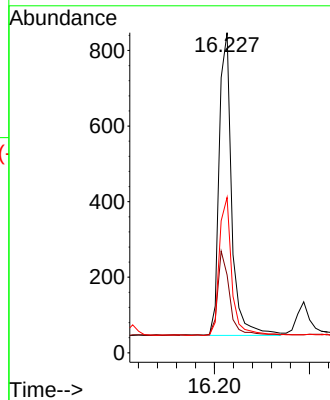
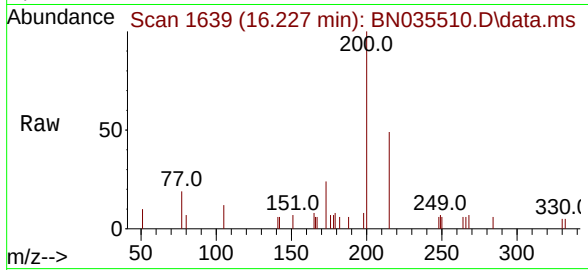
Tgt Ion:200 Resp: 1463

Ion Ratio Lower Upper

200 100

173 24.3 24.1 36.1

215 48.5 36.9 55.3



#24

Pentachlorophenol

Concen: 0.341 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

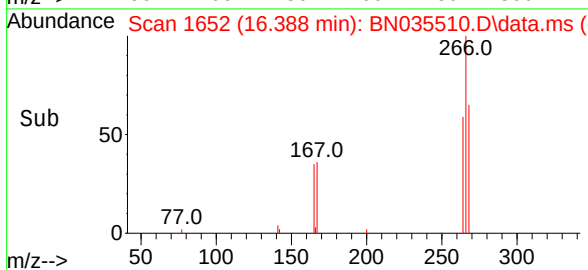
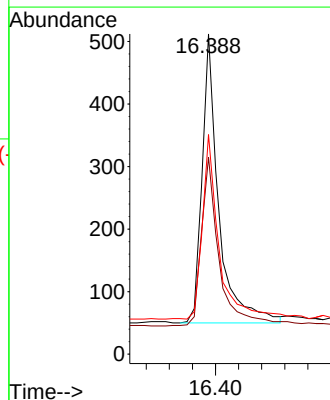
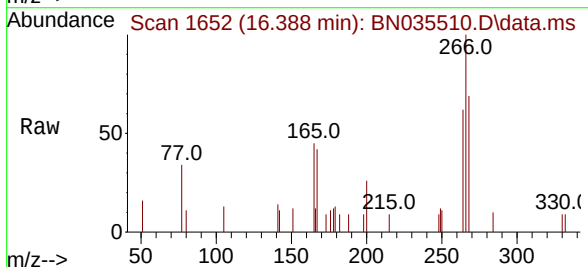
Tgt Ion:266 Resp: 925

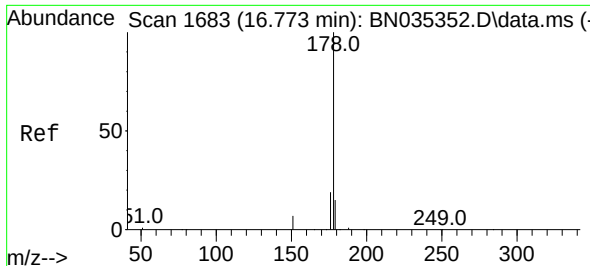
Ion Ratio Lower Upper

266 100

264 63.2 42.3 63.5

268 64.3 43.3 64.9

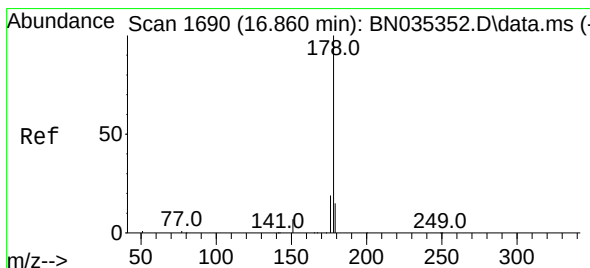
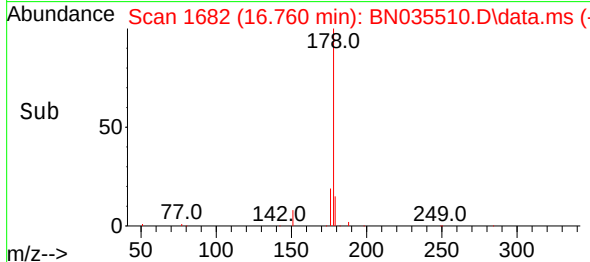
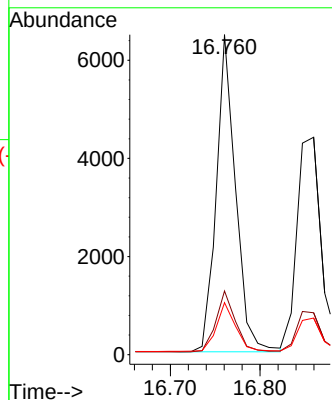
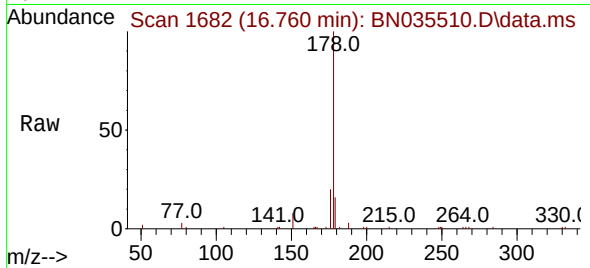




#25
Phenanthrene
Concen: 0.387 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

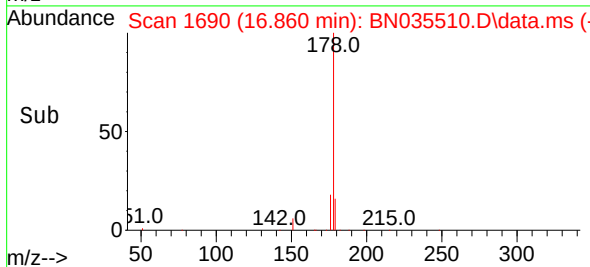
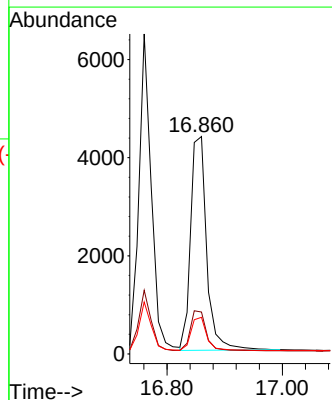
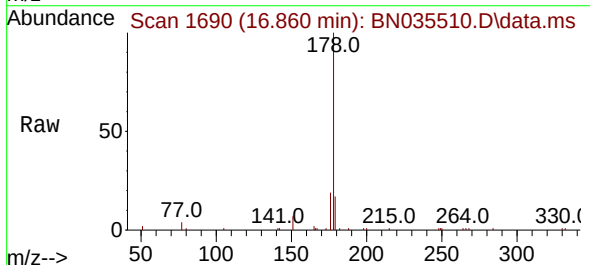
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

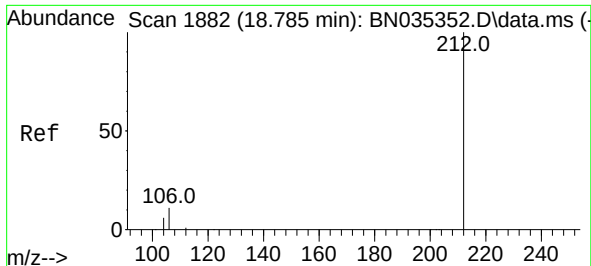
Tgt Ion:178 Resp: 9661
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:178 Resp: 8433
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

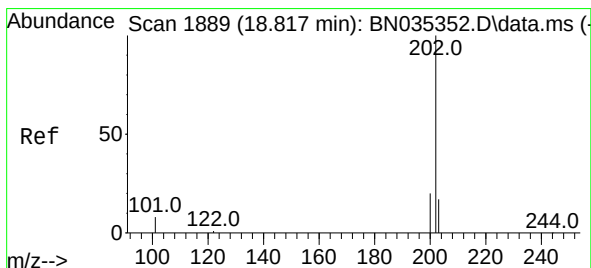
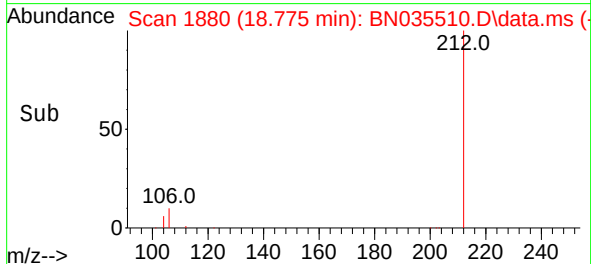
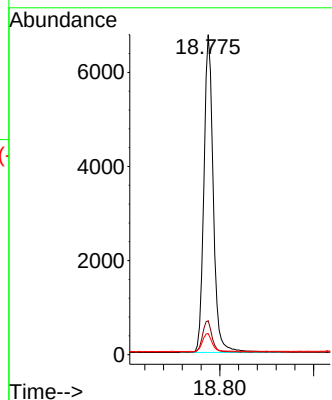
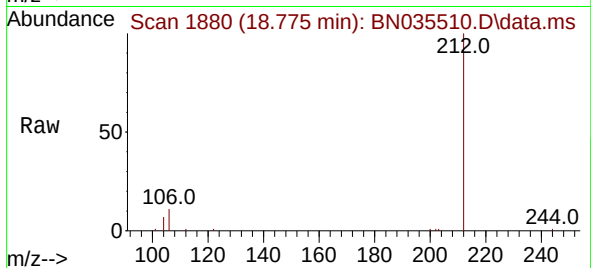
Tgt Ion:212 Resp: 9358

Ion Ratio Lower Upper

212 100

106 10.1 9.2 13.8

104 5.9 5.3 7.9



#28

Fluoranthene

Concen: 0.362 ng

RT: 18.808 min Scan# 1887

Delta R.T. -0.009 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

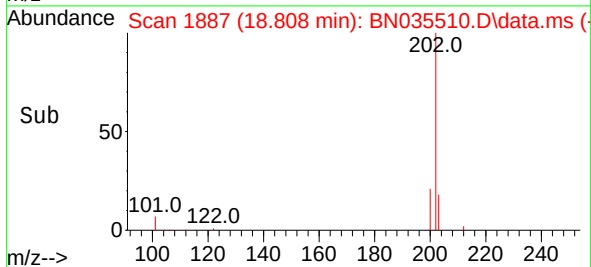
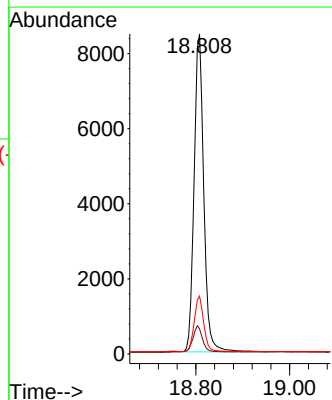
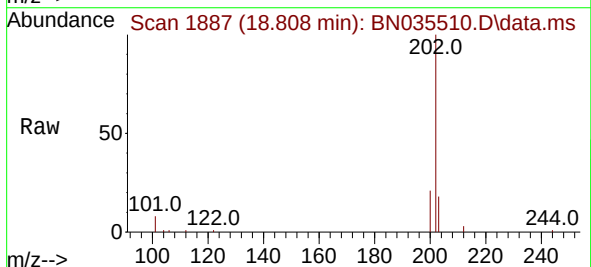
Tgt Ion:202 Resp: 12158

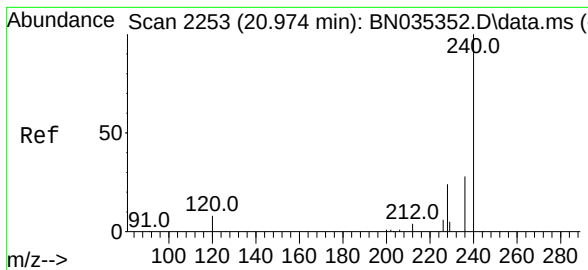
Ion Ratio Lower Upper

202 100

101 8.0 7.4 11.0

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

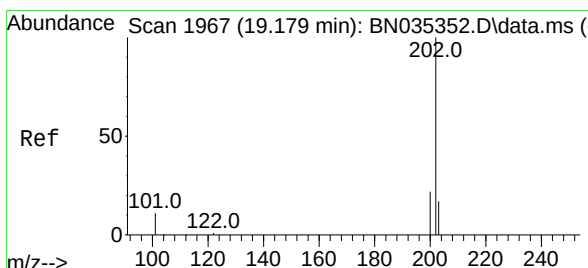
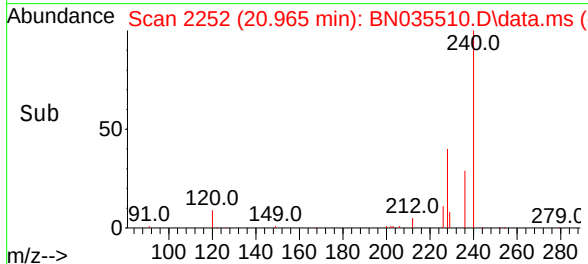
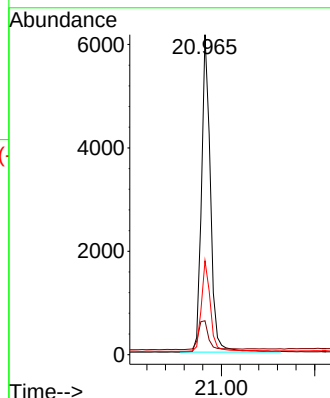
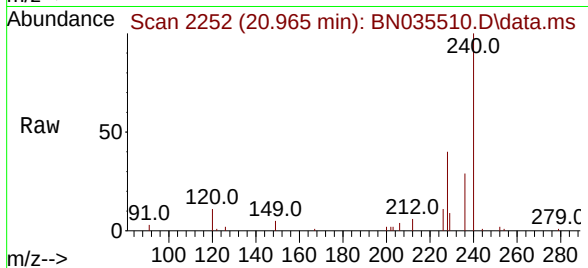
Tgt Ion:240 Resp: 8166

Ion Ratio Lower Upper

240 100

120 10.6 7.9 11.9

236 29.4 22.9 34.3



#30

Pyrene

Concen: 0.411 ng

RT: 19.175 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

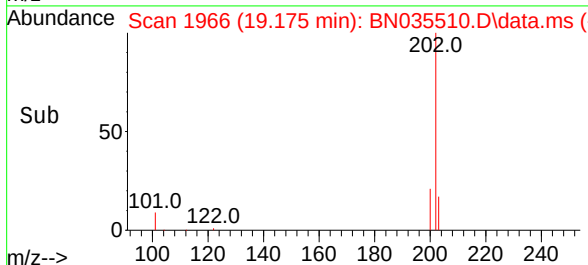
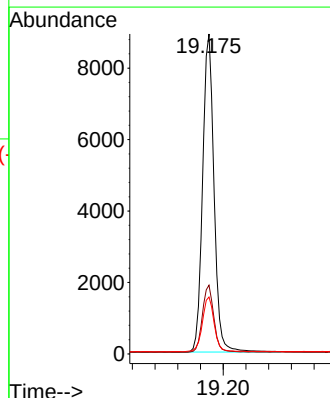
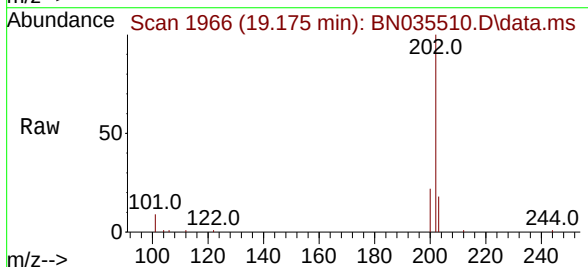
Tgt Ion:202 Resp: 12397

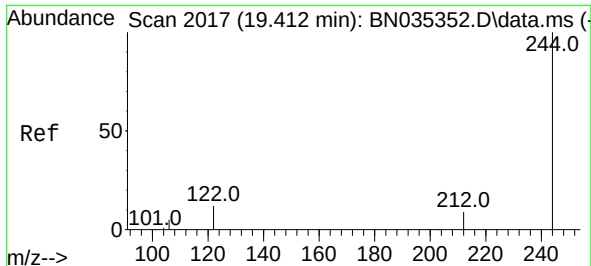
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.7 14.3 21.5

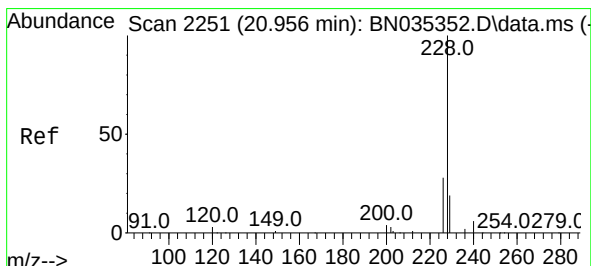
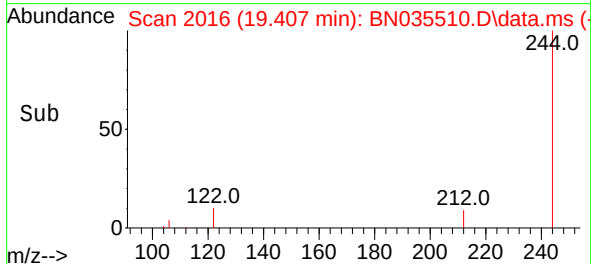
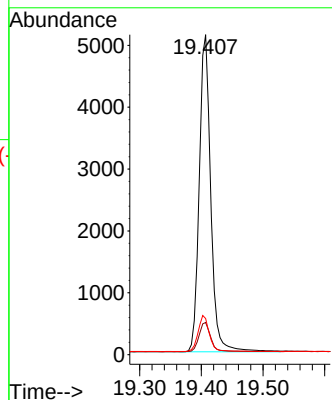
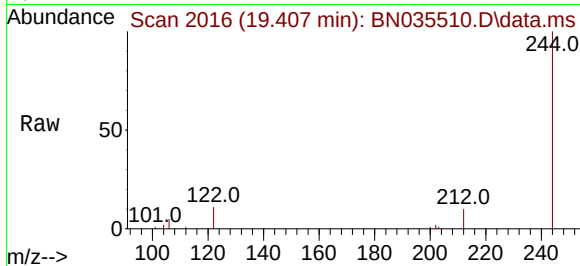




#31
 Terphenyl-d14
 Concen: 0.414 ng
 RT: 19.407 min Scan# 2017
 Delta R.T. -0.005 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

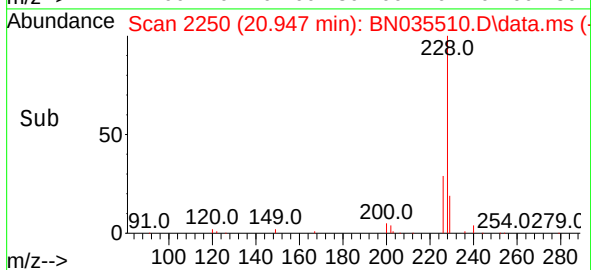
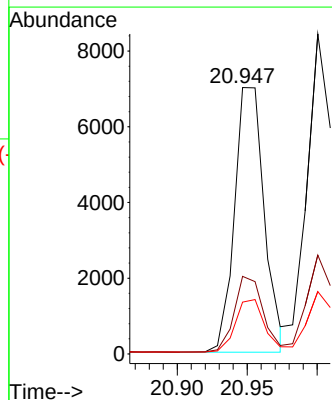
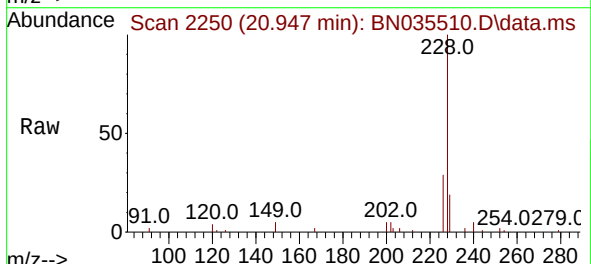
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

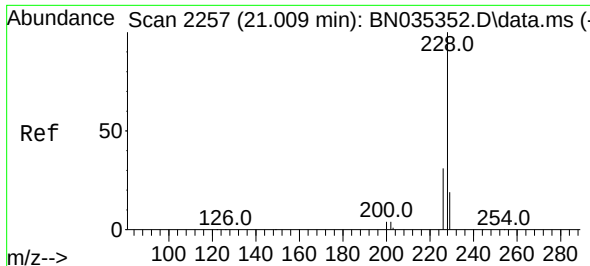
Tgt Ion:244 Resp: 6666
 Ion Ratio Lower Upper
 244 100
 212 10.0 8.1 12.1
 122 11.3 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.363 ng
 RT: 20.947 min Scan# 2250
 Delta R.T. -0.009 min
 Lab File: BN035510.D
 Acq: 09 Dec 2024 17:07

Tgt Ion:228 Resp: 10365
 Ion Ratio Lower Upper
 228 100
 226 29.1 22.5 33.7
 229 19.5 15.8 23.8

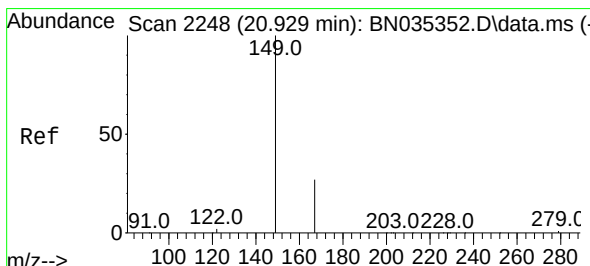
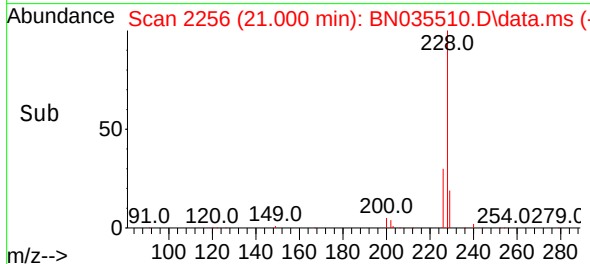
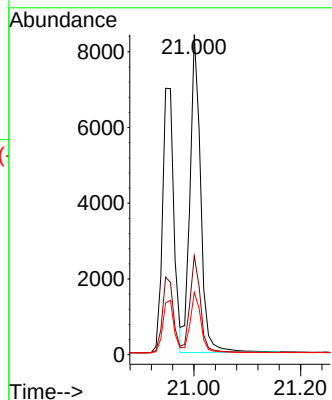
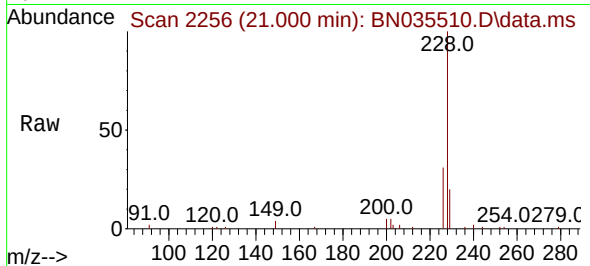




#33
Chrysene
Concen: 0.394 ng
RT: 21.000 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

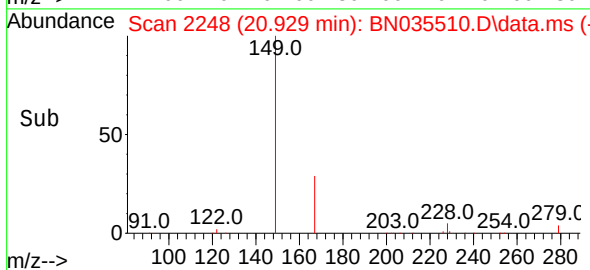
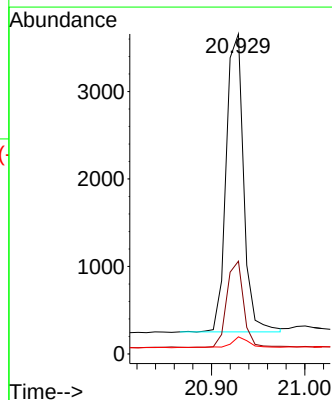
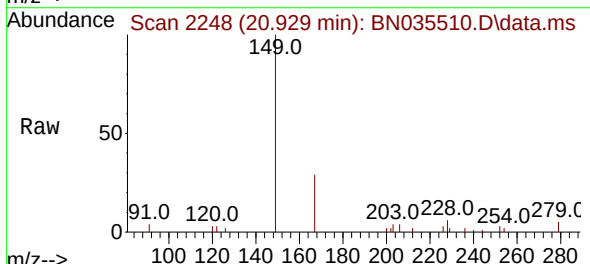
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

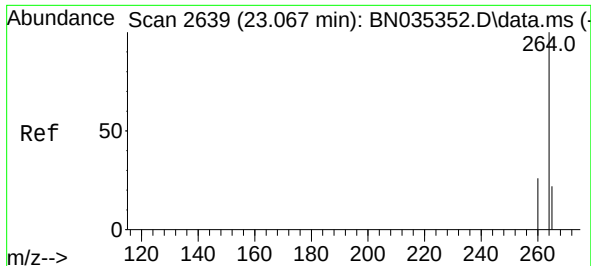
Tgt Ion:228 Resp: 11620
Ion Ratio Lower Upper
228 100
226 30.9 24.6 37.0
229 19.5 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.392 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:149 Resp: 4418
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.059 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035510.D

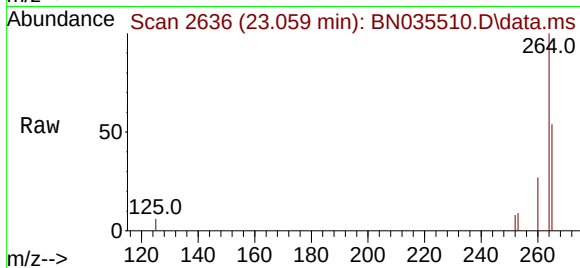
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



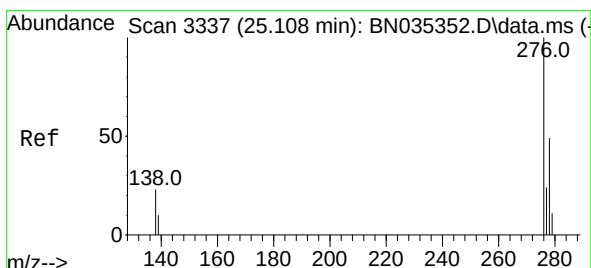
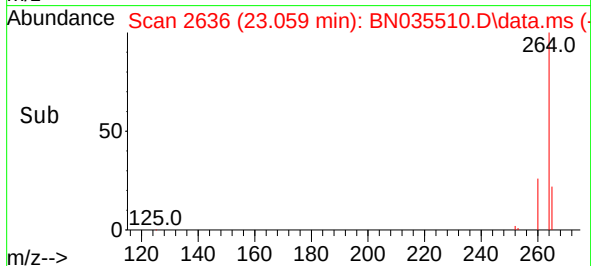
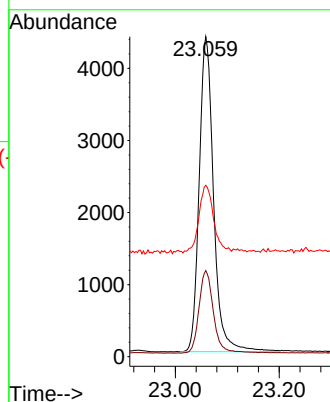
Tgt Ion:264 Resp: 8385

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 53.6 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.367 ng

RT: 25.102 min Scan# 3335

Delta R.T. -0.006 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

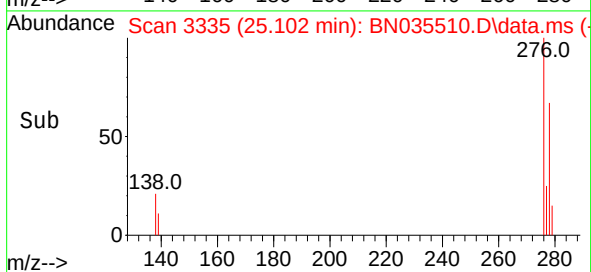
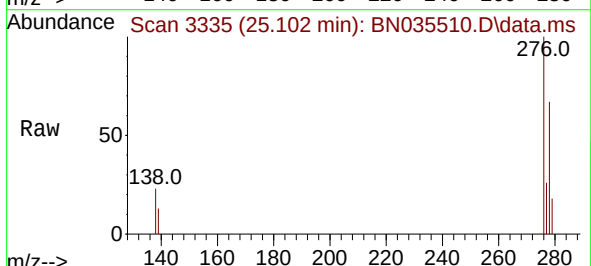
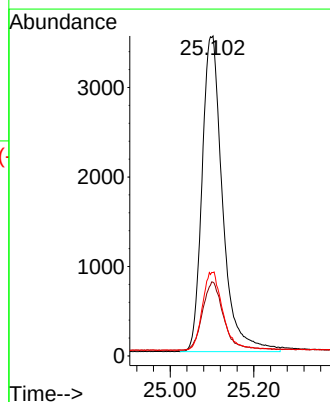
Tgt Ion:276 Resp: 12024

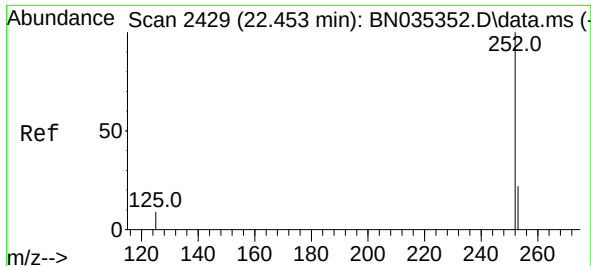
Ion Ratio Lower Upper

276 100

138 21.7 19.4 29.0

277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.440 ng

RT: 22.447 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

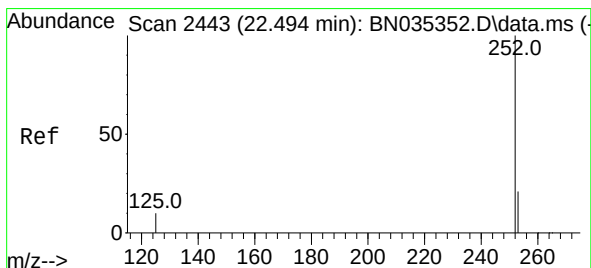
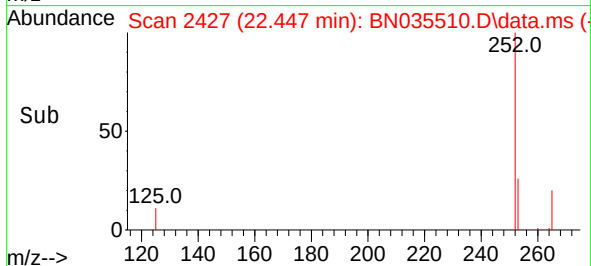
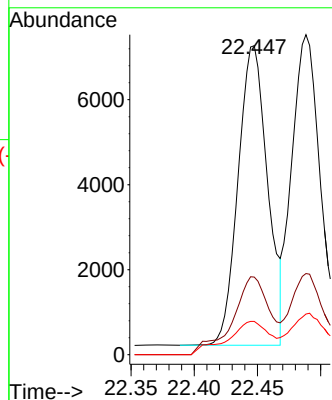
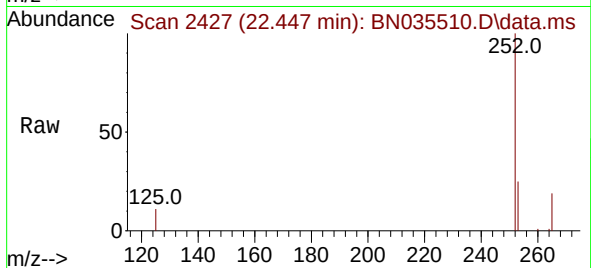
Tgt Ion:252 Resp: 13501

Ion Ratio Lower Upper

252 100

253 25.1 19.6 29.4

125 10.8 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.394 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

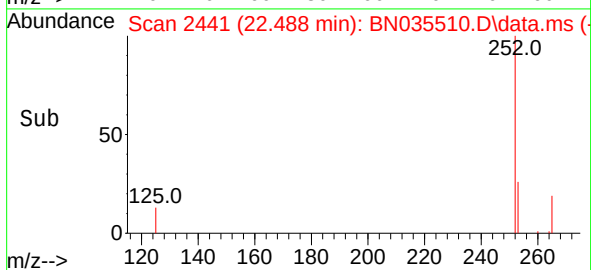
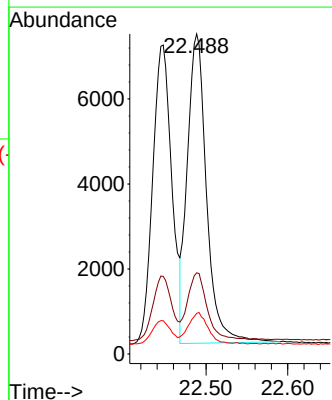
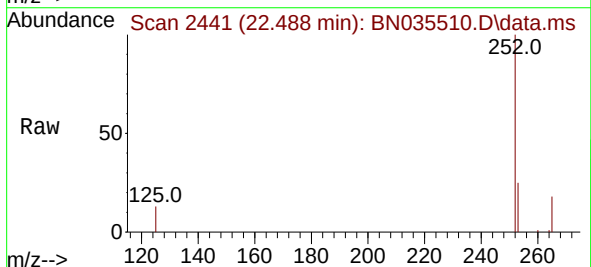
Tgt Ion:252 Resp: 11908

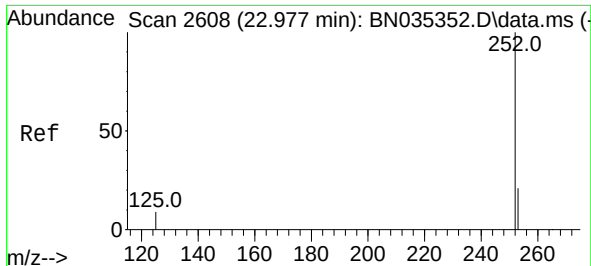
Ion Ratio Lower Upper

252 100

253 25.4 19.5 29.3

125 12.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 22.968 min Scan# 2605

Delta R.T. -0.009 min

Lab File: BN035510.D

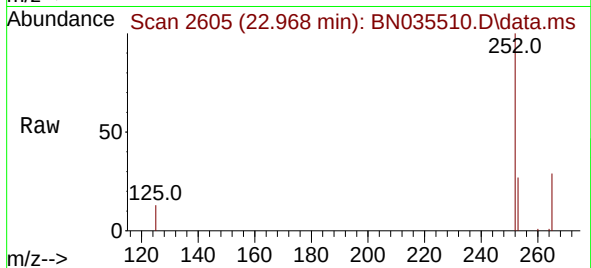
Acq: 09 Dec 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



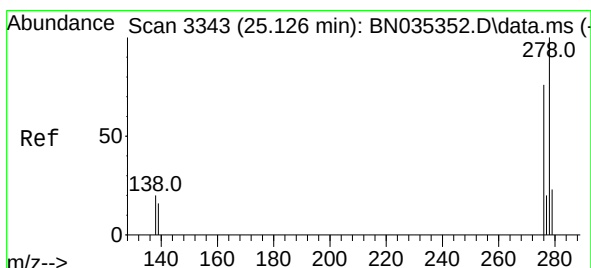
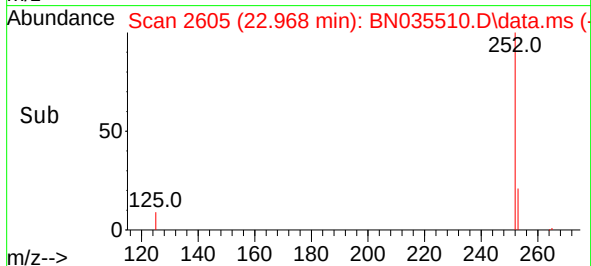
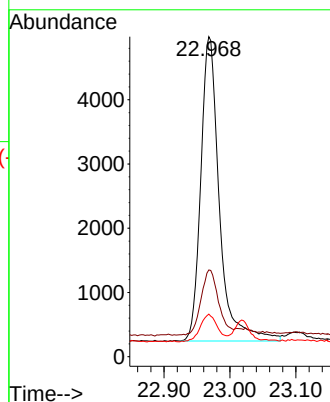
Tgt Ion:252 Resp: 9314

Ion Ratio Lower Upper

252 100

253 27.1 20.2 30.4

125 13.3 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 25.114 min Scan# 3339

Delta R.T. -0.012 min

Lab File: BN035510.D

Acq: 09 Dec 2024 17:07

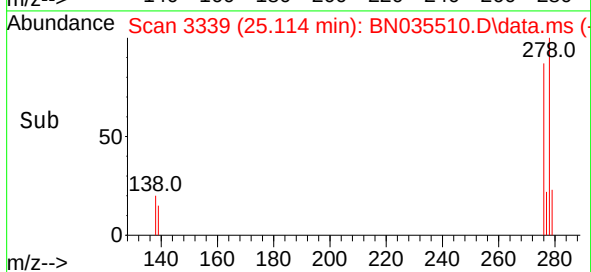
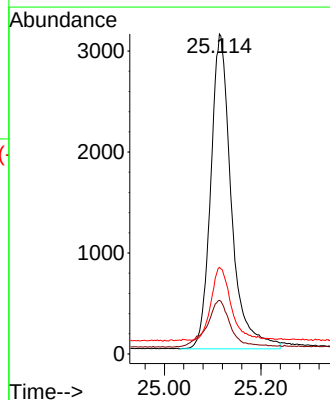
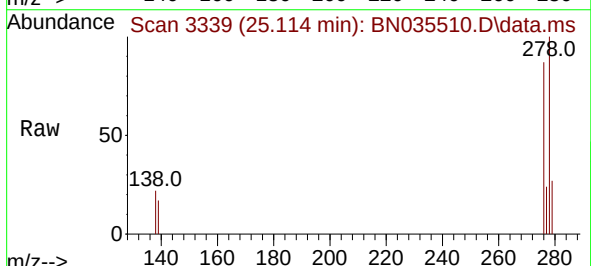
Tgt Ion:278 Resp: 9233

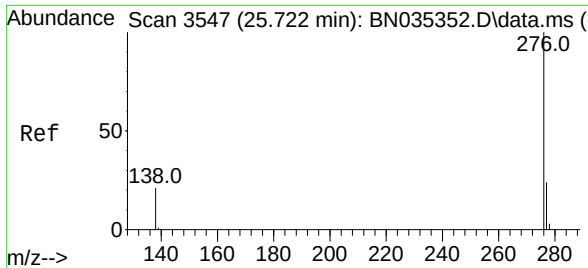
Ion Ratio Lower Upper

278 100

139 16.8 14.2 21.4

279 27.0 20.5 30.7

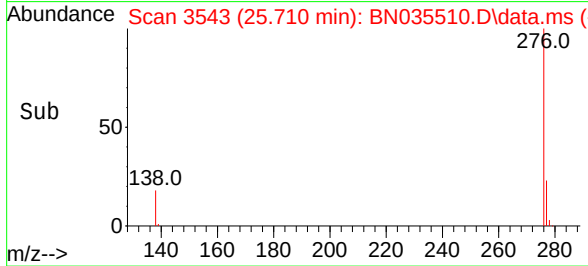
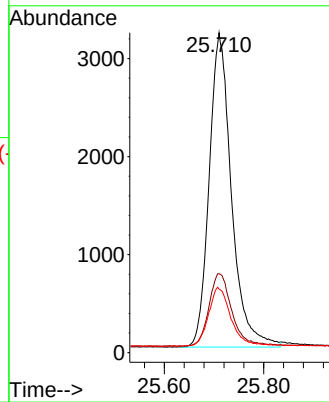
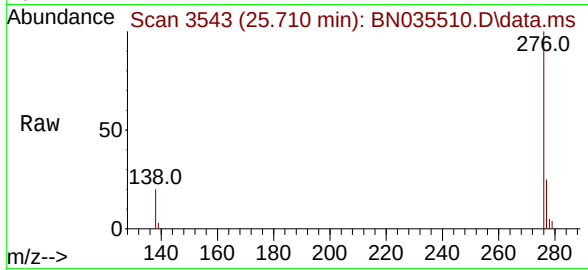




#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 25.710 min Scan# 3543
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:	276	Resp:	9987
Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	19.9	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035511.D
 Acq On : 09 Dec 2024 17:43
 Operator : RC/JU
 Sample : PB165497BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165497BL

Quant Time: Dec 10 01:26:38 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1641	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4578	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3247	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	7570	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6431	0.400	ng	0.00
35) Perylene-d12	23.067	264	6251	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1921	0.468	ng	-0.01
5) Phenol-d6	6.506	99	2074	0.420	ng	0.00
8) Nitrobenzene-d5	8.440	82	1459	0.522	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3268	0.456	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	444	0.193	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5214	0.425	ng	0.00
27) Fluoranthene-d10	18.785	212	9599	0.447	ng	0.00
31) Terphenyl-d14	19.407	244	7154	0.564	ng	0.00

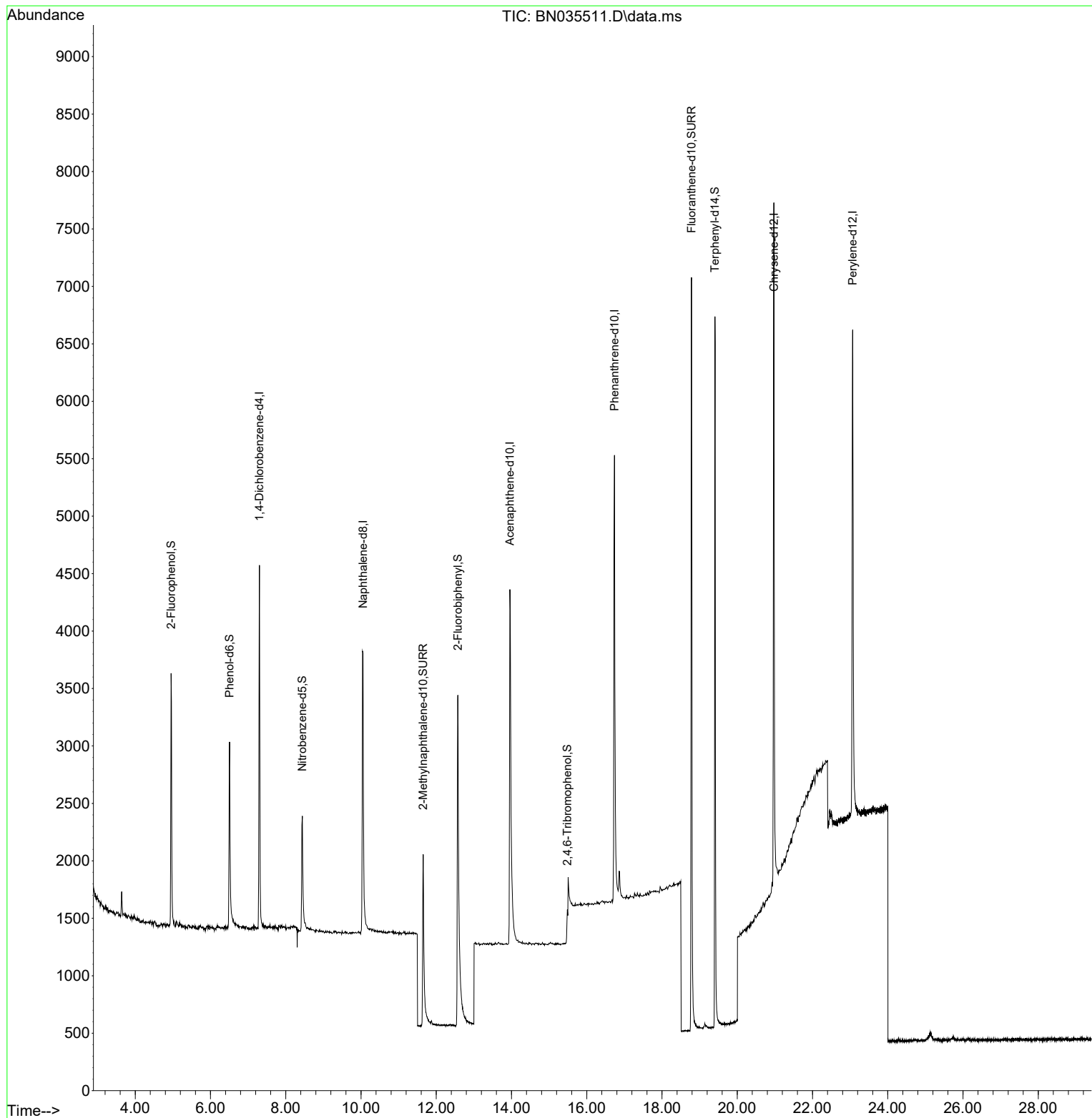
Target Compounds Qvalue

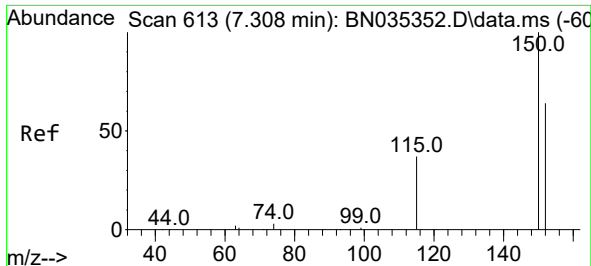
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BL

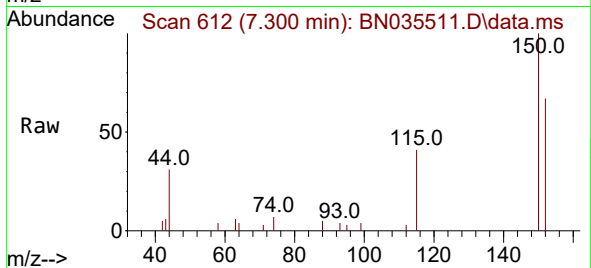
Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



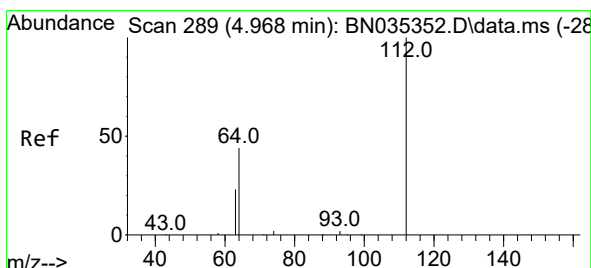
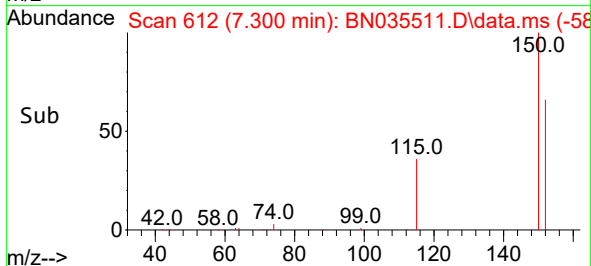
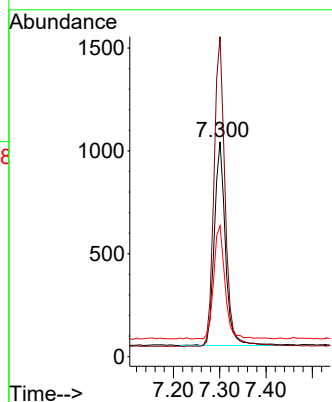


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

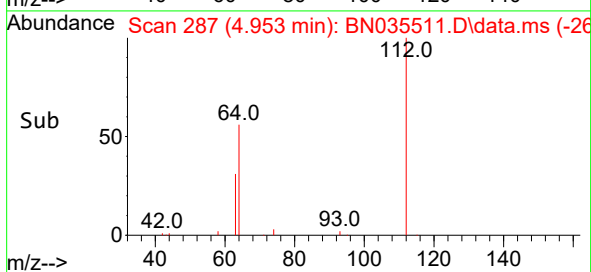
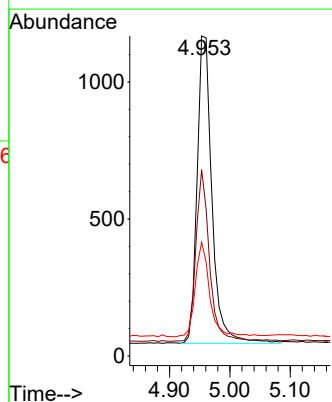
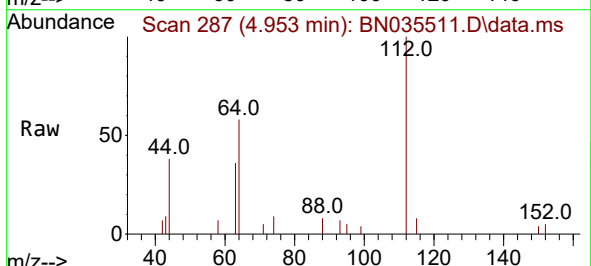


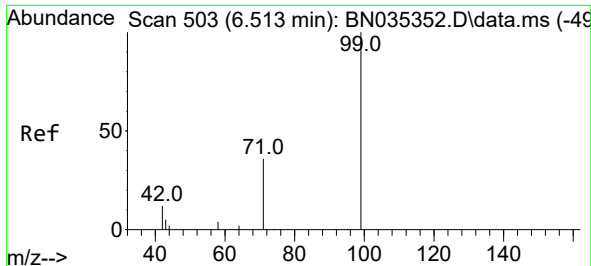
Tgt Ion:152 Resp: 1641
Ion Ratio Lower Upper
152 100
150 148.9 124.0 186.0
115 60.9 49.6 74.4



#4
2-Fluorophenol
Concen: 0.468 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:112 Resp: 1921
Ion Ratio Lower Upper
112 100
64 50.3 39.8 59.8
63 30.1 21.0 31.6

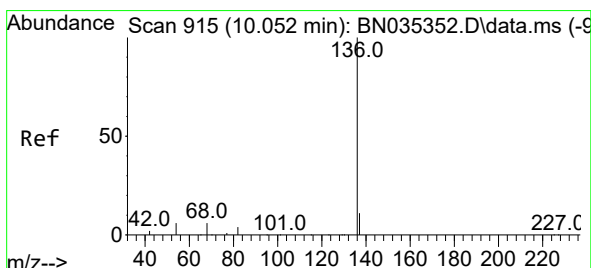
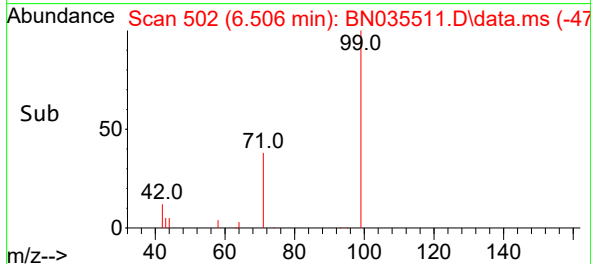
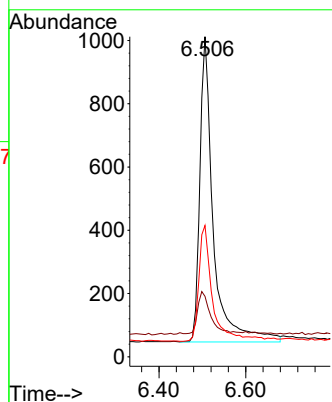
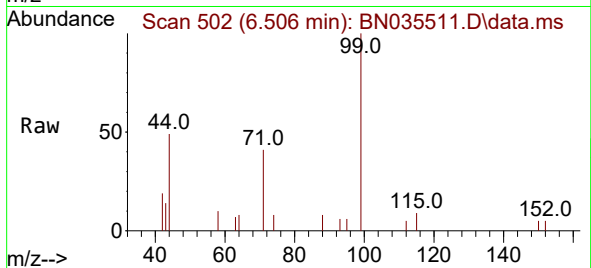




#5
Phenol-d6
Concen: 0.420 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

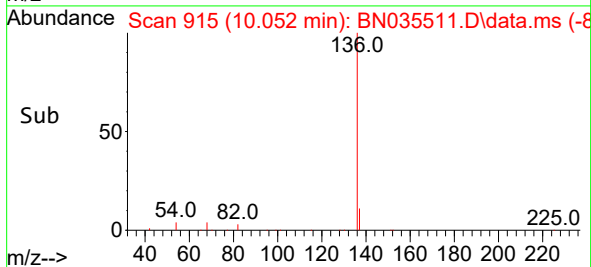
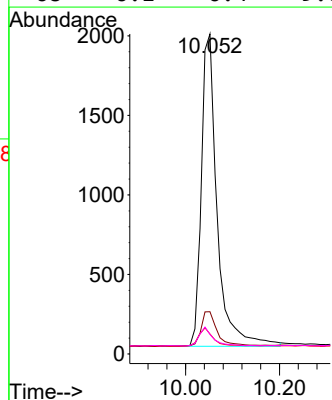
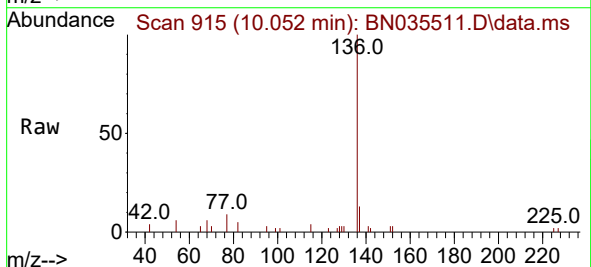
Instrument :
BNA_N
ClientSampleId :
PB165497BL

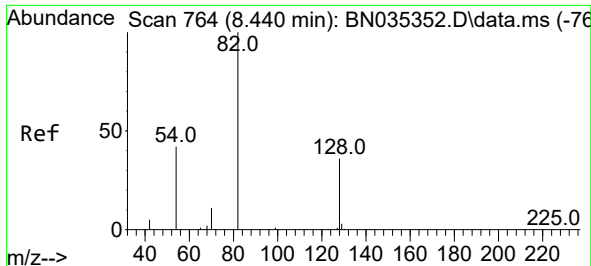
Tgt Ion:	99	Resp:	2074
Ion	Ratio	Lower	Upper
99	100		
42	13.2	11.4	17.2
71	37.0	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:	136	Resp:	4578
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.2	15.2
54	6.3	6.1	9.1
68	6.1	6.4	9.6

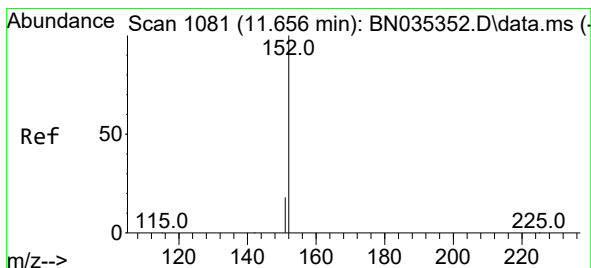
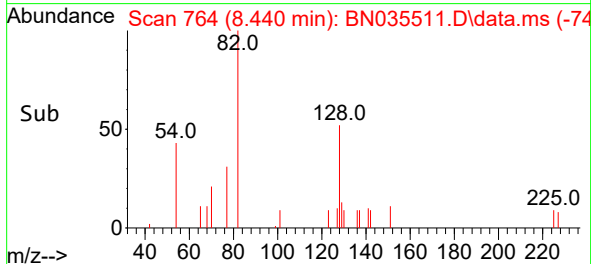
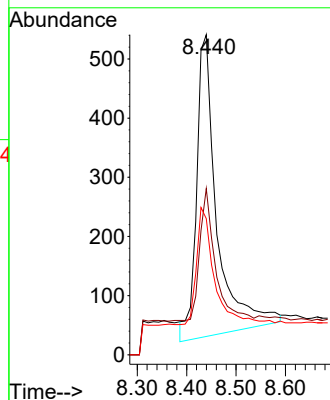
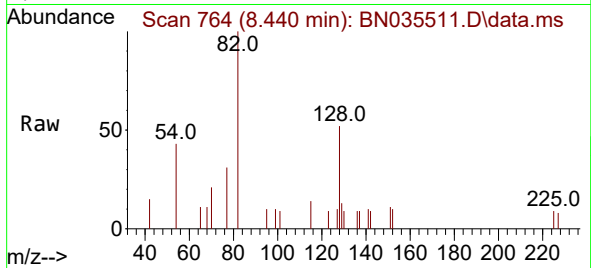




#8
Nitrobenzene-d5
Concen: 0.522 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

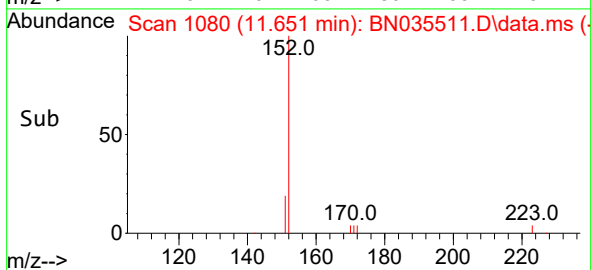
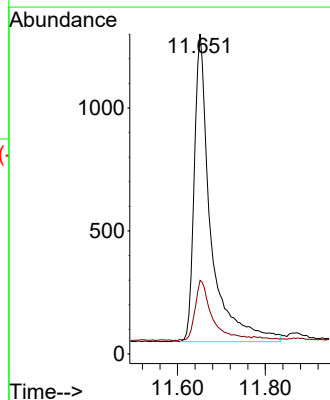
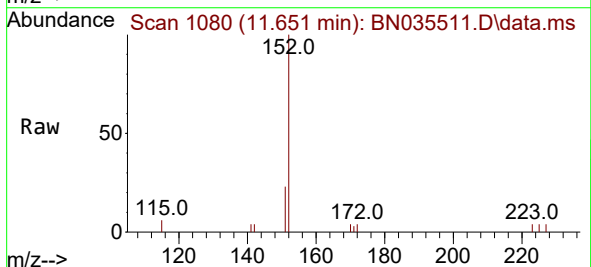
Instrument :
BNA_N
ClientSampleId :
PB165497BL

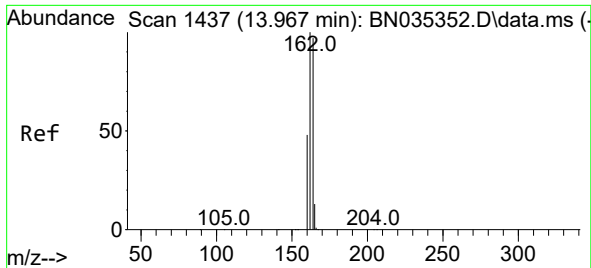
Tgt Ion: 82 Resp: 1459
Ion Ratio Lower Upper
82 100
128 51.9 33.4 50.0#
54 42.5 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.456 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion: 152 Resp: 3268
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

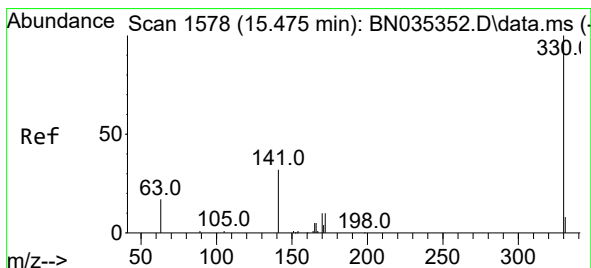
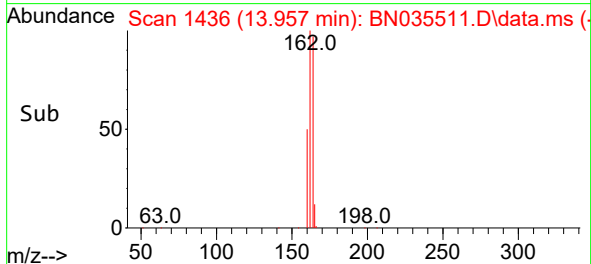
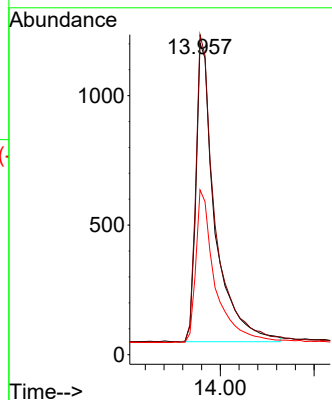
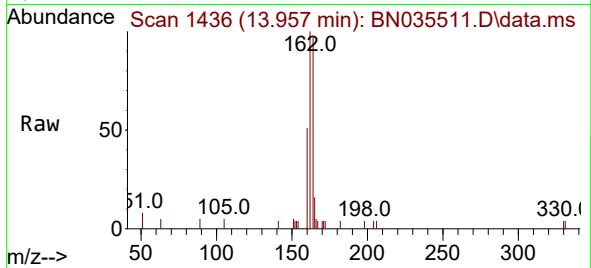




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.957 min Scan# 14
 Delta R.T. -0.011 min
 Lab File: BN035511.D
 Acq: 09 Dec 2024 17:43

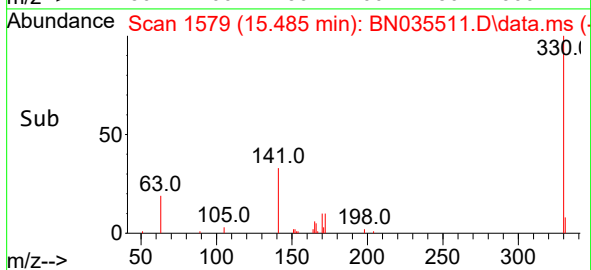
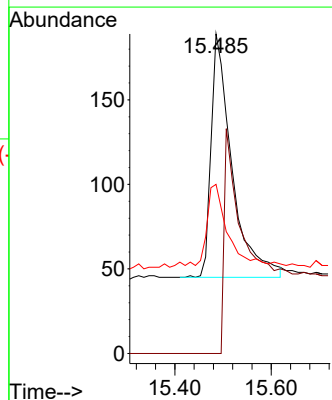
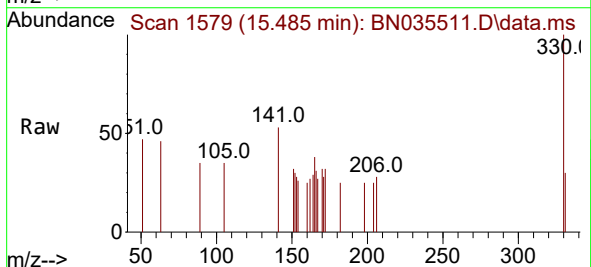
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BL

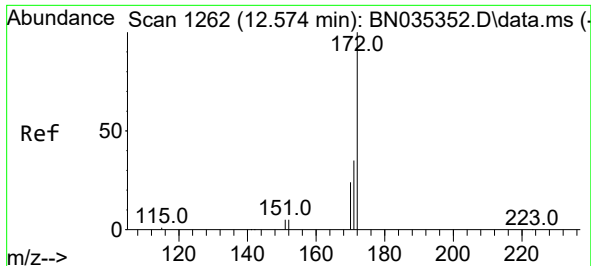
Tgt Ion:164 Resp: 3247
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 52.9 40.1 60.1



#14
 2,4,6-Tribromophenol
 Concen: 0.193 ng
 RT: 15.485 min Scan# 1579
 Delta R.T. 0.011 min
 Lab File: BN035511.D
 Acq: 09 Dec 2024 17:43

Tgt Ion:330 Resp: 444
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 32.9 26.6 40.0

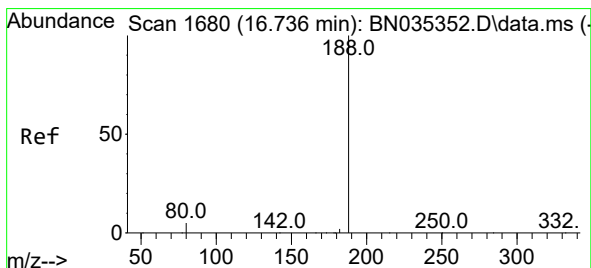
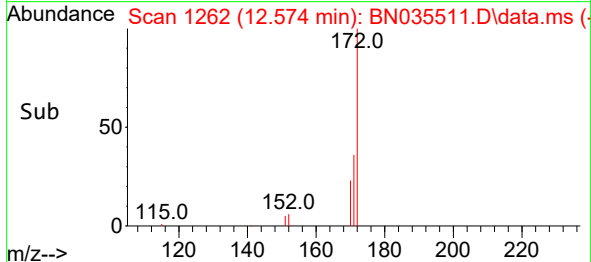
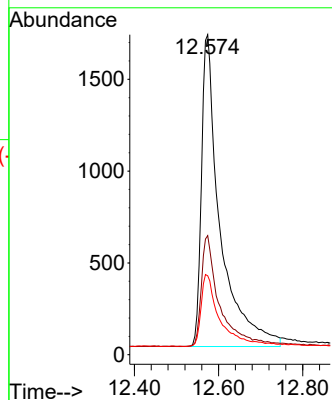
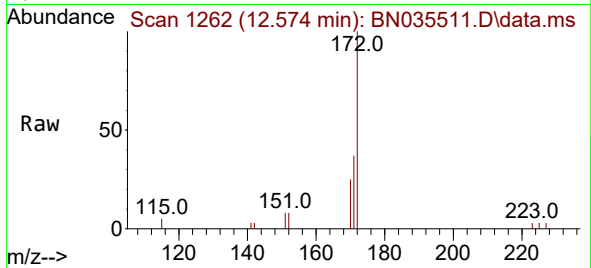




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

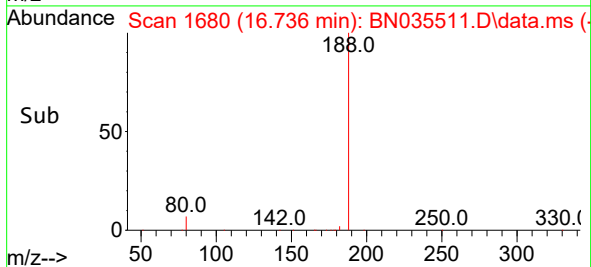
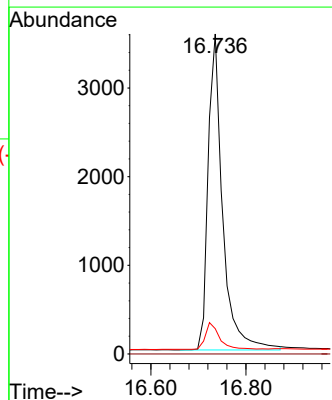
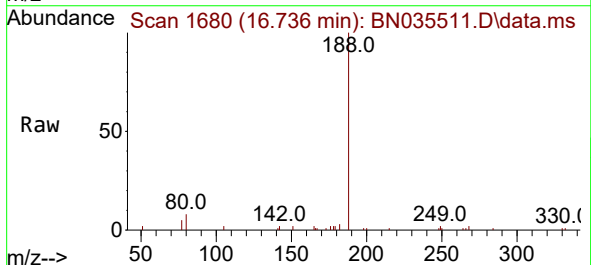
Instrument :
BNA_N
ClientSampleId :
PB165497BL

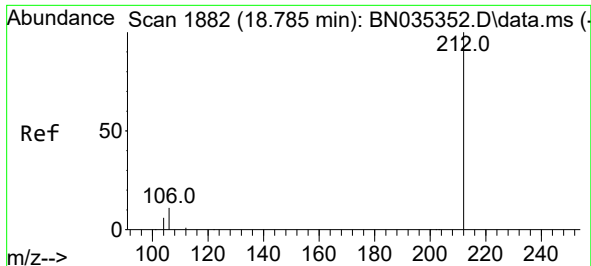
Tgt Ion:172 Resp: 5214
Ion Ratio Lower Upper
172 100
171 37.2 29.0 43.4
170 24.7 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:188 Resp: 7570
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.9 4.6 6.8

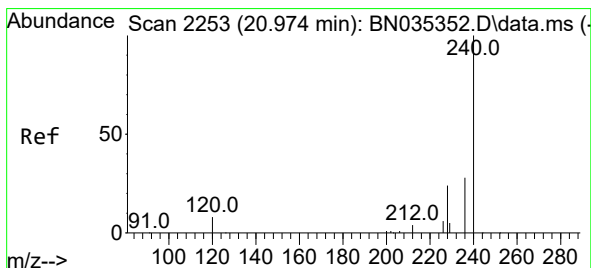
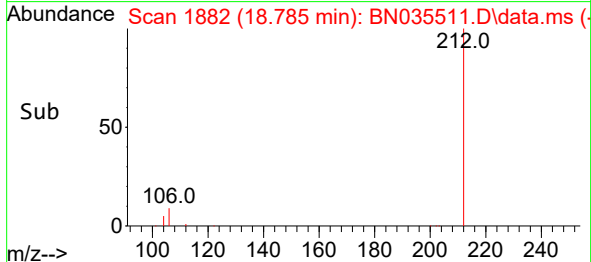
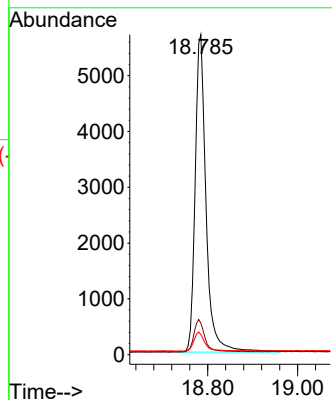
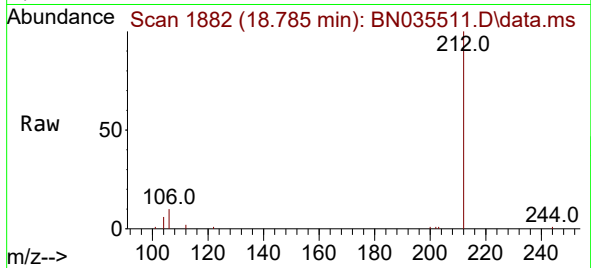




#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

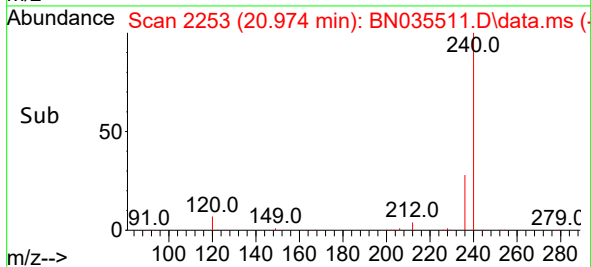
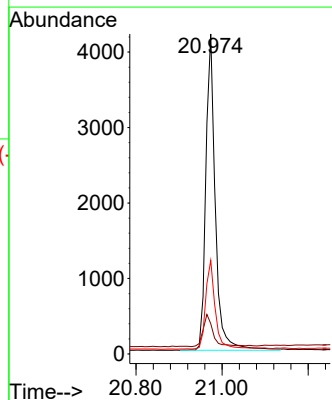
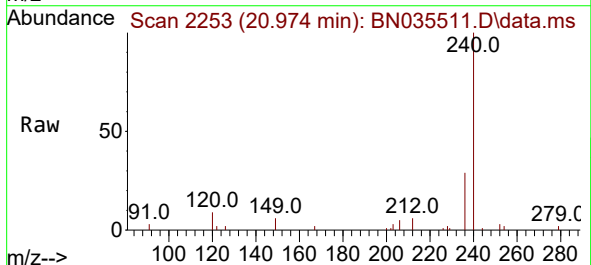
Instrument :
BNA_N
ClientSampleId :
PB165497BL

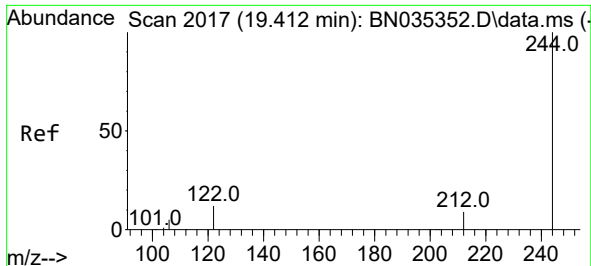
Tgt Ion:212 Resp: 9599
Ion Ratio Lower Upper
212 100
106 10.0 9.2 13.8
104 5.9 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

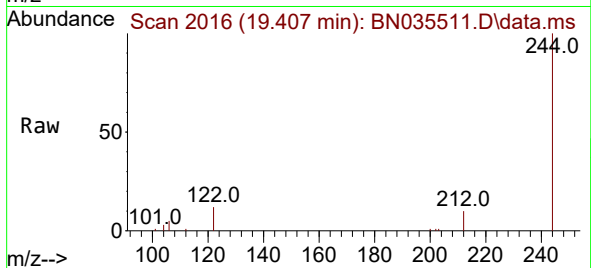
Tgt Ion:240 Resp: 6431
Ion Ratio Lower Upper
240 100
120 9.4 7.9 11.9
236 29.2 22.9 34.3



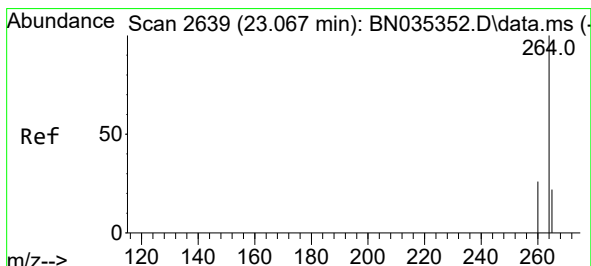
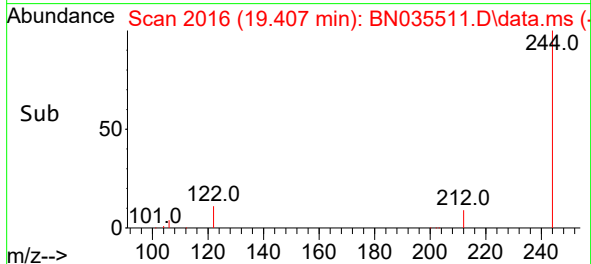
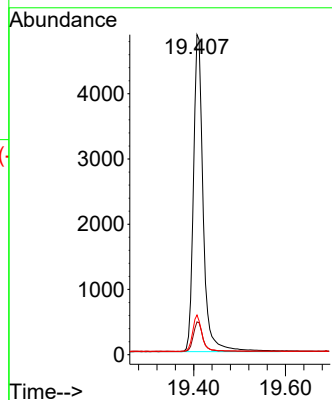


#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

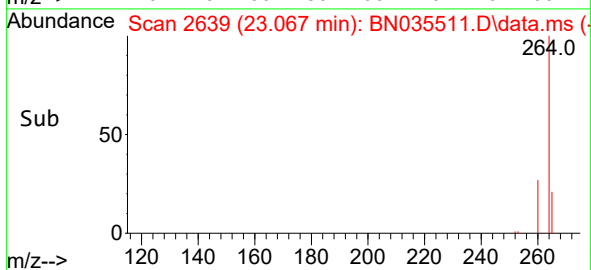
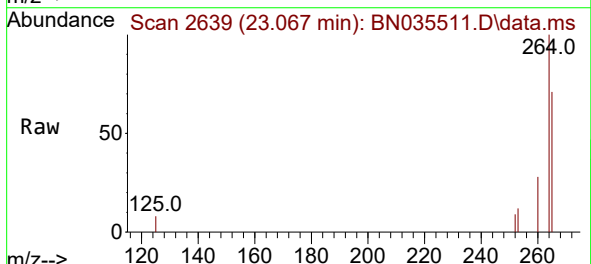
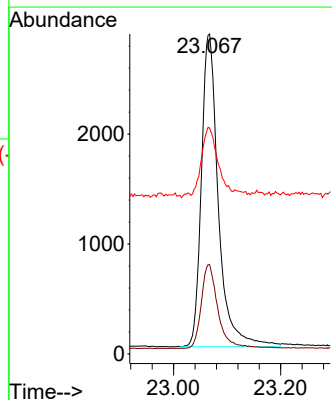


Tgt Ion:244 Resp: 7154
Ion Ratio Lower Upper
244 100
212 10.2 8.1 12.1
122 12.4 10.3 15.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:264 Resp: 6251
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 70.6 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035512.D
 Acq On : 09 Dec 2024 18:19
 Operator : RC/JU
 Sample : P5164-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE108D2-20241206

Quant Time: Dec 10 01:26:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

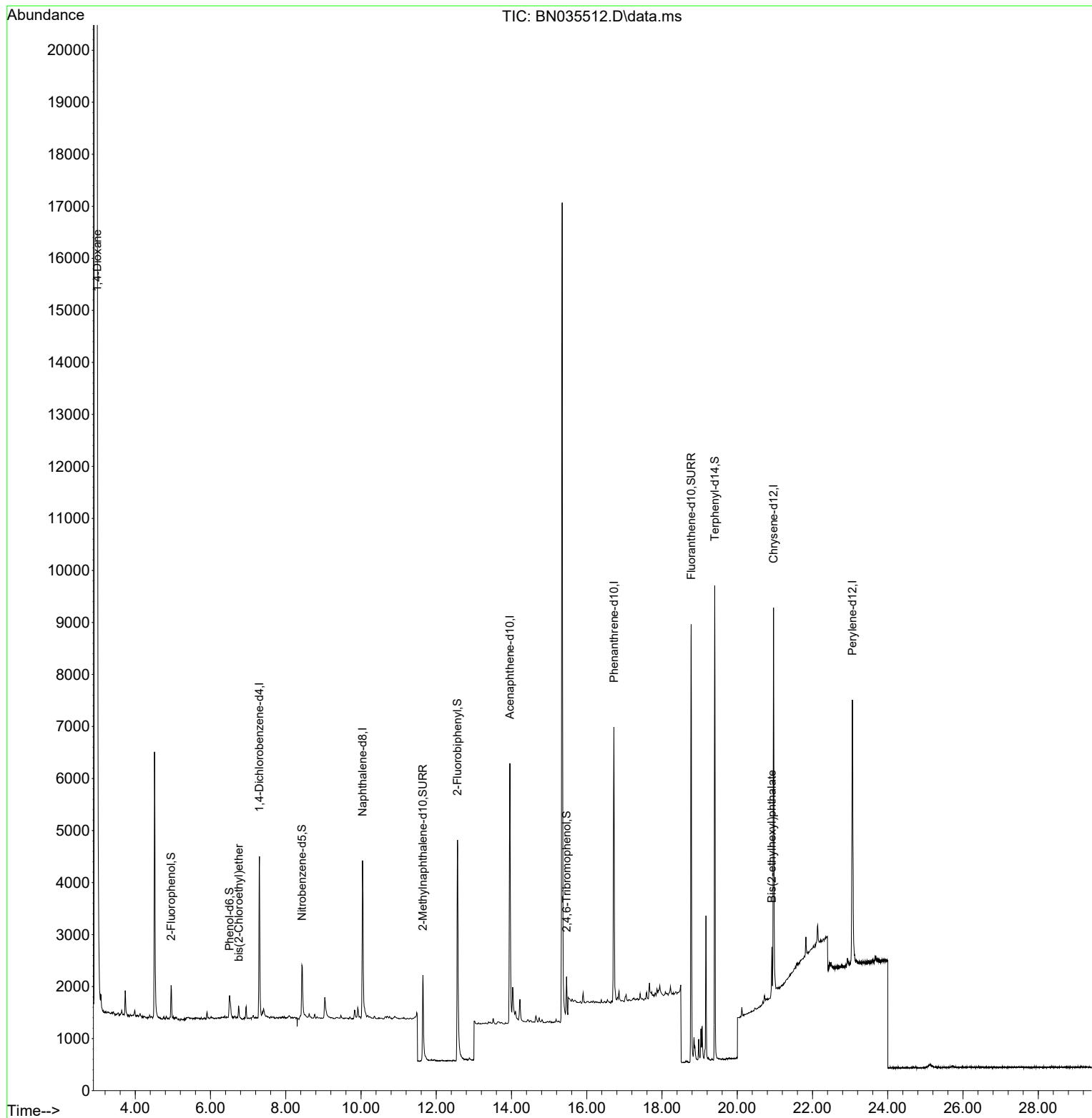
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1616	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4623	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3281	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7900	0.400	ng	-0.01
29) Chrysene-d12	20.965	240	7073	0.400	ng	0.00
35) Perylene-d12	23.059	264	7058	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	577	0.143	ng	-0.01
5) Phenol-d6	6.506	99	428	0.088	ng	0.00
8) Nitrobenzene-d5	8.429	82	1409	0.499	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2800	0.387	ng	-0.01
14) 2,4,6-Tribromophenol	15.464	330	691	0.297	ng	-0.01
15) 2-Fluorobiphenyl	12.564	172	5236	0.422	ng	-0.01
27) Fluoranthene-d10	18.775	212	10250	0.458	ng	0.00
31) Terphenyl-d14	19.402	244	8977	0.643	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.989	88	3882	2.513	ng	97
6) bis(2-Chloroethyl)ether	6.752	93	215	0.053	ng	96
34) Bis(2-ethylhexyl)phtha...	20.920	149	745	0.076	ng	98

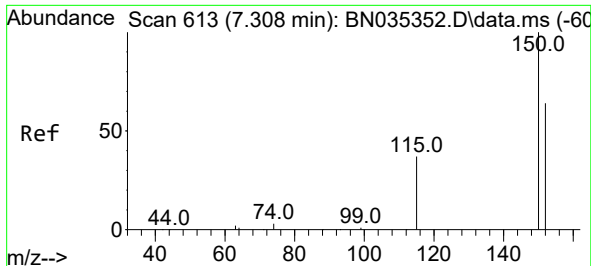
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035512.D
Acq On : 09 Dec 2024 18:19
Operator : RC/JU
Sample : P5164-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

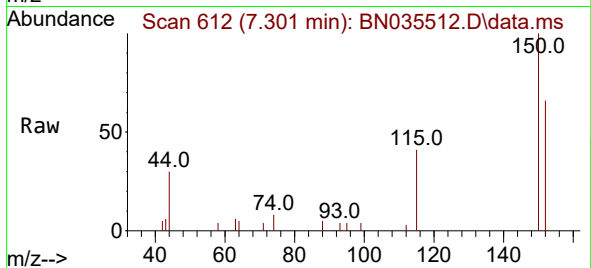
Quant Time: Dec 10 01:26:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



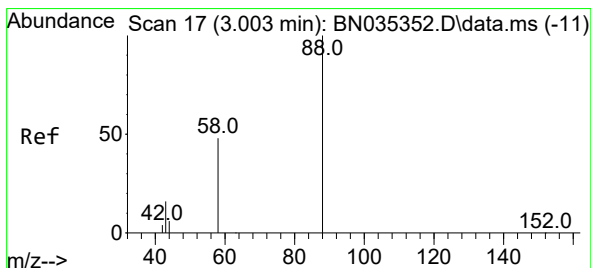
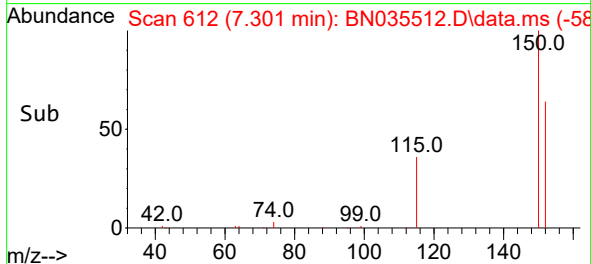
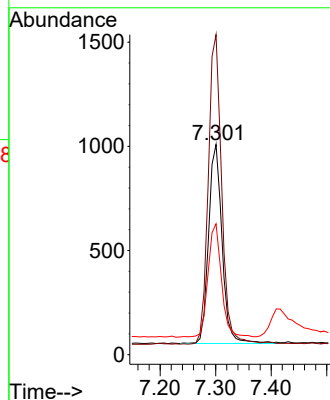


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.301 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN035512.D
 Acq: 09 Dec 2024 18:19

Instrument :
 BNA_N
 ClientSampleId :
 RE108D2-20241206

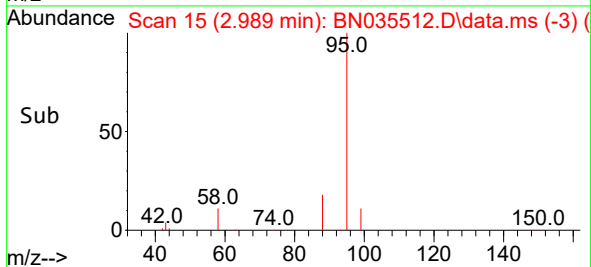
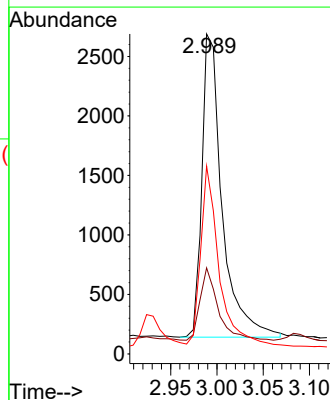
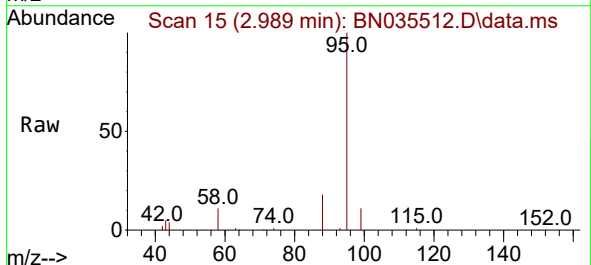


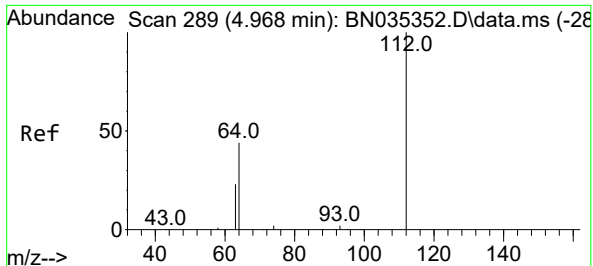
Tgt Ion:152 Resp: 1616
 Ion Ratio Lower Upper
 152 100
 150 152.2 124.0 186.0
 115 62.2 49.6 74.4



#2
 1,4-Dioxane
 Concen: 2.513 ng
 RT: 2.989 min Scan# 15
 Delta R.T. -0.014 min
 Lab File: BN035512.D
 Acq: 09 Dec 2024 18:19

Tgt Ion: 88 Resp: 3882
 Ion Ratio Lower Upper
 88 100
 43 21.4 17.2 25.8
 58 52.3 44.5 66.7

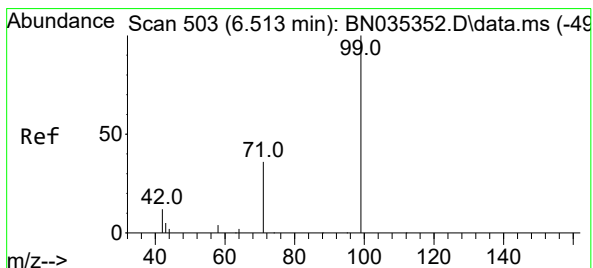
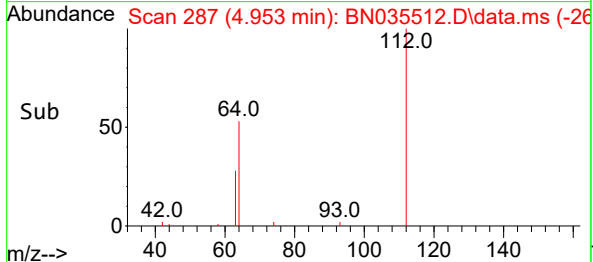
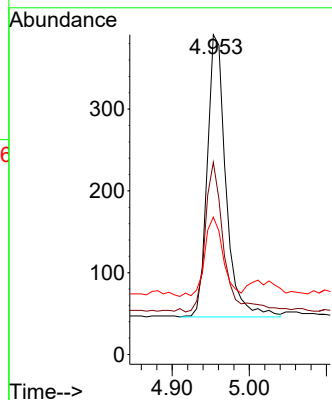
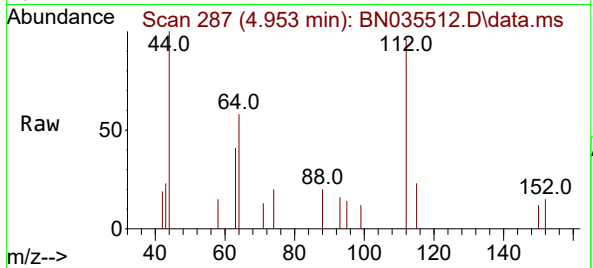




#4
2-Fluorophenol
Concen: 0.143 ng
RT: 4.953 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

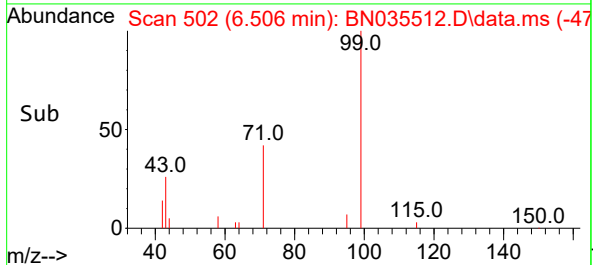
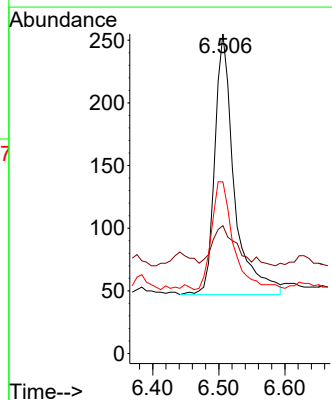
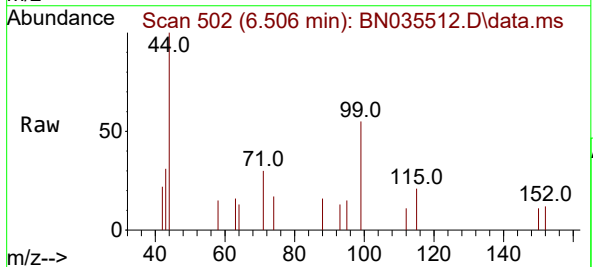
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

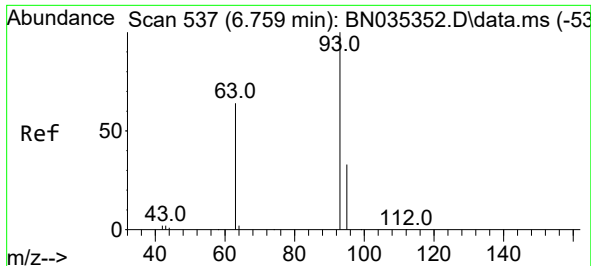
Tgt Ion:112 Resp: 577
Ion Ratio Lower Upper
112 100
64 53.7 39.8 59.8
63 27.6 21.0 31.6



#5
Phenol-d6
Concen: 0.088 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion: 99 Resp: 428
Ion Ratio Lower Upper
99 100
42 20.6 11.4 17.2#
71 46.3 29.3 43.9#

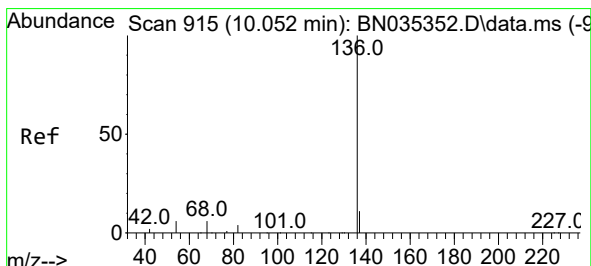
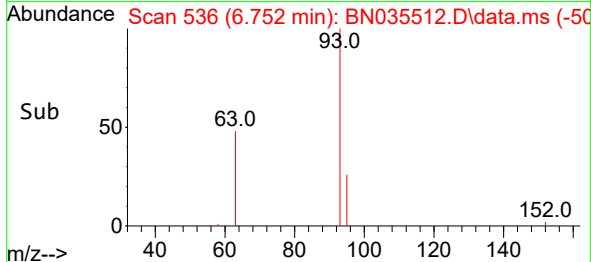
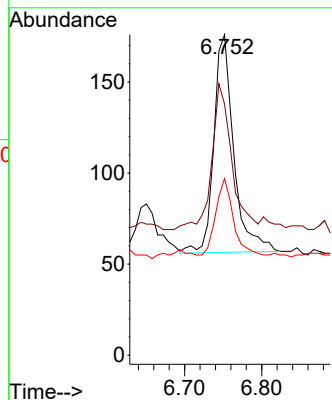
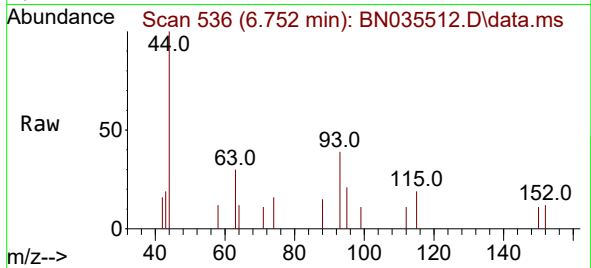




#6
bis(2-Chloroethyl)ether
Concen: 0.053 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

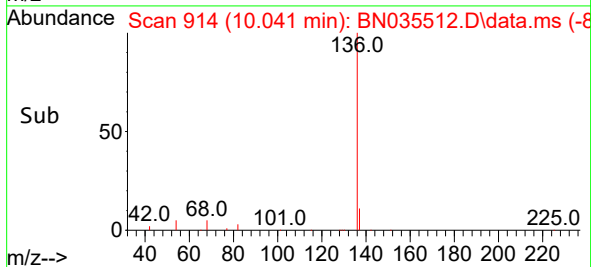
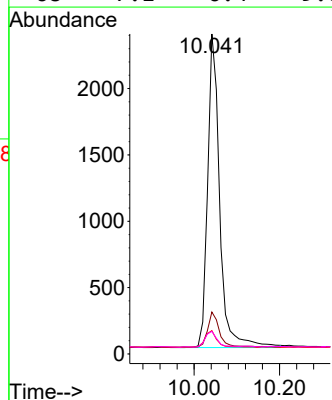
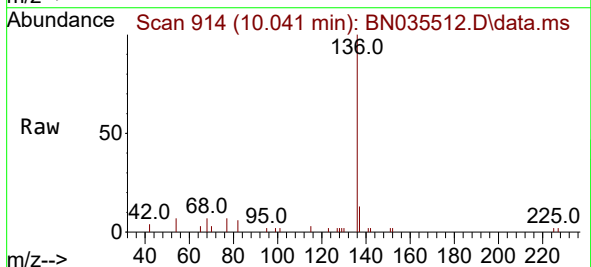
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

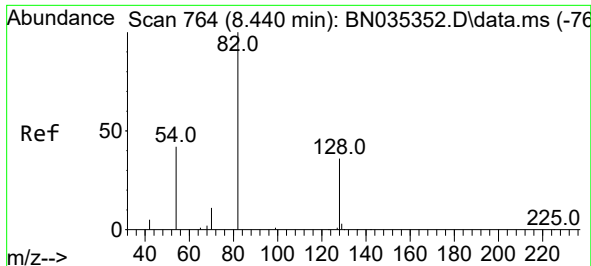
Tgt Ion: 93 Resp: 215
Ion Ratio Lower Upper
93 100
63 66.0 50.4 75.6
95 34.0 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion: 136 Resp: 4623
Ion Ratio Lower Upper
136 100
137 13.1 10.2 15.2
54 7.3 6.1 9.1
68 7.1 6.4 9.6

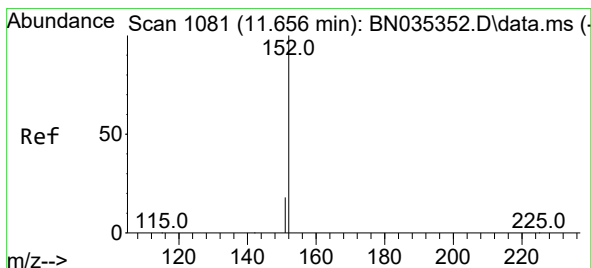
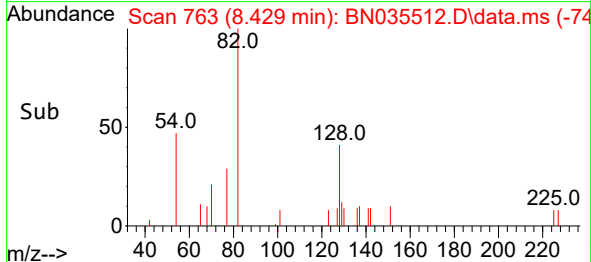
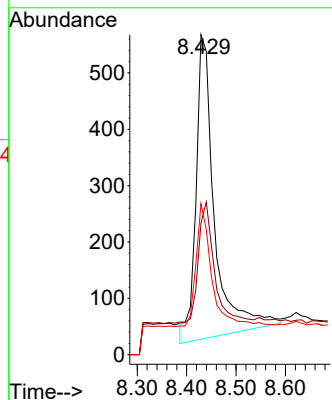
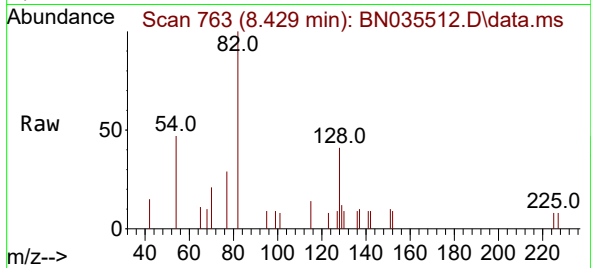




#8
Nitrobenzene-d5
Concen: 0.499 ng
RT: 8.429 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

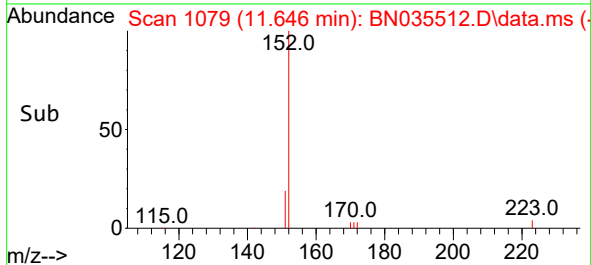
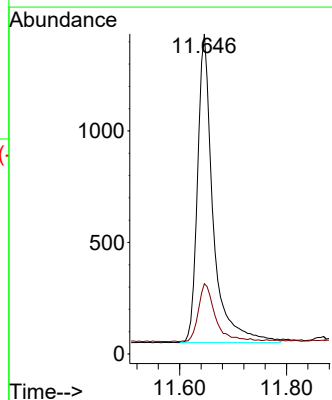
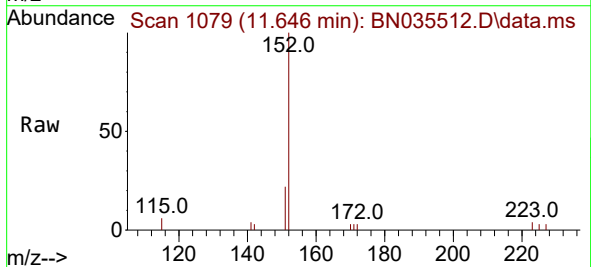
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

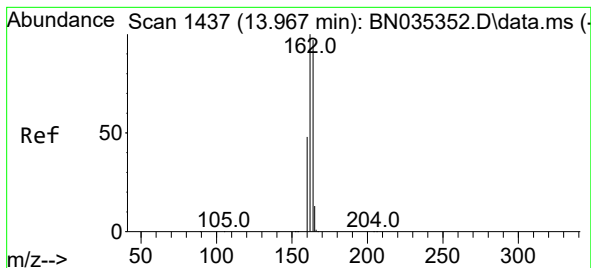
Tgt Ion: 82 Resp: 1409
Ion Ratio Lower Upper
82 100
128 41.2 33.4 50.0
54 47.2 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.387 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion: 152 Resp: 2800
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 1437

Delta R.T. -0.011 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

Instrument :

BNA_N

ClientSampleId :

RE108D2-20241206

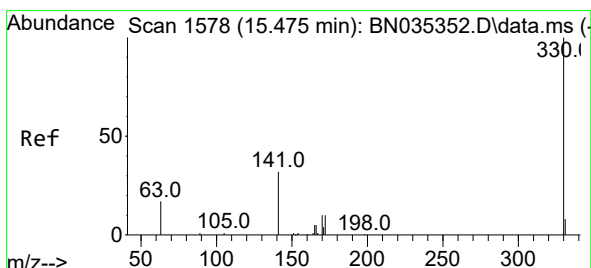
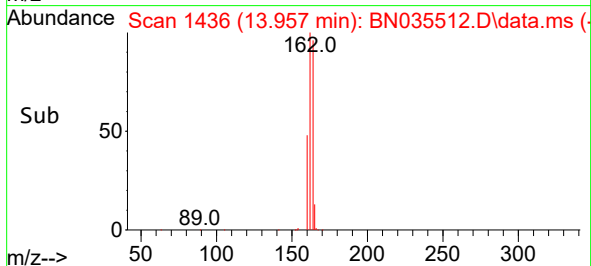
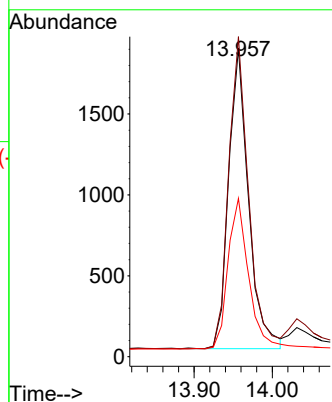
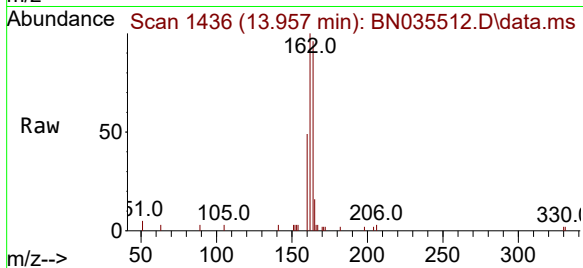
Tgt Ion:164 Resp: 3281

Ion Ratio Lower Upper

164 100

162 103.8 82.2 123.2

160 51.3 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.297 ng

RT: 15.464 min Scan# 1577

Delta R.T. -0.011 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

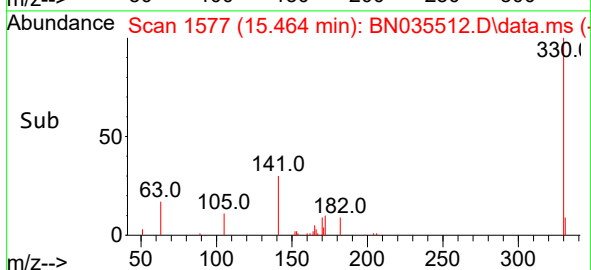
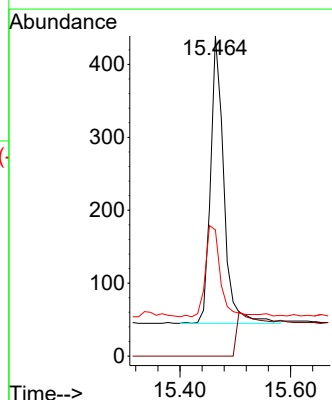
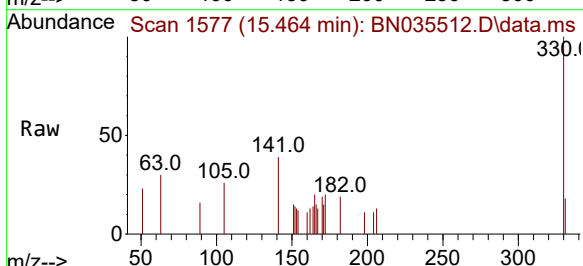
Tgt Ion:330 Resp: 691

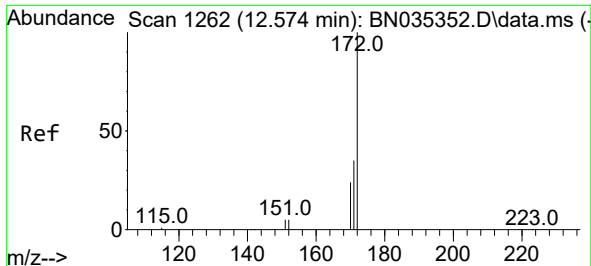
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 36.8 26.6 40.0

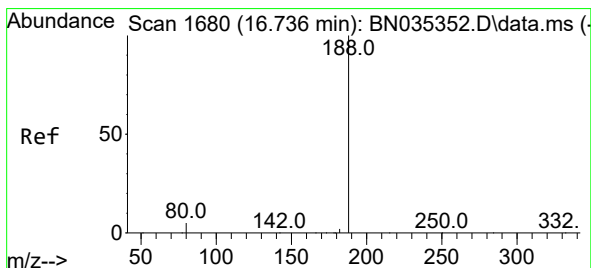
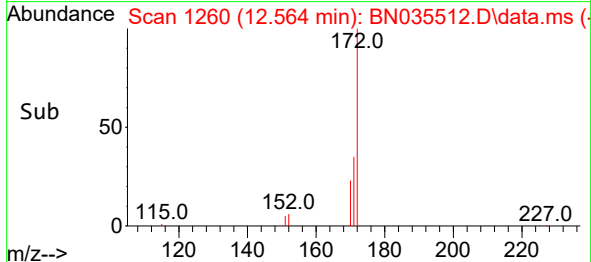
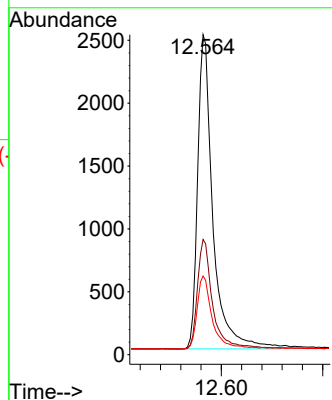
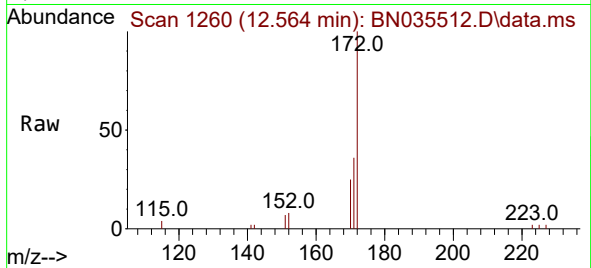




#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

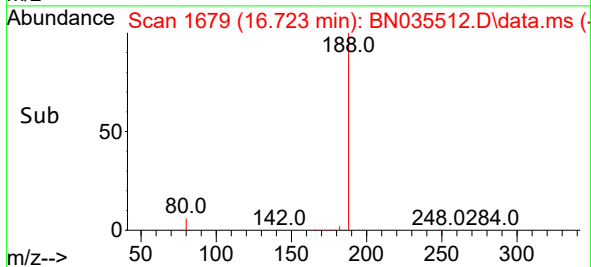
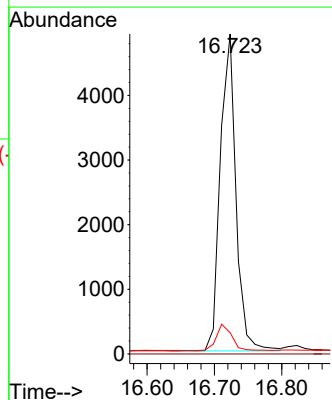
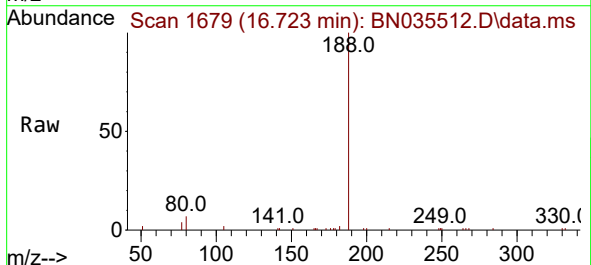
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

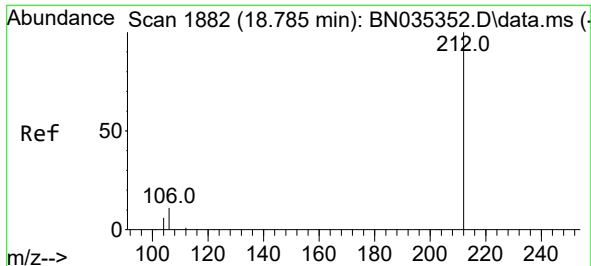
Tgt Ion:172	Resp:	5236
Ion	Ratio	Lower Upper
172	100	
171	36.0	29.0 43.4
170	24.6	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion:188	Resp:	7900
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	6.6	4.6 6.8

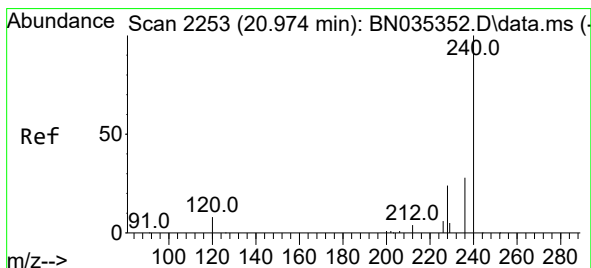
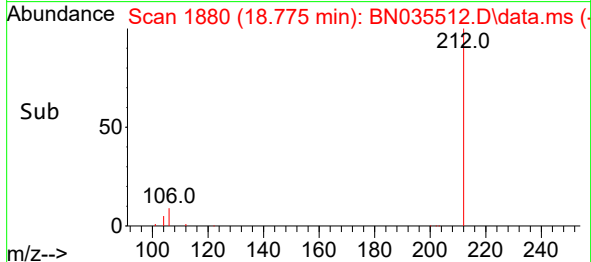
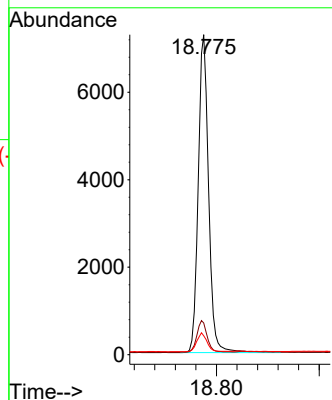
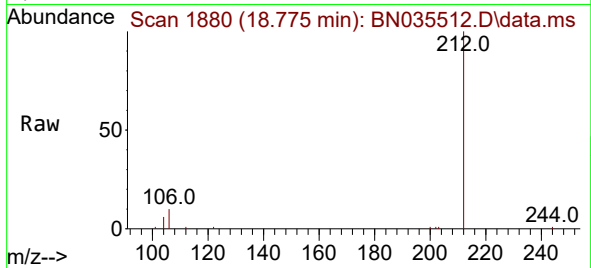




#27
Fluoranthene-d10
Concen: 0.458 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

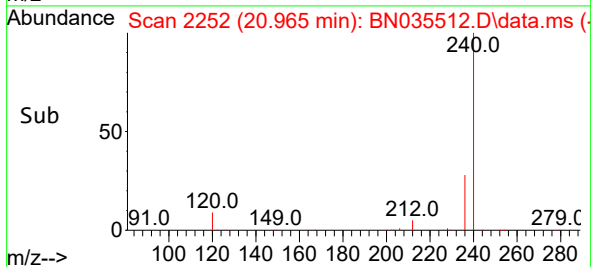
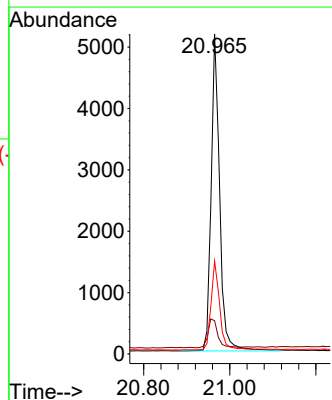
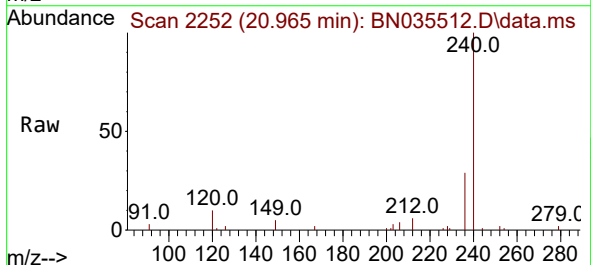
Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206

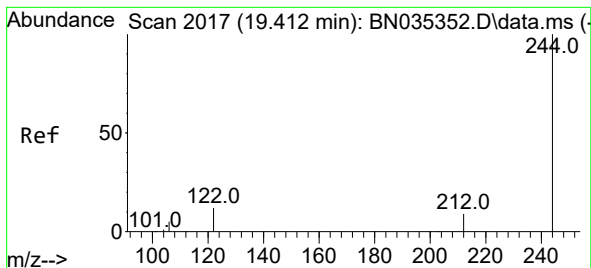
Tgt Ion:212 Resp: 10250
Ion Ratio Lower Upper
212 100
106 9.9 9.2 13.8
104 5.9 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Tgt Ion:240 Resp: 7073
Ion Ratio Lower Upper
240 100
120 10.4 7.9 11.9
236 29.1 22.9 34.3





#31

Terphenyl-d14

Concen: 0.643 ng

RT: 19.402 min Scan# 2017

Delta R.T. -0.009 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

Instrument :

BNA_N

ClientSampleId :

RE108D2-20241206

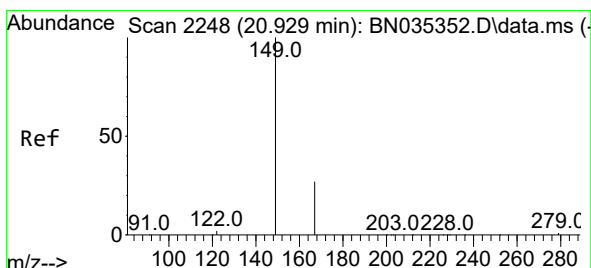
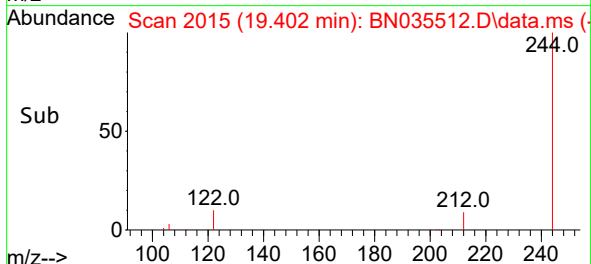
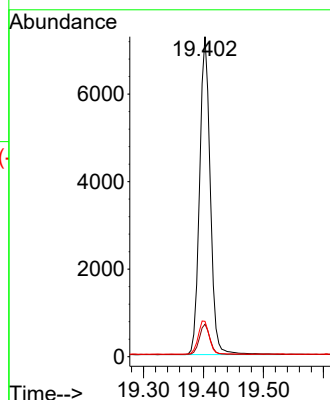
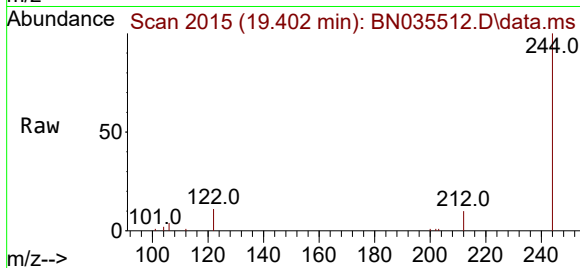
Tgt Ion:244 Resp: 8977

Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

122 11.1 10.3 15.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.076 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.009 min

Lab File: BN035512.D

Acq: 09 Dec 2024 18:19

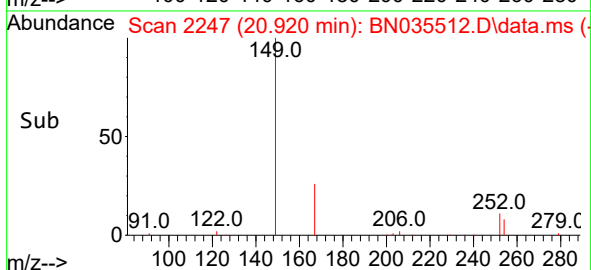
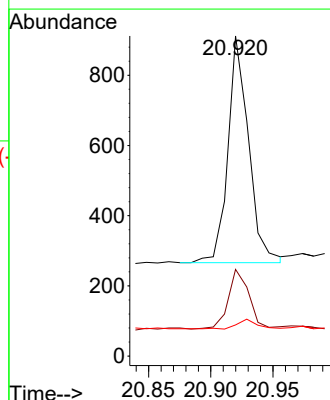
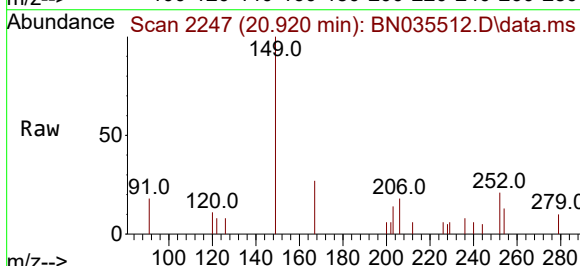
Tgt Ion:149 Resp: 745

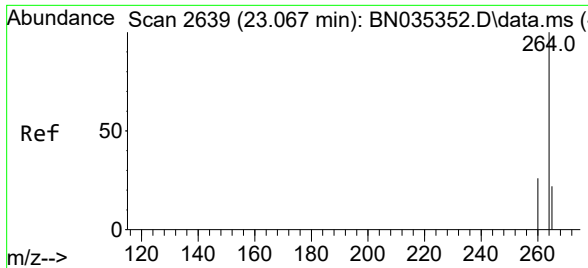
Ion Ratio Lower Upper

149 100

167 26.8 22.2 33.4

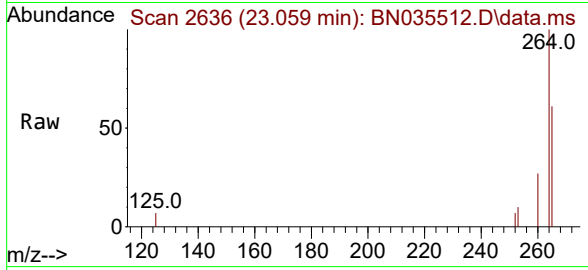
279 3.8 2.7 4.1





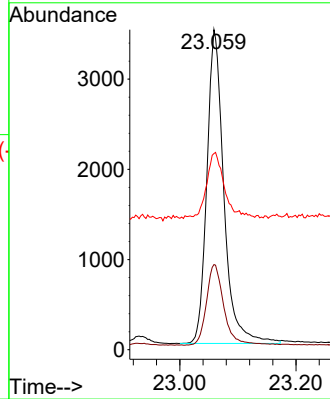
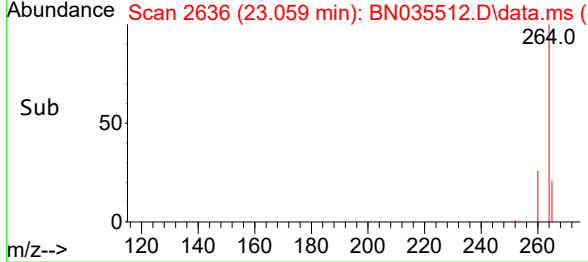
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN035512.D
Acq: 09 Dec 2024 18:19

Instrument :
BNA_N
ClientSampleId :
RE108D2-20241206



Tgt Ion:264 Resp: 7058

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	61.3	40.2	60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035513.D
 Acq On : 09 Dec 2024 18:55
 Operator : RC/JU
 Sample : P5164-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE108D1-20241206

Quant Time: Dec 10 01:27:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

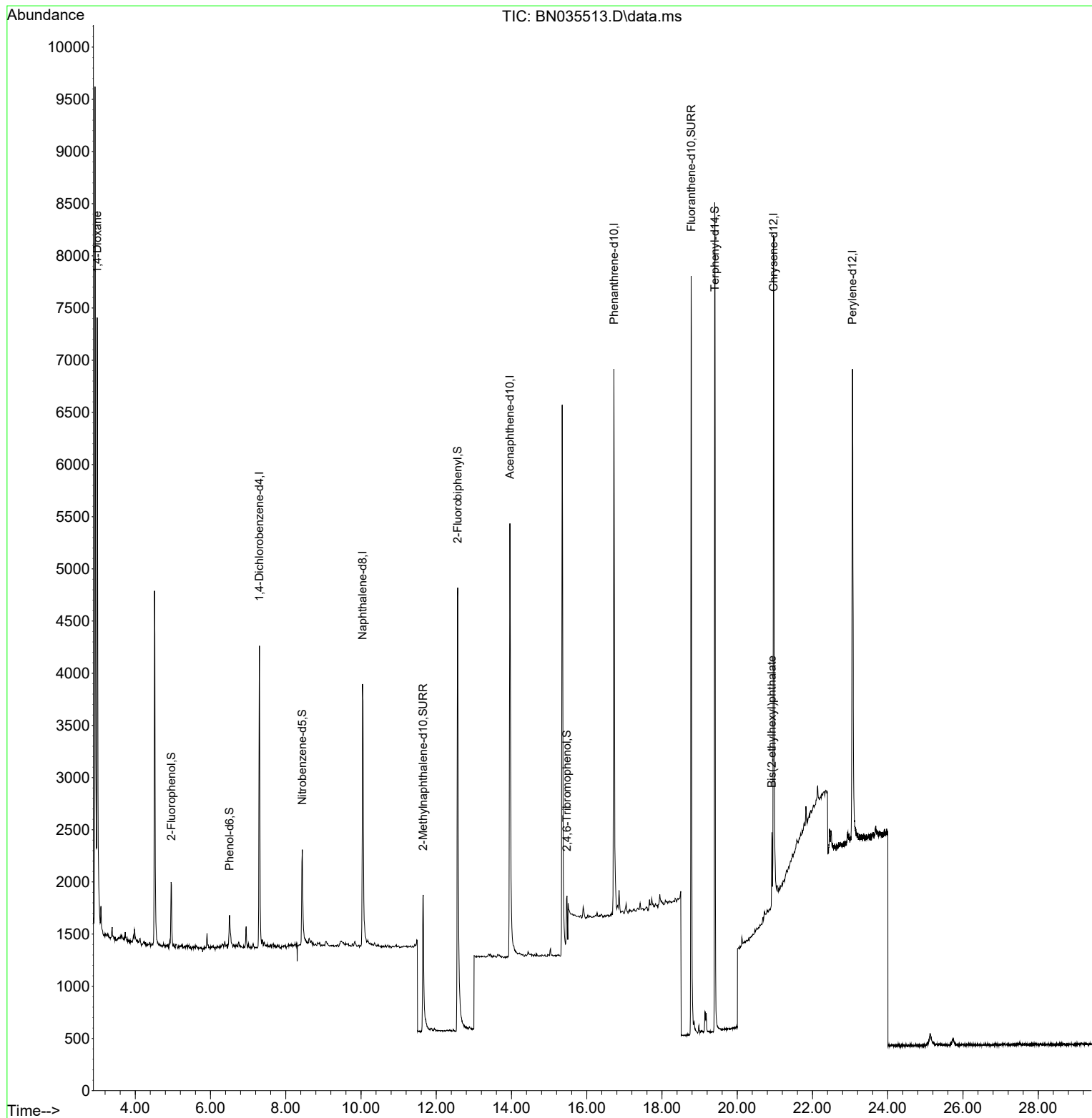
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1500	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4288	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3273	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7859	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	6610	0.400	ng	# 0.00
35) Perylene-d12	23.061	264	6392	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	579	0.154	ng	0.00
5) Phenol-d6	6.506	99	378	0.084	ng	0.00
8) Nitrobenzene-d5	8.440	82	1314	0.502	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2641	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	585	0.252	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5677	0.459	ng	0.00
27) Fluoranthene-d10	18.775	212	9091	0.408	ng	0.00
31) Terphenyl-d14	19.402	244	8386	0.643	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.989	88	4417	3.080	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	827	0.091	ng	# 92

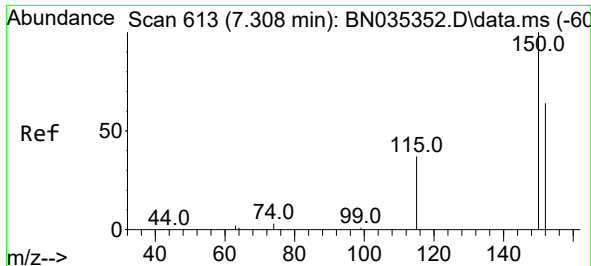
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035513.D
Acq On : 09 Dec 2024 18:55
Operator : RC/JU
Sample : P5164-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

Quant Time: Dec 10 01:27:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

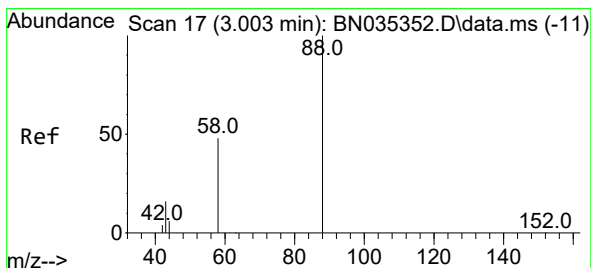
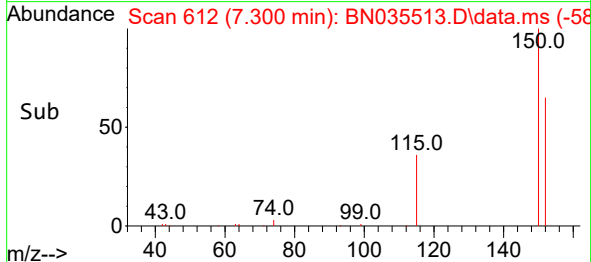
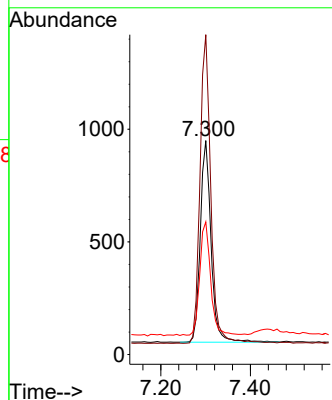
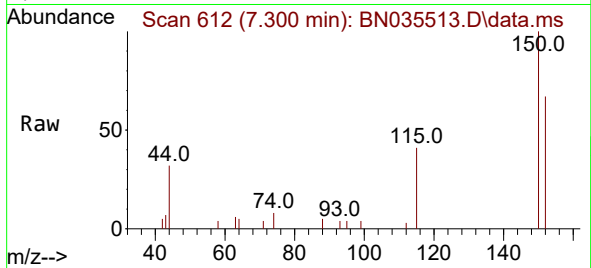




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

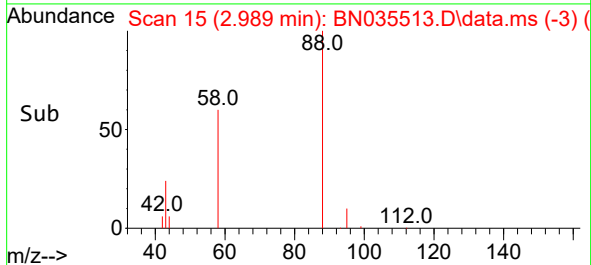
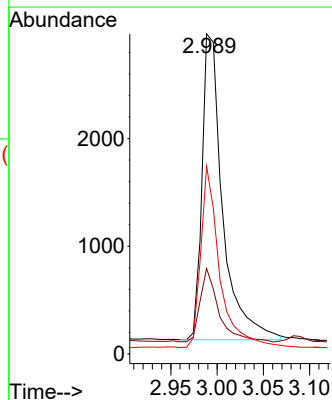
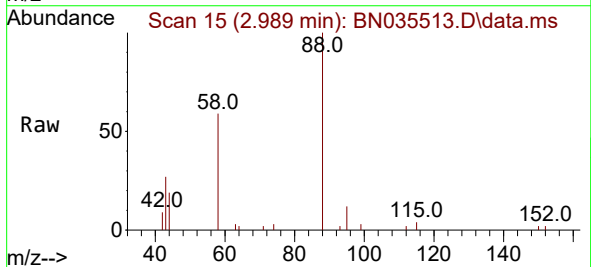
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

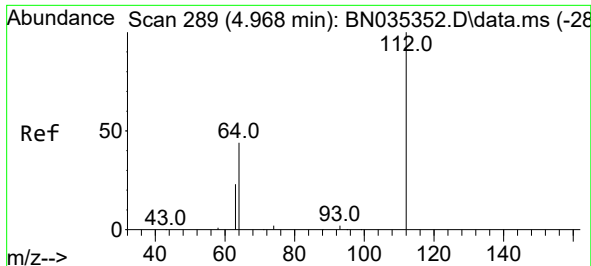
Tgt Ion:152 Resp: 1500
Ion Ratio Lower Upper
152 100
150 149.5 124.0 186.0
115 62.0 49.6 74.4



#2
1,4-Dioxane
Concen: 3.080 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion: 88 Resp: 4417
Ion Ratio Lower Upper
88 100
43 21.6 17.2 25.8
58 54.2 44.5 66.7

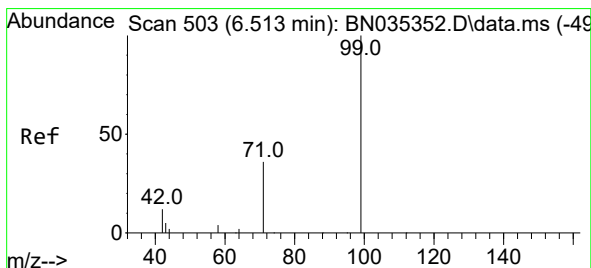
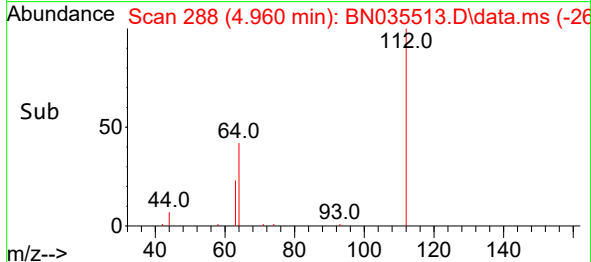
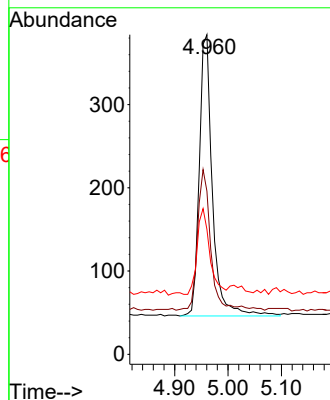
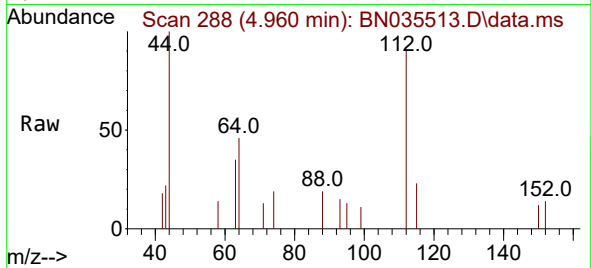




#4
2-Fluorophenol
Concen: 0.154 ng
RT: 4.960 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

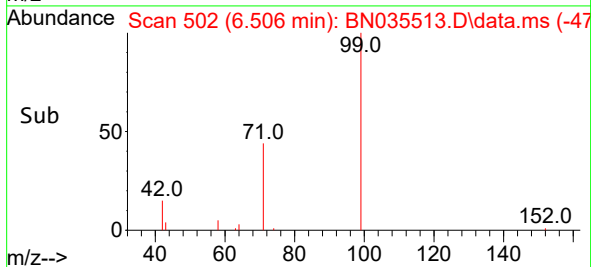
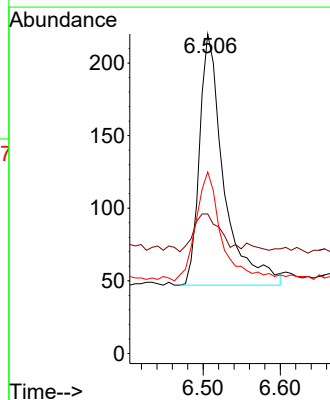
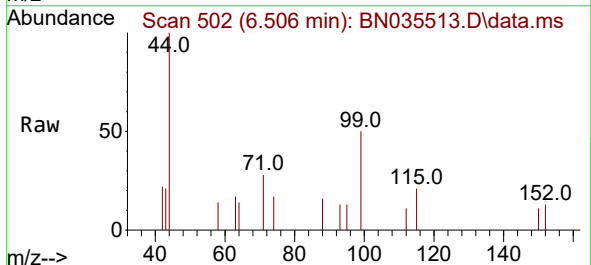
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

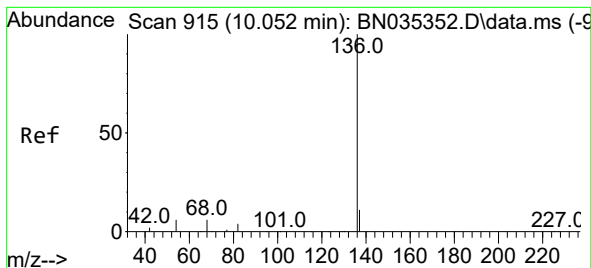
Tgt Ion:112 Resp: 579
Ion Ratio Lower Upper
112 100
64 49.9 39.8 59.8
63 29.2 21.0 31.6



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion: 99 Resp: 378
Ion Ratio Lower Upper
99 100
42 16.4 11.4 17.2
71 48.1 29.3 43.9#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.041 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

Instrument :

BNA_N

ClientSampleId :

RE108D1-20241206

Tgt Ion:136 Resp: 4288

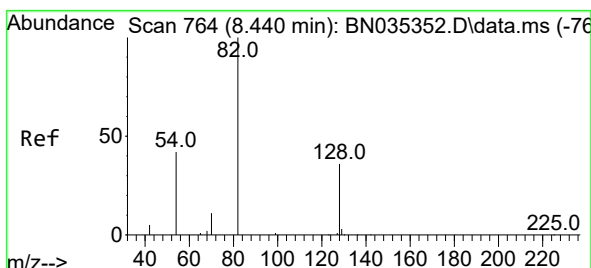
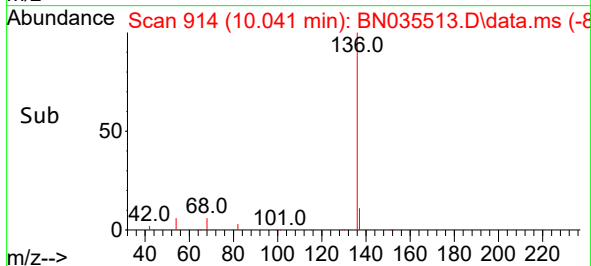
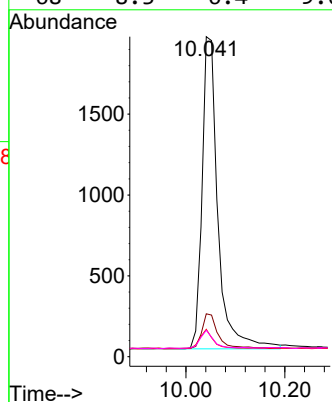
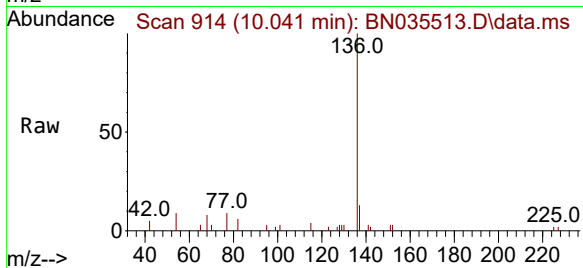
Ion Ratio Lower Upper

136 100

137 13.4 10.2 15.2

54 8.6 6.1 9.1

68 8.3 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.502 ng

RT: 8.440 min Scan# 764

Delta R.T. -0.000 min

Lab File: BN035513.D

Acq: 09 Dec 2024 18:55

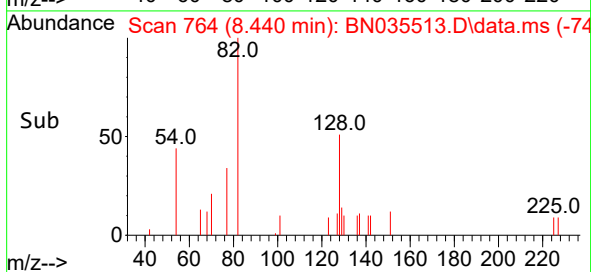
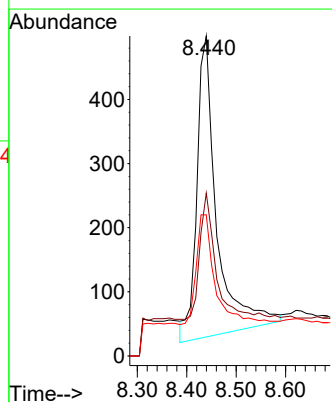
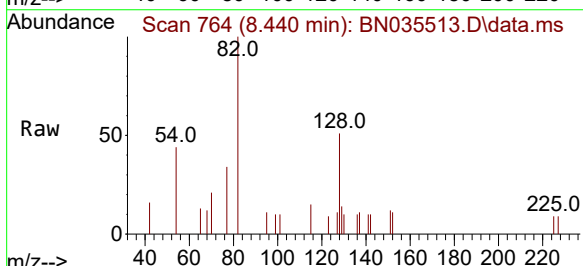
Tgt Ion: 82 Resp: 1314

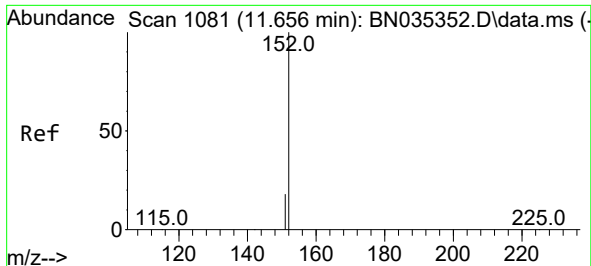
Ion Ratio Lower Upper

82 100

128 50.9 33.4 50.0#

54 44.1 36.7 55.1

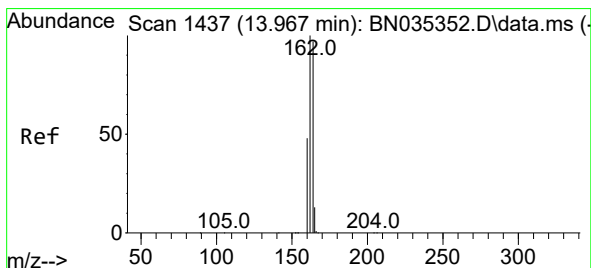
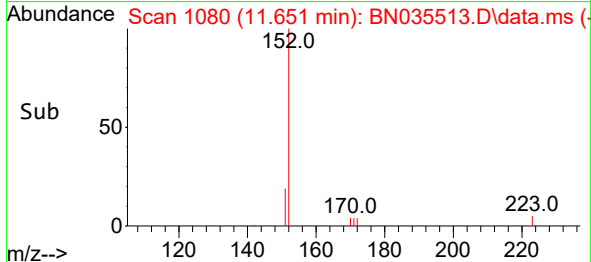
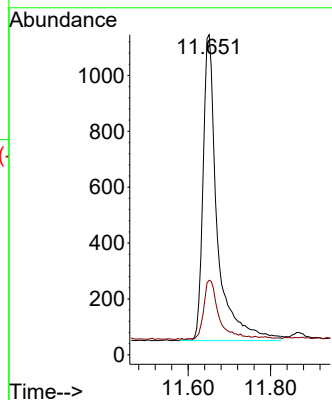
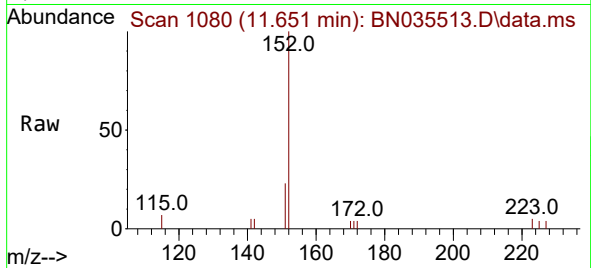




#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

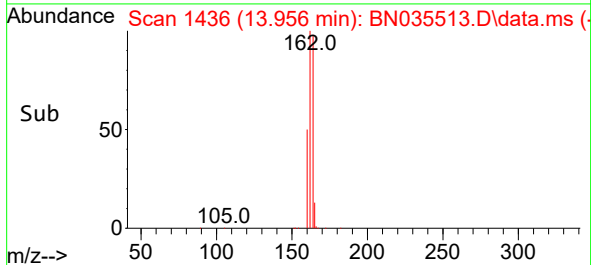
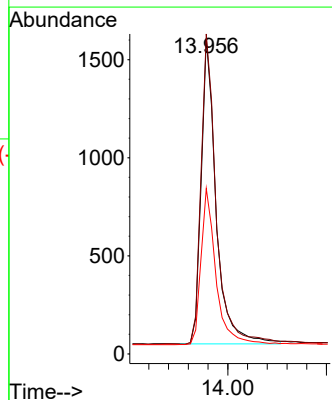
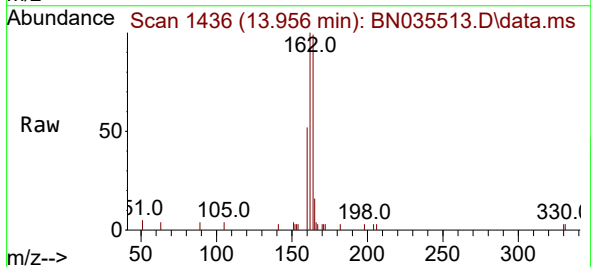
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

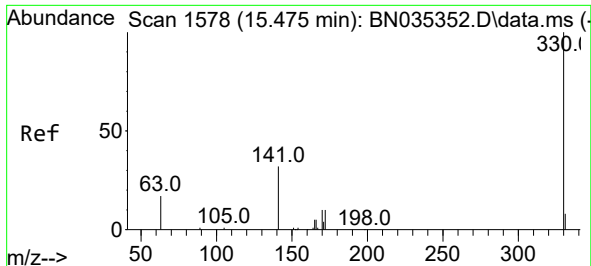
Tgt Ion:152 Resp: 2641
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:164 Resp: 3273
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 52.5 40.1 60.1

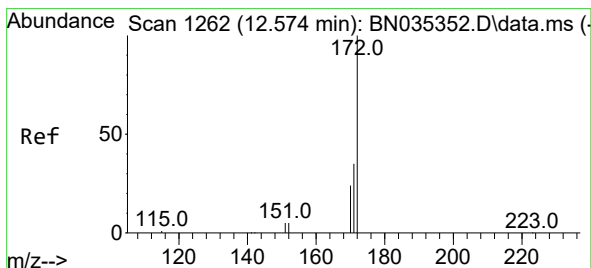
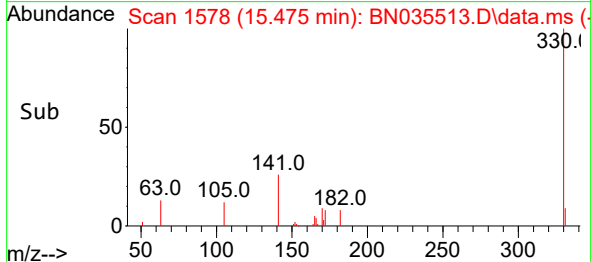
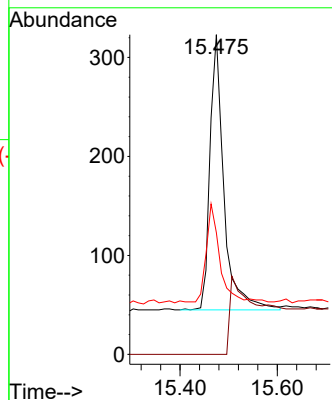
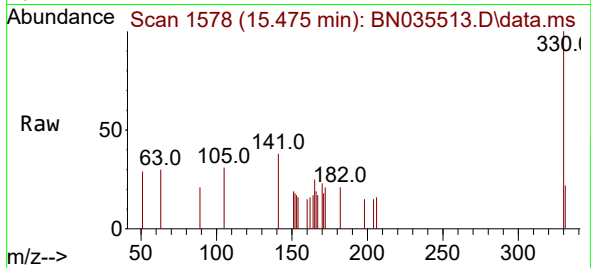




#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.475 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

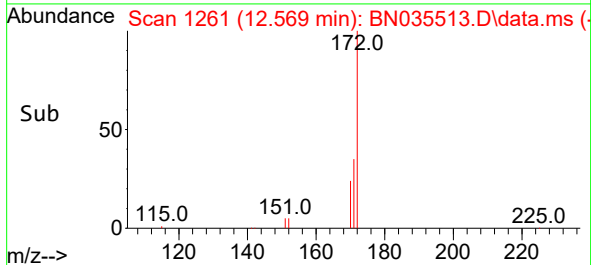
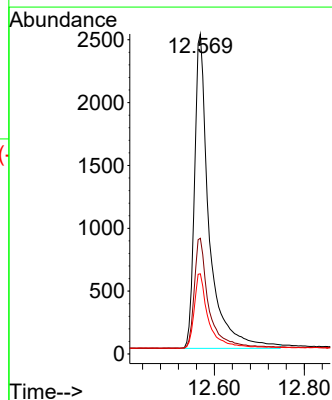
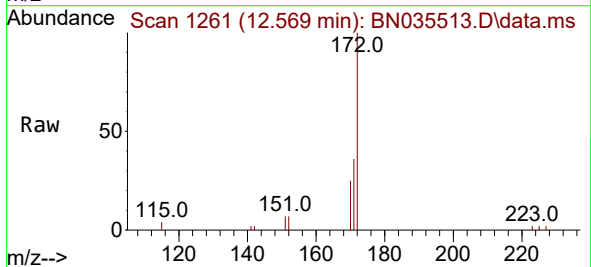
Instrument :
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ClientSampleId :
RE108D1-20241206

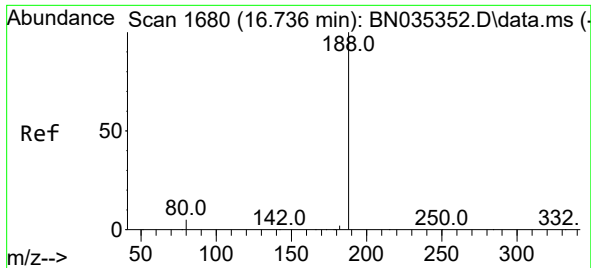
Tgt Ion:330 Resp: 585
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.459 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:172 Resp: 5677
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 25.1 19.8 29.8

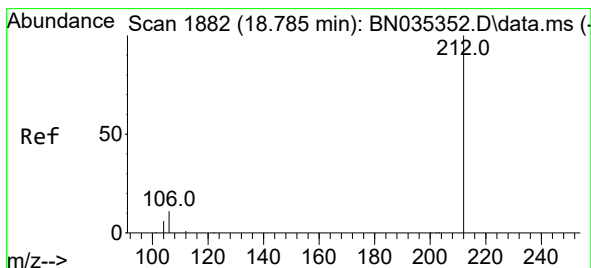
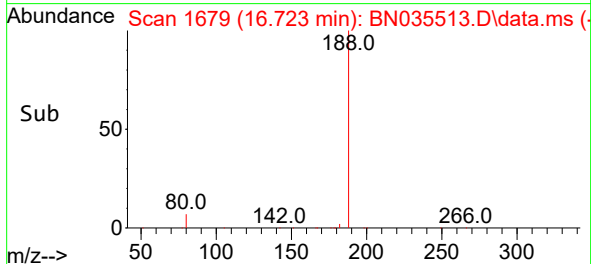
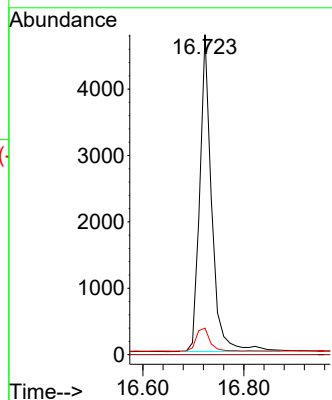
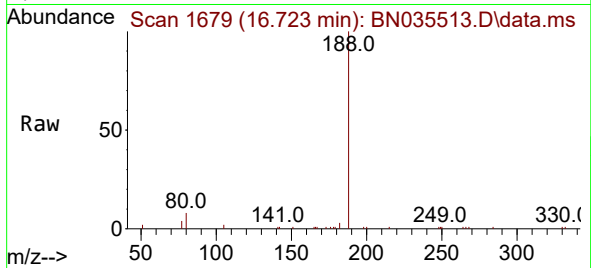




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.013 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

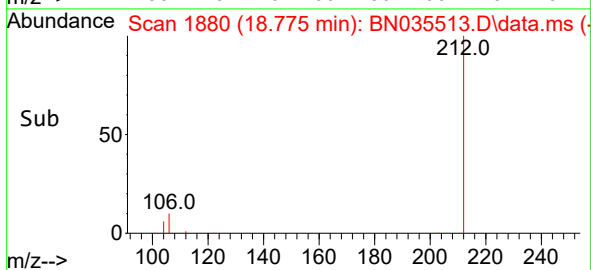
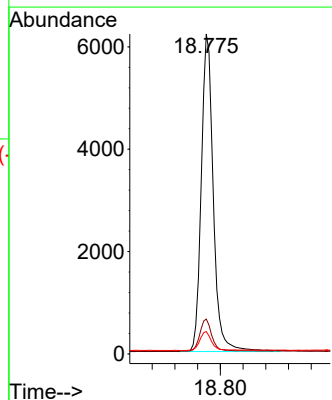
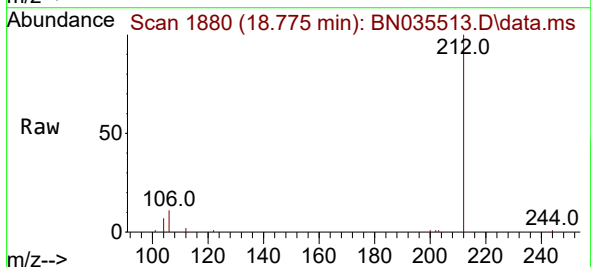
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ClientSampleId :
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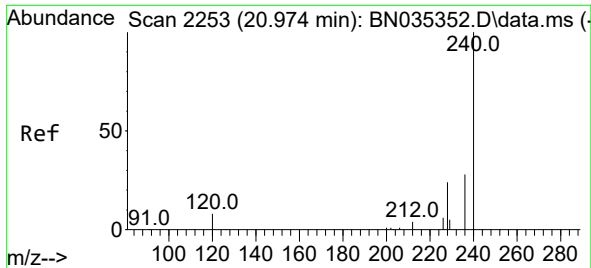
Tgt Ion:188 Resp: 7859
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:212 Resp: 9091
Ion Ratio Lower Upper
212 100
106 9.9 9.2 13.8
104 6.0 5.3 7.9

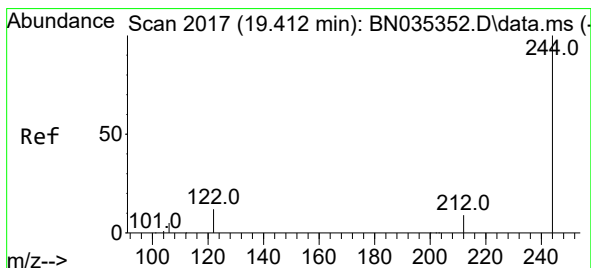
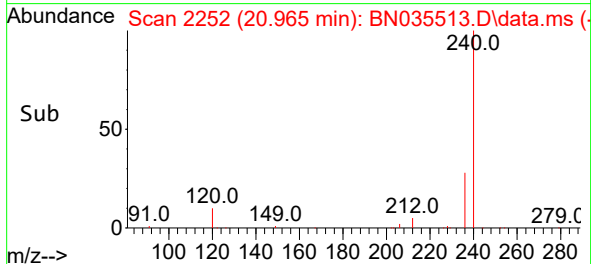
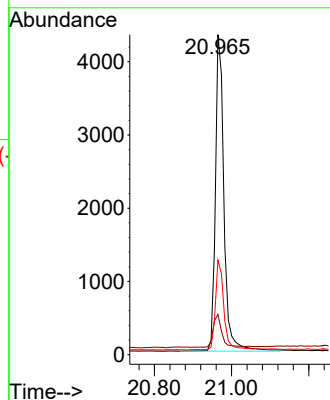
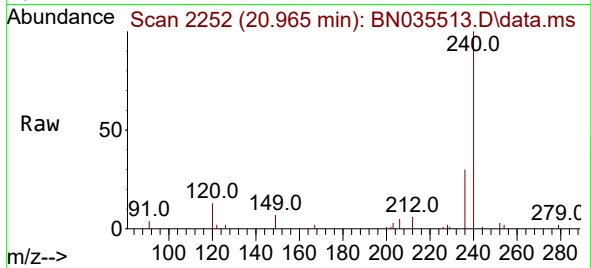




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

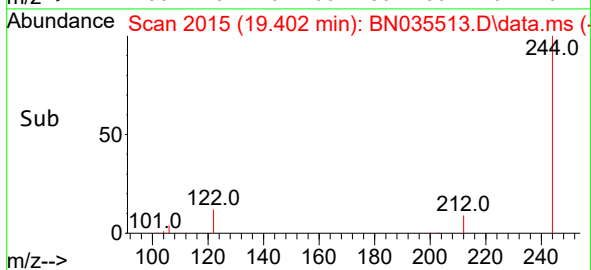
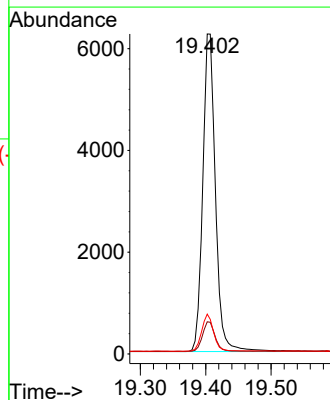
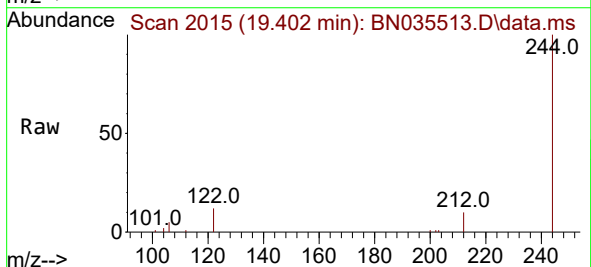
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RE108D1-20241206

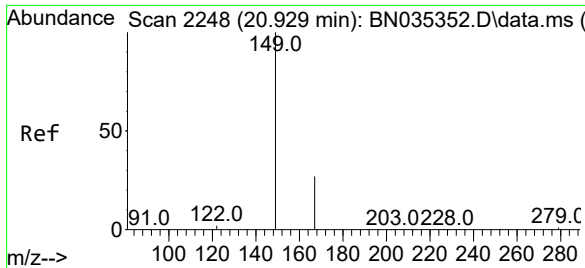
Tgt Ion:240 Resp: 6610
Ion Ratio Lower Upper
240 100
120 12.6 7.9 11.9#
236 29.6 22.9 34.3



#31
Terphenyl-d14
Concen: 0.643 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:244 Resp: 8386
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.5 10.3 15.5

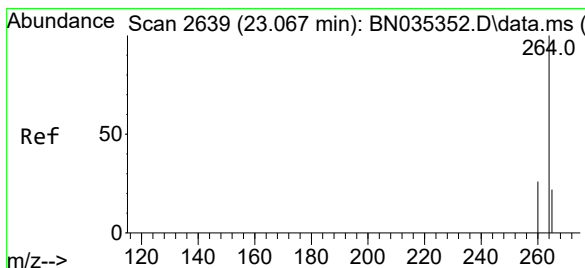
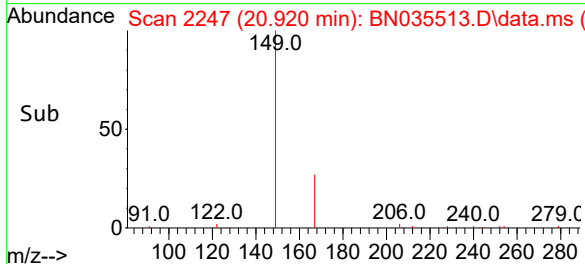
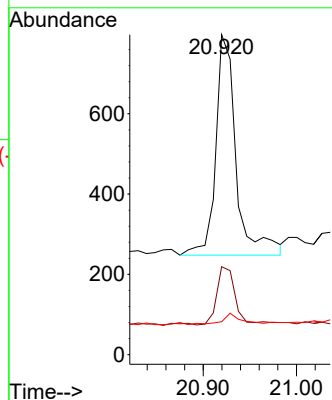
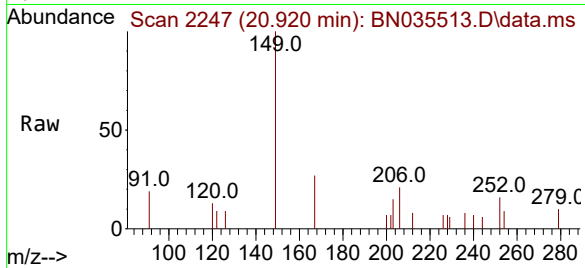




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.920 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

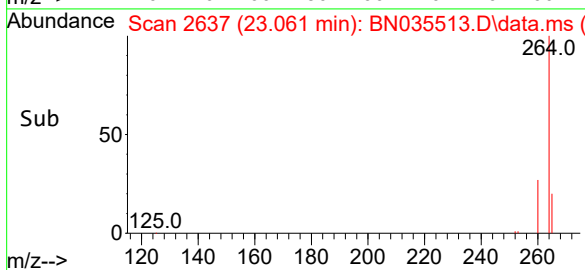
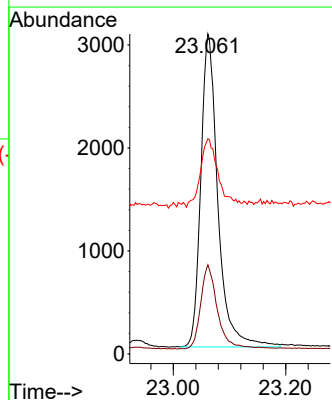
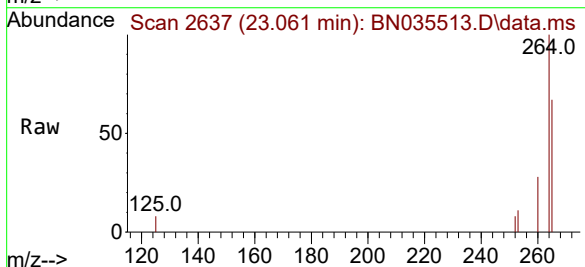
Instrument :
BNA_N
ClientSampleId :
RE108D1-20241206

Tgt Ion:149 Resp: 827
Ion Ratio Lower Upper
149 100
167 23.3 22.2 33.4
279 4.8 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.061 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035513.D
Acq: 09 Dec 2024 18:55

Tgt Ion:264 Resp: 6392
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 67.2 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
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 Acq On : 09 Dec 2024 19:31
 Operator : RC/JU
 Sample : P5164-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE105D2-20241206

Quant Time: Dec 10 01:27:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

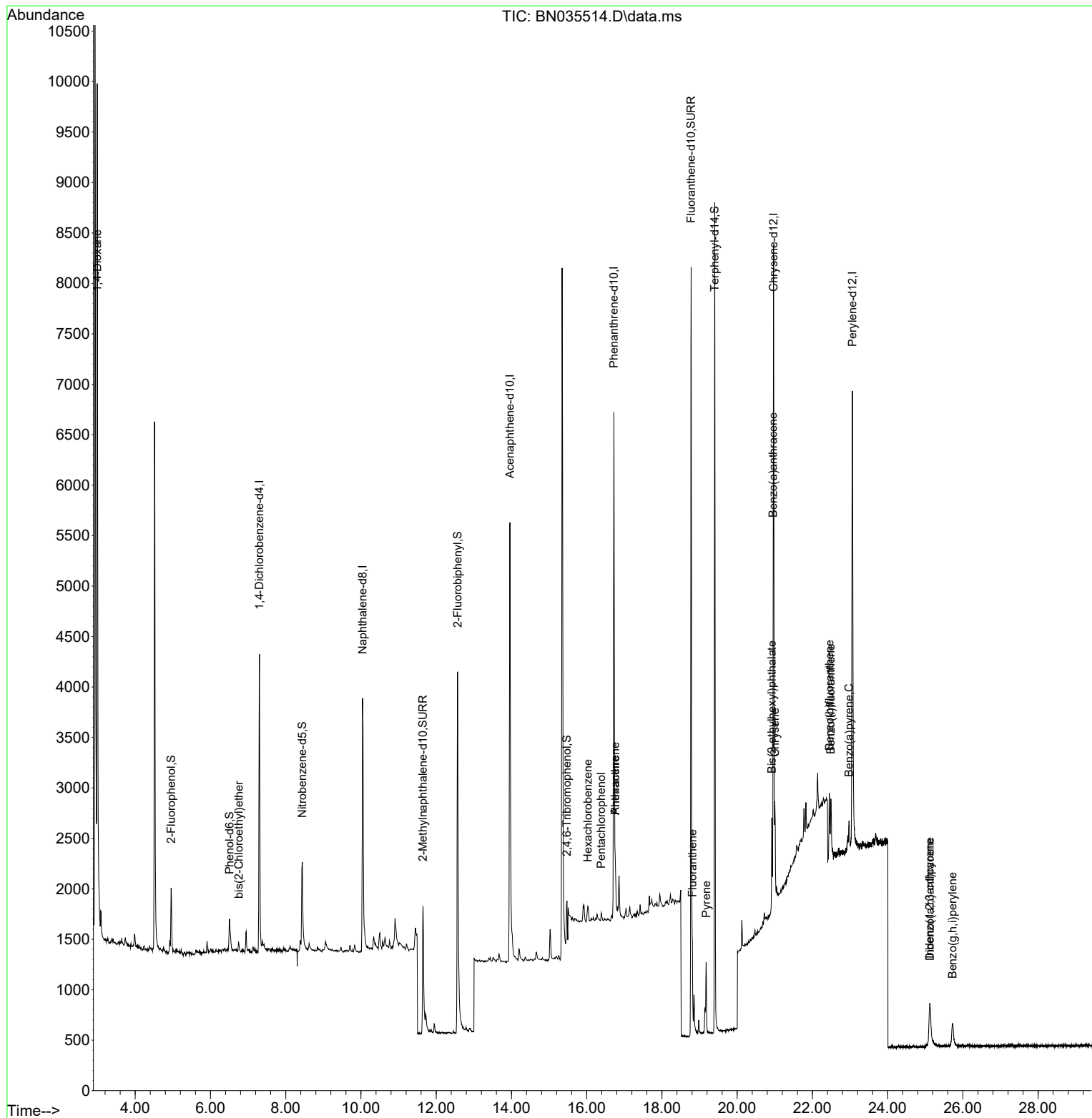
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1515	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4180	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3091	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7600	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	6224	0.400	ng	0.00
35) Perylene-d12	23.061	264	6145	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	573	0.151	ng	-0.01
5) Phenol-d6	6.506	99	418	0.092	ng	0.00
8) Nitrobenzene-d5	8.440	82	1269	0.497	ng	0.00
11) 2-Methylnaphthalene-d10	11.646	152	2519	0.385	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	562	0.256	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4789	0.410	ng	0.00
27) Fluoranthene-d10	18.775	212	9287	0.431	ng	0.00
31) Terphenyl-d14	19.402	244	8183	0.666	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.989	88	6196	4.278	ng	99
6) bis(2-Chloroethyl)ether	6.751	93	83	0.022	ng	# 86
22) Hexachlorobenzene	16.028	284	115	0.022	ng	93
24) Pentachlorophenol	16.388	266	51	0.022	ng	# 76
25) Phenanthrene	16.760	178	430	0.021	ng	97
26) Anthracene	16.760	178	430	0.023	ng	97
28) Fluoranthene	18.808	202	717	0.025	ng	# 96
30) Pyrene	19.175	202	646	0.028	ng	99
32) Benzo(a)anthracene	20.956	228	618	0.028	ng	# 85
33) Chrysene	21.000	228	757	0.034	ng	# 87
34) Bis(2-ethylhexyl)phtha...	20.920	149	882	0.103	ng	97
36) Indeno(1,2,3-cd)pyrene	25.117	276	670	0.028	ng	# 83
37) Benzo(b)fluoranthene	22.450	252	920	0.041	ng	# 31
38) Benzo(k)fluoranthene	22.488	252	733	0.033	ng	# 20
39) Benzo(a)pyrene	22.971	252	393	0.021	ng	# 1
40) Dibenzo(a,h)anthracene	25.123	278	465	0.025	ng	# 8
41) Benzo(g,h,i)perylene	25.722	276	580	0.029	ng	# 50

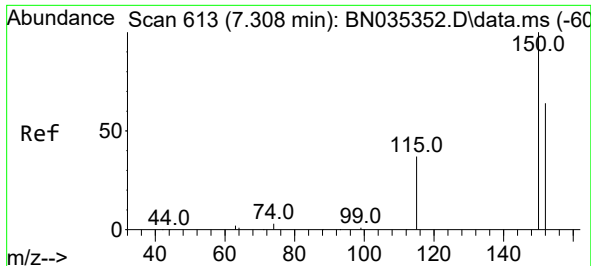
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035514.D
Acq On : 09 Dec 2024 19:31
Operator : RC/JU
Sample : P5164-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

Quant Time: Dec 10 01:27:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

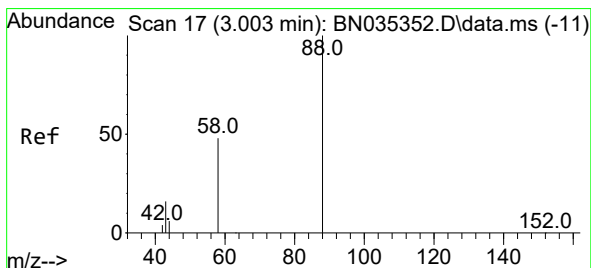
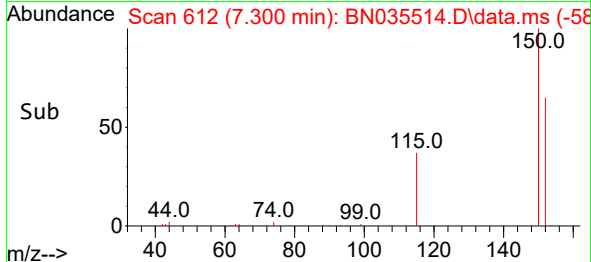
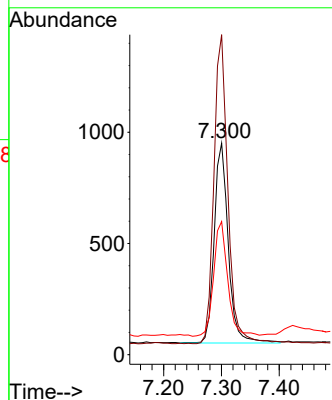
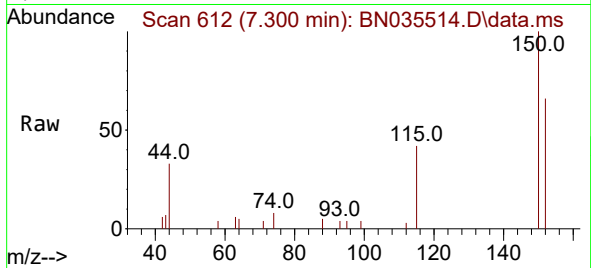




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

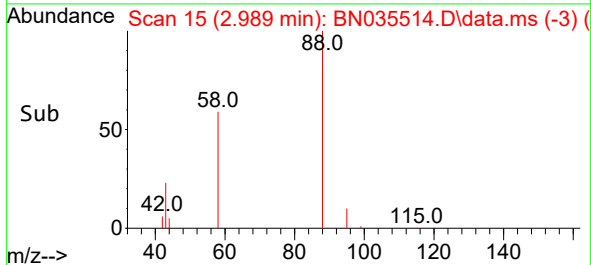
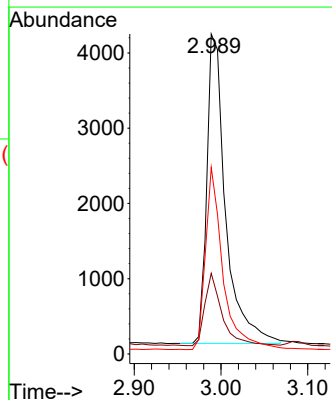
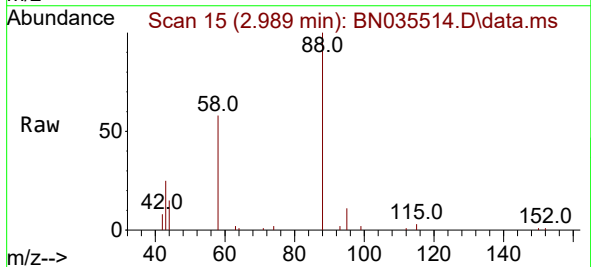
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

Tgt Ion:152 Resp: 1515
Ion Ratio Lower Upper
152 100
150 151.3 124.0 186.0
115 63.0 49.6 74.4

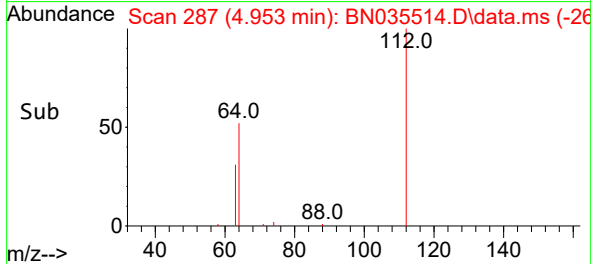
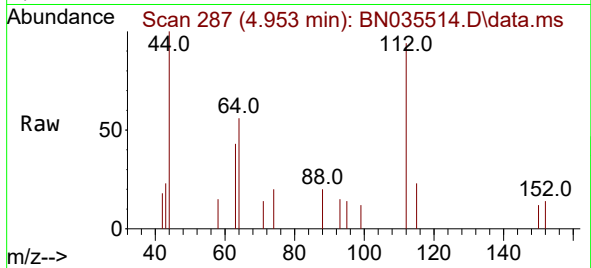
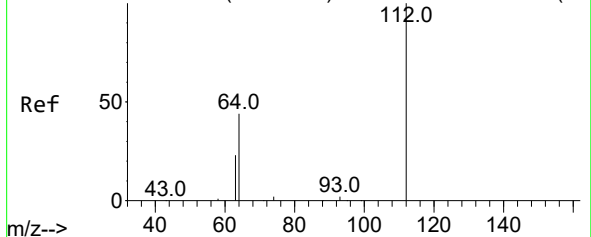


#2
1,4-Dioxane
Concen: 4.278 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion: 88 Resp: 6196
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 54.7 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.151 ng

RT: 4.953 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

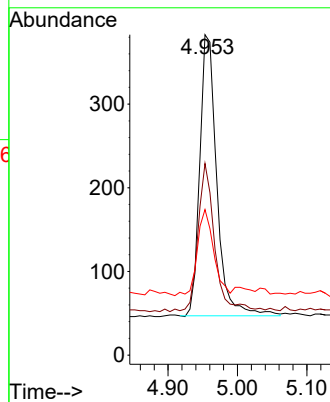
Tgt Ion:112 Resp: 573

Ion Ratio Lower Upper

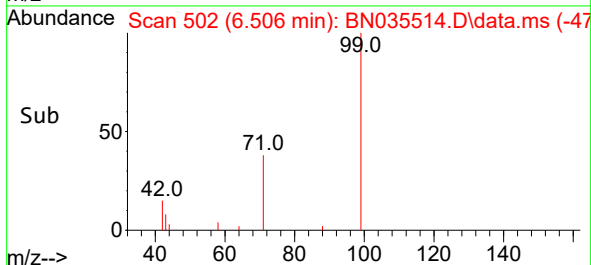
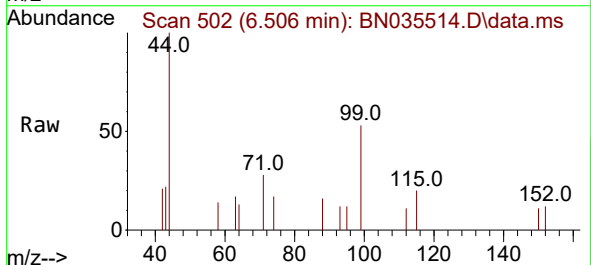
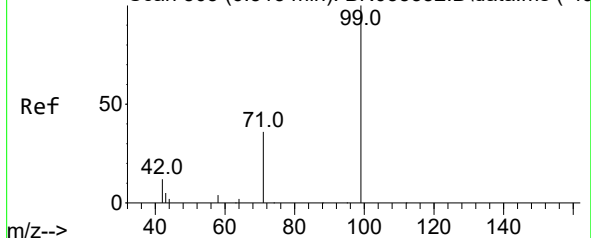
112 100

64 52.2 39.8 59.8

63 29.1 21.0 31.6



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.092 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

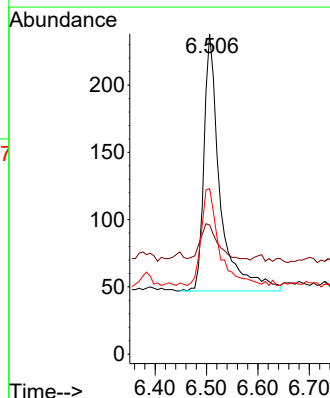
Tgt Ion: 99 Resp: 418

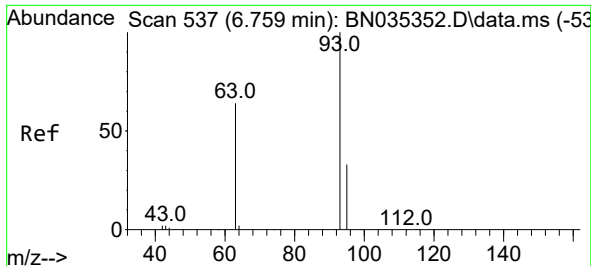
Ion Ratio Lower Upper

99 100

42 17.0 11.4 17.2

71 41.4 29.3 43.9

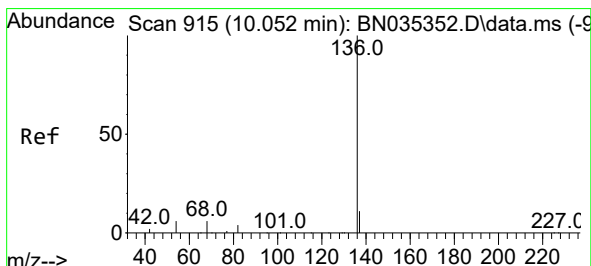
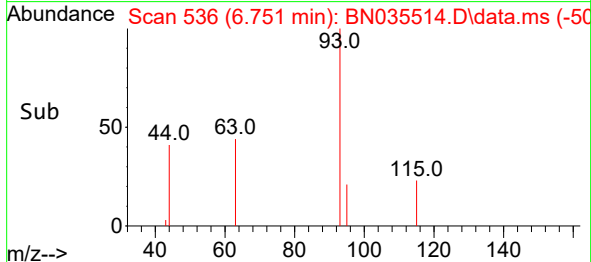
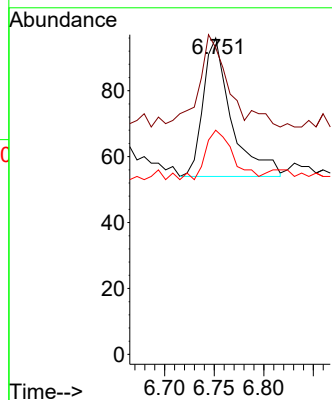
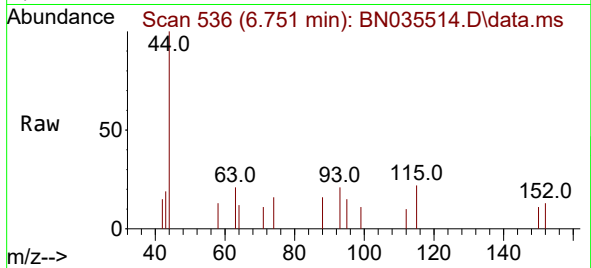




#6
bis(2-Chloroethyl)ether
Concen: 0.022 ng
RT: 6.751 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

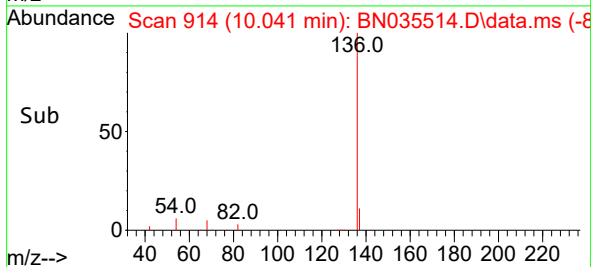
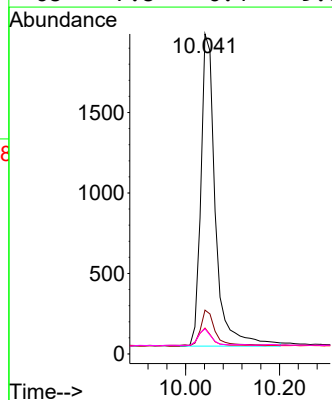
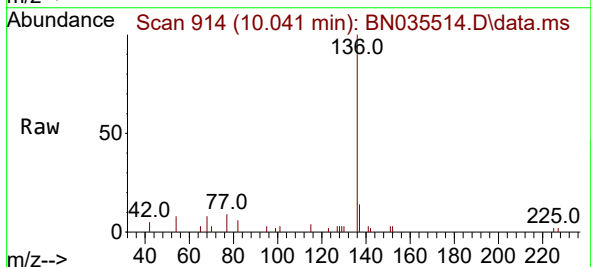
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

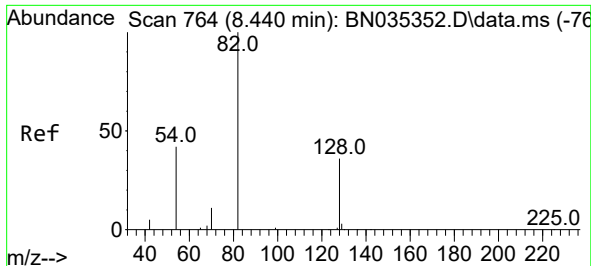
Tgt Ion: 93 Resp: 83
Ion Ratio Lower Upper
93 100
63 75.9 50.4 75.6#
95 37.3 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion: 136 Resp: 4180
Ion Ratio Lower Upper
136 100
137 13.7 10.2 15.2
54 8.1 6.1 9.1
68 7.8 6.4 9.6

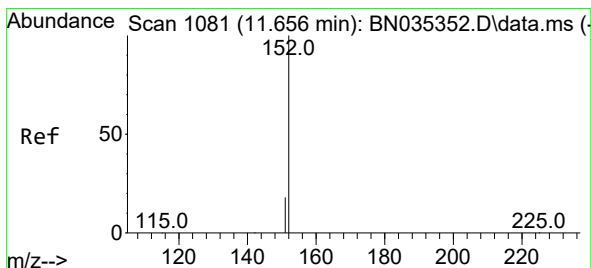
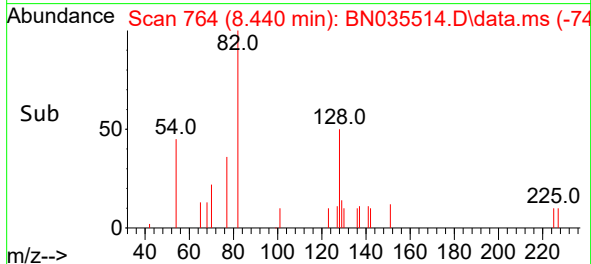
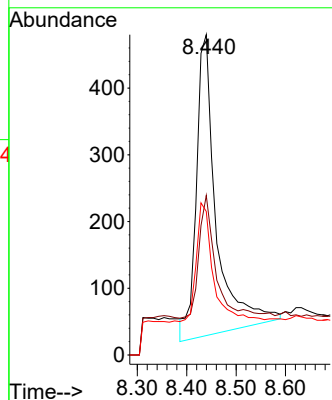
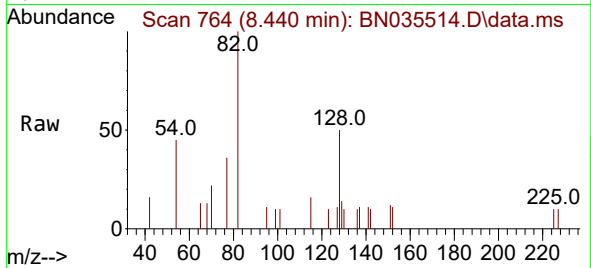




#8
Nitrobenzene-d5
Concen: 0.497 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

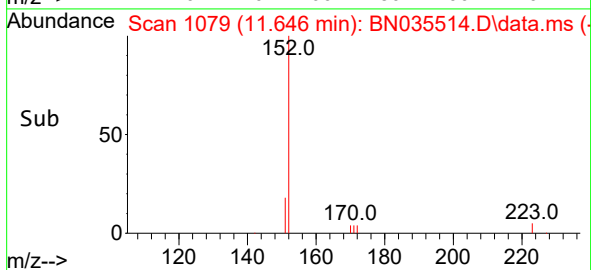
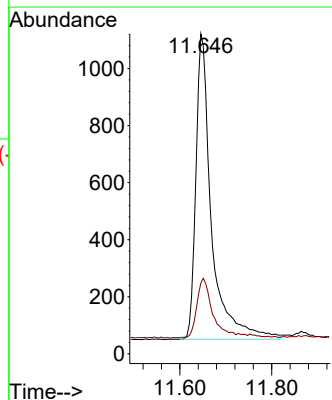
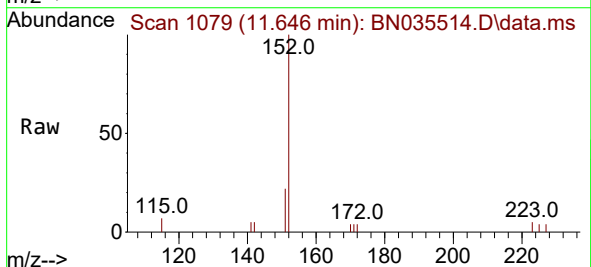
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

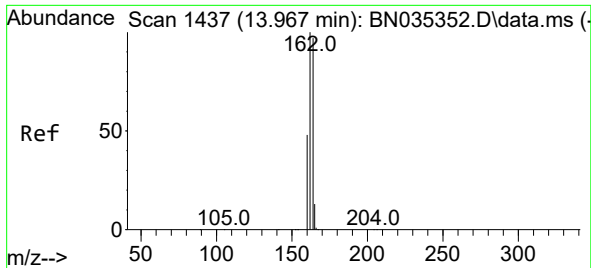
Tgt Ion: 82 Resp: 1269
Ion Ratio Lower Upper
82 100
128 49.8 33.4 50.0
54 44.8 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion: 152 Resp: 2519
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

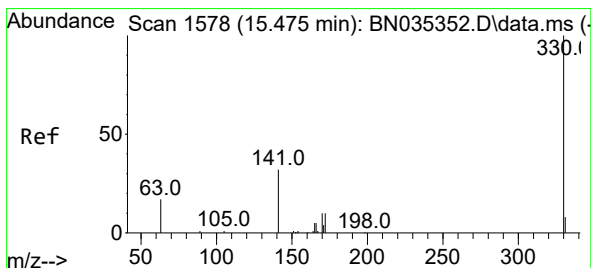
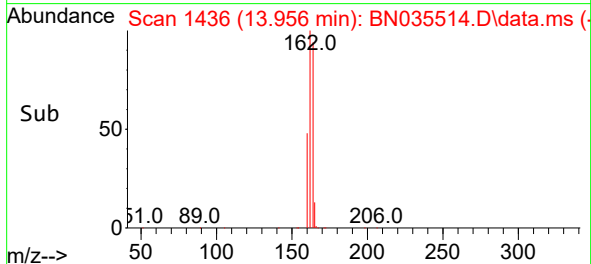
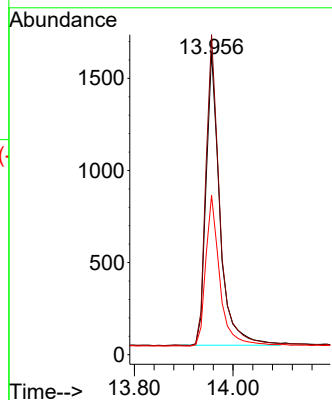
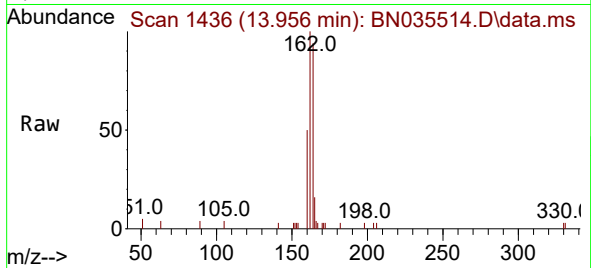




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

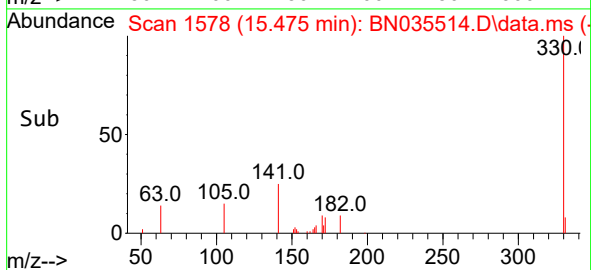
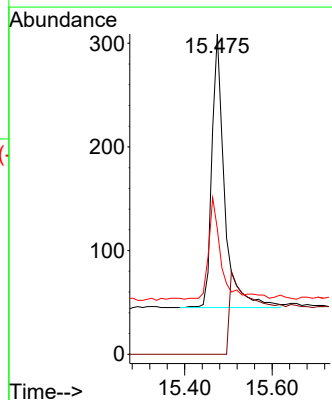
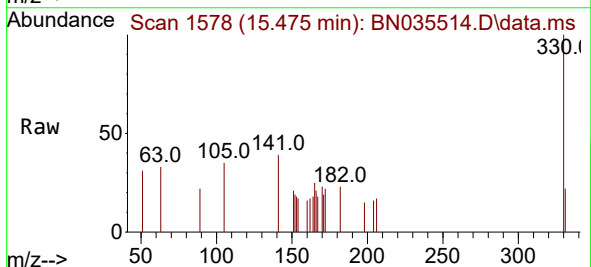
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

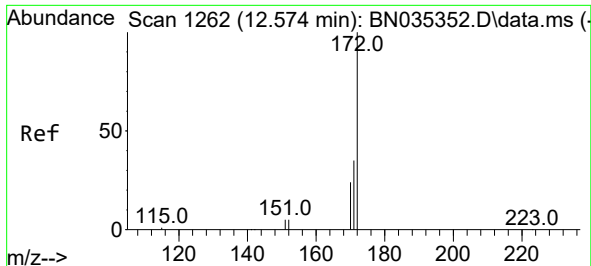
Tgt Ion:164 Resp: 3091
Ion Ratio Lower Upper
164 100
162 105.9 82.2 123.2
160 52.7 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.256 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:330 Resp: 562
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.5 26.6 40.0

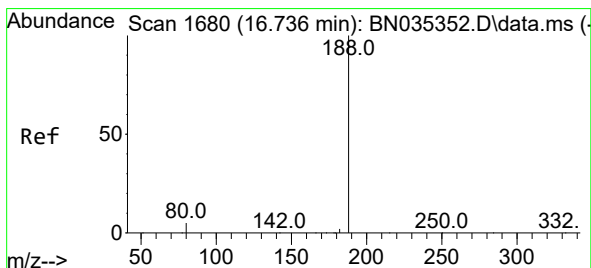
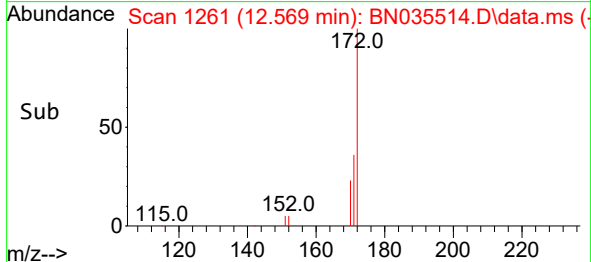
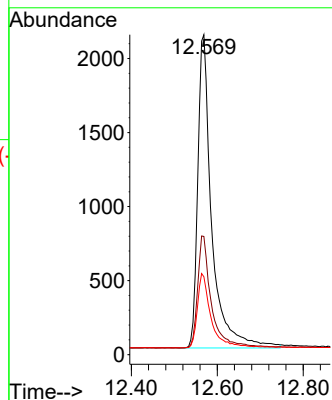
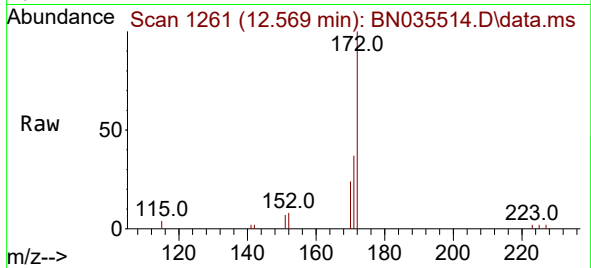




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

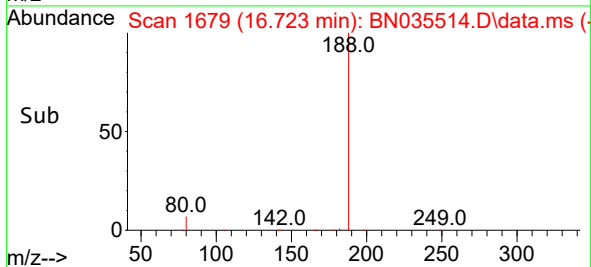
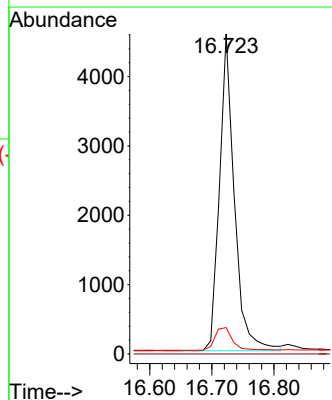
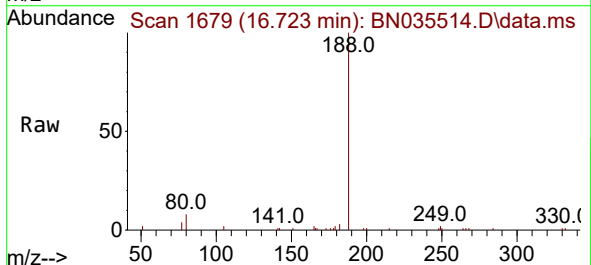
Instrument :
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ClientSampleId :
RE105D2-20241206

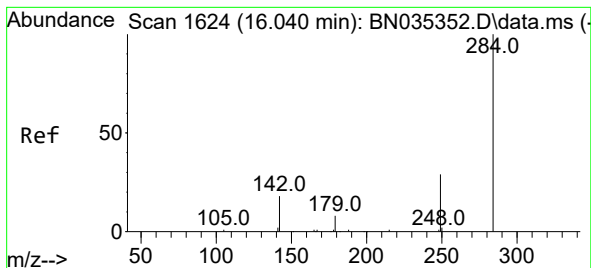
Tgt Ion:172 Resp: 4789
Ion Ratio Lower Upper
172 100
171 36.9 29.0 43.4
170 24.3 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:188 Resp: 7600
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8#





#22

Hexachlorobenzene

Concen: 0.022 ng

RT: 16.028 min Scan# 1623

Delta R.T. -0.013 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

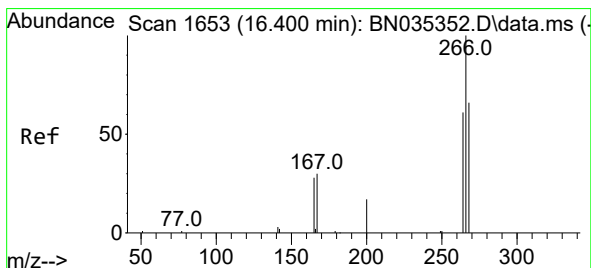
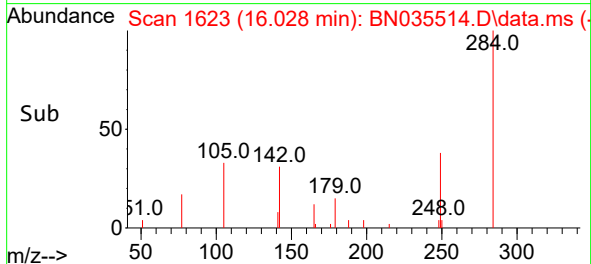
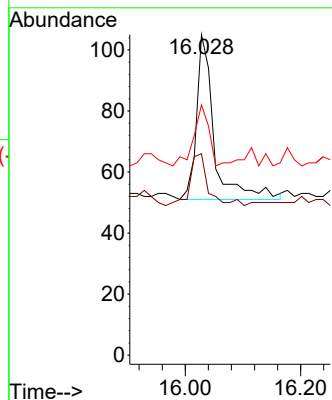
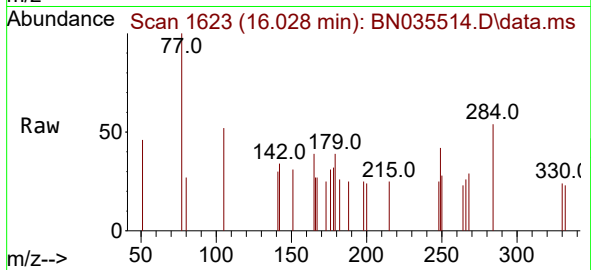
Tgt Ion:284 Resp: 115

Ion Ratio Lower Upper

284 100

142 31.3 26.7 40.1

249 36.5 24.6 36.8



#24

Pentachlorophenol

Concen: 0.022 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

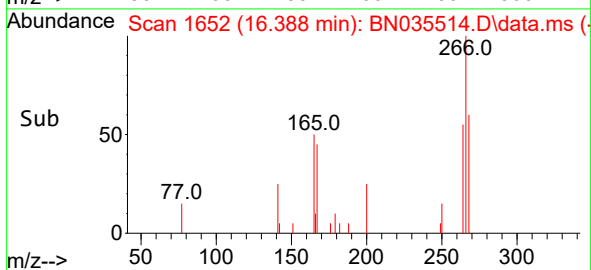
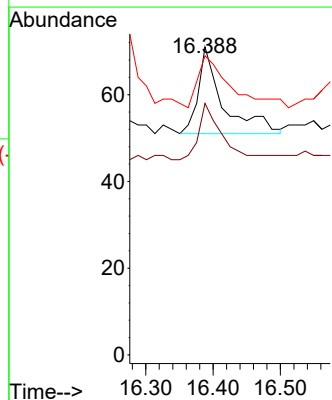
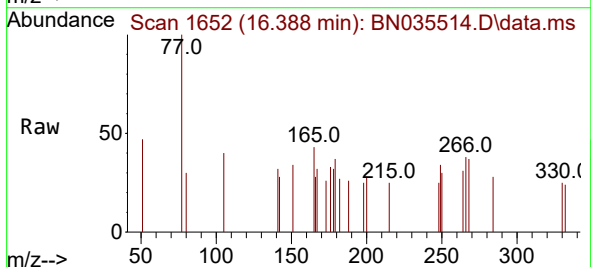
Tgt Ion:266 Resp: 51

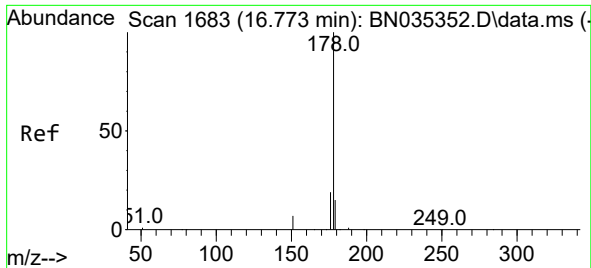
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 78.4 43.3 64.9#

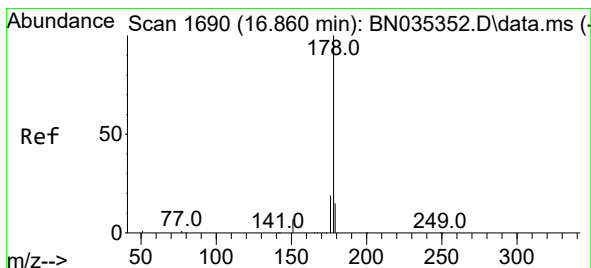
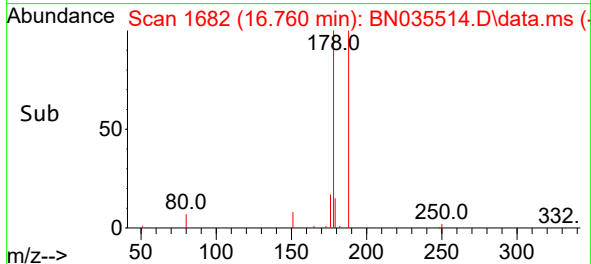
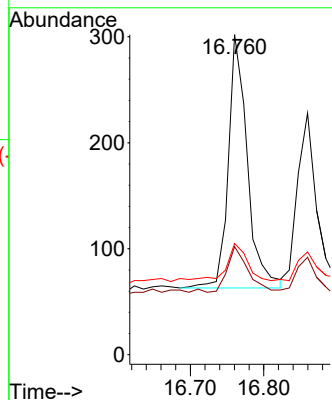
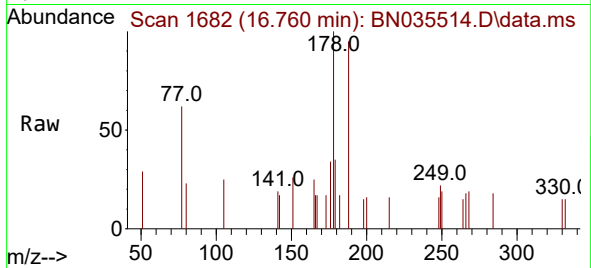




#25
Phenanthrene
Concen: 0.021 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.013 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

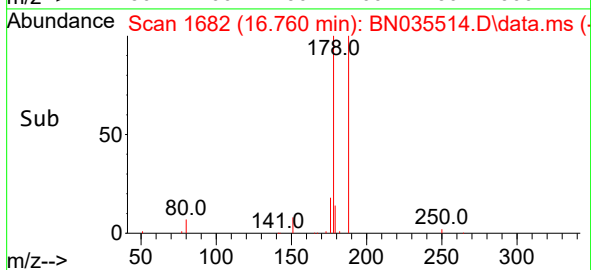
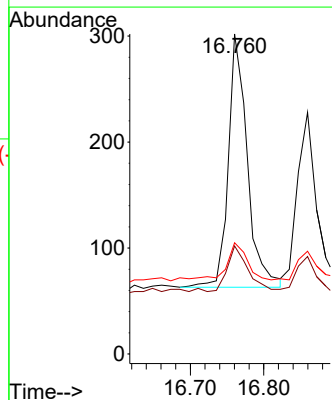
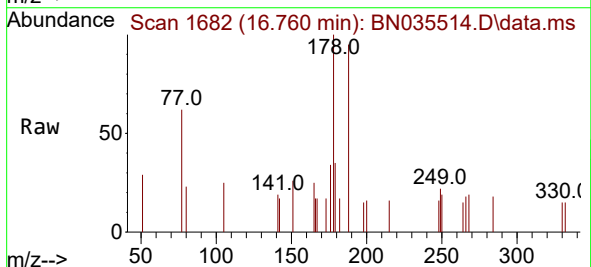
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

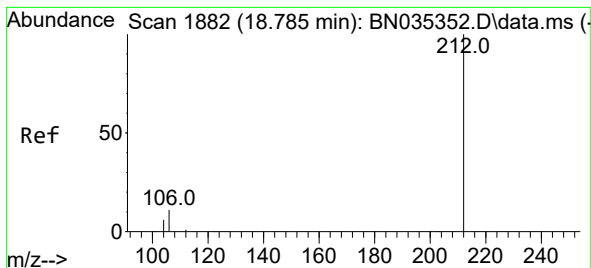
Tgt Ion:178 Resp: 430
Ion Ratio Lower Upper
178 100
176 19.8 15.4 23.2
179 17.4 12.3 18.5



#26
Anthracene
Concen: 0.023 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.099 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:178 Resp: 430
Ion Ratio Lower Upper
178 100
176 19.8 15.0 22.6
179 17.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.431 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

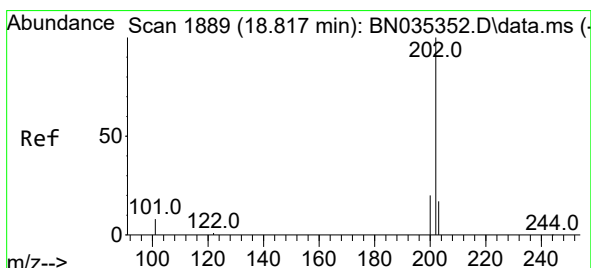
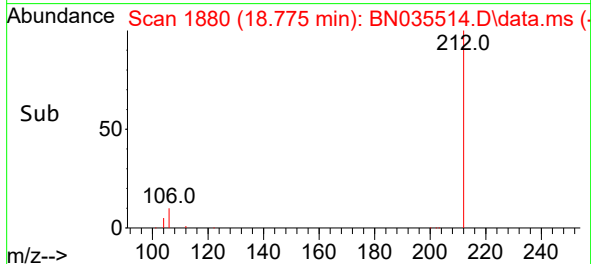
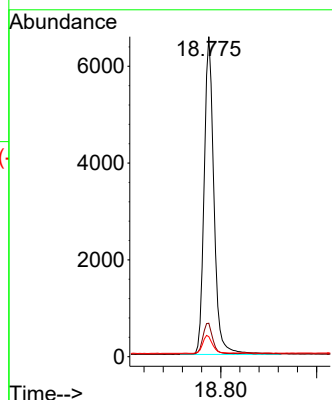
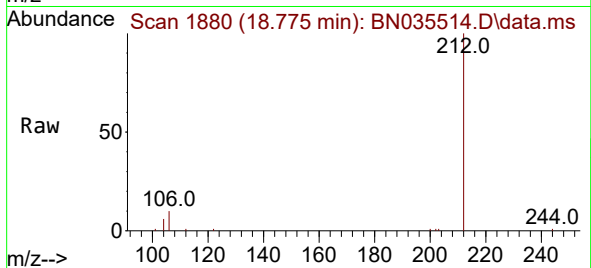
Tgt Ion:212 Resp: 9287

Ion Ratio Lower Upper

212 100

106 9.7 9.2 13.8

104 5.6 5.3 7.9



#28

Fluoranthene

Concen: 0.025 ng

RT: 18.808 min Scan# 1887

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

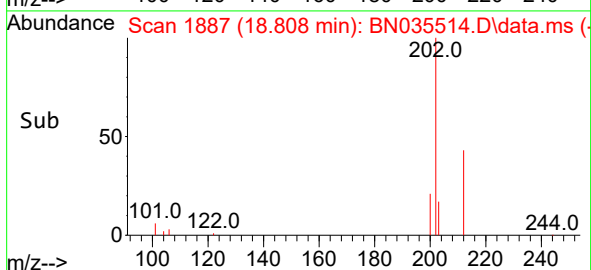
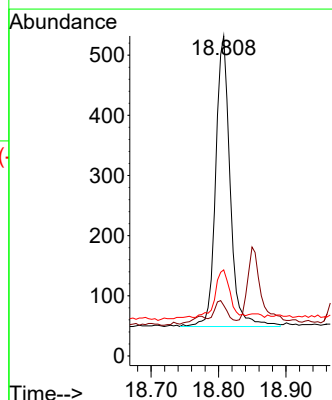
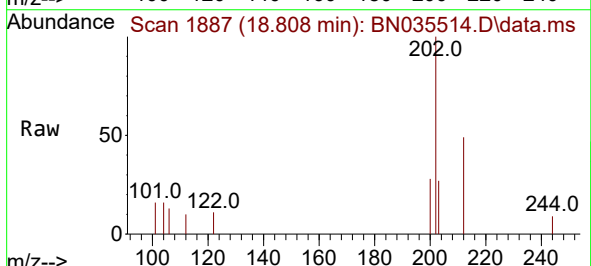
Tgt Ion:202 Resp: 717

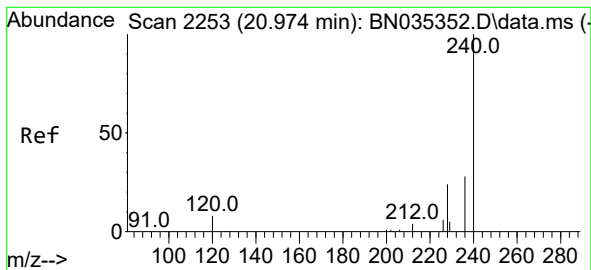
Ion Ratio Lower Upper

202 100

101 6.4 7.4 11.0#

203 17.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

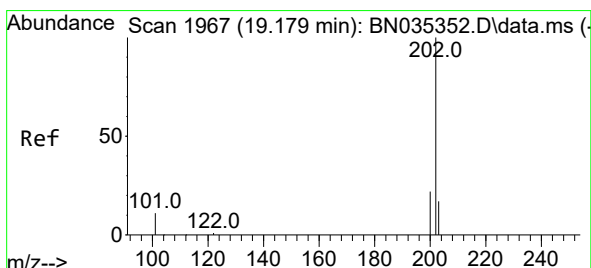
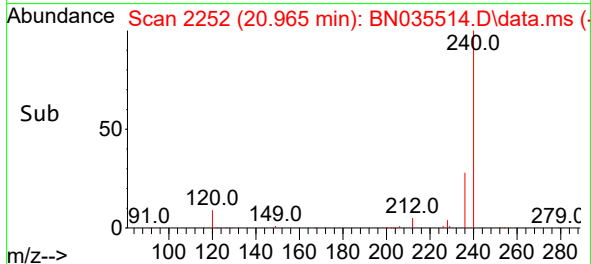
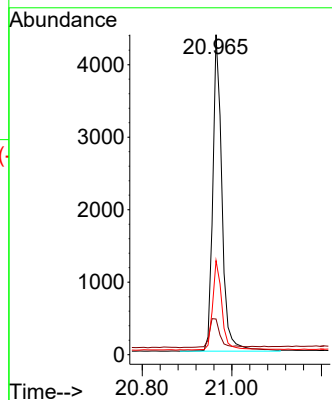
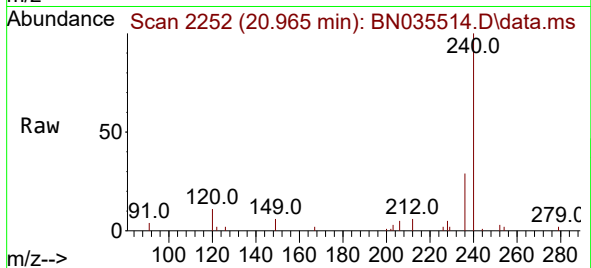
Tgt Ion:240 Resp: 6224

Ion Ratio Lower Upper

240 100

120 11.2 7.9 11.9

236 29.4 22.9 34.3



#30

Pyrene

Concen: 0.028 ng

RT: 19.175 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

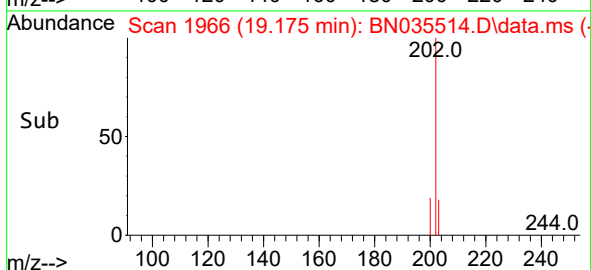
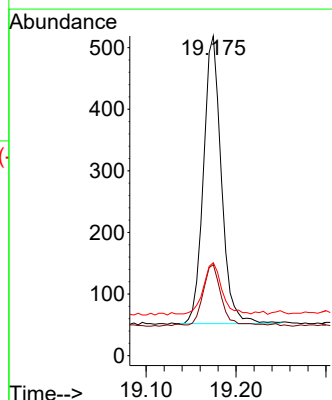
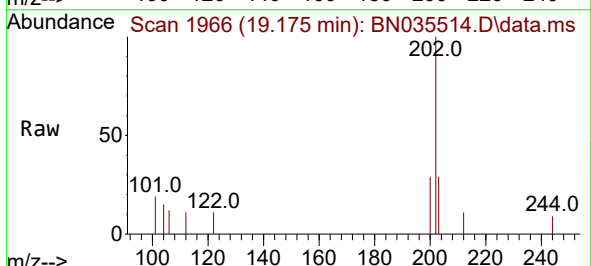
Tgt Ion:202 Resp: 646

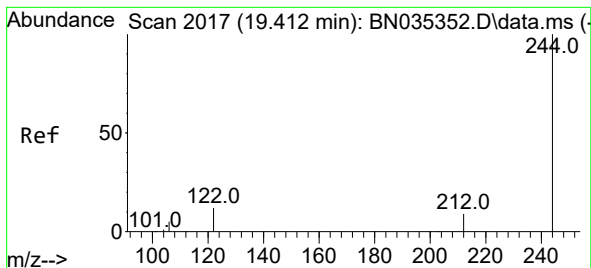
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 18.6 14.3 21.5





#31

Terphenyl-d14

Concen: 0.666 ng

RT: 19.402 min Scan# 2017

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

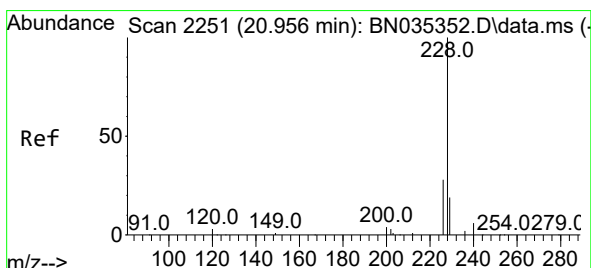
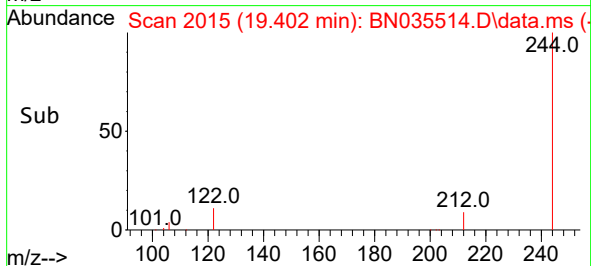
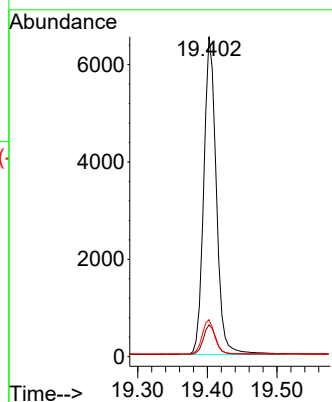
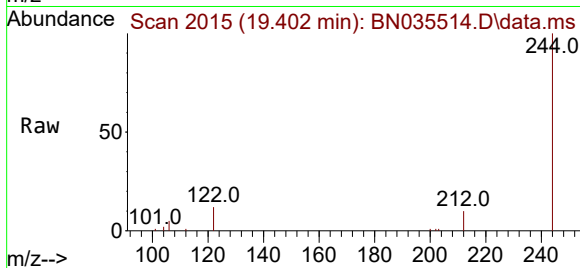
Tgt Ion:244 Resp: 8183

Ion Ratio Lower Upper

244 100

212 10.0 8.1 12.1

122 11.5 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.028 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

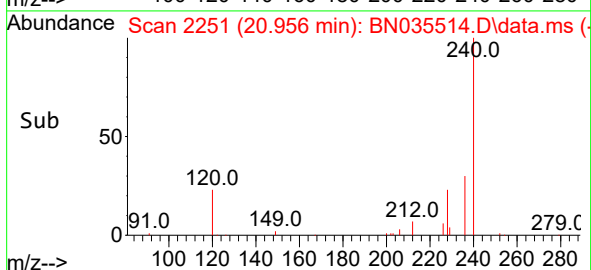
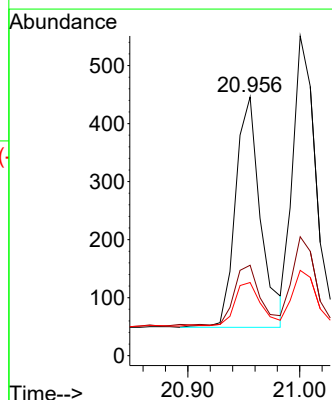
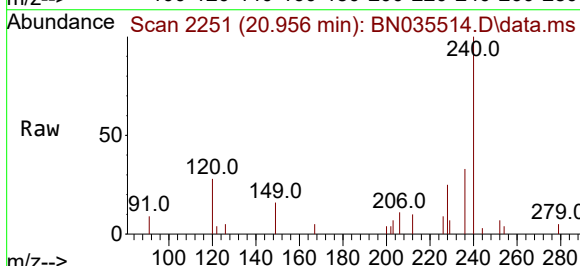
Tgt Ion:228 Resp: 618

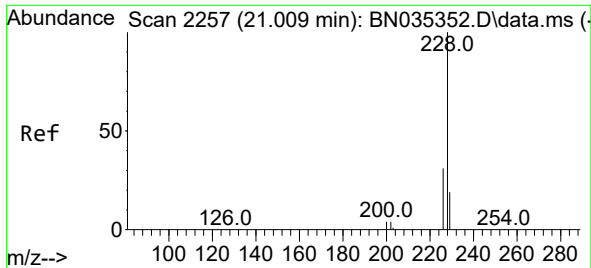
Ion Ratio Lower Upper

228 100

226 35.0 22.5 33.7#

229 28.3 15.8 23.8#





#33

Chrysene

Concen: 0.034 ng

RT: 21.000 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

Instrument :

BNA_N

ClientSampleId :

RE105D2-20241206

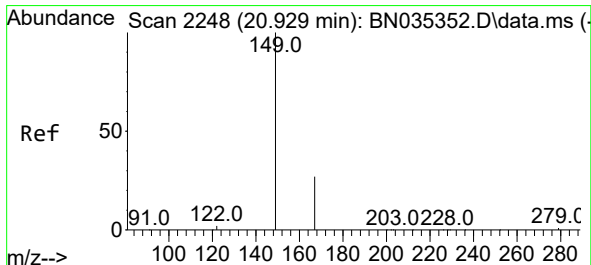
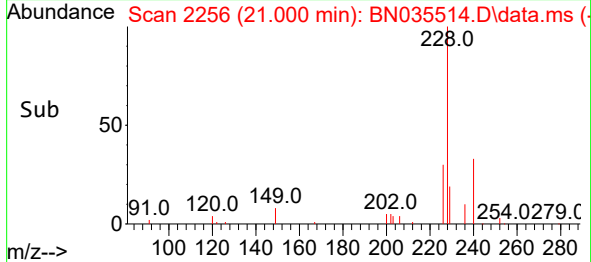
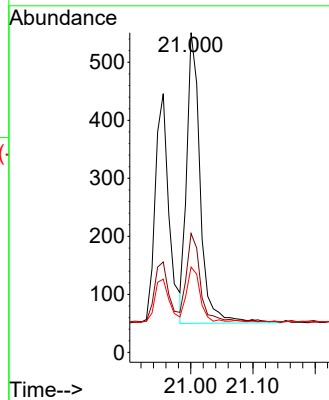
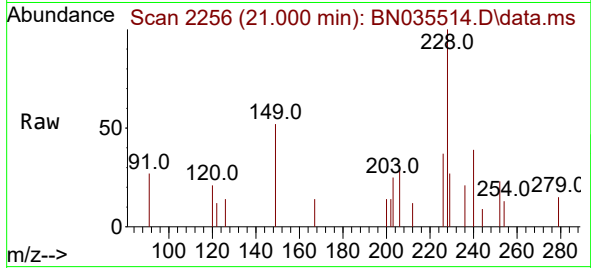
Tgt Ion:228 Resp: 757

Ion Ratio Lower Upper

228 100

226 37.2 24.6 37.0#

229 26.7 15.9 23.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.009 min

Lab File: BN035514.D

Acq: 09 Dec 2024 19:31

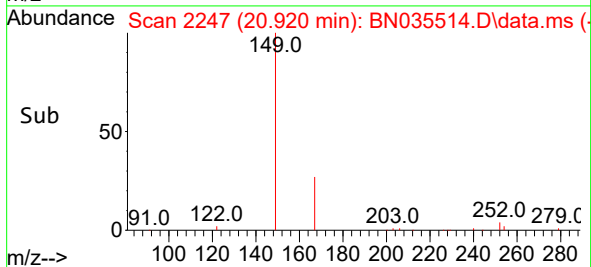
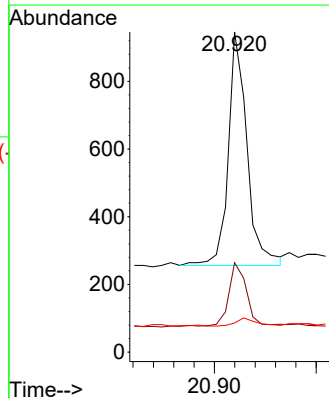
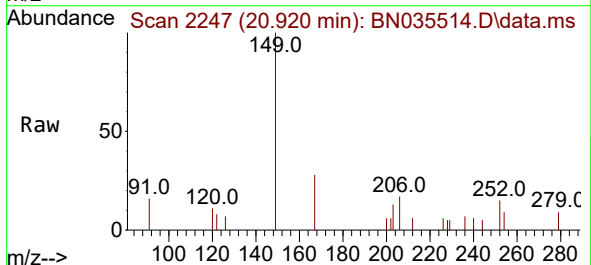
Tgt Ion:149 Resp: 882

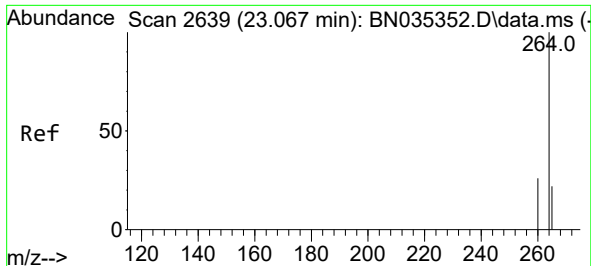
Ion Ratio Lower Upper

149 100

167 25.9 22.2 33.4

279 3.7 2.7 4.1

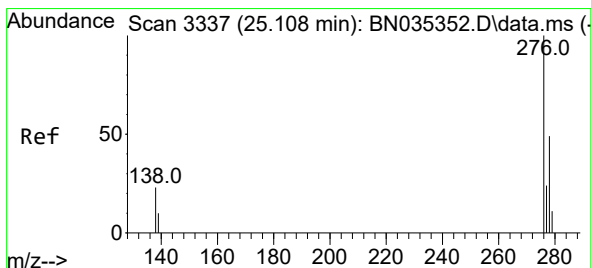
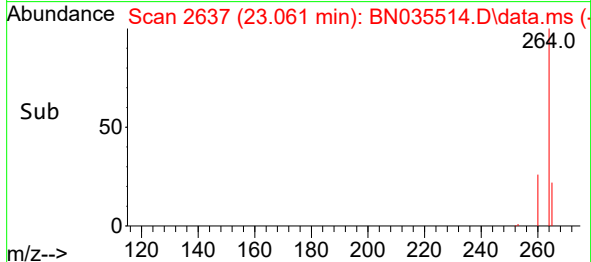
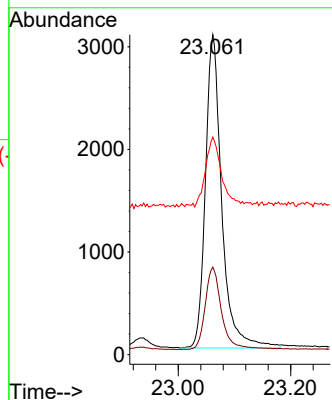
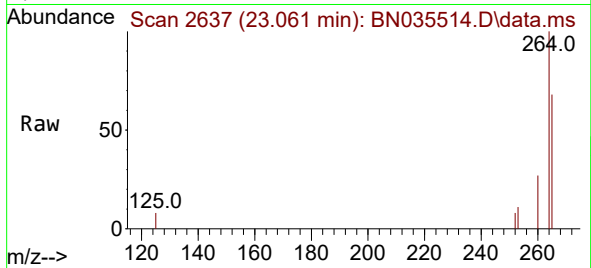




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.061 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

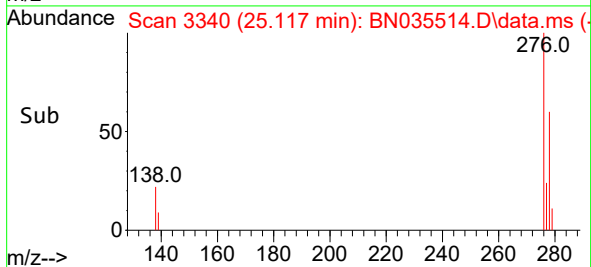
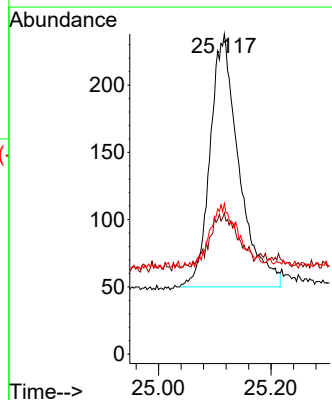
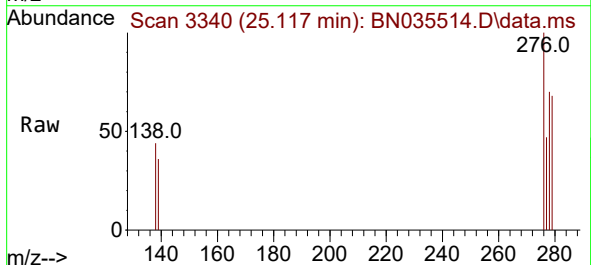
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

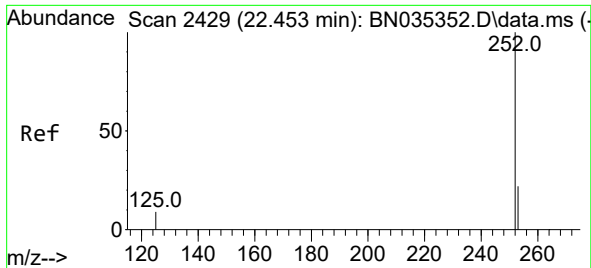
Tgt Ion:264 Resp: 6145
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 68.0 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.028 ng
RT: 25.117 min Scan# 3340
Delta R.T. 0.009 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Tgt Ion:276 Resp: 670
Ion Ratio Lower Upper
276 100
138 8.7 19.4 29.0#
277 23.0 19.8 29.6

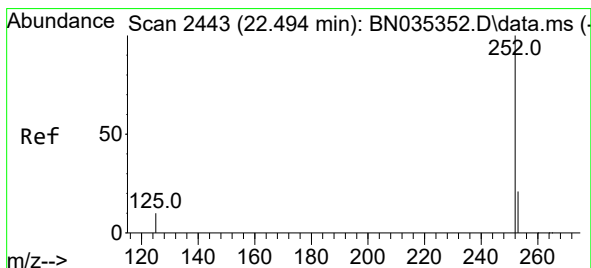
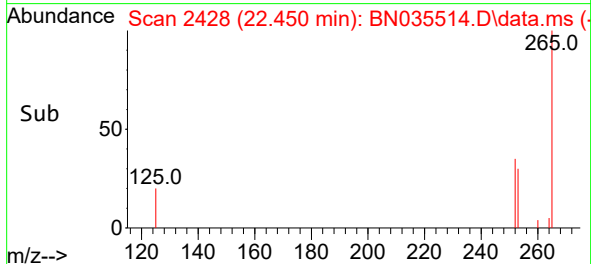
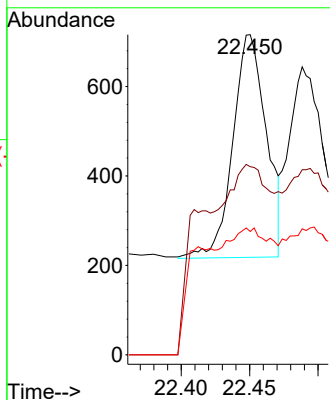
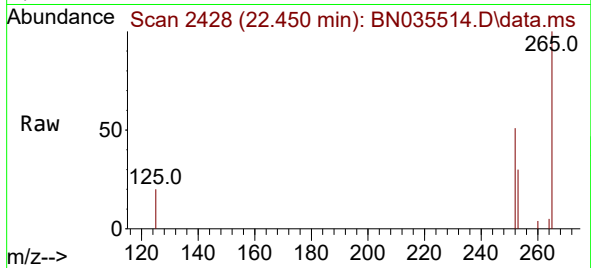




#37
Benzo(b)fluoranthene
Concen: 0.041 ng
RT: 22.450 min Scan# 2429
Delta R.T. -0.003 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

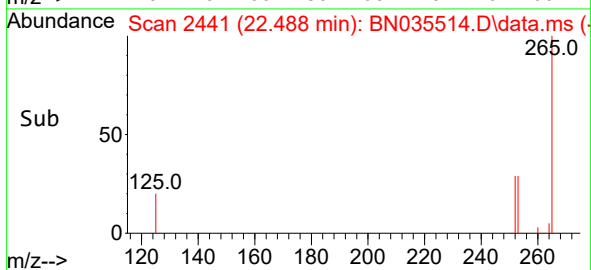
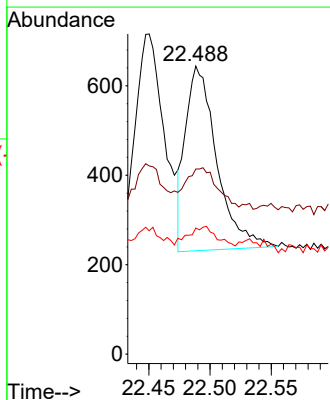
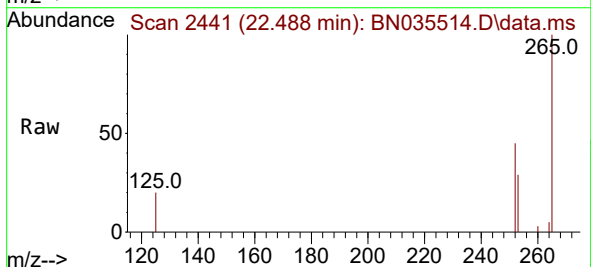
Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

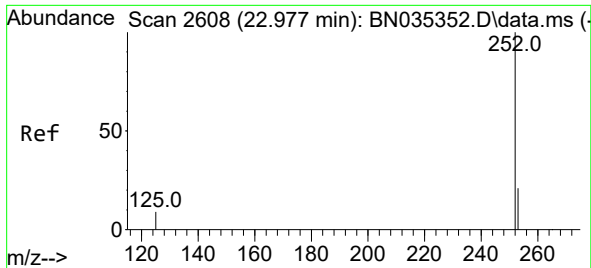
Tgt Ion:252 Resp: 920
Ion Ratio Lower Upper
252 100
253 58.8 19.6 29.4#
125 38.5 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.033 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

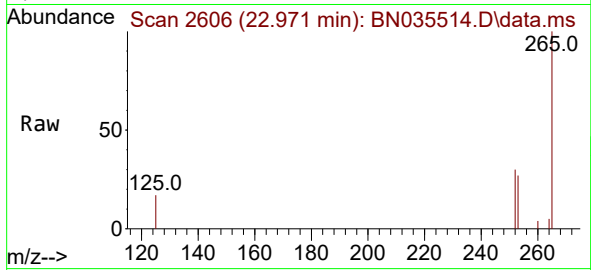
Tgt Ion:252 Resp: 733
Ion Ratio Lower Upper
252 100
253 64.3 19.5 29.3#
125 43.8 10.2 15.4#



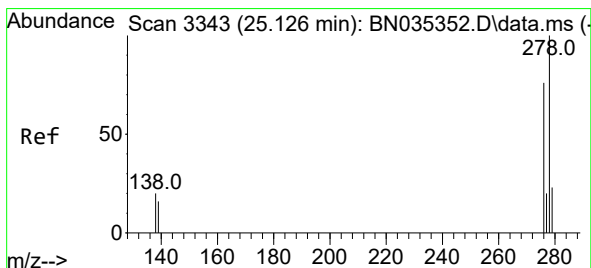
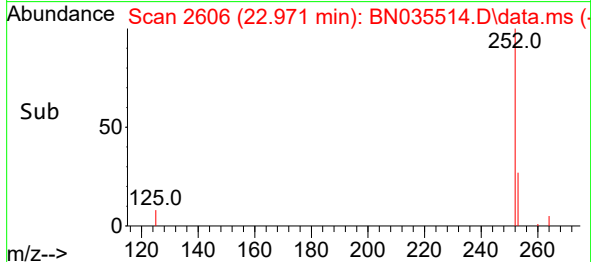
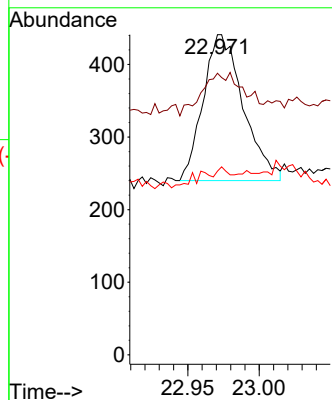


#39
Benzo(a)pyrene
Concen: 0.021 ng
RT: 22.971 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206

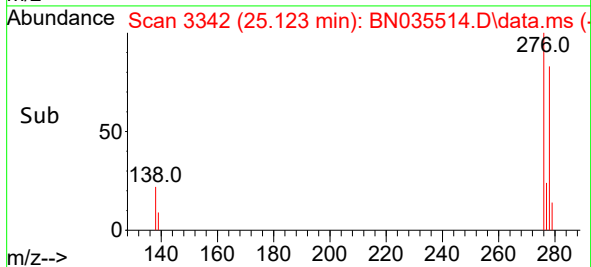
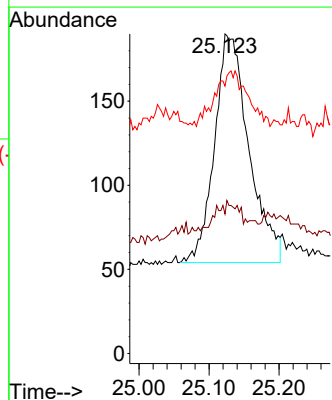
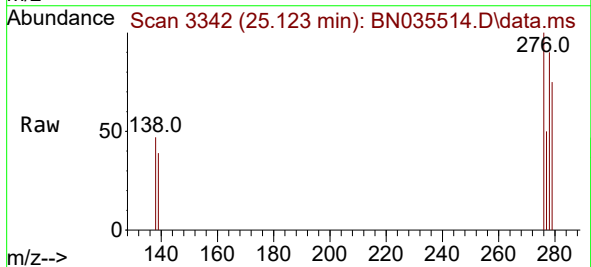


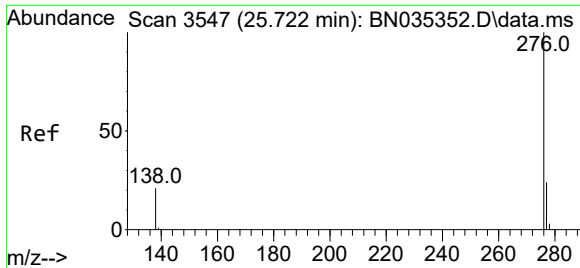
Tgt Ion:252 Resp: 393
Ion Ratio Lower Upper
252 100
253 88.0 20.2 30.4#
125 57.4 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.025 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

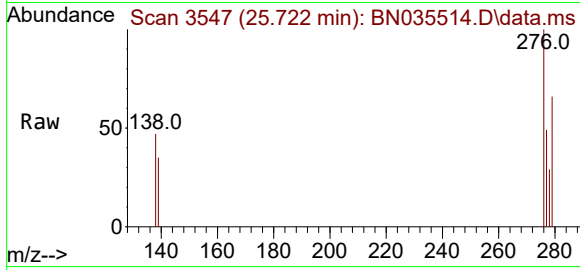
Tgt Ion:278 Resp: 465
Ion Ratio Lower Upper
278 100
139 43.7 14.2 21.4#
279 83.7 20.5 30.7#



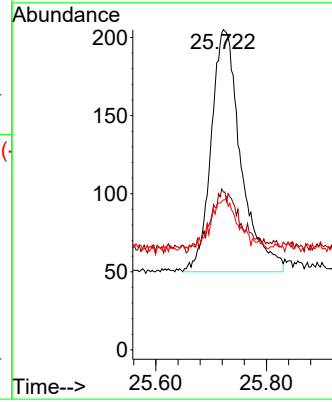
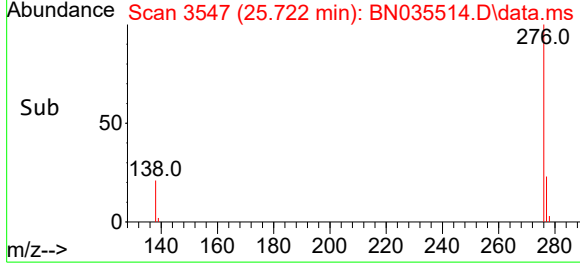


#41
Benzo(g,h,i)perylene
Concen: 0.029 ng
RT: 25.722 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN035514.D
Acq: 09 Dec 2024 19:31

Instrument :
BNA_N
ClientSampleId :
RE105D2-20241206



Tgt Ion:276 Resp: 580
Ion Ratio Lower Upper
276 100
277 49.3 19.9 29.9#
138 46.8 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035516.D
 Acq On : 09 Dec 2024 20:43
 Operator : RC/JU
 Sample : P5164-06
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 FB-20241206

Quant Time: Dec 10 01:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

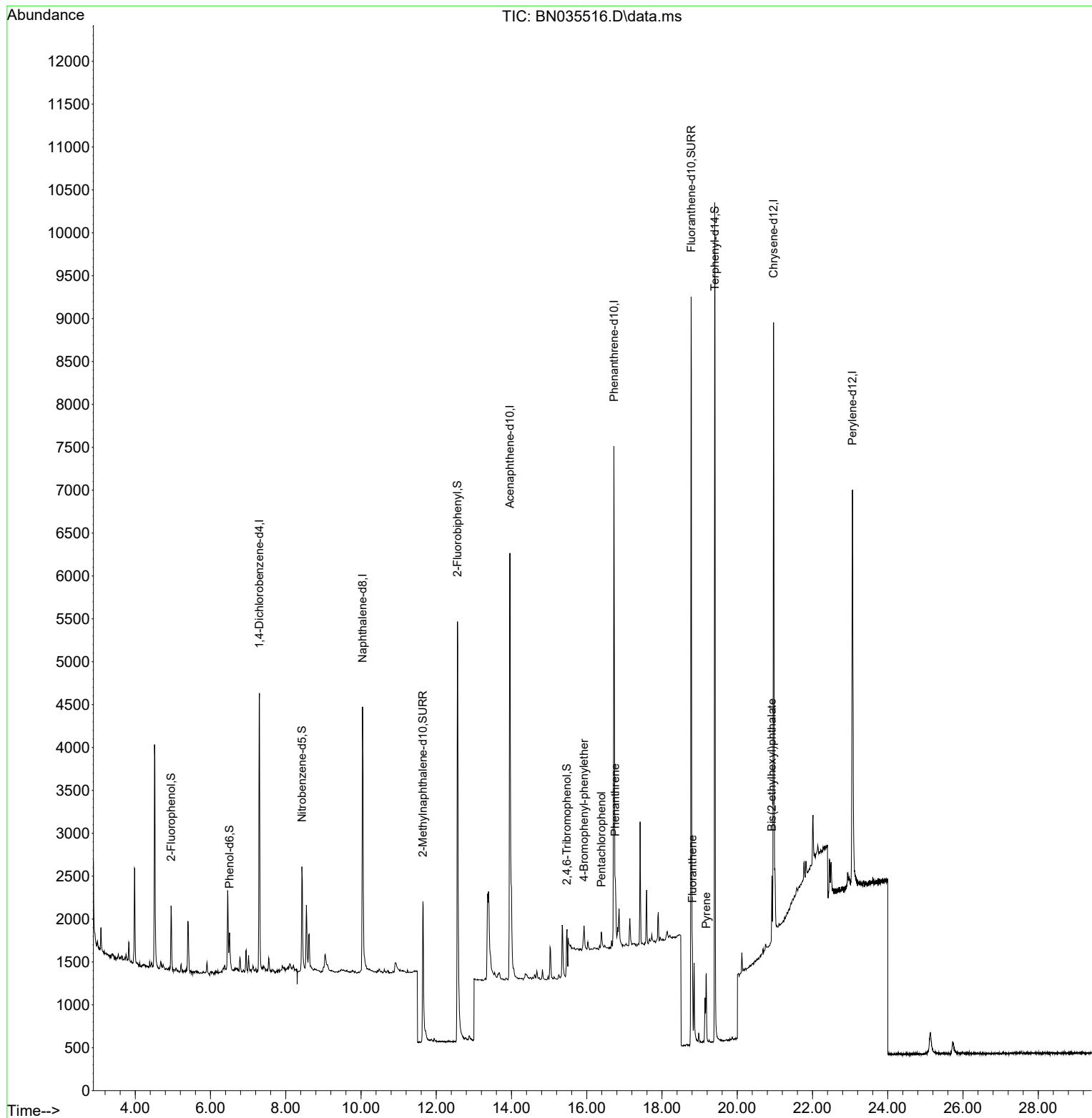
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1690	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4712	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3572	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8431	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7106	0.400	ng	0.00
35) Perylene-d12	23.062	264	6618	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	643	0.152	ng	-0.01
5) Phenol-d6	6.506	99	490	0.096	ng	0.00
8) Nitrobenzene-d5	8.429	82	1480	0.514	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2985	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	642	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5951	0.441	ng	0.00
27) Fluoranthene-d10	18.775	212	10625	0.445	ng	0.00
31) Terphenyl-d14	19.403	244	9767	0.697	ng	0.00
Target Compounds						Qvalue
21) 4-Bromophenyl-phenylether	15.929	248	135	0.027	ng	# 78
24) Pentachlorophenol	16.388	266	160	0.064	ng	95
25) Phenanthrene	16.761	178	619	0.027	ng	99
28) Fluoranthene	18.808	202	879	0.028	ng	97
30) Pyrene	19.175	202	751	0.029	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	772	0.079	ng	# 97

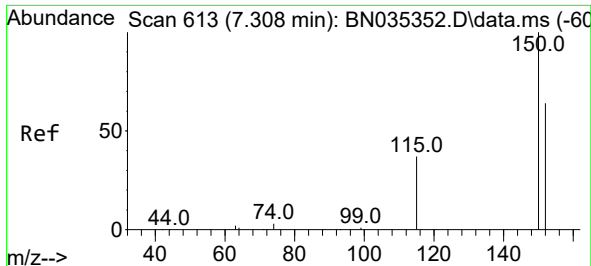
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035516.D
Acq On : 09 Dec 2024 20:43
Operator : RC/JU
Sample : P5164-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB-20241206

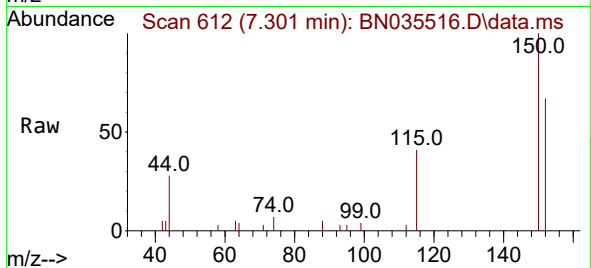
Quant Time: Dec 10 01:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



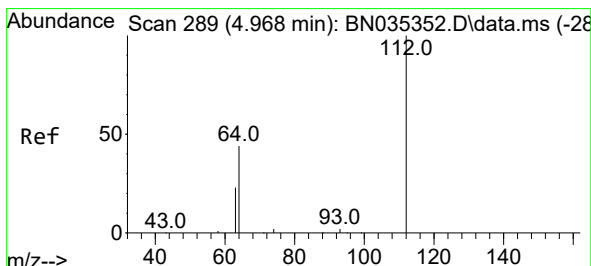
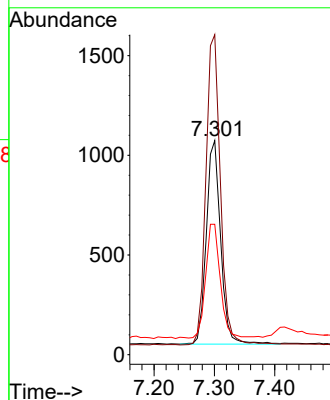
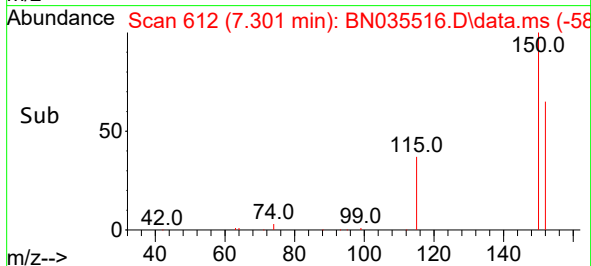


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 613
Delta R.T. -0.007 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Instrument :
BNA_N
ClientSampleId :
FB-20241206

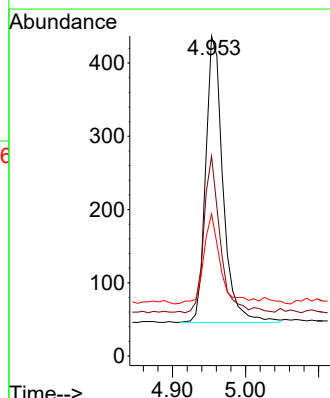
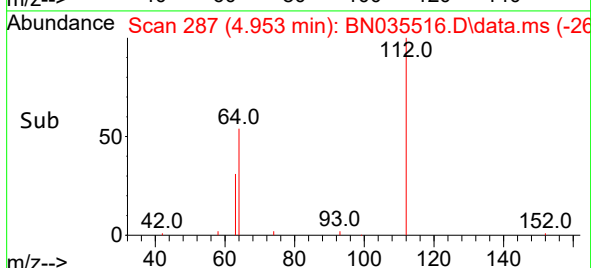
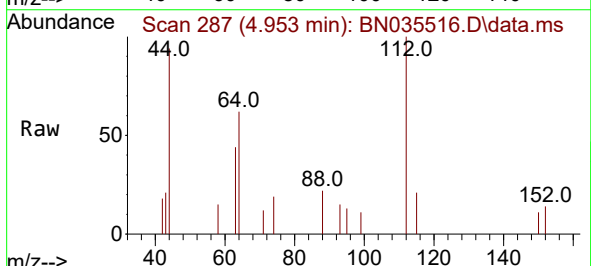


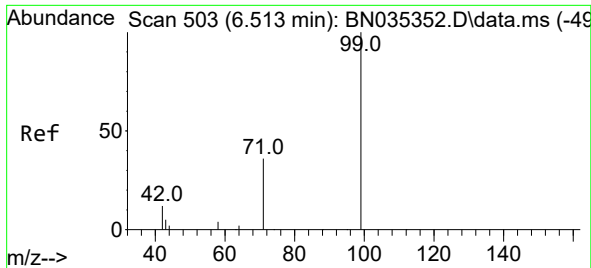
Tgt Ion:152 Resp: 1690
Ion Ratio Lower Upper
152 100
150 149.4 124.0 186.0
115 60.9 49.6 74.4



#4
2-Fluorophenol
Concen: 0.152 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:112 Resp: 643
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 30.3 21.0 31.6

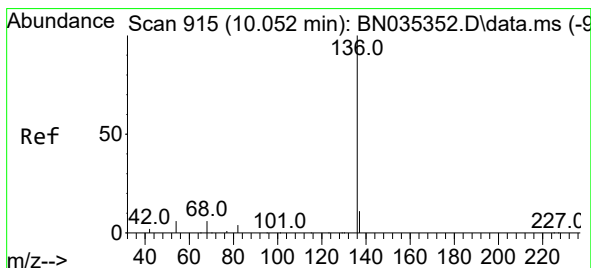
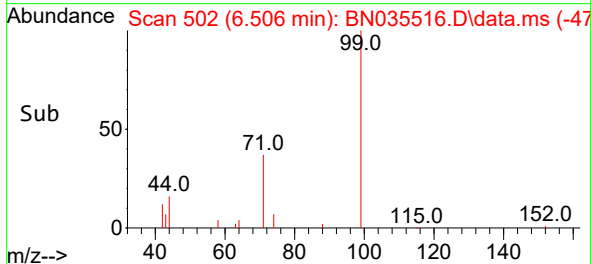
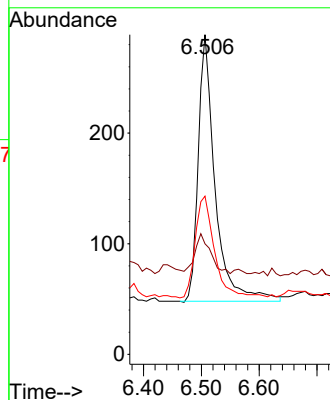
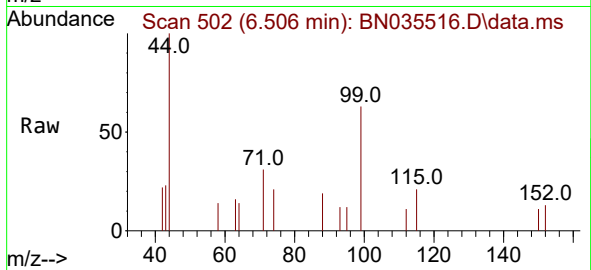




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

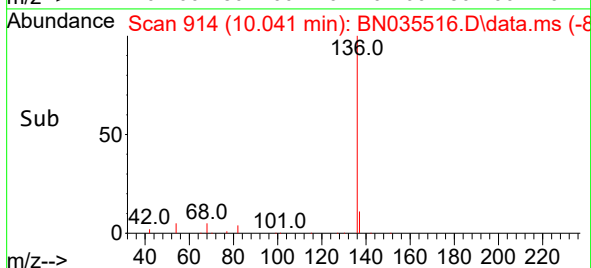
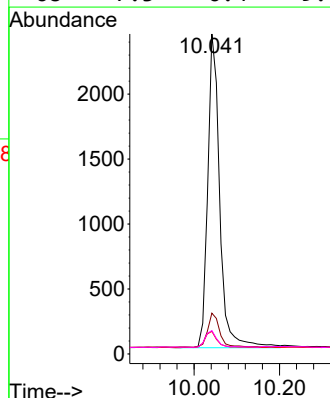
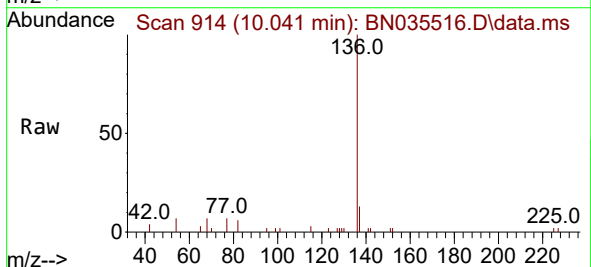
Instrument :
BNA_N
ClientSampleId :
FB-20241206

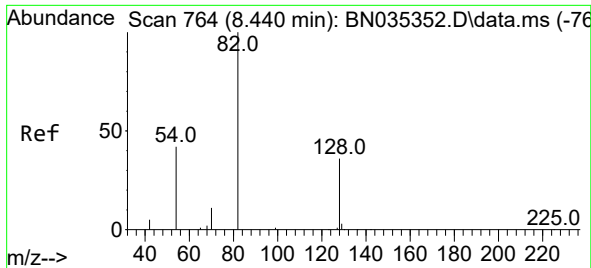
Tgt Ion:	99	Resp:	490
Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	43.9	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:	136	Resp:	4712
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.1	6.1	9.1
68	7.3	6.4	9.6

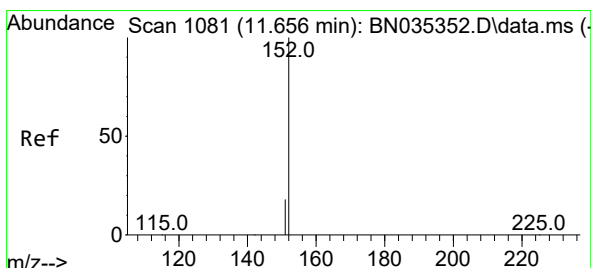
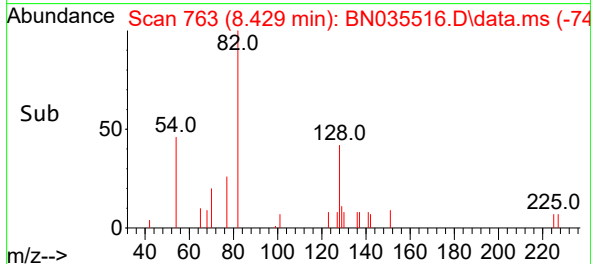
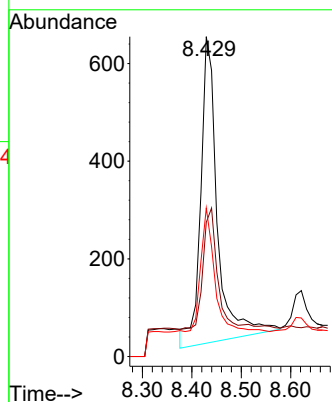
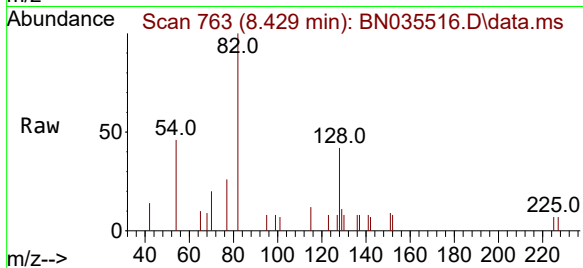




#8
Nitrobenzene-d5
Concen: 0.514 ng
RT: 8.429 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

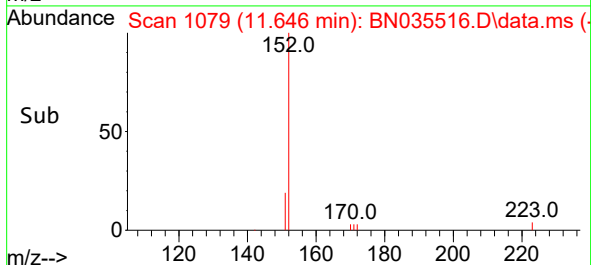
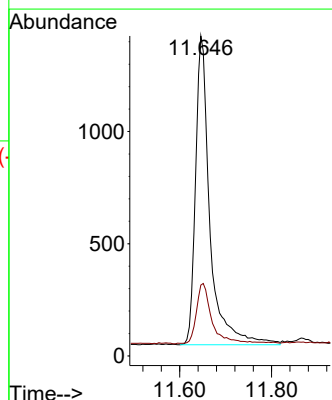
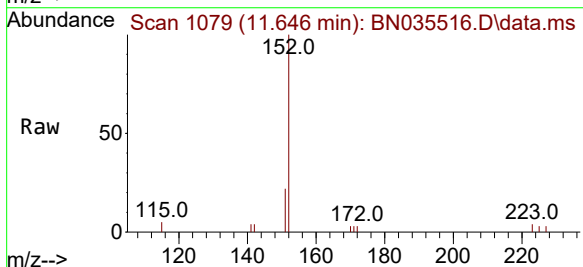
Instrument :
BNA_N
ClientSampleId :
FB-20241206

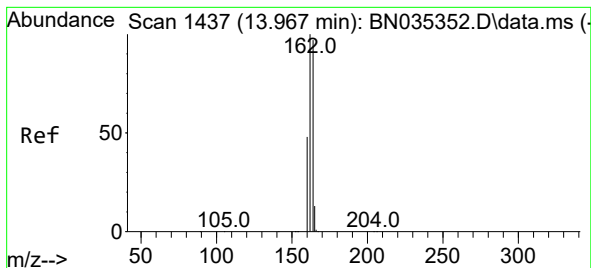
Tgt Ion: 82 Resp: 1480
Ion Ratio Lower Upper
82 100
128 42.0 33.4 50.0
54 46.4 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion: 152 Resp: 2985
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035516.D

Acq: 09 Dec 2024 20:43

Instrument :

BNA_N

ClientSampleId :

FB-20241206

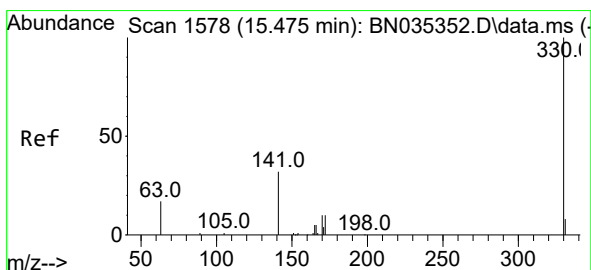
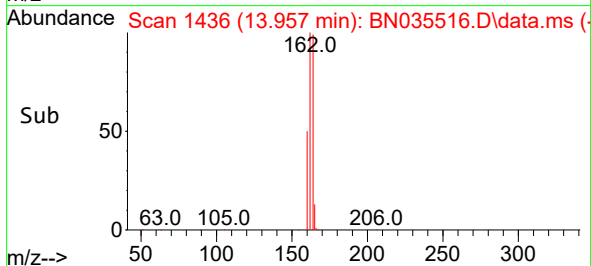
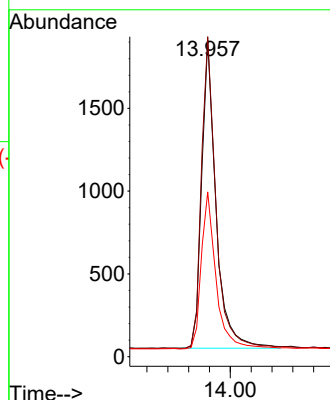
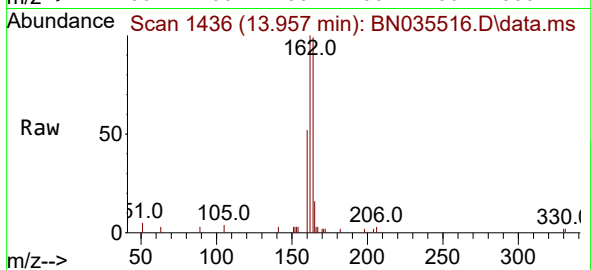
Tgt Ion:164 Resp: 3572

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.2

160 52.0 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.253 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035516.D

Acq: 09 Dec 2024 20:43

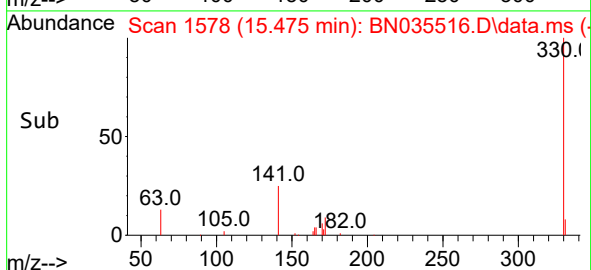
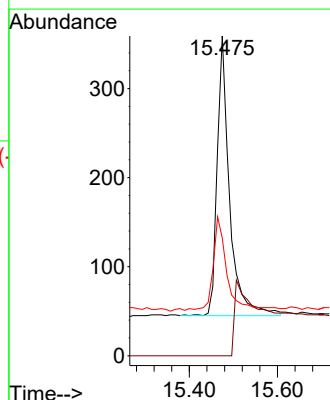
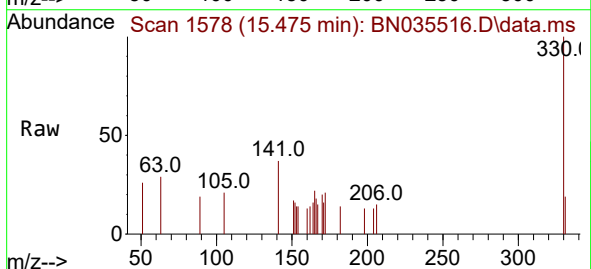
Tgt Ion:330 Resp: 642

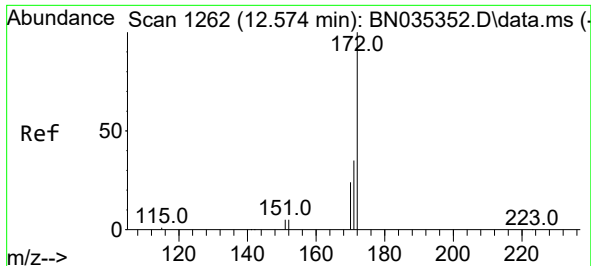
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 38.0 26.6 40.0

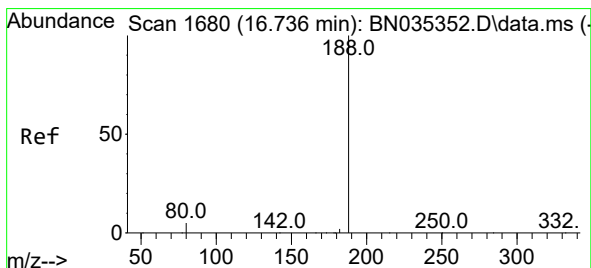
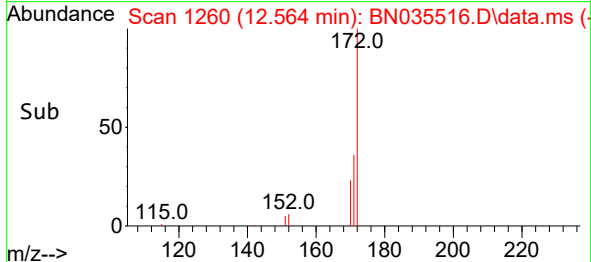
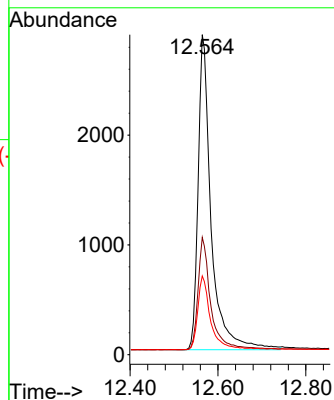
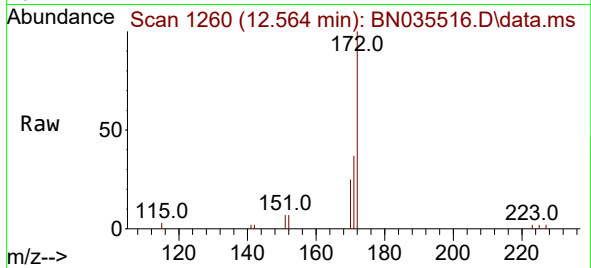




#15
2-Fluorobiphenyl
Concen: 0.441 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

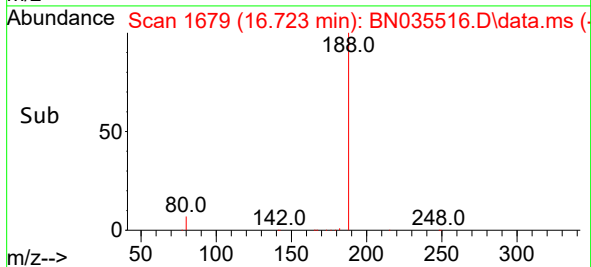
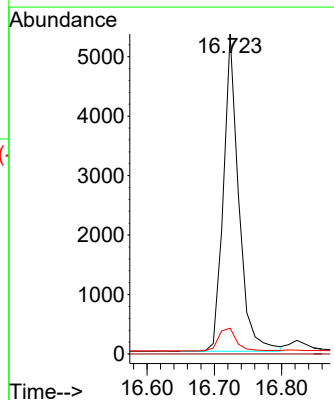
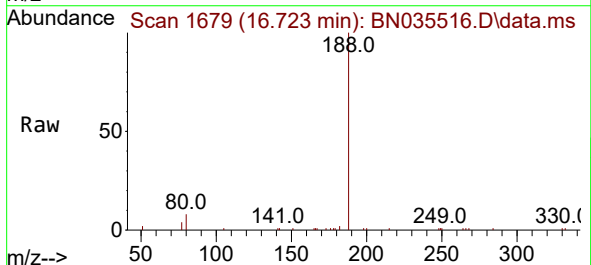
Instrument :
BNA_N
ClientSampleId :
FB-20241206

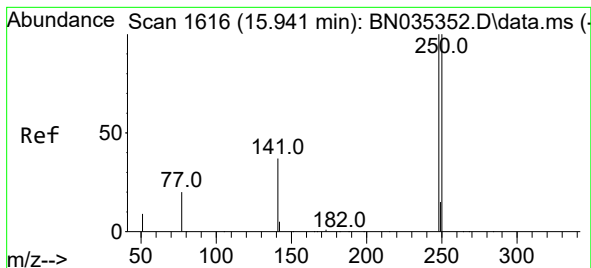
Tgt Ion:172	Resp:	5951
Ion Ratio	Lower	Upper
172	100	
171	36.6	29.0 43.4
170	24.6	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:188	Resp:	8431
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	8.1	4.6 6.8

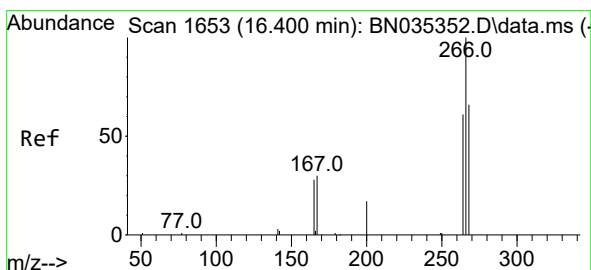
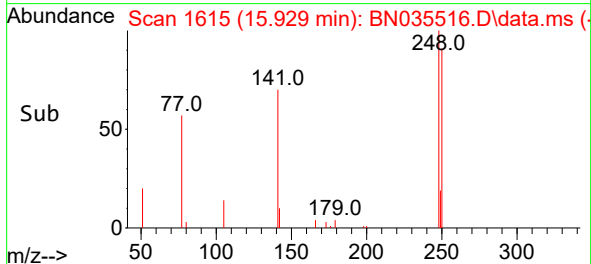
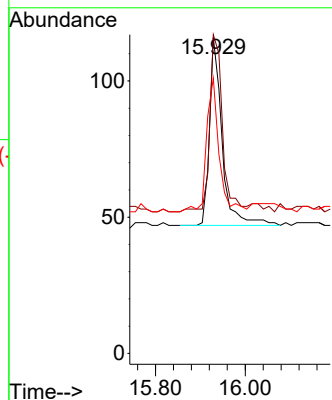
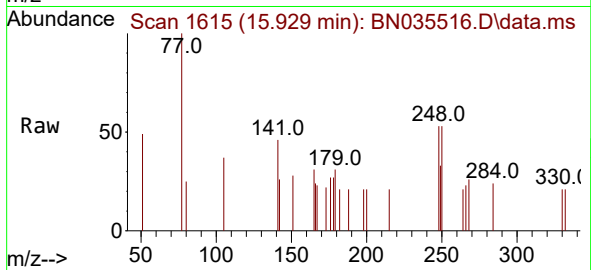




#21
4-Bromophenyl-phenylether
Concen: 0.027 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

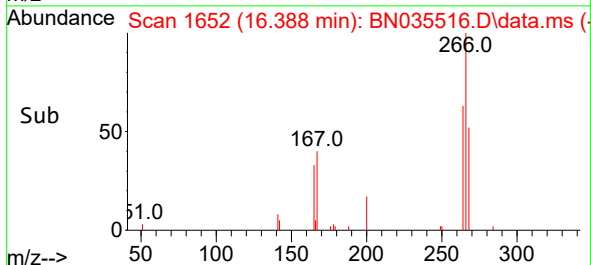
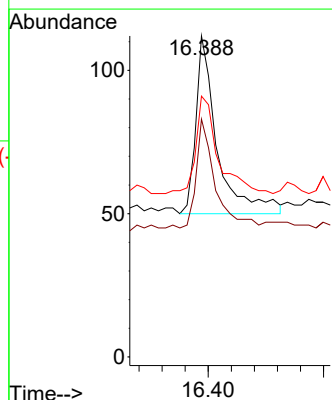
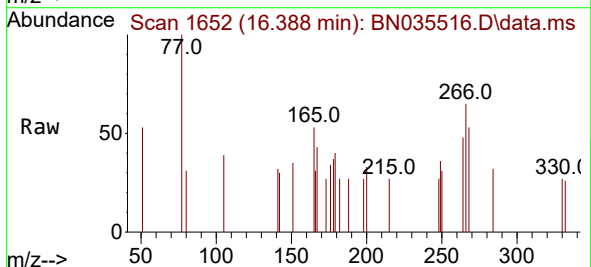
Instrument :
BNA_N
ClientSampleId :
FB-20241206

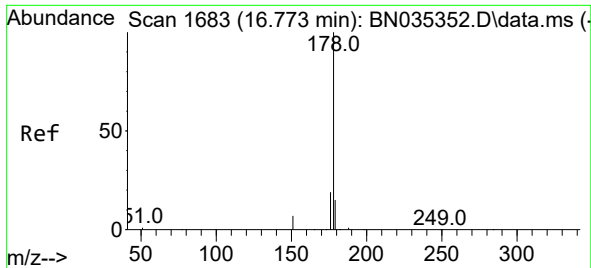
Tgt Ion:248 Resp: 135
Ion Ratio Lower Upper
248 100
250 100.9 80.6 120.8
141 87.1 31.5 47.3#



#24
Pentachlorophenol
Concen: 0.064 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:266 Resp: 160
Ion Ratio Lower Upper
266 100
264 53.8 42.3 63.5
268 60.0 43.3 64.9

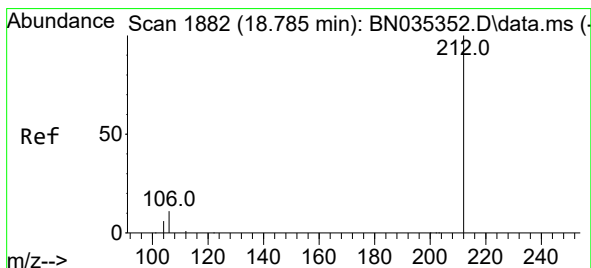
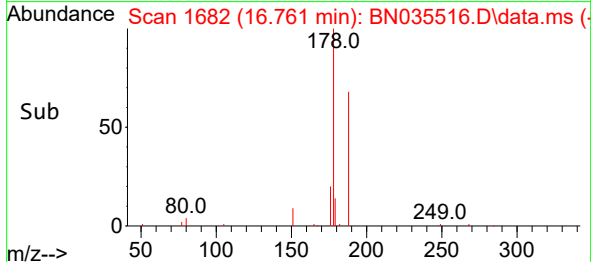
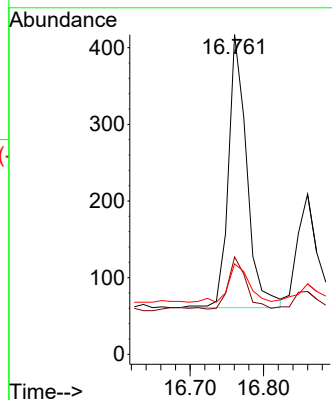
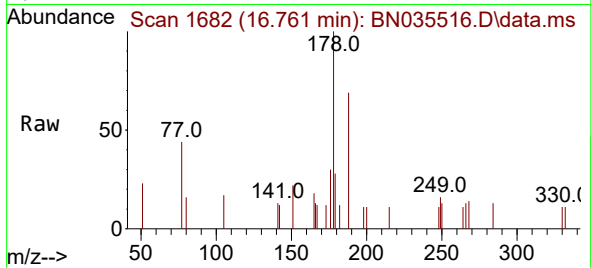




#25
Phenanthrene
Concen: 0.027 ng
RT: 16.761 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

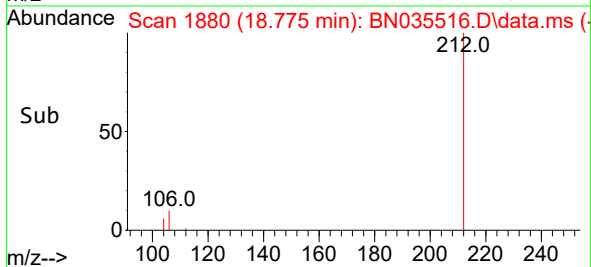
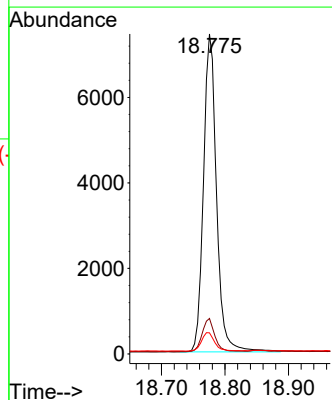
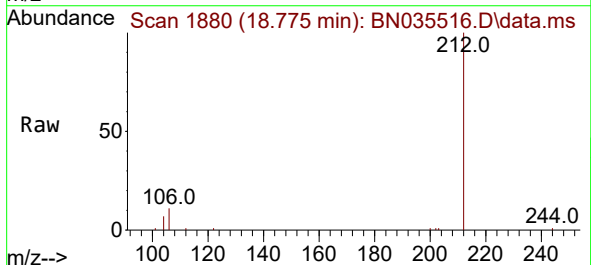
Instrument :
BNA_N
ClientSampleId :
FB-20241206

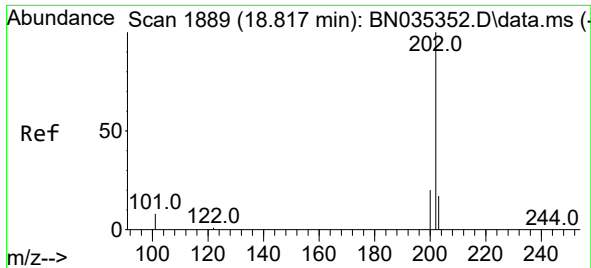
Tgt Ion:	178	Resp:	619
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.5	12.3	18.5



#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:	212	Resp:	10625
Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.9	5.3	7.9

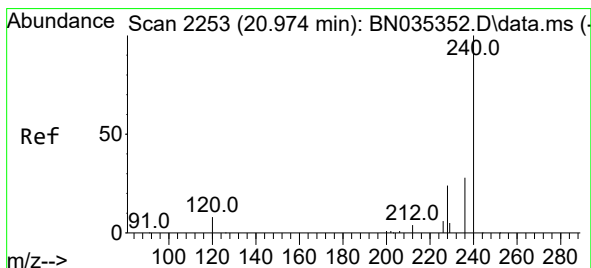
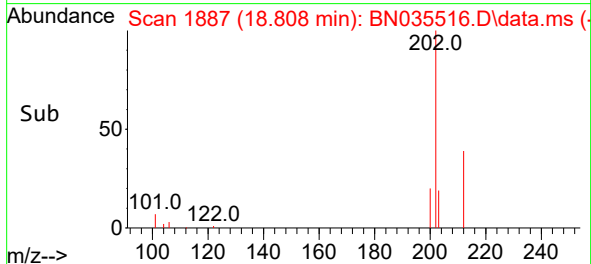
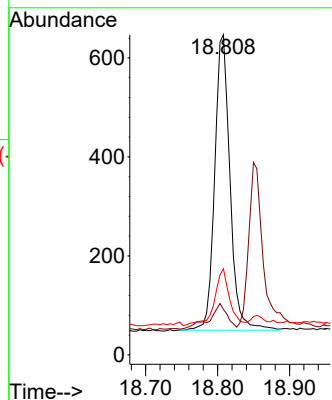
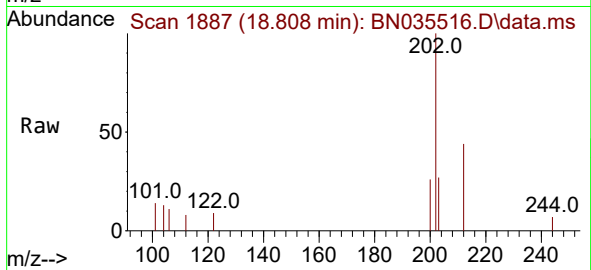




#28
Fluoranthene
Concen: 0.028 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

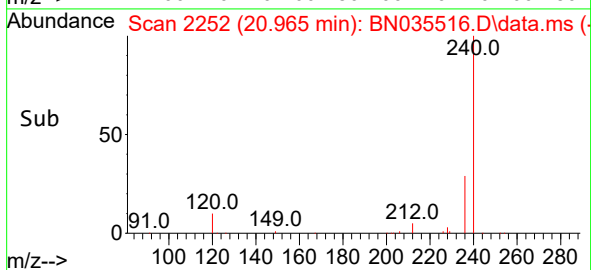
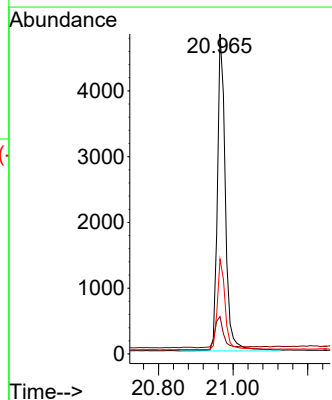
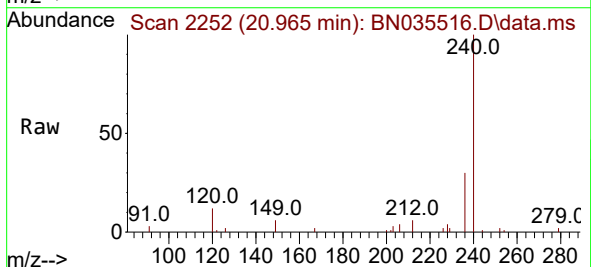
Instrument :
BNA_N
ClientSampleId :
FB-20241206

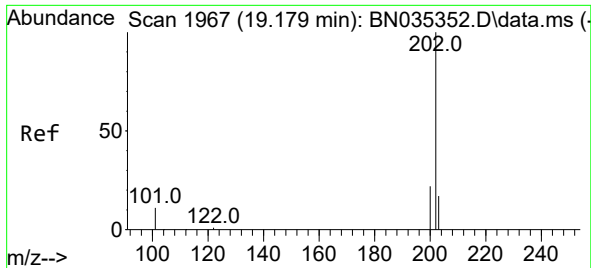
Tgt Ion:202 Resp: 879
Ion Ratio Lower Upper
202 100
101 10.0 7.4 11.0
203 18.9 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:240 Resp: 7106
Ion Ratio Lower Upper
240 100
120 11.7 7.9 11.9
236 29.6 22.9 34.3

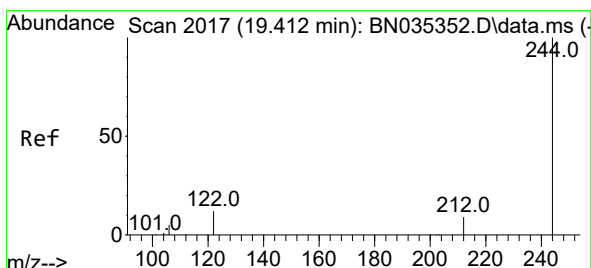
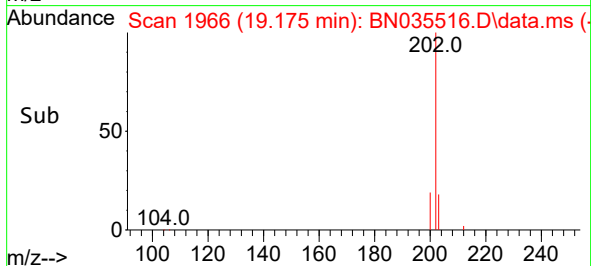
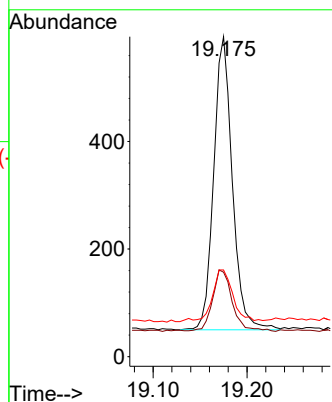
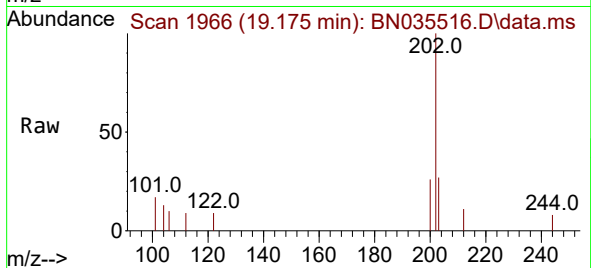




#30
Pyrene
Concen: 0.029 ng
RT: 19.175 min Scan# 1967
Delta R.T. -0.005 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

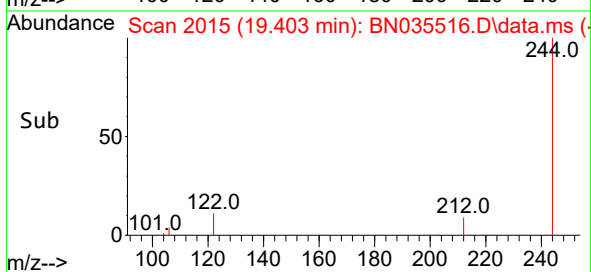
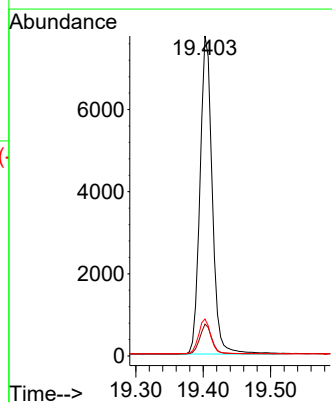
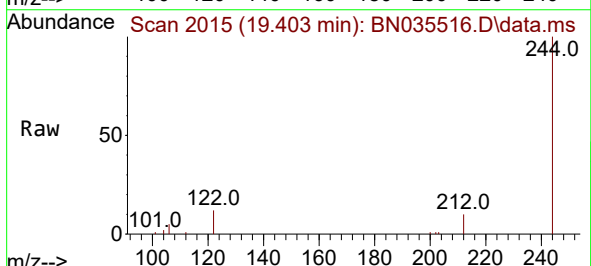
Instrument :
BNA_N
ClientSampleId :
FB-20241206

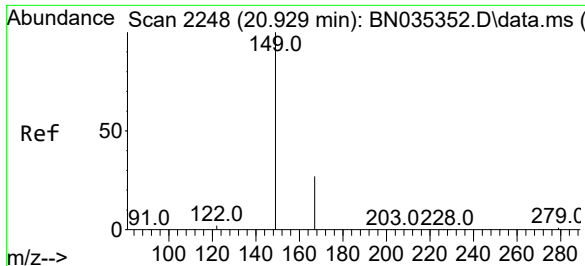
Tgt Ion:	202	Resp:	751
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.0	25.4
203	18.1	14.3	21.5



#31
Terphenyl-d14
Concen: 0.697 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035516.D
Acq: 09 Dec 2024 20:43

Tgt Ion:	244	Resp:	9767
Ion Ratio	Lower	Upper	
244	100		
212	10.0	8.1	12.1
122	11.5	10.3	15.5

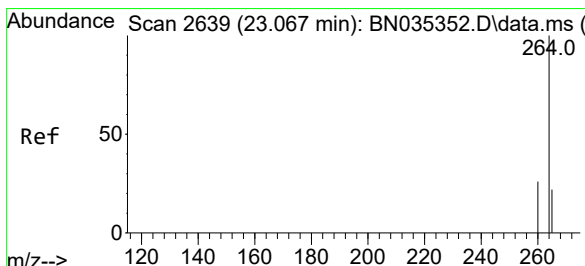
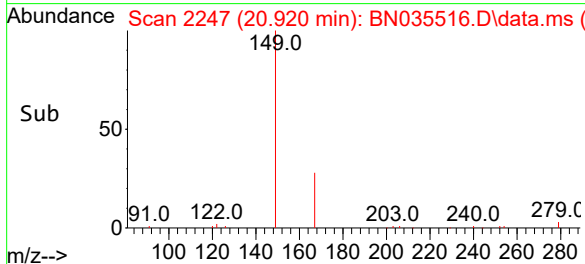
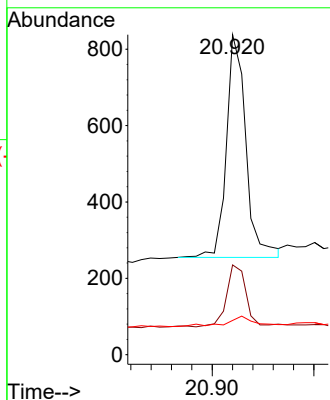
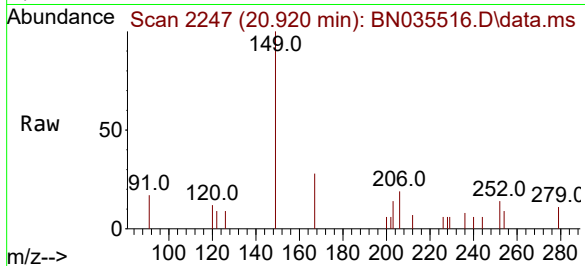




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.079 ng
 RT: 20.920 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN035516.D
 Acq: 09 Dec 2024 20:43

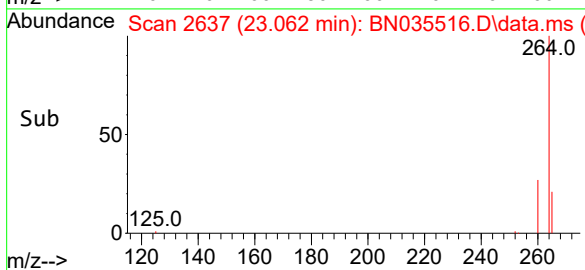
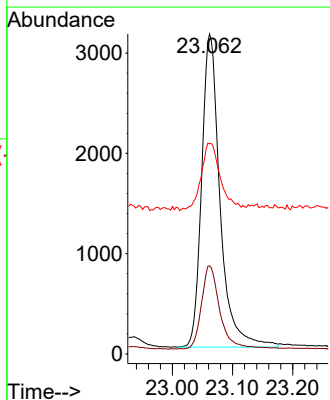
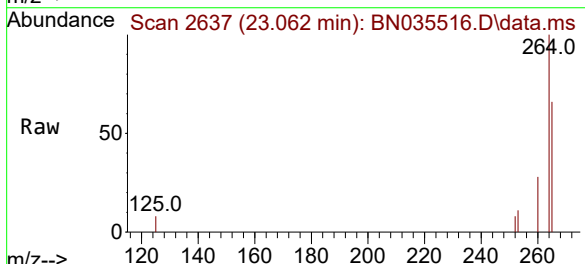
Instrument :
 BNA_N
 ClientSampleId :
 FB-20241206

Tgt Ion:149 Resp: 772
 Ion Ratio Lower Upper
 149 100
 167 26.6 22.2 33.4
 279 5.1 2.7 4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.062 min Scan# 2637
 Delta R.T. -0.006 min
 Lab File: BN035516.D
 Acq: 09 Dec 2024 20:43

Tgt Ion:264 Resp: 6618
 Ion Ratio Lower Upper
 264 100
 260 27.5 21.4 32.2
 265 65.7 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035523.D
 Acq On : 10 Dec 2024 00:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 10 01:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

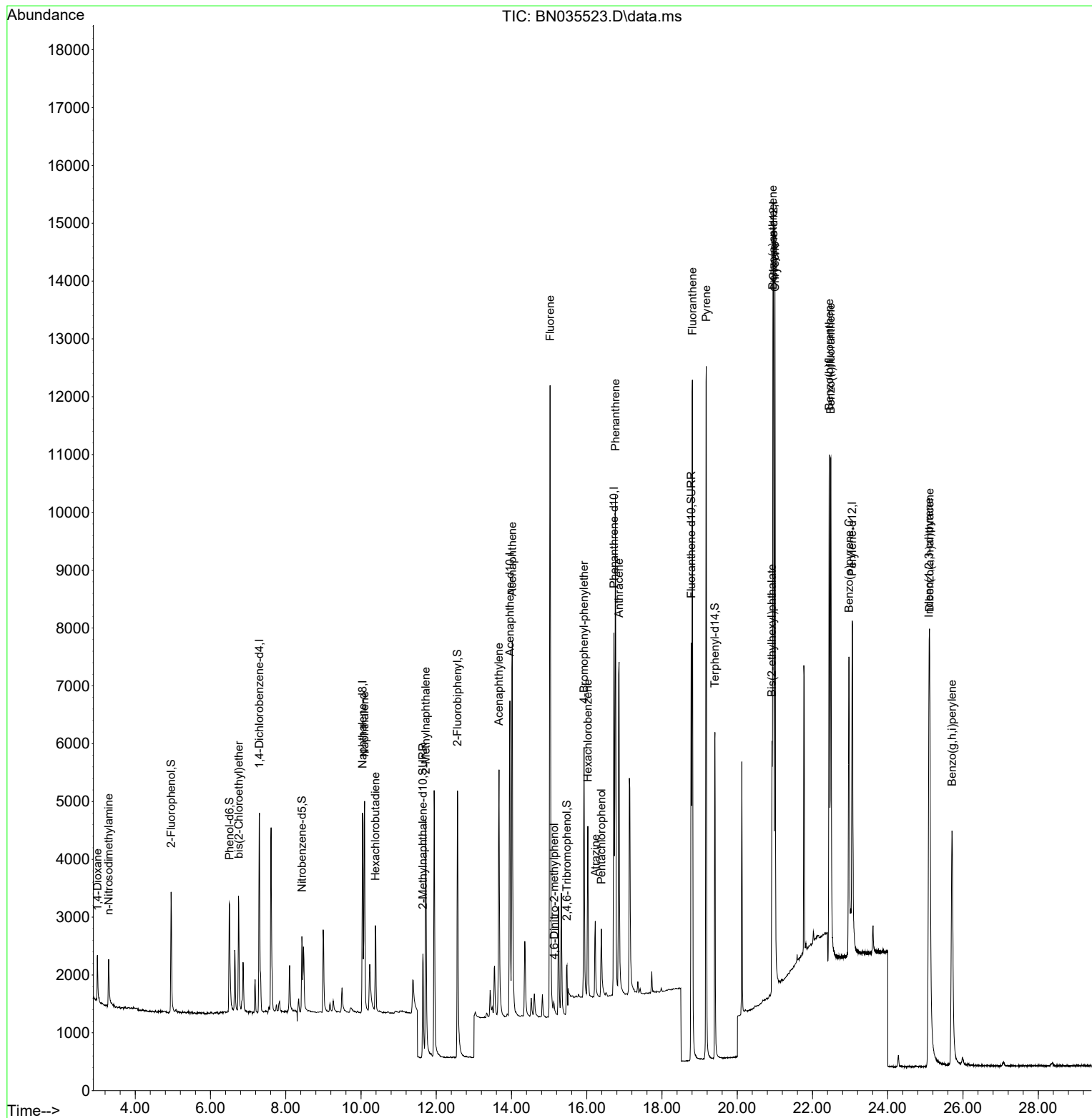
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1809	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4948	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3762	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8986	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7813	0.400	ng	0.00
35) Perylene-d12	23.056	264	7976	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1833	0.405	ng	-0.01
5) Phenol-d6	6.506	99	2256	0.414	ng	0.00
8) Nitrobenzene-d5	8.429	82	1491	0.493	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3094	0.400	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	1002	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5445	0.383	ng	-0.01
27) Fluoranthene-d10	18.775	212	9035	0.355	ng	0.00
31) Terphenyl-d14	19.407	244	6345	0.412	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	698	0.404	ng	98
3) n-Nitrosodimethylamine	3.292	42	617	0.428	ng	# 95
6) bis(2-Chloroethyl)ether	6.752	93	1719	0.376	ng	100
9) Naphthalene	10.095	128	5071	0.389	ng	99
10) Hexachlorobutadiene	10.383	225	1254	0.417	ng	# 99
12) 2-Methylnaphthalene	11.722	142	3664	0.392	ng	99
16) Acenaphthylene	13.668	152	5848	0.370	ng	99
17) Acenaphthene	14.021	154	4030	0.384	ng	100
18) Fluorene	15.026	166	5811	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	248	0.281	ng	# 70
21) 4-Bromophenyl-phenylether	15.929	248	2058	0.392	ng	# 87
22) Hexachlorobenzene	16.028	284	2505	0.406	ng	99
23) Atrazine	16.227	200	1338	0.358	ng	95
24) Pentachlorophenol	16.388	266	807	0.301	ng	88
25) Phenanthrene	16.760	178	9239	0.374	ng	100
26) Anthracene	16.860	178	8006	0.359	ng	100
28) Fluoranthene	18.808	202	11681	0.351	ng	99
30) Pyrene	19.175	202	11847	0.411	ng	100
32) Benzo(a)anthracene	20.947	228	9669	0.354	ng	99
33) Chrysene	21.001	228	11263	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4196	0.389	ng	99
36) Indeno(1,2,3-cd)pyrene	25.096	276	11338	0.364	ng	97
37) Benzo(b)fluoranthene	22.445	252	13396	0.459	ng	97
38) Benzo(k)fluoranthene	22.486	252	11357	0.395	ng	99
39) Benzo(a)pyrene	22.968	252	8586	0.357	ng	97
40) Dibenzo(a,h)anthracene	25.114	278	8605	0.350	ng	96
41) Benzo(g,h,i)perylene	25.708	276	9565	0.372	ng	99

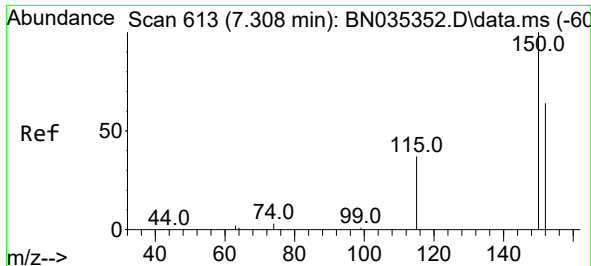
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

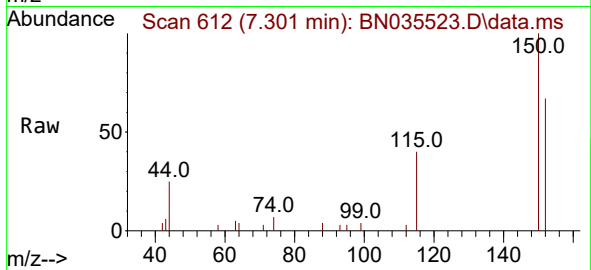
Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



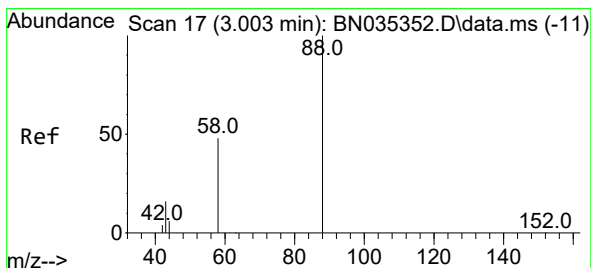
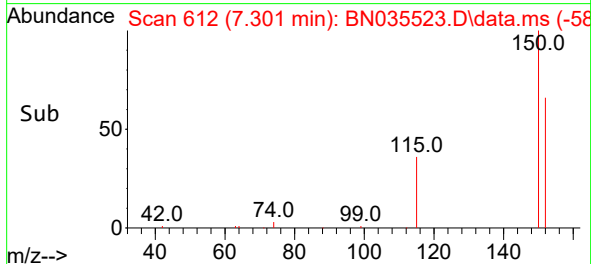
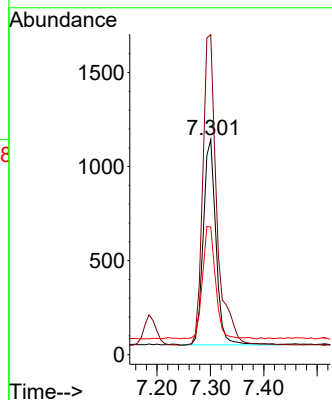


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

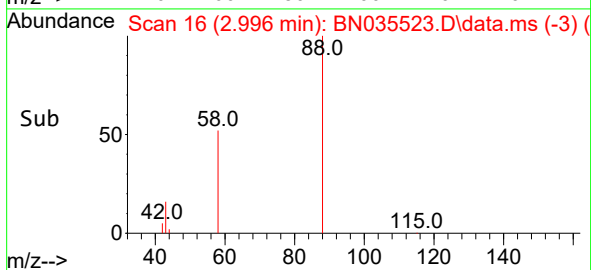
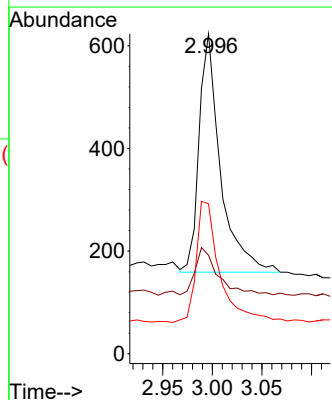
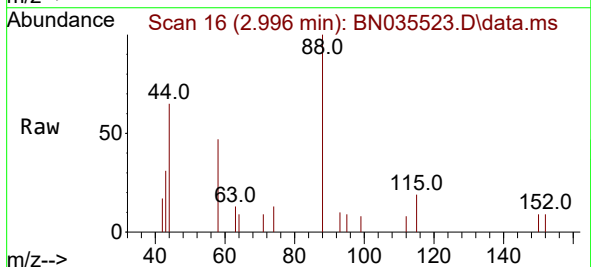


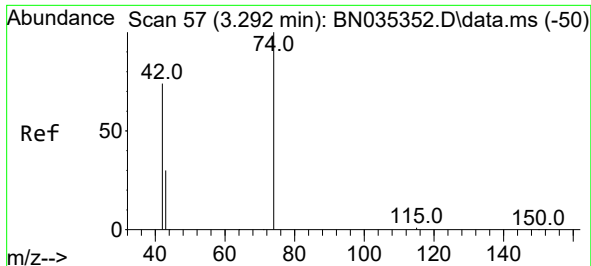
Tgt Ion:152 Resp: 1809
Ion Ratio Lower Upper
152 100
150 148.8 124.0 186.0
115 59.4 49.6 74.4



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 88 Resp: 698
Ion Ratio Lower Upper
88 100
43 22.5 17.2 25.8
58 54.0 44.5 66.7

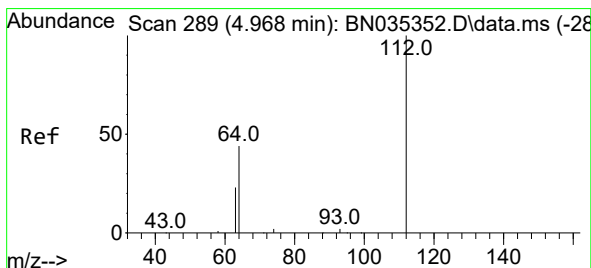
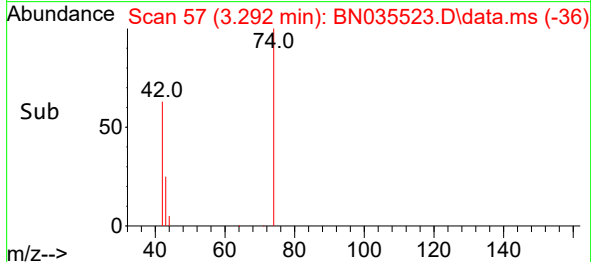
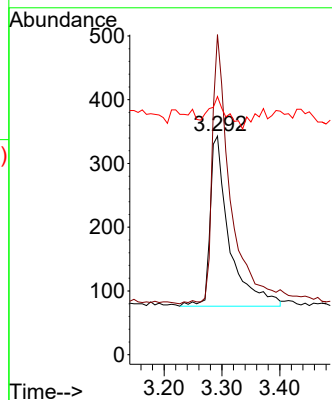
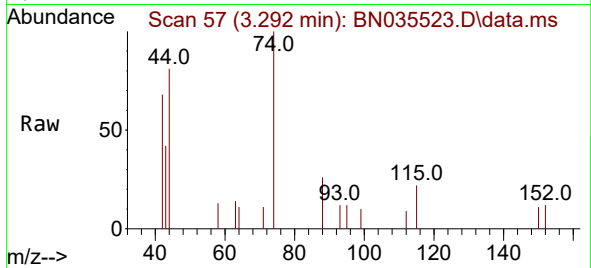




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

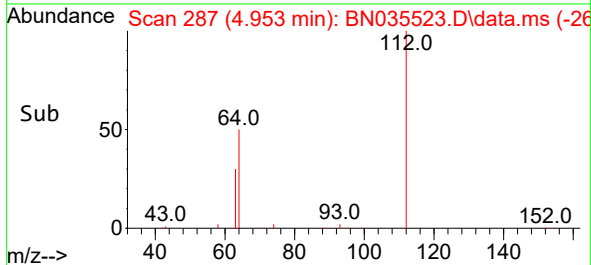
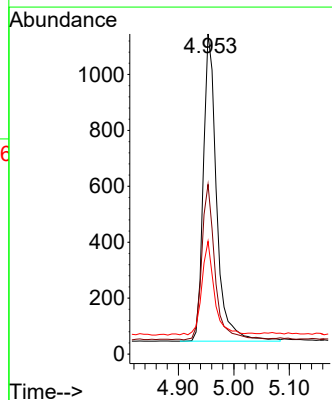
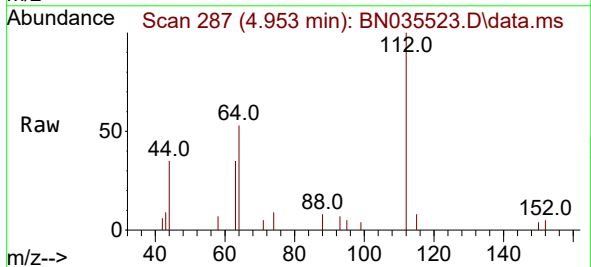
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

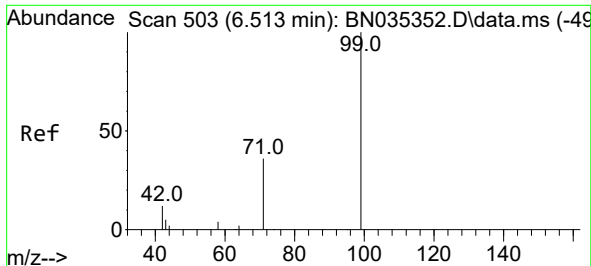
Tgt Ion: 42 Resp: 617
Ion Ratio Lower Upper
42 100
74 150.1 124.9 187.3
44 17.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 112 Resp: 1833
Ion Ratio Lower Upper
112 100
64 50.2 39.8 59.8
63 28.5 21.0 31.6

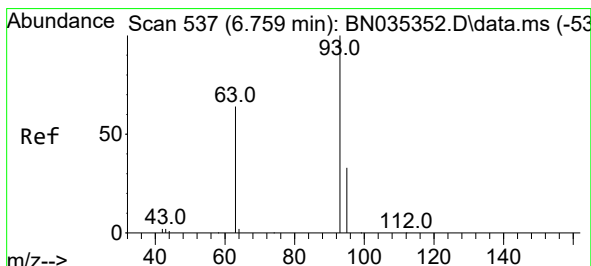
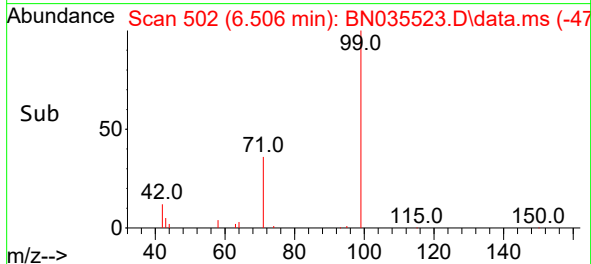
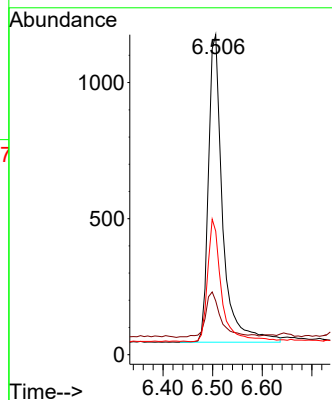
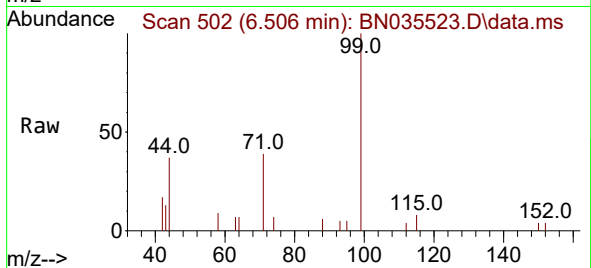




#5
Phenol-d6
Concen: 0.414 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

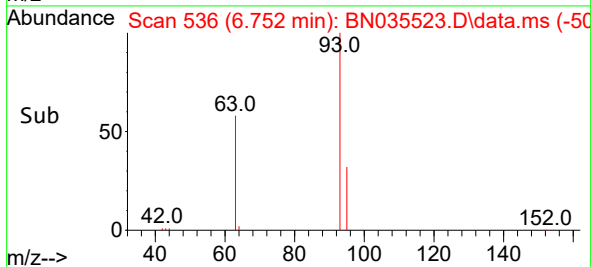
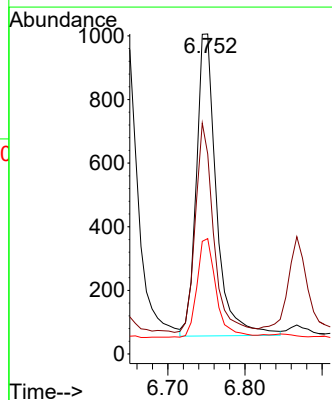
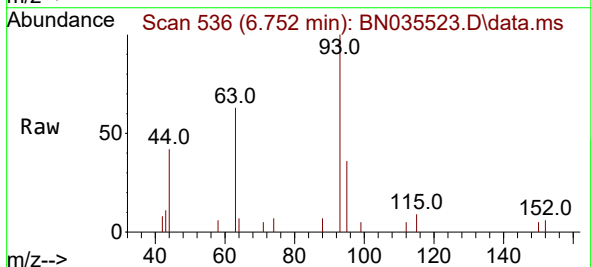
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

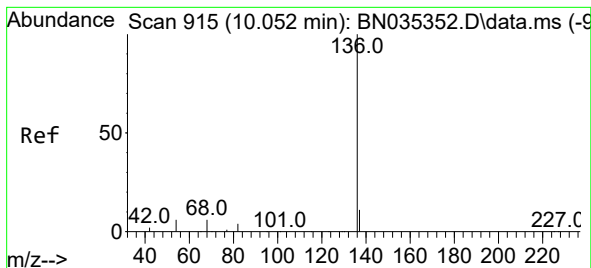
Tgt Ion: 99 Resp: 2256
Ion Ratio Lower Upper
99 100
42 16.2 11.4 17.2
71 39.1 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 93 Resp: 1719
Ion Ratio Lower Upper
93 100
63 62.8 50.4 75.6
95 31.6 25.7 38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.041 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 4948

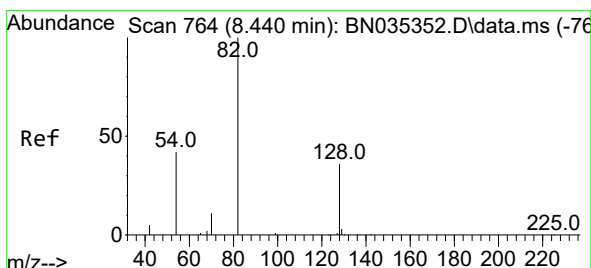
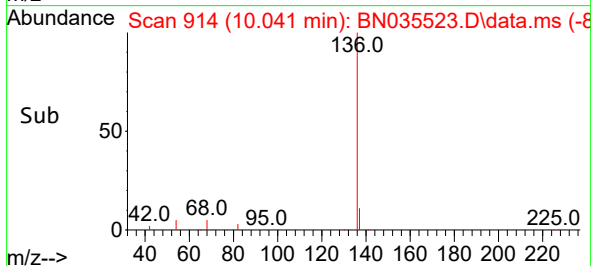
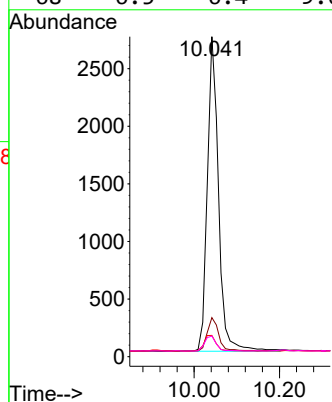
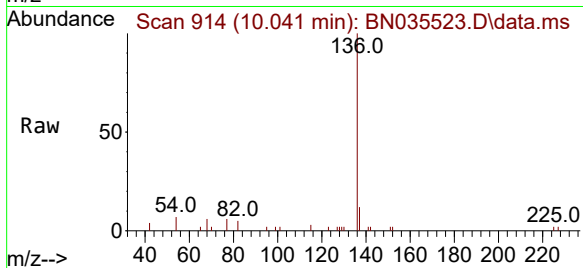
Ion Ratio Lower Upper

136 100

137 12.2 10.2 15.2

54 6.7 6.1 9.1

68 6.5 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.493 ng

RT: 8.429 min Scan# 763

Delta R.T. -0.011 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

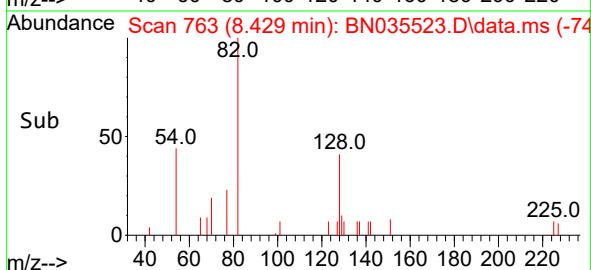
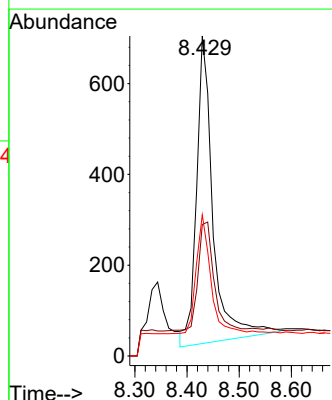
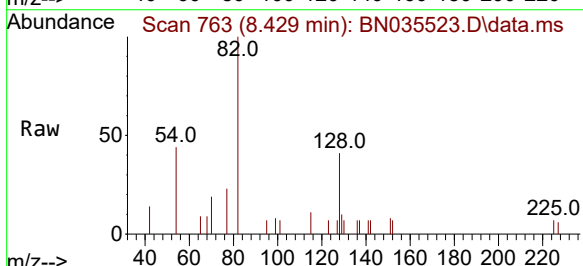
Tgt Ion: 82 Resp: 1491

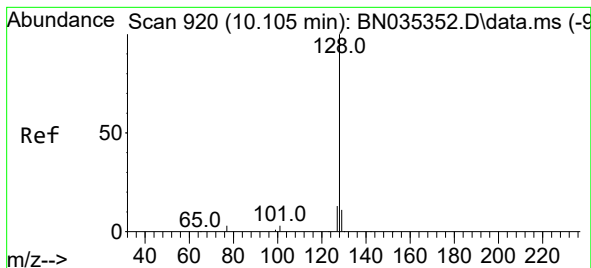
Ion Ratio Lower Upper

82 100

128 41.1 33.4 50.0

54 44.1 36.7 55.1





#9

Naphthalene

Concen: 0.389 ng

RT: 10.095 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

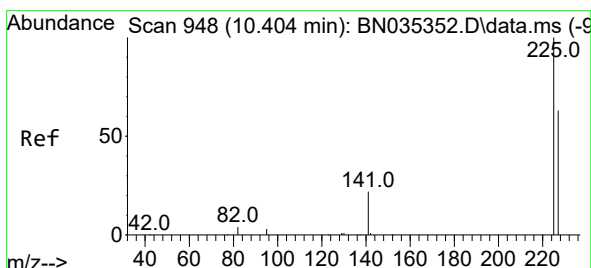
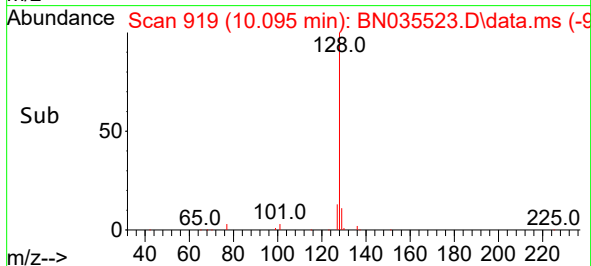
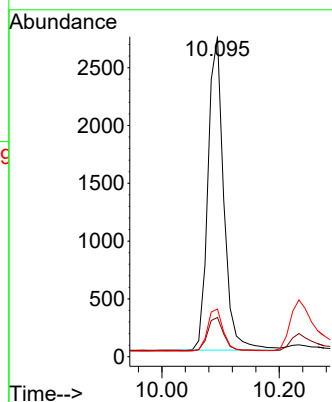
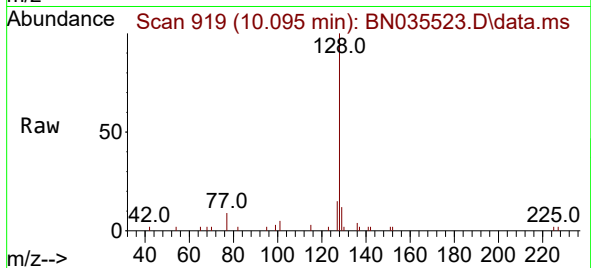
Tgt Ion:128 Resp: 5071

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.9 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.417 ng

RT: 10.383 min Scan# 946

Delta R.T. -0.021 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

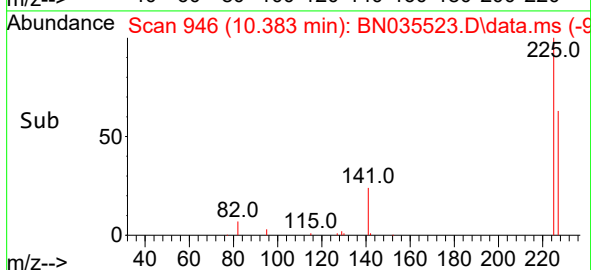
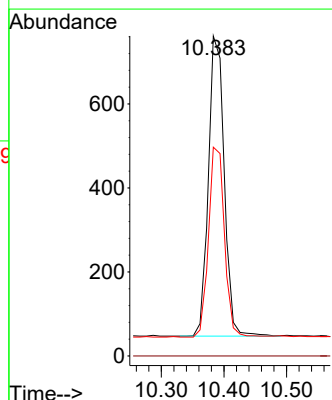
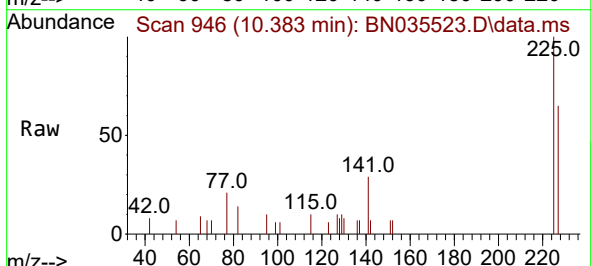
Tgt Ion:225 Resp: 1254

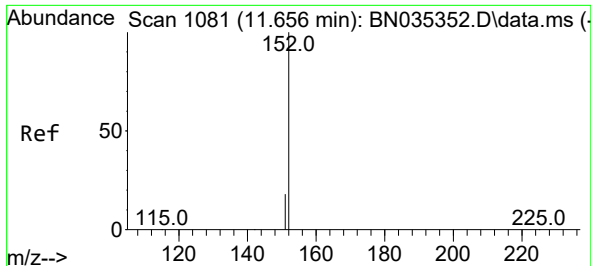
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.3 76.9

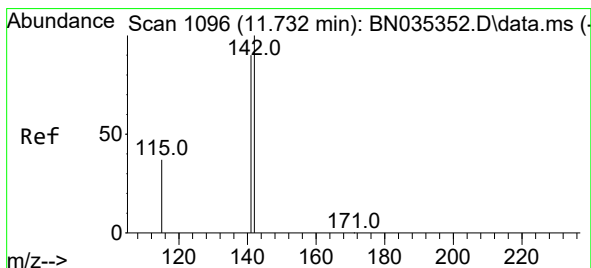
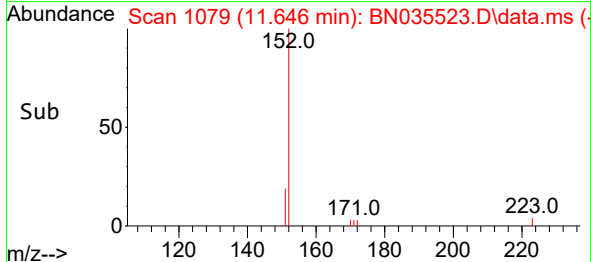
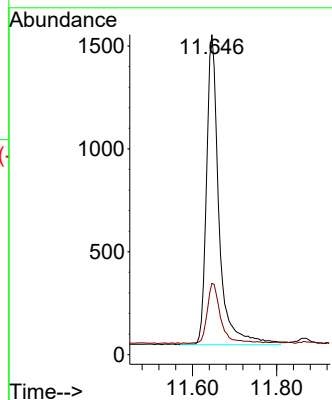
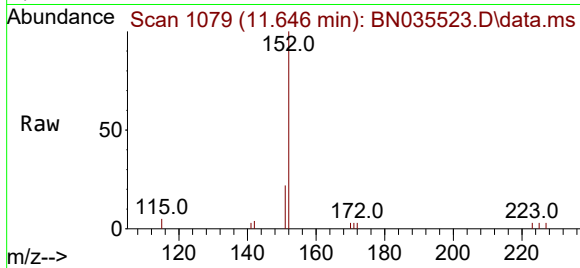




#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

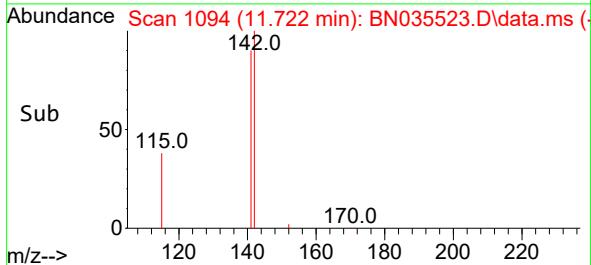
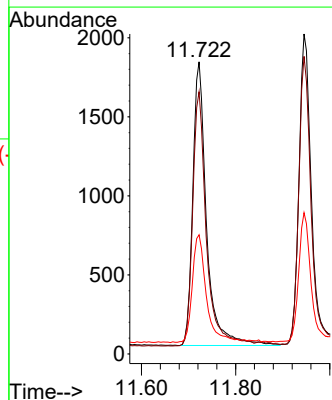
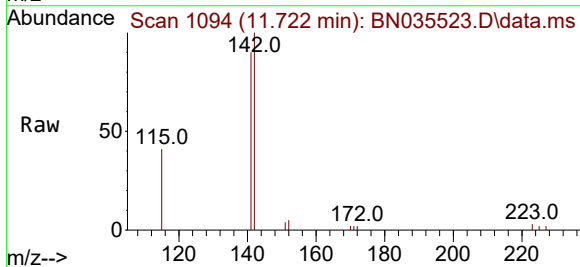
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

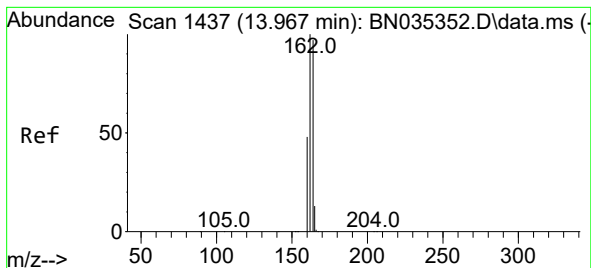
Tgt Ion:152 Resp: 3094
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:142 Resp: 3664
Ion Ratio Lower Upper
142 100
141 89.8 72.2 108.4
115 40.8 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

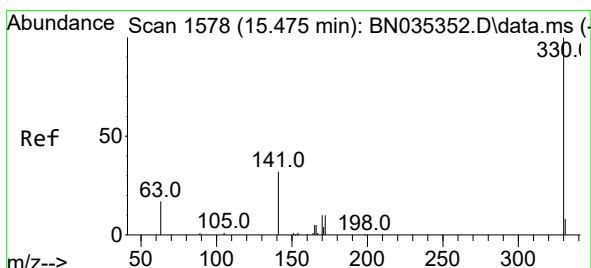
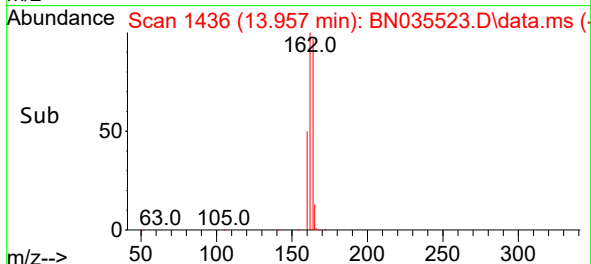
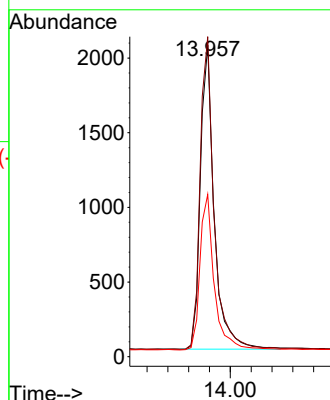
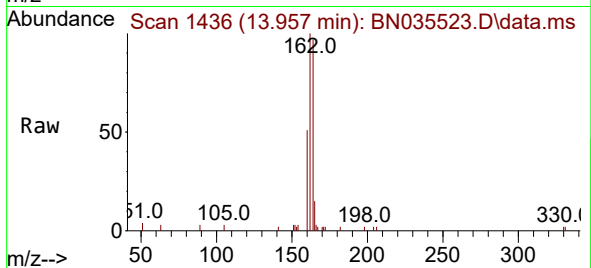
Tgt Ion:164 Resp: 3762

Ion Ratio Lower Upper

164 100

162 102.7 82.2 123.2

160 52.1 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.375 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

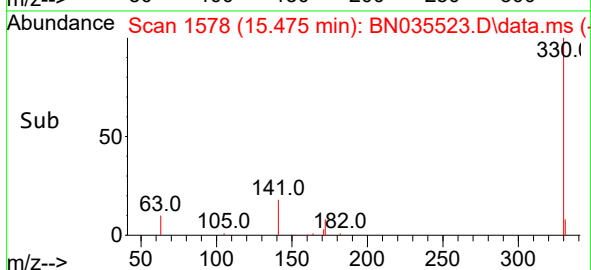
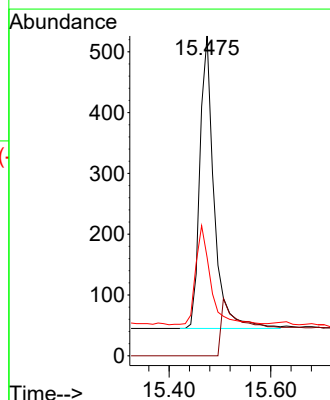
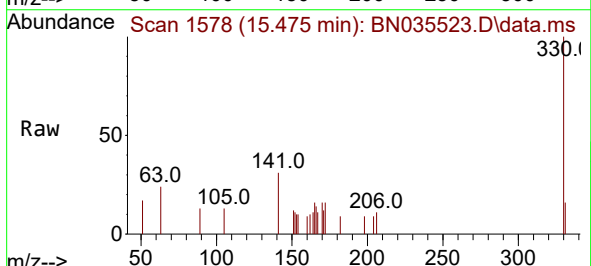
Tgt Ion:330 Resp: 1002

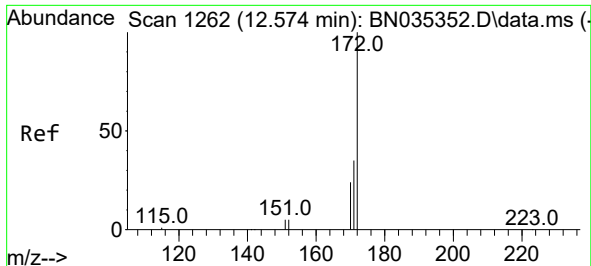
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.8 26.6 40.0

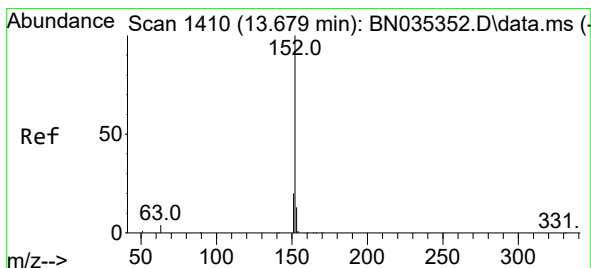
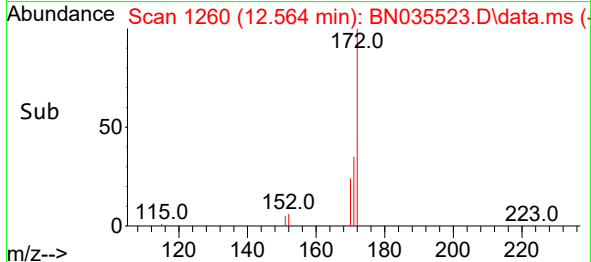
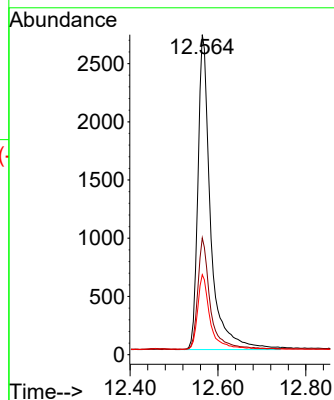
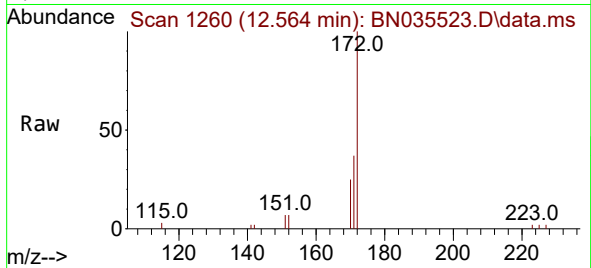




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.564 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

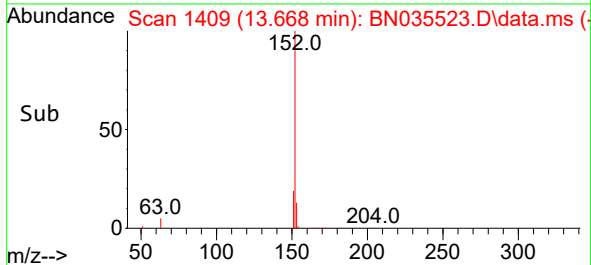
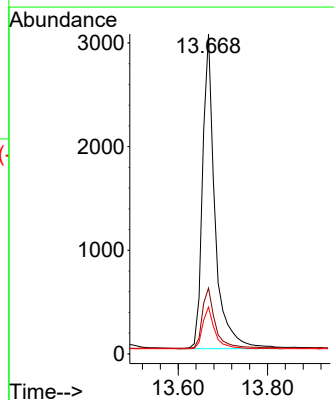
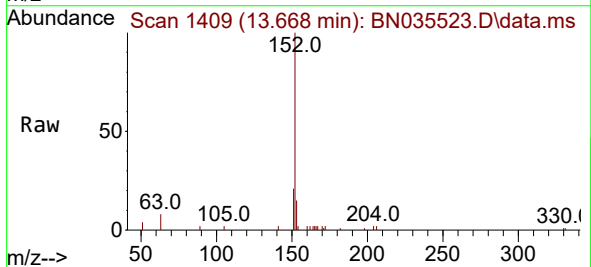
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

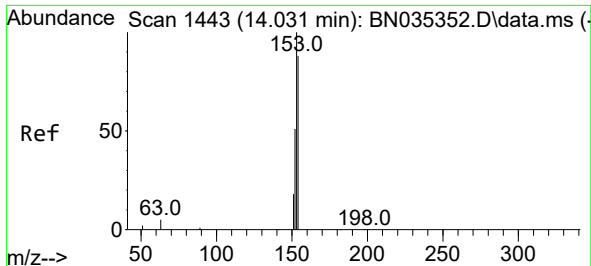
Tgt Ion:172 Resp: 5445
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 25.0 19.8 29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:152 Resp: 5848
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 13.1 10.4 15.6

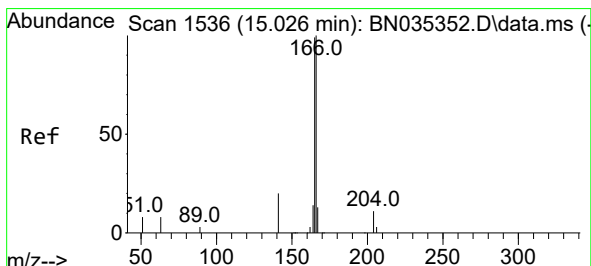
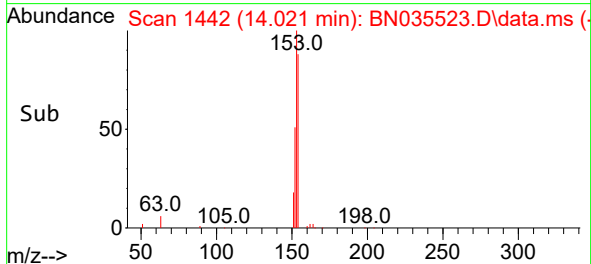
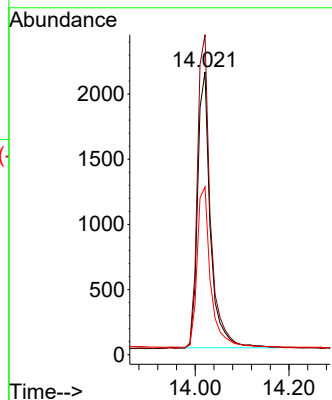
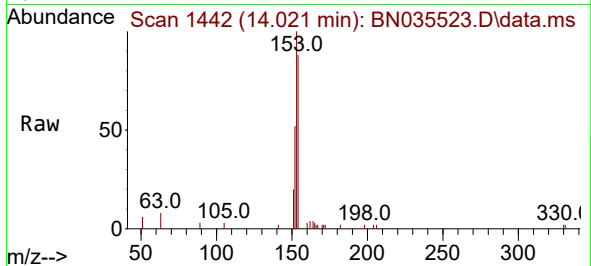




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

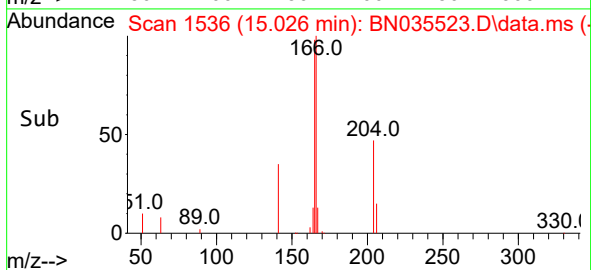
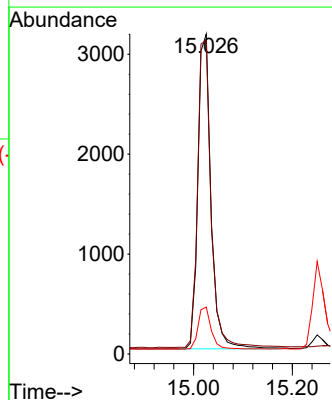
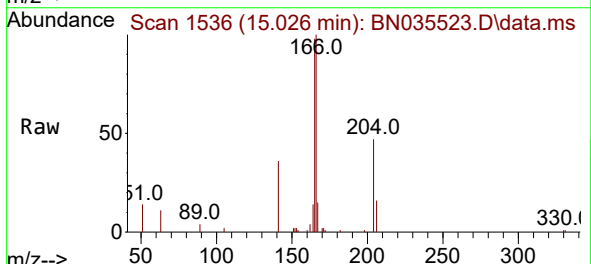
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

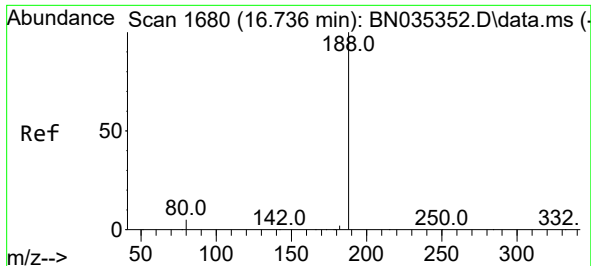
Tgt Ion:154 Resp: 4030
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 61.0 49.0 73.6



#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:166 Resp: 5811
Ion Ratio Lower Upper
166 100
165 100.8 79.7 119.5
167 13.3 10.8 16.2

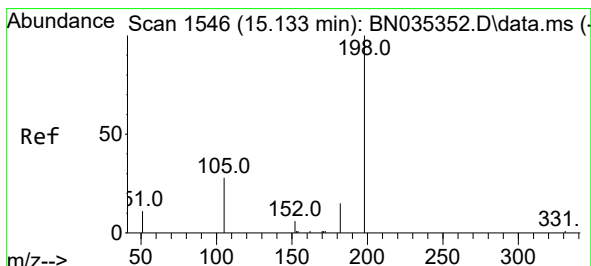
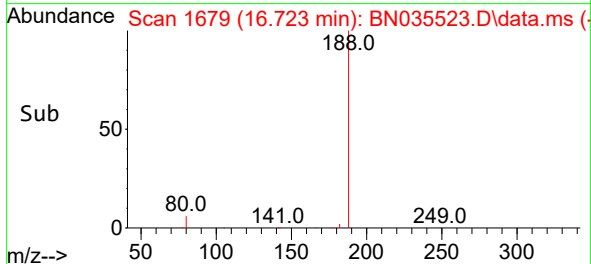
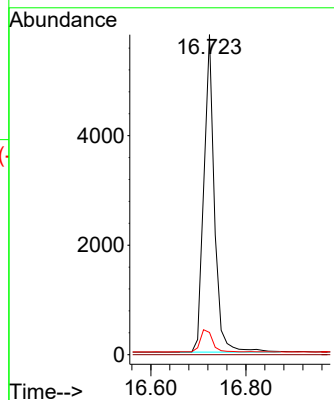
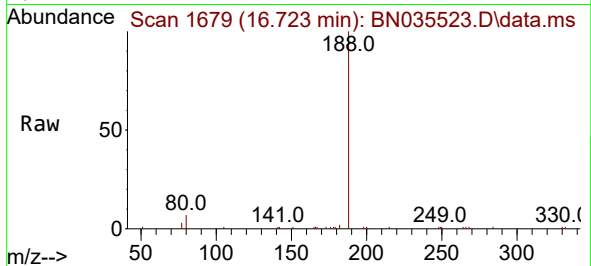




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

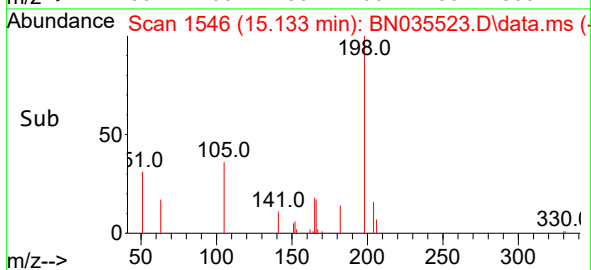
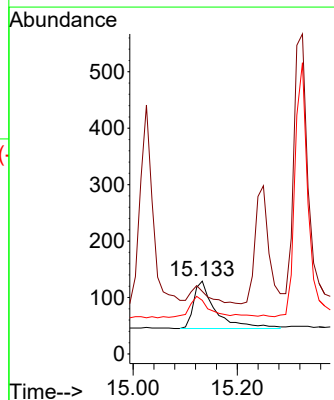
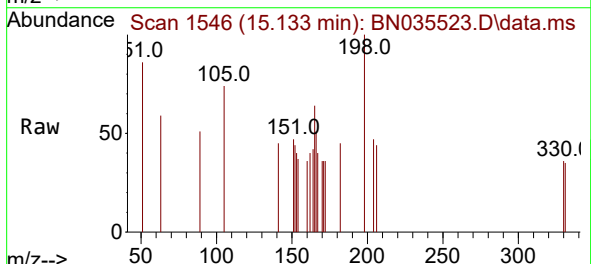
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

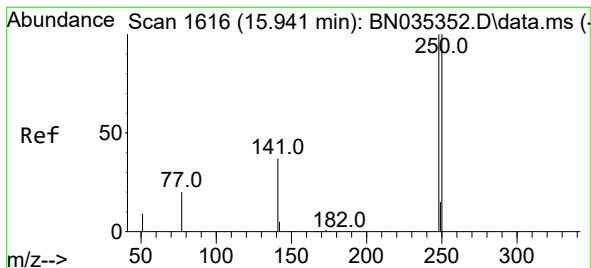
Tgt Ion:188 Resp: 8986
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.0 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.281 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:198 Resp: 248
Ion Ratio Lower Upper
198 100
51 86.0 46.5 69.7#
105 73.6 45.3 67.9#

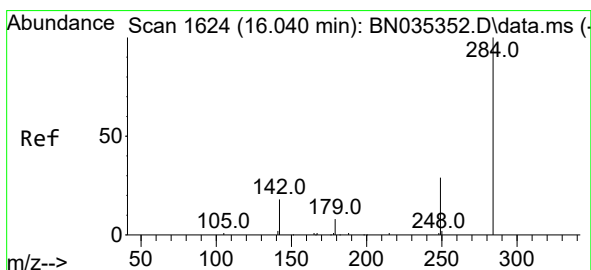
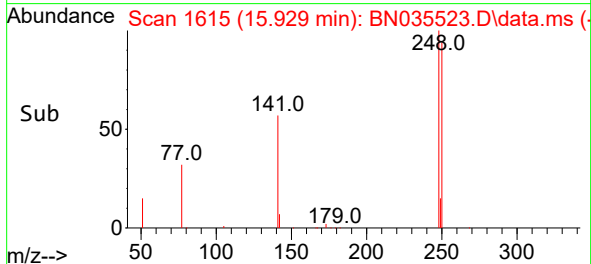
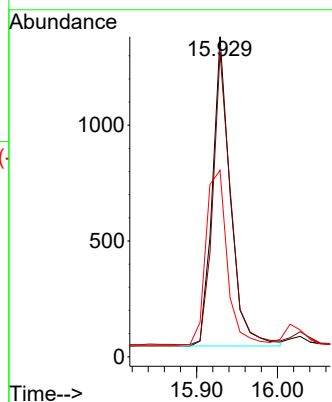
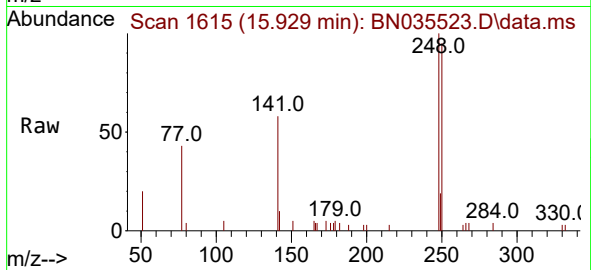




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

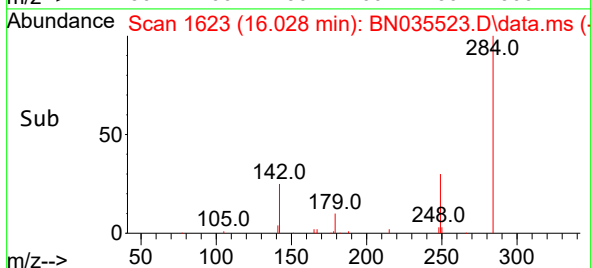
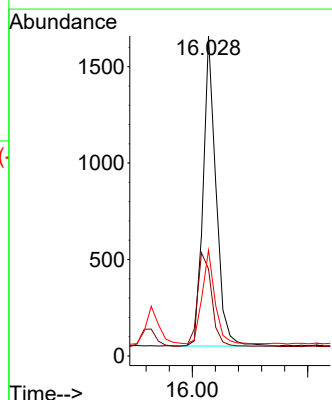
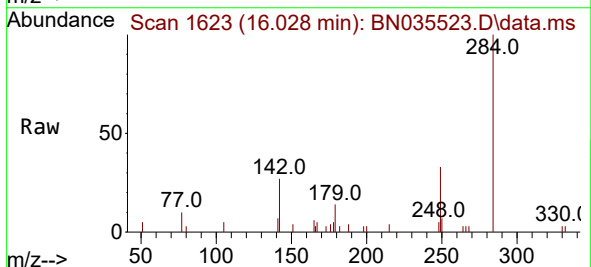
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

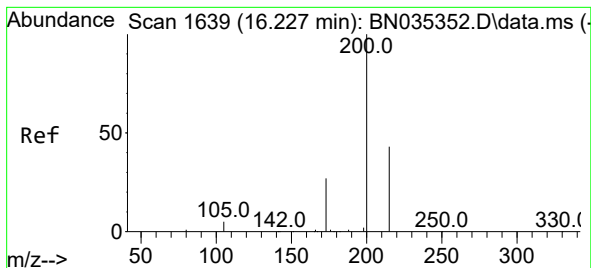
Tgt Ion:248 Resp: 2058
Ion Ratio Lower Upper
248 100
250 95.2 80.6 120.8
141 58.2 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:284 Resp: 2505
Ion Ratio Lower Upper
284 100
142 33.7 26.7 40.1
249 29.9 24.6 36.8





#23

Atrazine

Concen: 0.358 ng

RT: 16.227 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

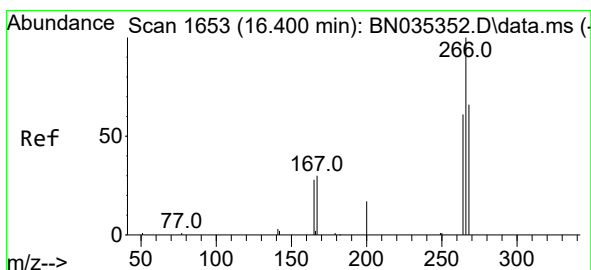
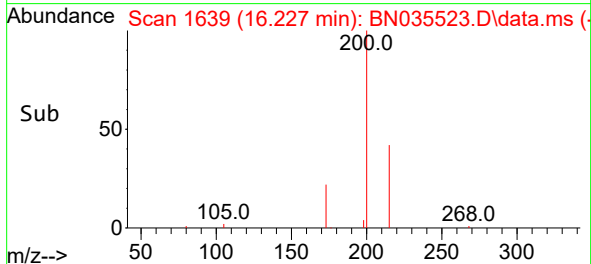
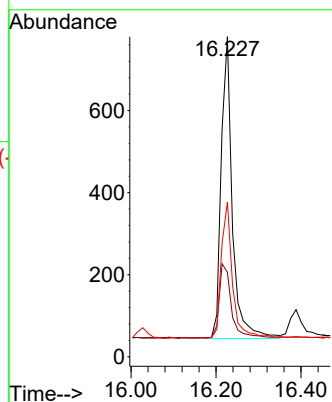
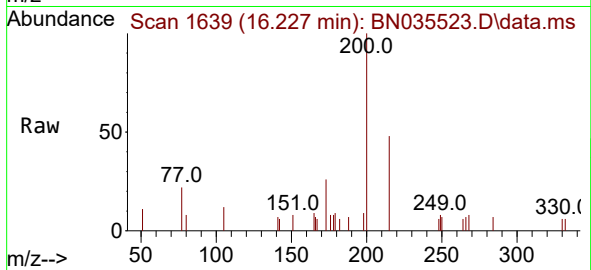
Tgt Ion:200 Resp: 1338

Ion Ratio Lower Upper

200 100

173 26.4 24.1 36.1

215 48.3 36.9 55.3



#24

Pentachlorophenol

Concen: 0.301 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

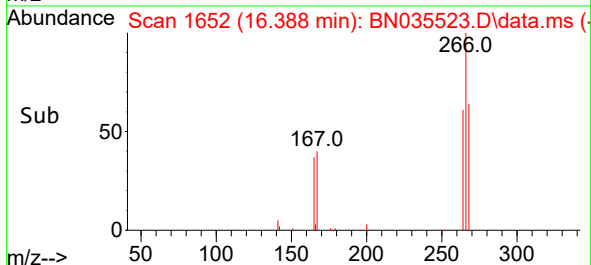
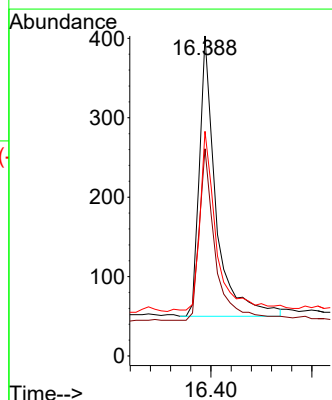
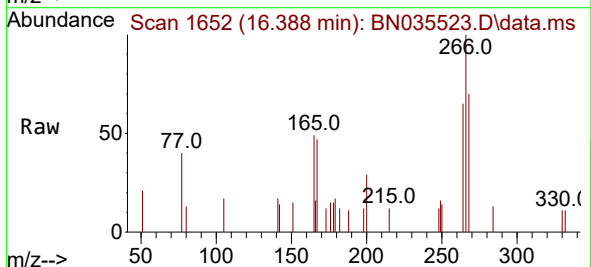
Tgt Ion:266 Resp: 807

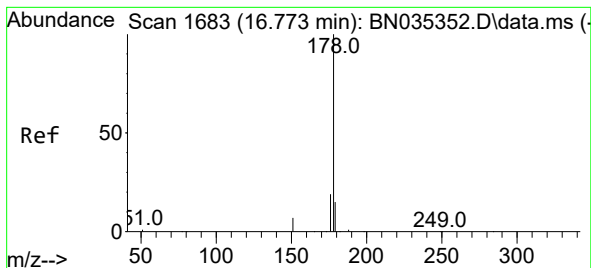
Ion Ratio Lower Upper

266 100

264 58.9 42.3 63.5

268 64.6 43.3 64.9





#25

Phenanthrene

Concen: 0.374 ng

RT: 16.760 min Scan# 1682

Delta R.T. -0.012 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

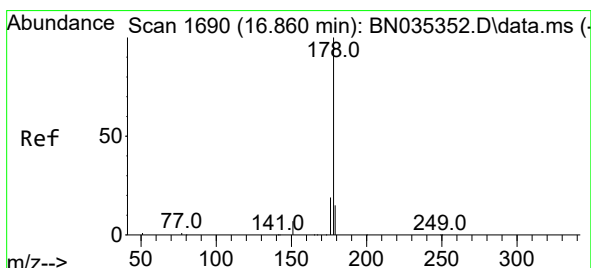
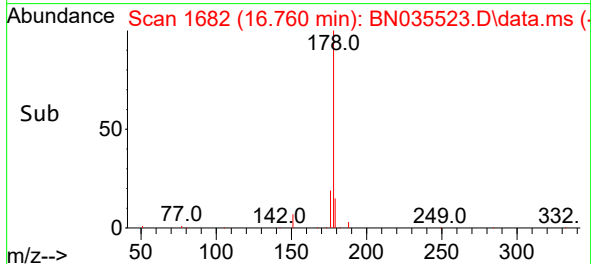
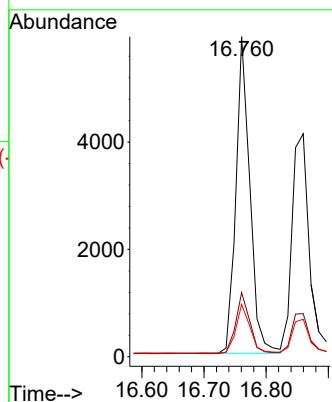
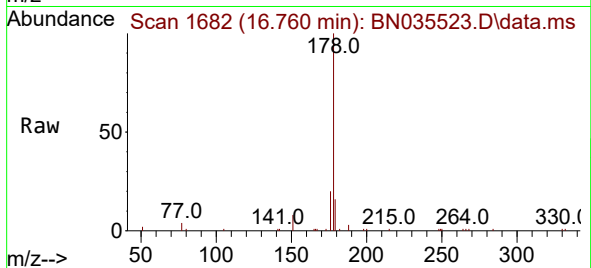
Tgt Ion:178 Resp: 9239

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.7 12.3 18.5



#26

Anthracene

Concen: 0.359 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

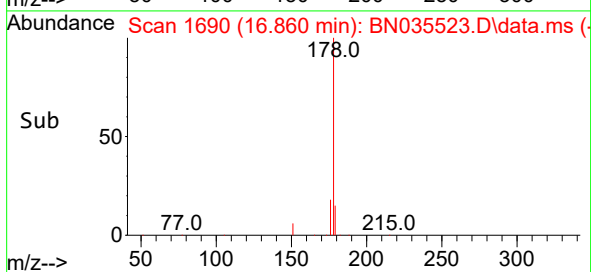
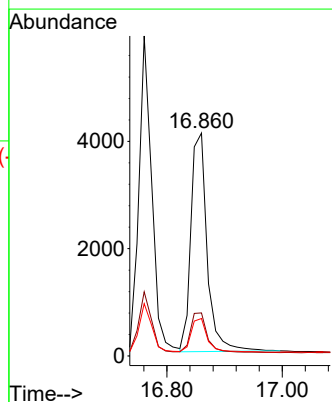
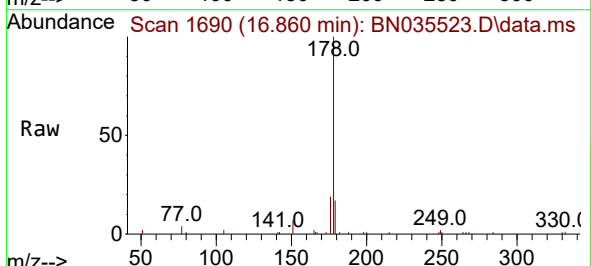
Tgt Ion:178 Resp: 8006

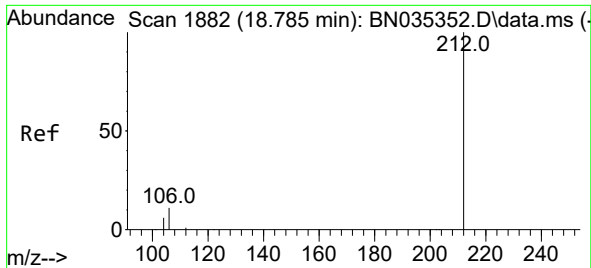
Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.6

179 15.7 12.6 18.8

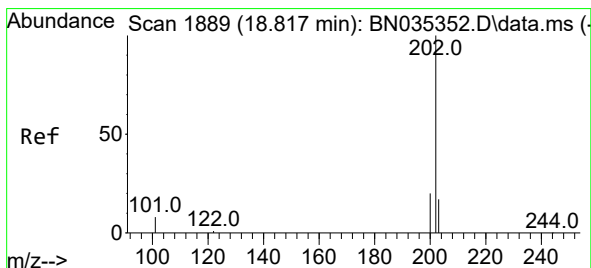
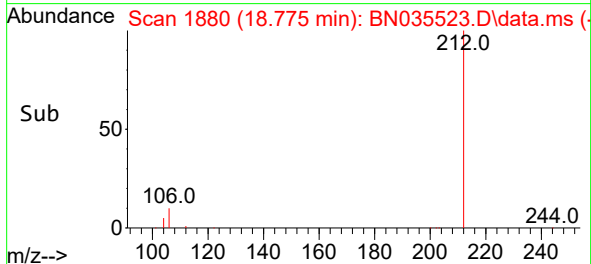
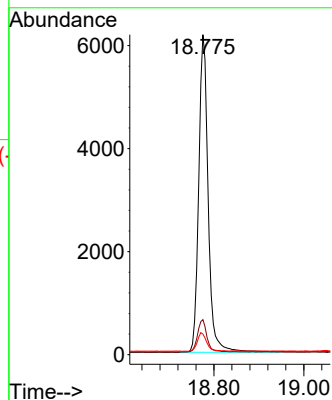
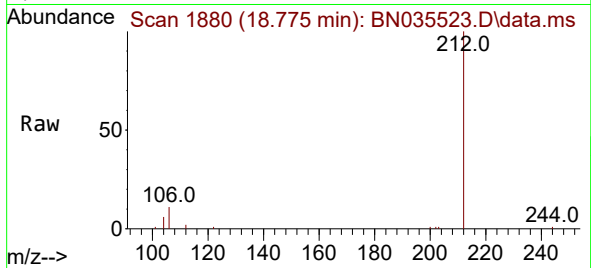




#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

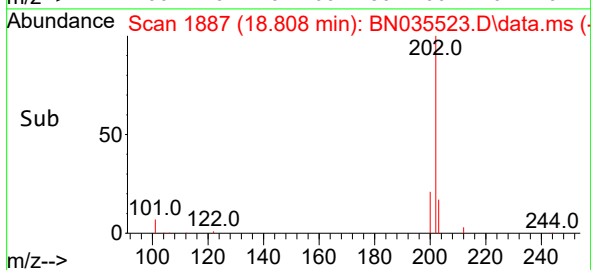
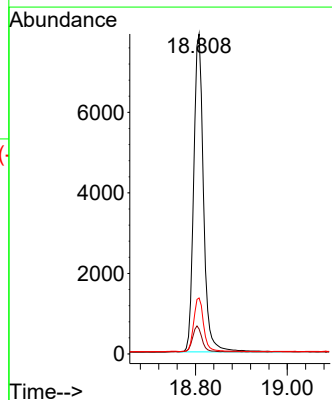
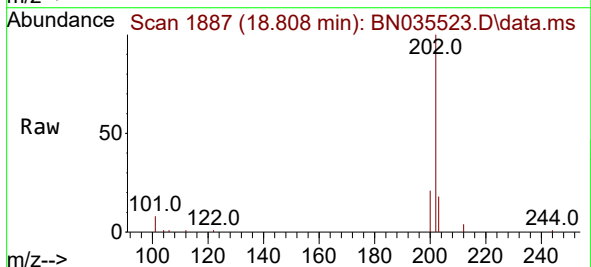
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

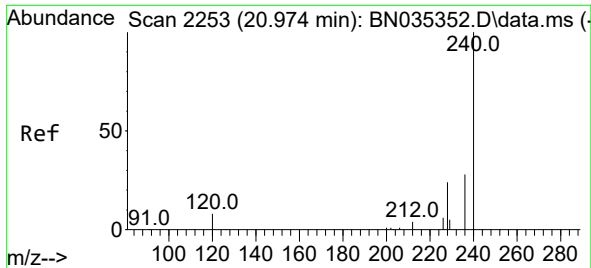
Tgt Ion:212 Resp: 9035
Ion Ratio Lower Upper
212 100
106 10.0 9.2 13.8
104 5.7 5.3 7.9



#28
Fluoranthene
Concen: 0.351 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11681
Ion Ratio Lower Upper
202 100
101 8.1 7.4 11.0
203 17.1 13.7 20.5

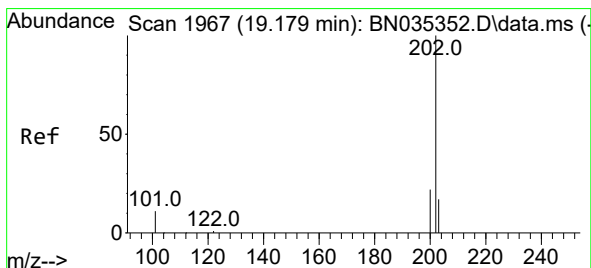
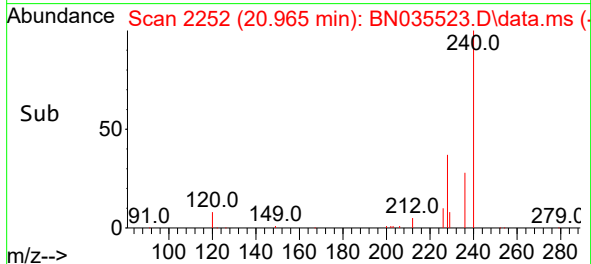
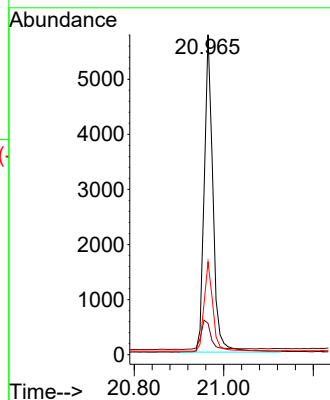
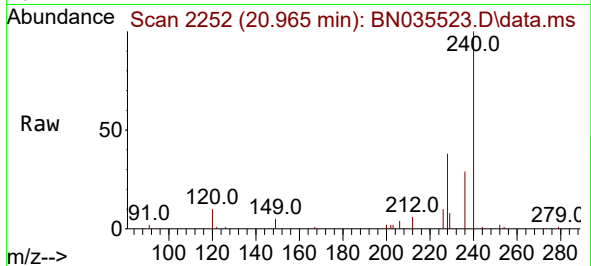




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

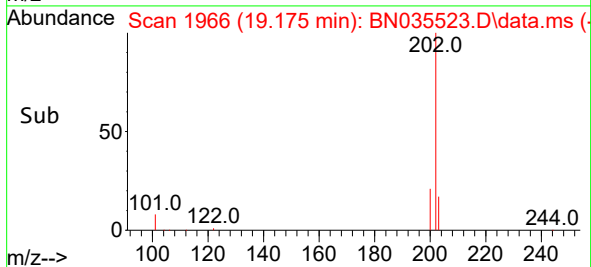
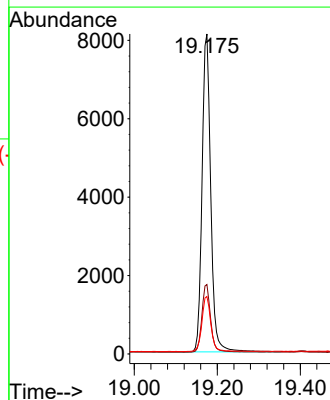
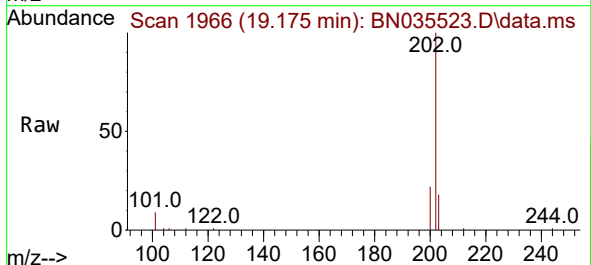
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

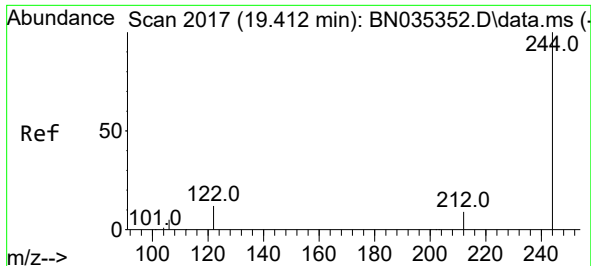
Tgt Ion:240 Resp: 7813
Ion Ratio Lower Upper
240 100
120 9.8 7.9 11.9
236 29.0 22.9 34.3



#30
Pyrene
Concen: 0.411 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11847
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 17.9 14.3 21.5

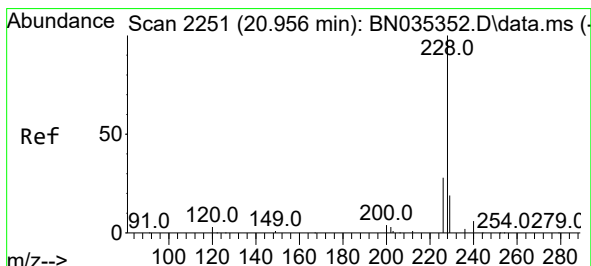
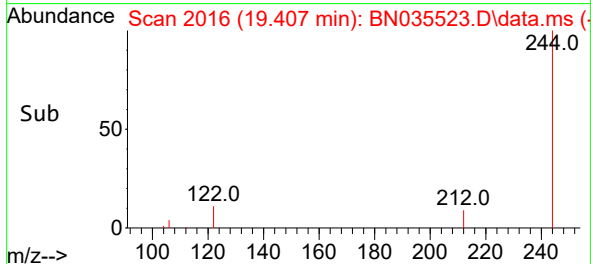
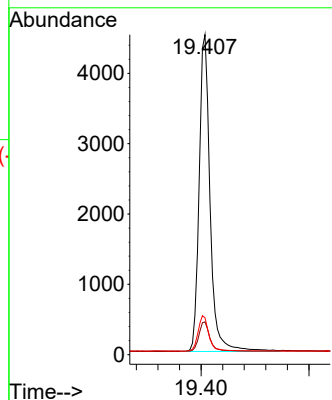
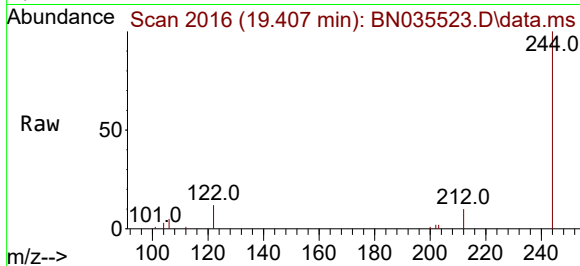




#31
 Terphenyl-d14
 Concen: 0.412 ng
 RT: 19.407 min Scan# 20
 Delta R.T. -0.005 min
 Lab File: BN035523.D
 Acq: 10 Dec 2024 00:55

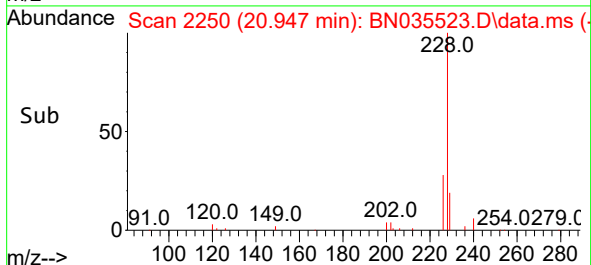
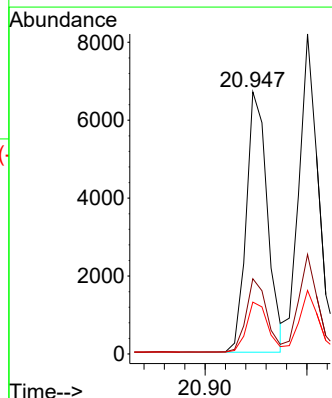
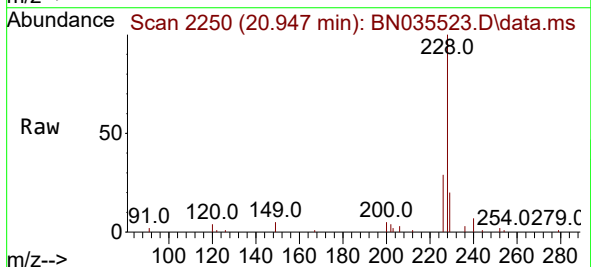
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

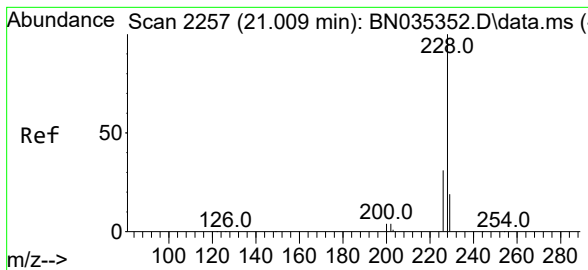
Tgt Ion:244 Resp: 6345
 Ion Ratio Lower Upper
 244 100
 212 10.2 8.1 12.1
 122 11.6 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.354 ng
 RT: 20.947 min Scan# 2250
 Delta R.T. -0.009 min
 Lab File: BN035523.D
 Acq: 10 Dec 2024 00:55

Tgt Ion:228 Resp: 9669
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.5 33.7
 229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.400 ng

RT: 21.001 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

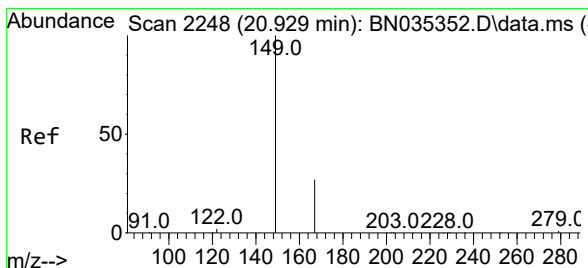
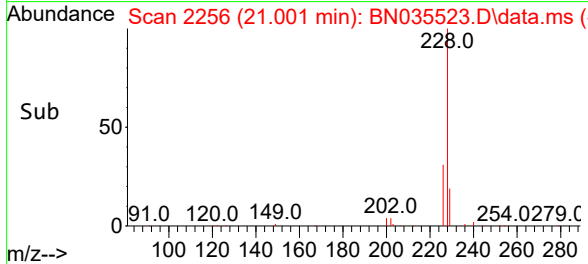
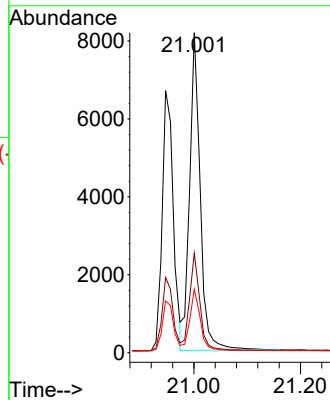
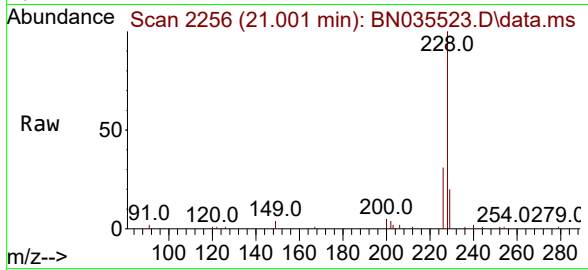
Tgt Ion:228 Resp: 11263

Ion Ratio Lower Upper

228 100

226 31.1 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.389 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.009 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

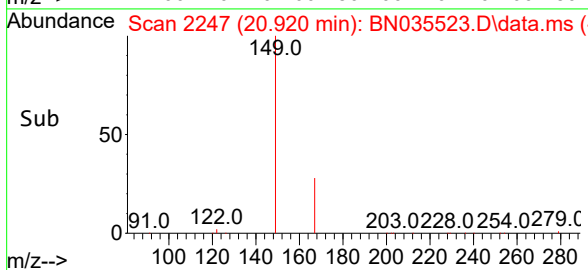
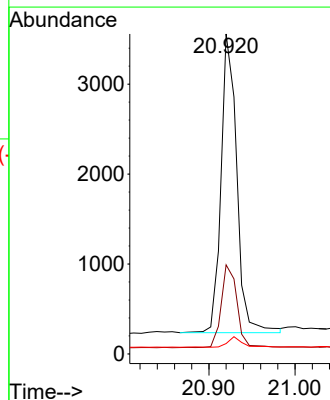
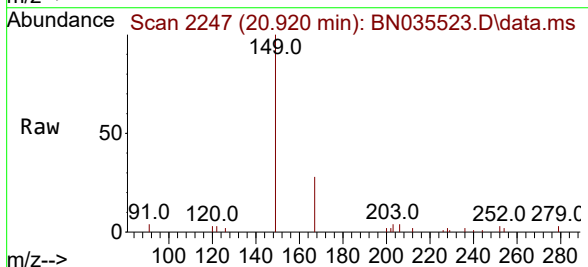
Tgt Ion:149 Resp: 4196

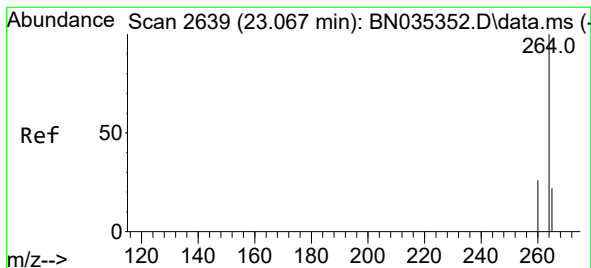
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.056 min Scan# 2

Delta R.T. -0.012 min

Lab File: BN035523.D

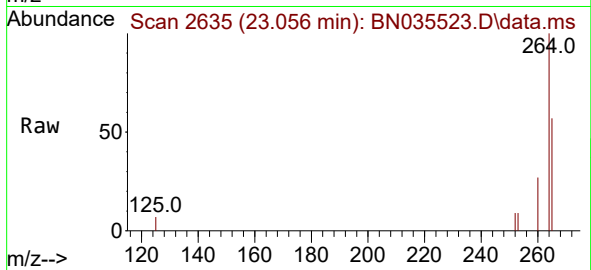
Acq: 10 Dec 2024 00:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



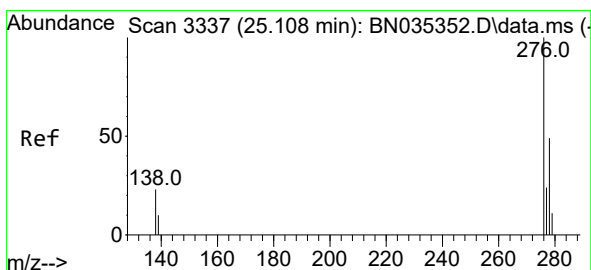
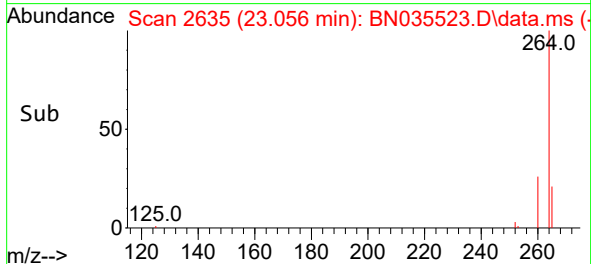
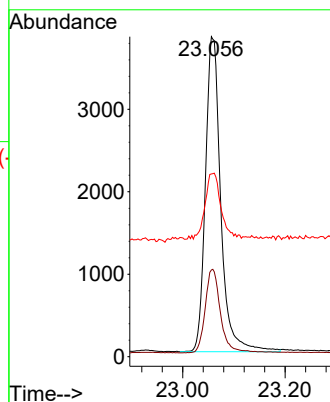
Tgt Ion:264 Resp: 7976

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 57.1 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.096 min Scan# 3333

Delta R.T. -0.012 min

Lab File: BN035523.D

Acq: 10 Dec 2024 00:55

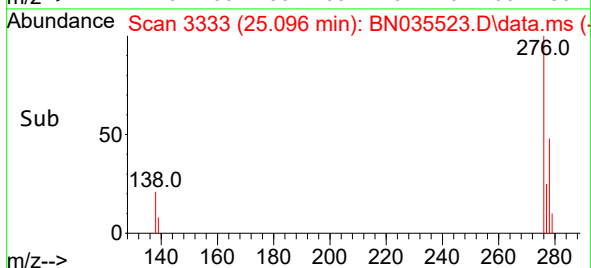
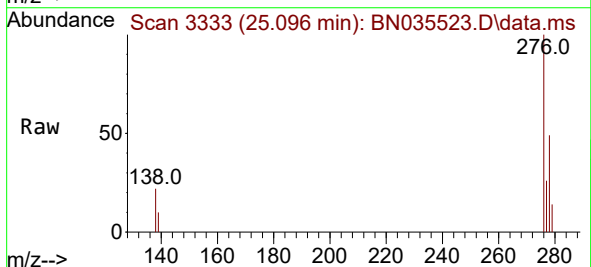
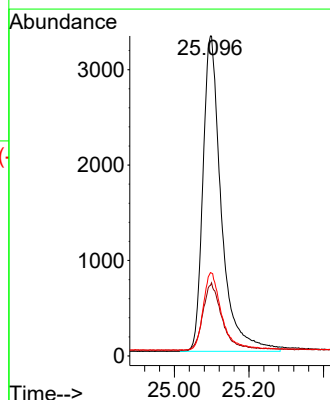
Tgt Ion:276 Resp: 11338

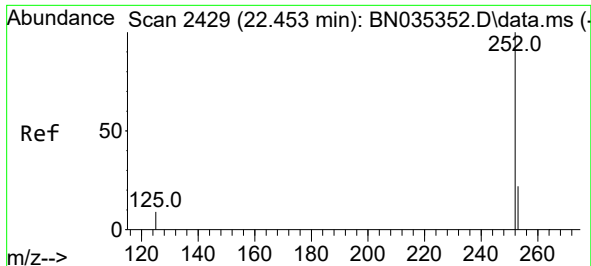
Ion Ratio Lower Upper

276 100

138 21.5 19.4 29.0

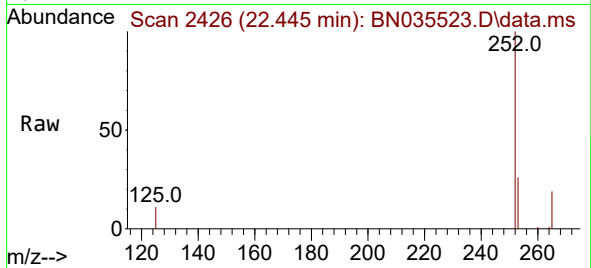
277 25.0 19.8 29.6



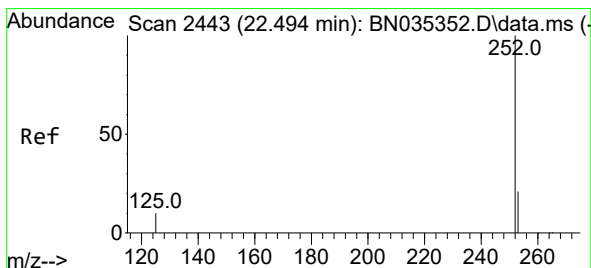
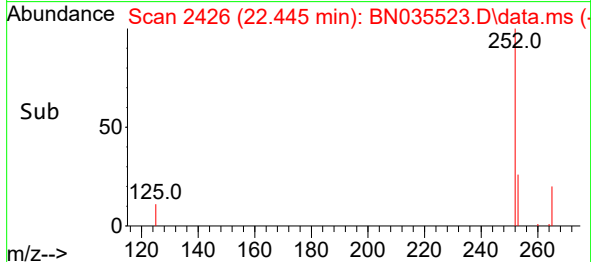
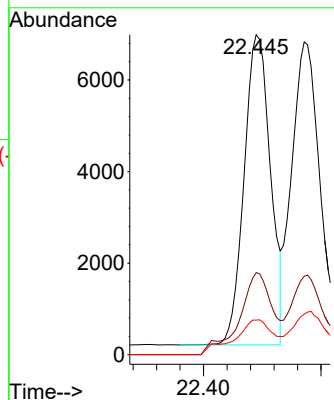


#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.445 min Scan# 2426
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

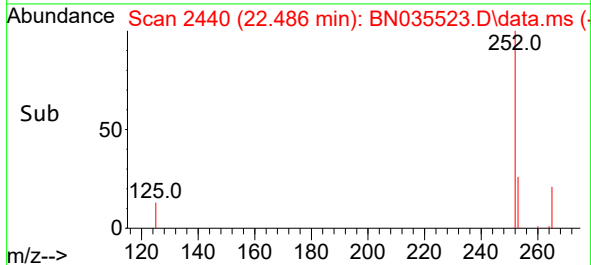
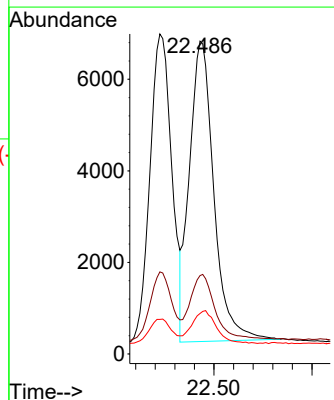
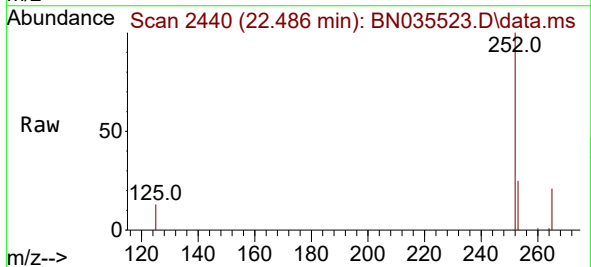


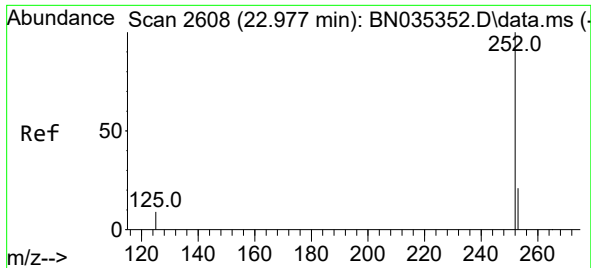
Tgt Ion:252 Resp: 13396
Ion Ratio Lower Upper
252 100
253 25.6 19.6 29.4
125 10.8 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.486 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

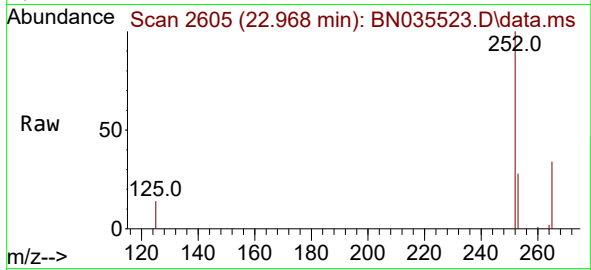
Tgt Ion:252 Resp: 11357
Ion Ratio Lower Upper
252 100
253 25.1 19.5 29.3
125 12.9 10.2 15.4



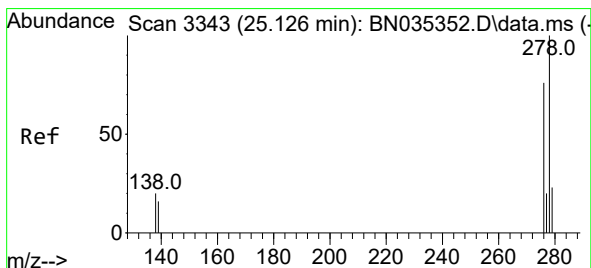
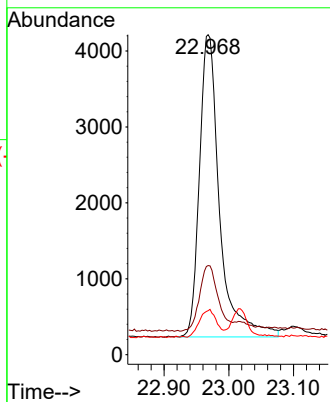
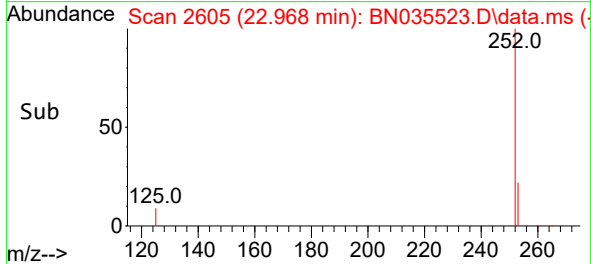


#39
Benzo(a)pyrene
Concen: 0.357 ng
RT: 22.968 min Scan# 2065
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

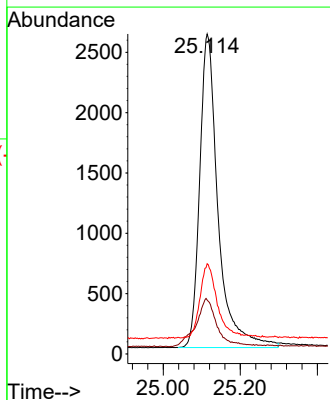
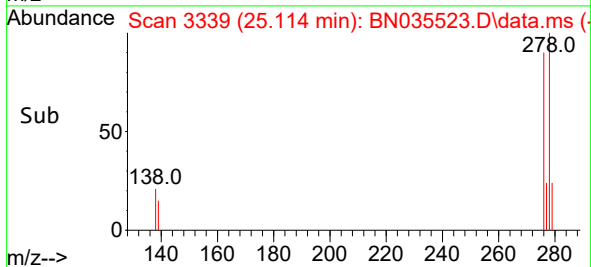
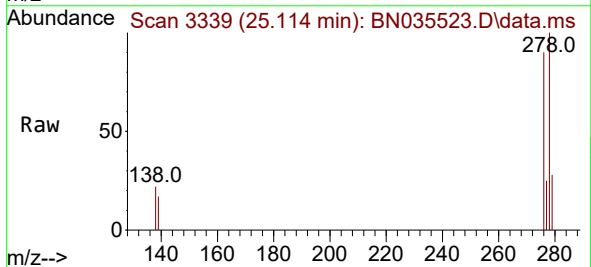


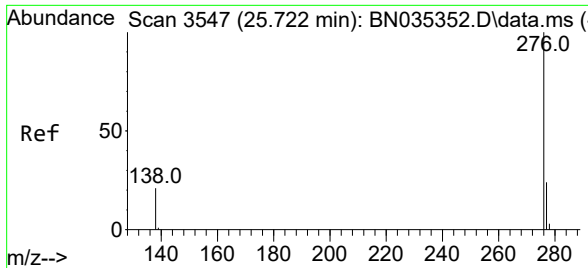
Tgt Ion:252 Resp: 8586
Ion Ratio Lower Upper
252 100
253 27.9 20.2 30.4
125 13.7 10.9 16.3



#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.114 min Scan# 3339
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

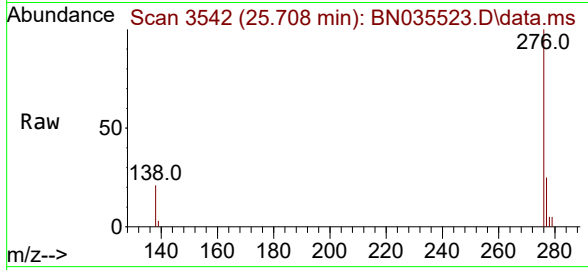
Tgt Ion:278 Resp: 8605
Ion Ratio Lower Upper
278 100
139 16.9 14.2 21.4
279 28.2 20.5 30.7



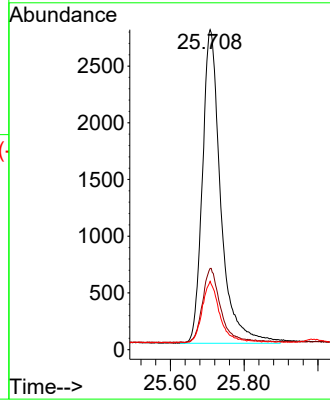
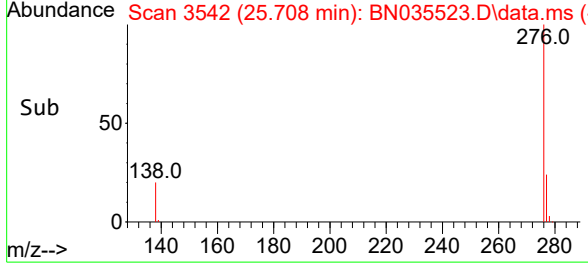


#41
 Benzo(g,h,i)perylene
 Concen: 0.372 ng
 RT: 25.708 min Scan# 31
 Delta R.T. -0.014 min
 Lab File: BN035523.D
 Acq: 10 Dec 2024 00:55

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	9565
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.9	29.9
138	21.3	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035525.D
 Acq On : 10 Dec 2024 09:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

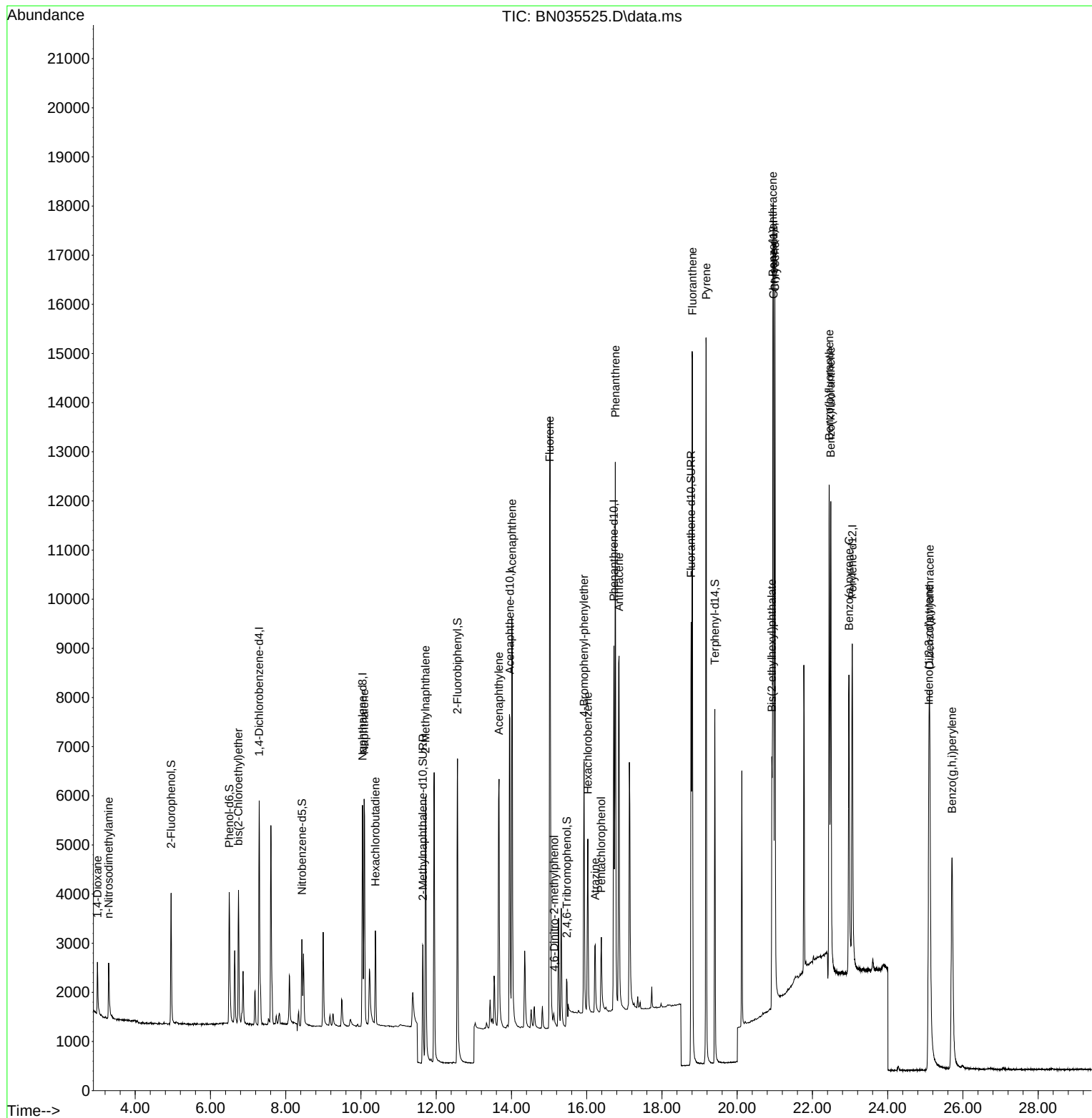
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	2237	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	6161	0.400	ng	#-0.01
13) Acenaphthene-d10	13.957	164	4478	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	11122	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	9383	0.400	ng	0.00
35) Perylene-d12	23.059	264	8820	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	2331	0.416	ng	-0.01
5) Phenol-d6	6.499	99	2854	0.424	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1794	0.477	ng	-0.01
11) 2-Methylnaphthalene-d10	11.641	152	3832	0.397	ng	-0.02
14) 2,4,6-Tribromophenol	15.475	330	1114	0.350	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	6697	0.396	ng	-0.01
27) Fluoranthene-d10	18.775	212	11062	0.351	ng	0.00
31) Terphenyl-d14	19.407	244	7824	0.423	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	855	0.400	ng	98
3) n-Nitrosodimethylamine	3.292	42	766	0.430	ng	# 97
6) bis(2-Chloroethyl)ether	6.744	93	2173	0.384	ng	99
9) Naphthalene	10.084	128	6356	0.391	ng	99
10) Hexachlorobutadiene	10.383	225	1563	0.417	ng	# 99
12) 2-Methylnaphthalene	11.717	142	4569	0.393	ng	98
16) Acenaphthylene	13.668	152	6981	0.371	ng	99
17) Acenaphthene	14.010	154	4775	0.382	ng	100
18) Fluorene	15.015	166	6863	0.384	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	302	0.276	ng	# 80
21) 4-Bromophenyl-phenylether	15.929	248	2441	0.375	ng	# 88
22) Hexachlorobenzene	16.028	284	2985	0.391	ng	98
23) Atrazine	16.227	200	1581	0.341	ng	96
24) Pentachlorophenol	16.388	266	1026	0.309	ng	86
25) Phenanthrene	16.760	178	11604	0.380	ng	100
26) Anthracene	16.860	178	9999	0.362	ng	100
28) Fluoranthene	18.808	202	14397	0.350	ng	99
30) Pyrene	19.175	202	14606	0.422	ng	100
32) Benzo(a)anthracene	20.947	228	11650	0.355	ng	99
33) Chrysene	21.000	228	13503	0.399	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4730	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.093	276	11862	0.344	ng	98
37) Benzo(b)fluoranthene	22.445	252	14172	0.439	ng	99
38) Benzo(k)fluoranthene	22.485	252	12715	0.400	ng	99
39) Benzo(a)pyrene	22.971	252	9673	0.364	ng	98
40) Dibenzo(a,h)anthracene	25.117	278	8943	0.329	ng	97
41) Benzo(g,h,i)perylene	25.710	276	10586	0.372	ng	98

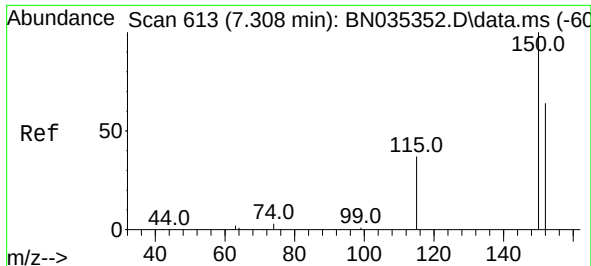
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

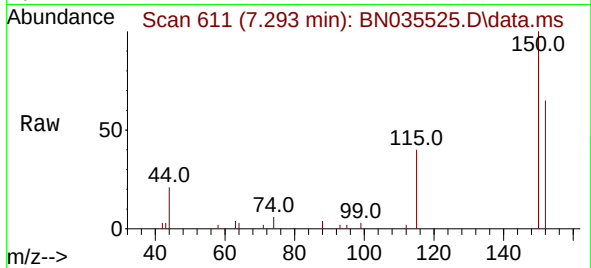
Quant Time: Dec 10 12:27:43 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



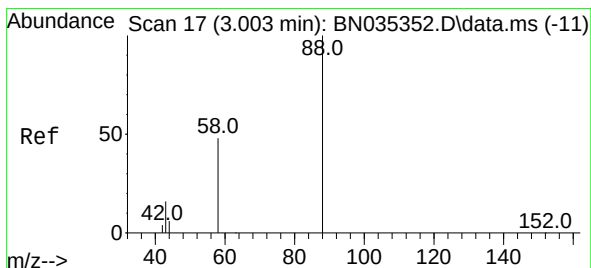
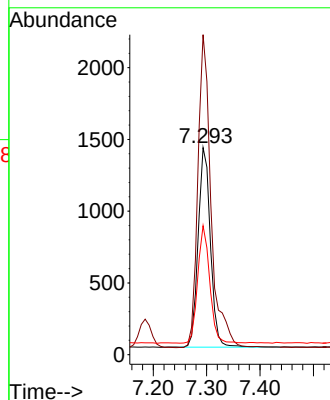
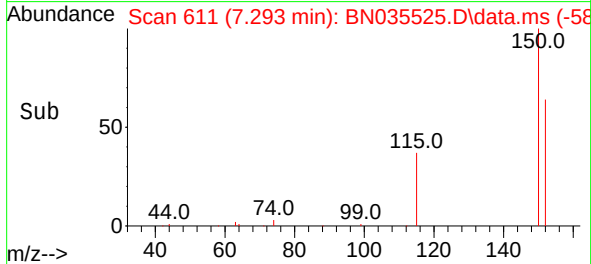


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

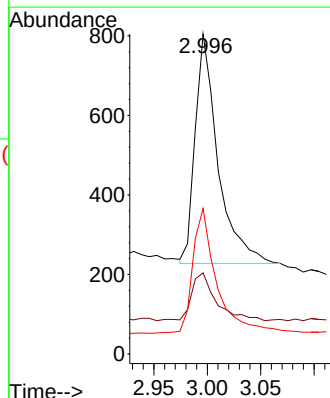
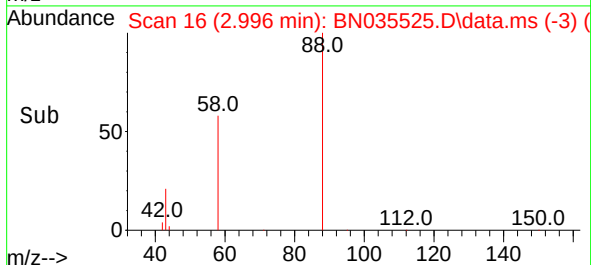
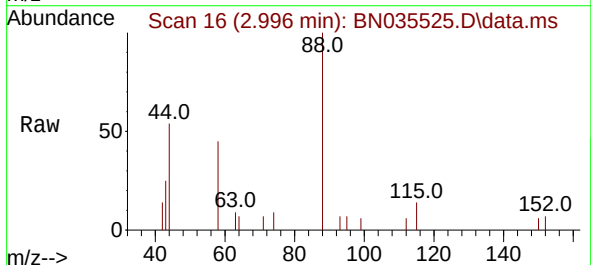


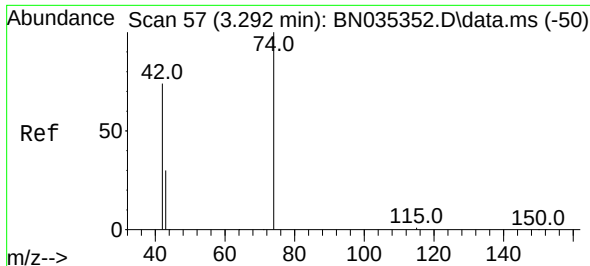
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 154.5 124.0 186.0
115 62.3 49.6 74.4



#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 88 Resp: 855
Ion Ratio Lower Upper
88 100
43 20.9 17.2 25.8
58 57.2 44.5 66.7

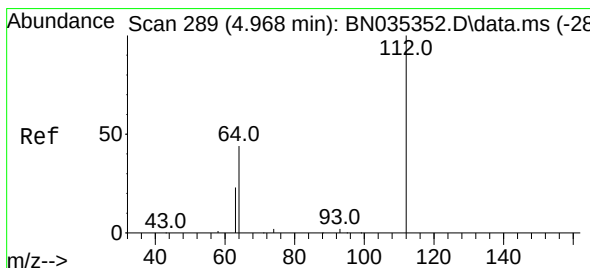
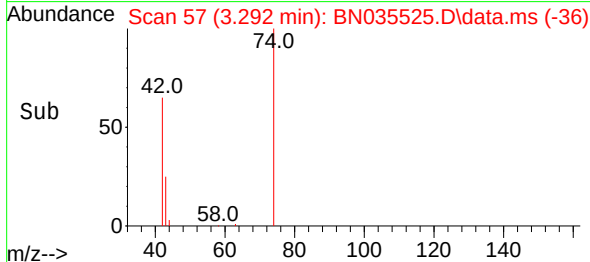
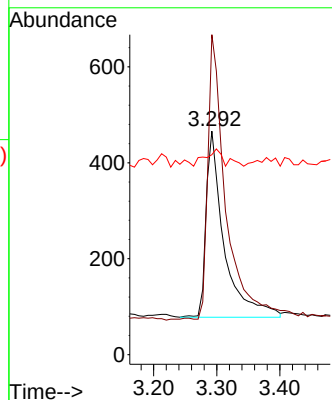
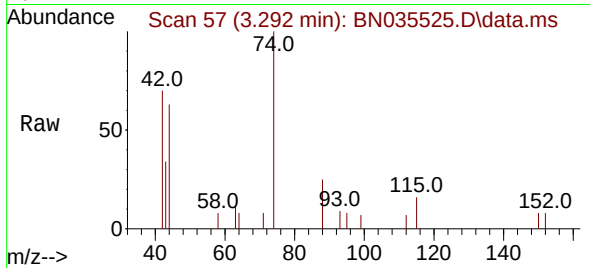




#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

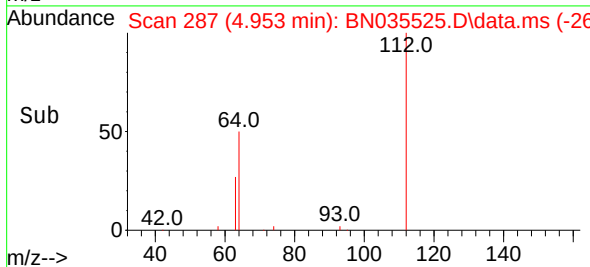
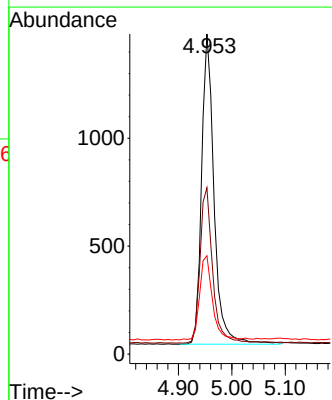
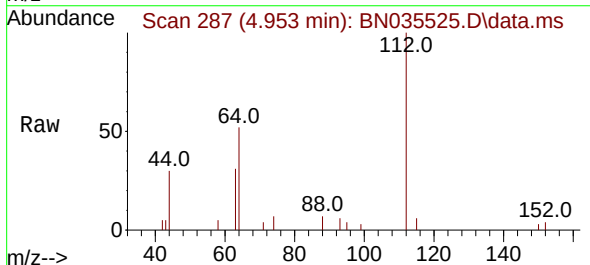
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

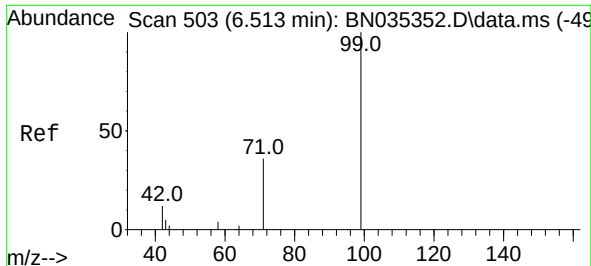
Tgt Ion: 42 Resp: 766
Ion Ratio Lower Upper
42 100
74 152.3 124.9 187.3
44 8.4 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.416 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 112 Resp: 2331
Ion Ratio Lower Upper
112 100
64 50.8 39.8 59.8
63 28.1 21.0 31.6

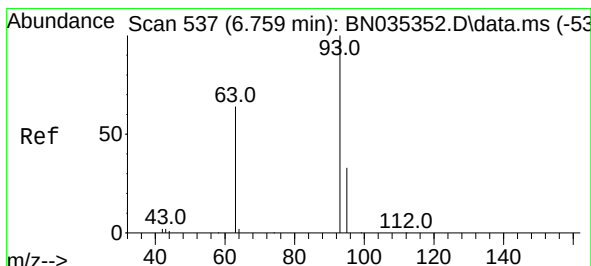
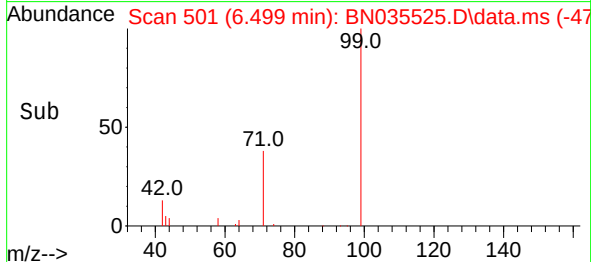
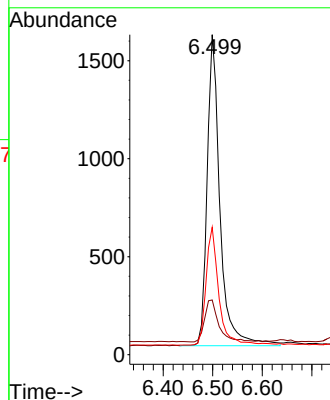
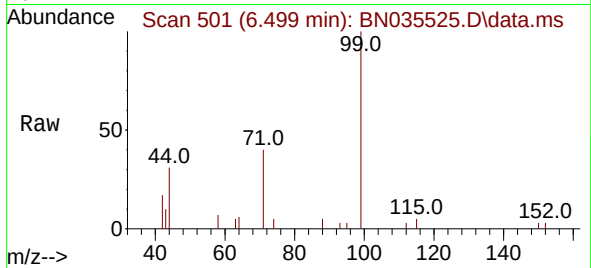




#5
Phenol-d6
Concen: 0.424 ng
RT: 6.499 min Scan# 503
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

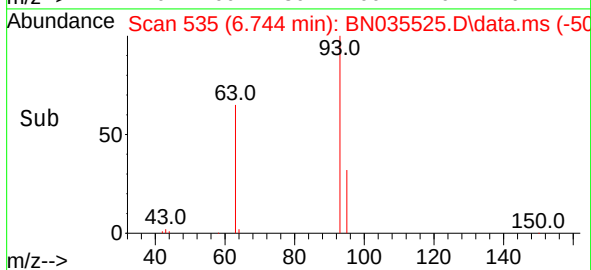
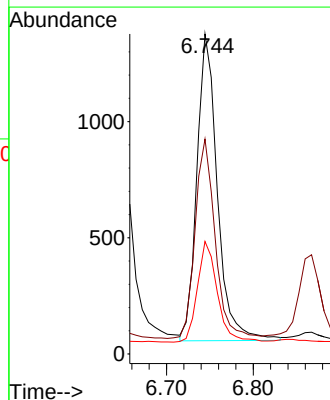
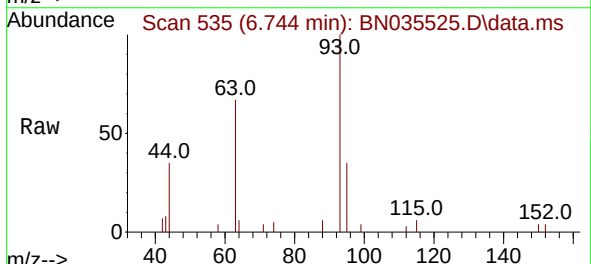
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

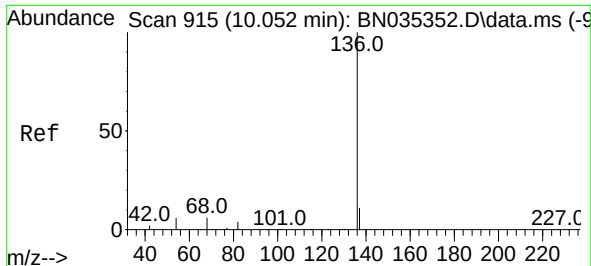
Tgt Ion: 99 Resp: 2854
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.2
71 37.2 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 93 Resp: 2173
Ion Ratio Lower Upper
93 100
63 63.6 50.4 75.6
95 32.0 25.7 38.5

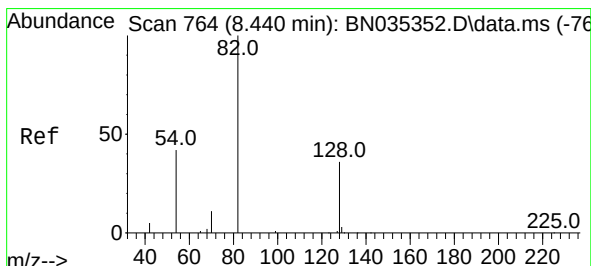
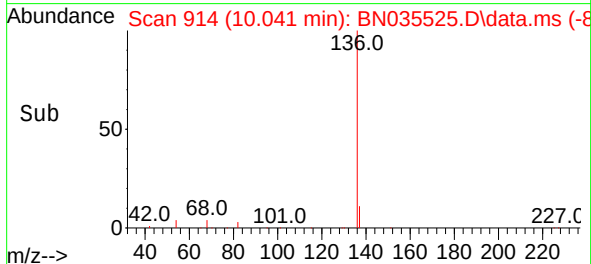
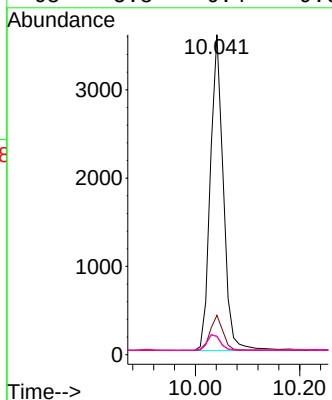
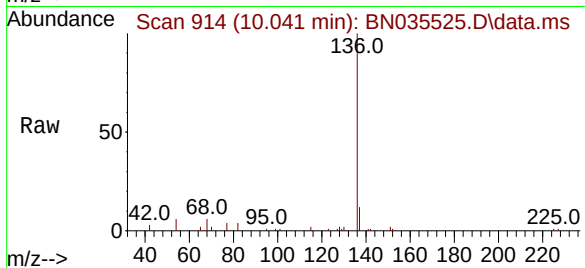




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

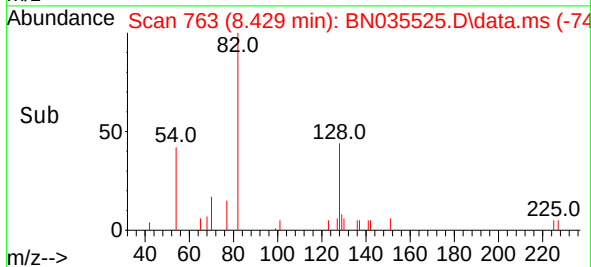
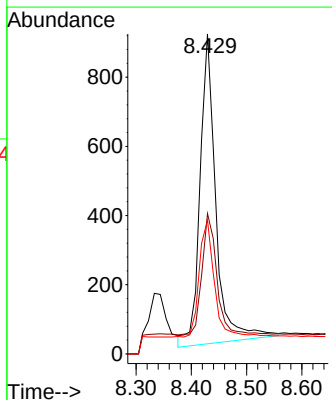
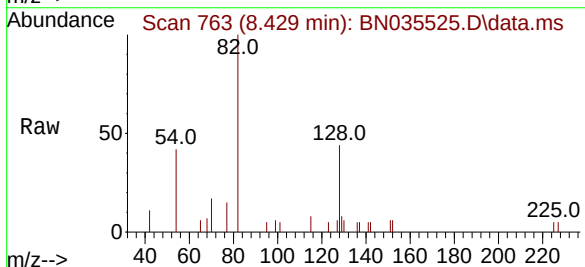
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

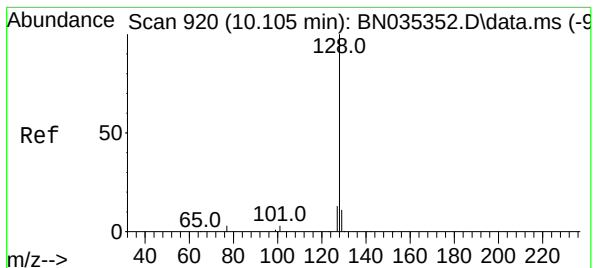
Tgt Ion:	136	Resp:	6161
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	5.7	6.1	9.1#
68	5.8	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.477 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:	82	Resp:	1794
Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	41.8	36.7	55.1





#9

Naphthalene

Concen: 0.391 ng

RT: 10.084 min Scan# 918

Delta R.T. -0.021 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

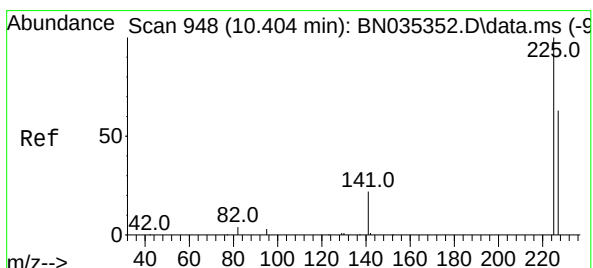
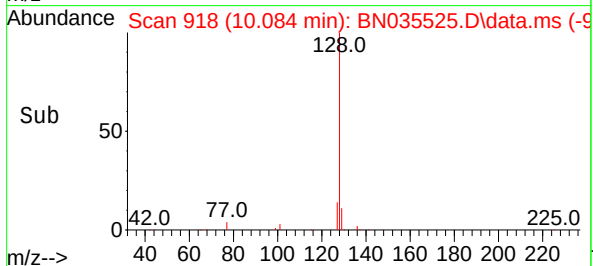
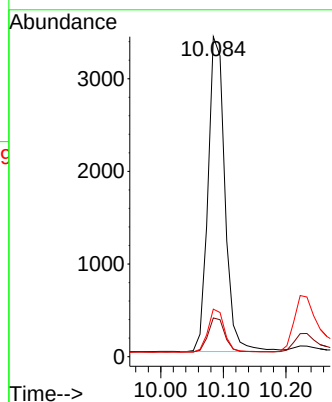
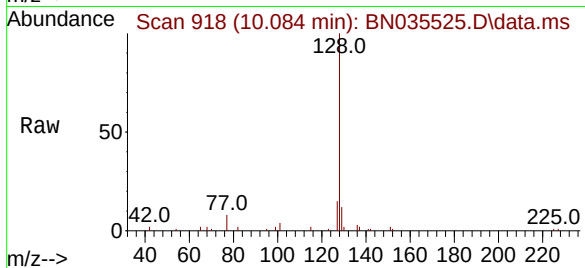
Tgt Ion:128 Resp: 6356

Ion Ratio Lower Upper

128 100

129 12.1 9.8 14.6

127 14.8 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.417 ng

RT: 10.383 min Scan# 946

Delta R.T. -0.021 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

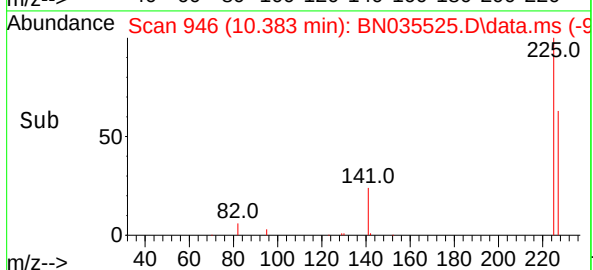
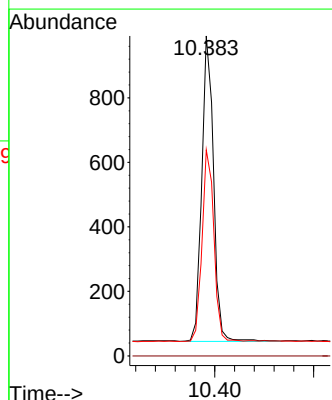
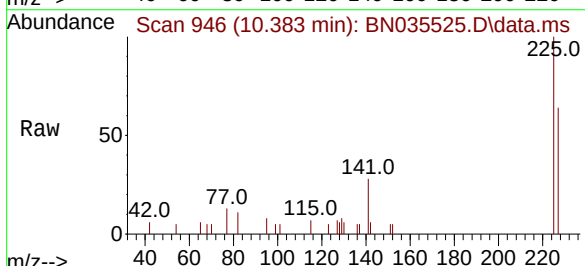
Tgt Ion:225 Resp: 1563

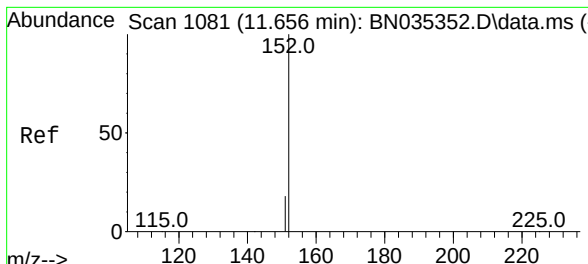
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.0 51.3 76.9

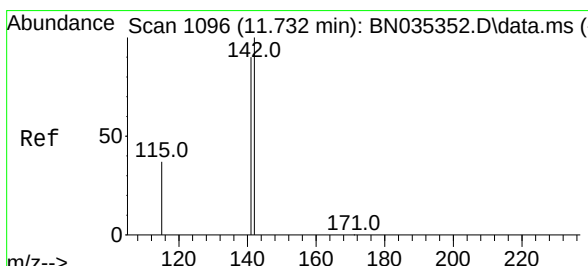
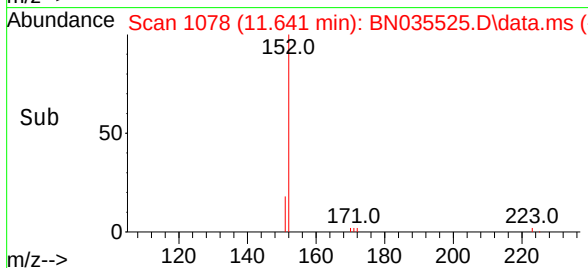
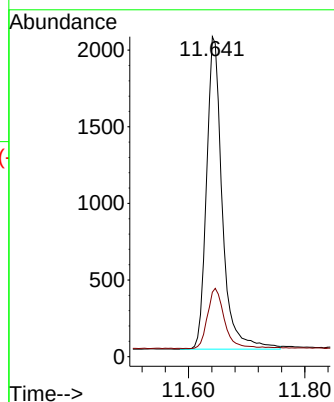
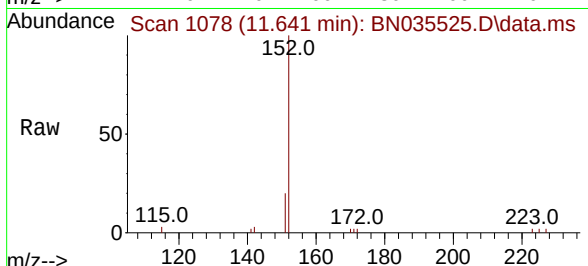




#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.641 min Scan# 1078
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

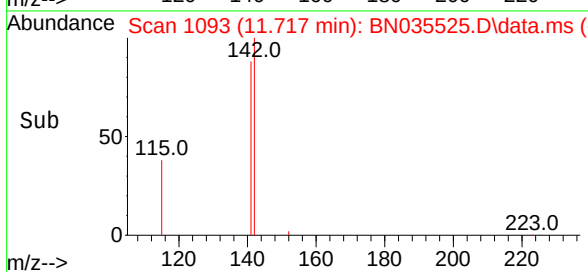
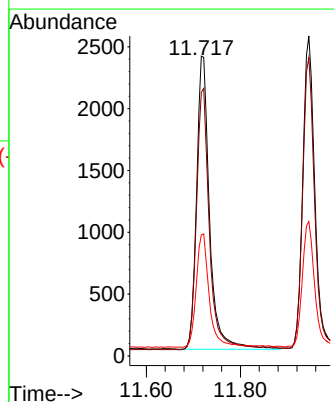
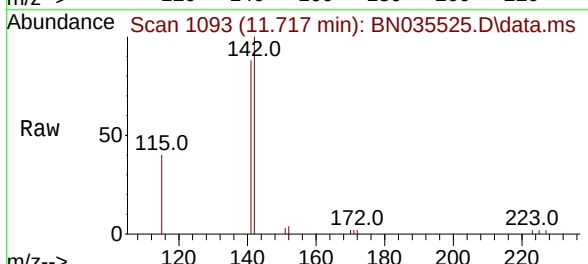
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

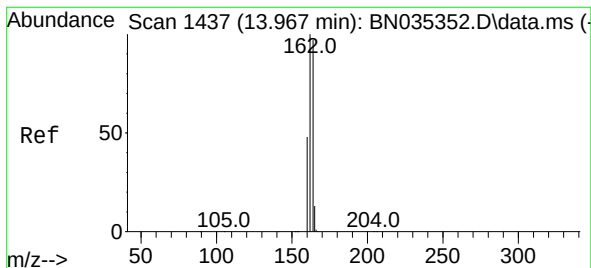
Tgt Ion:152 Resp: 3832
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:142 Resp: 4569
Ion Ratio Lower Upper
142 100
141 87.9 72.2 108.4
115 40.4 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 1437

Delta R.T. -0.011 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

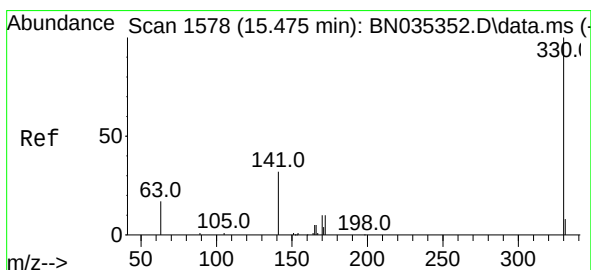
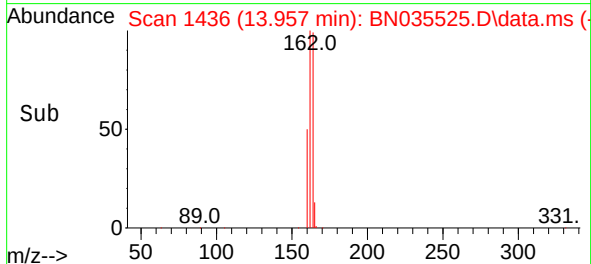
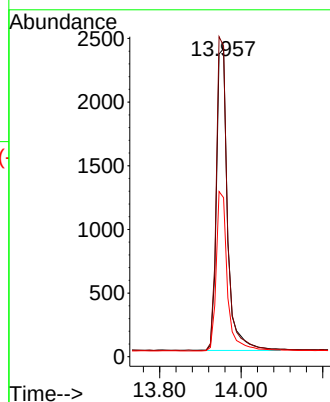
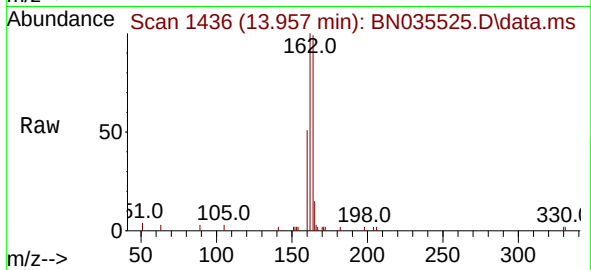
Tgt Ion:164 Resp: 4478

Ion Ratio Lower Upper

164 100

162 100.9 82.2 123.2

160 51.7 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.350 ng

RT: 15.475 min Scan# 1578

Delta R.T. -0.000 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

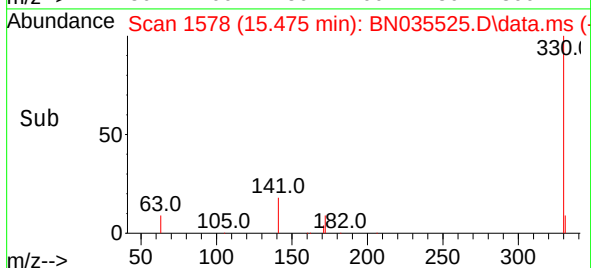
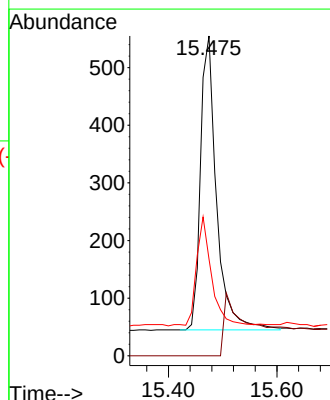
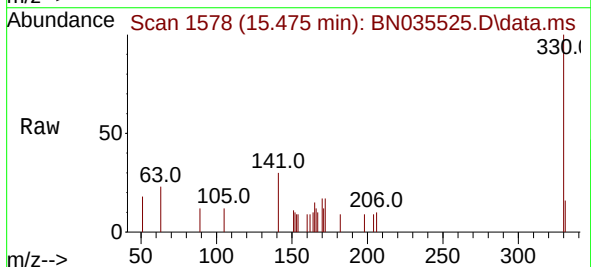
Tgt Ion:330 Resp: 1114

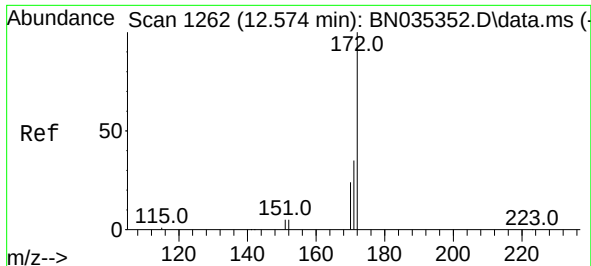
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.7 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.396 ng

RT: 12.564 min Scan# 1409

Delta R.T. -0.010 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

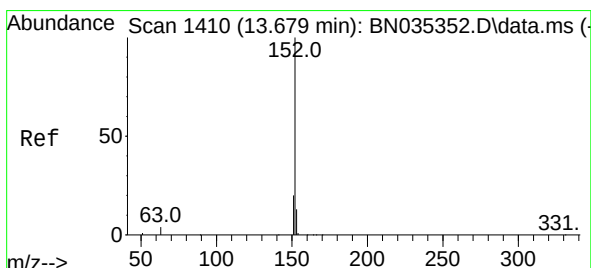
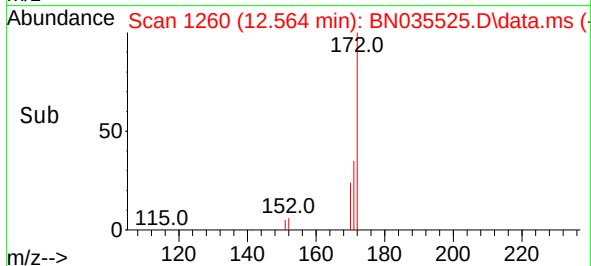
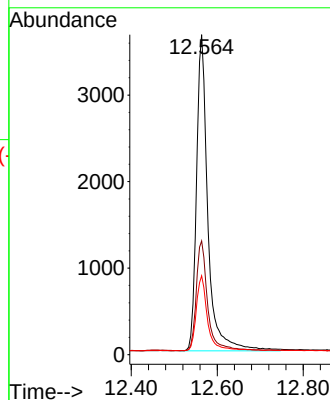
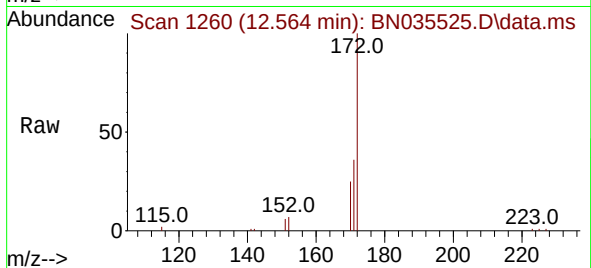
Tgt Ion:172 Resp: 6697

Ion Ratio Lower Upper

172 100

171 35.6 29.0 43.4

170 24.6 19.8 29.8



#16

Acenaphthylene

Concen: 0.371 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

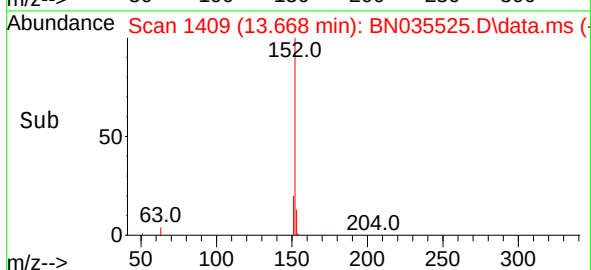
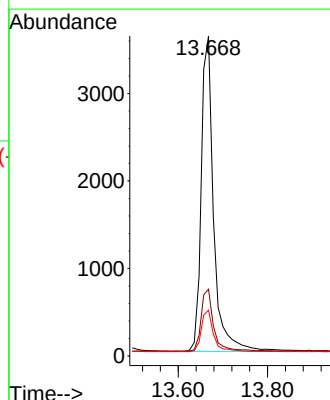
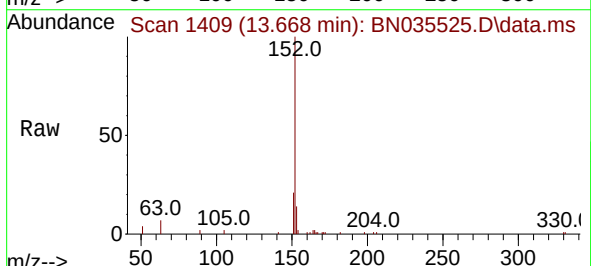
Tgt Ion:152 Resp: 6981

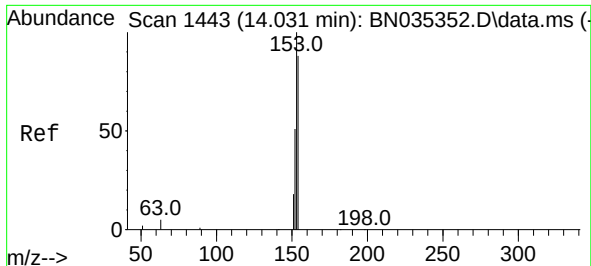
Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.2

153 12.8 10.4 15.6

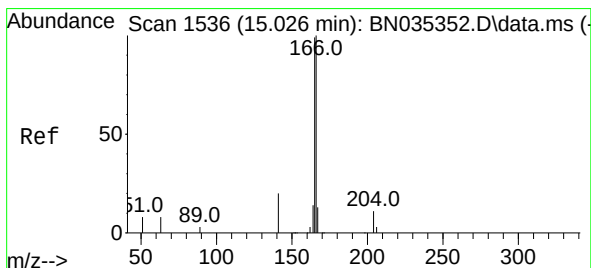
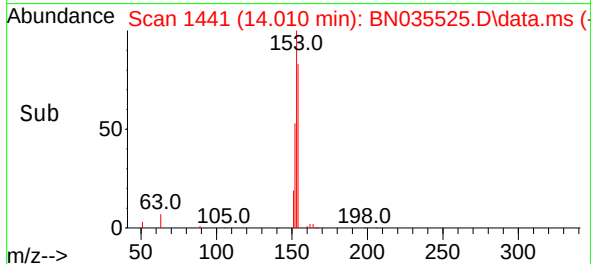
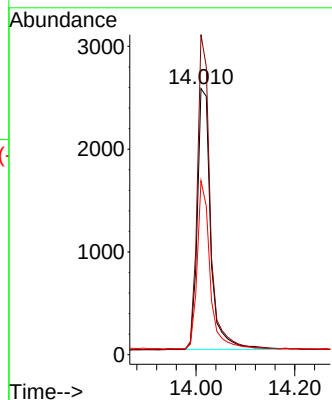
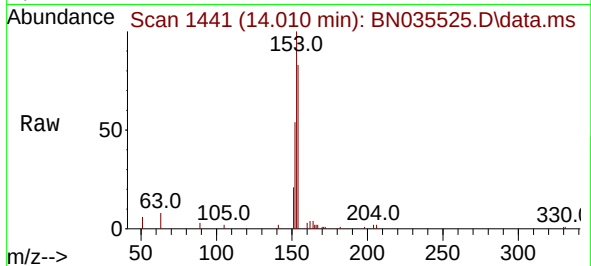




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.010 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

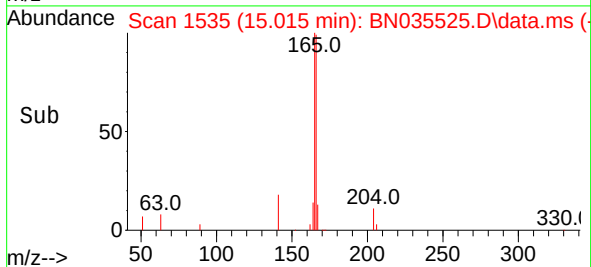
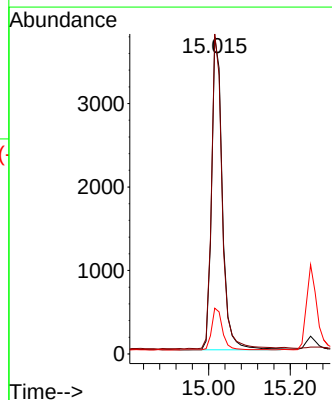
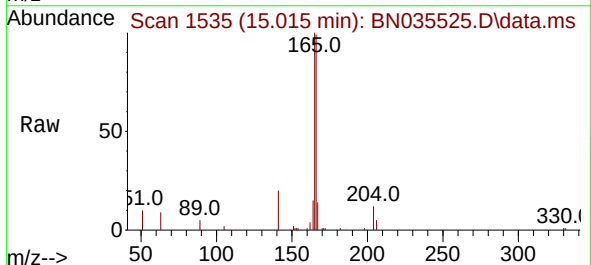
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

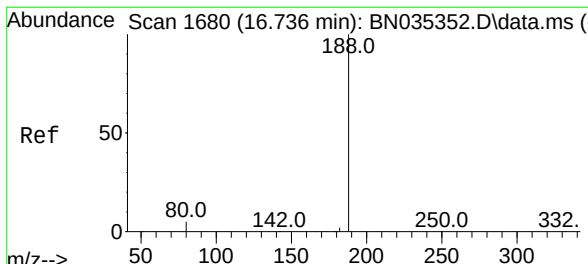
Tgt Ion:154 Resp: 4775
Ion Ratio Lower Upper
154 100
153 115.9 92.6 139.0
152 61.6 49.0 73.6



#18
Fluorene
Concen: 0.384 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:166 Resp: 6863
Ion Ratio Lower Upper
166 100
165 98.9 79.7 119.5
167 13.5 10.8 16.2

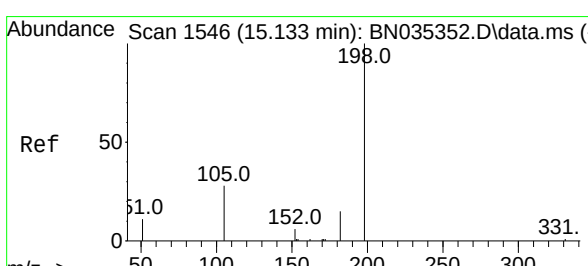
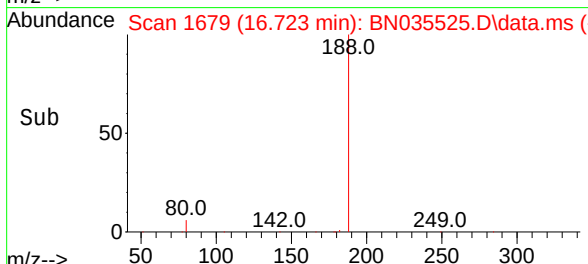
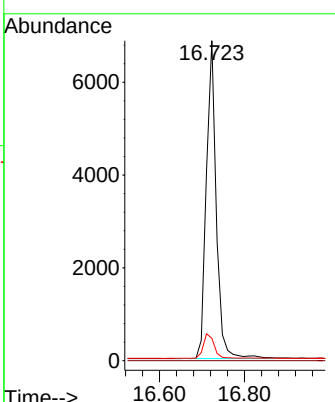
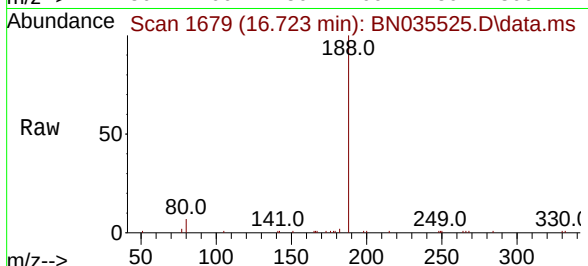




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN035525.D
 Acq: 10 Dec 2024 09:33

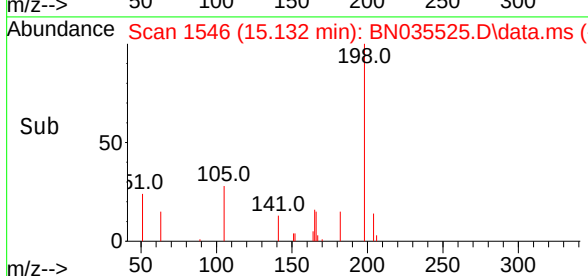
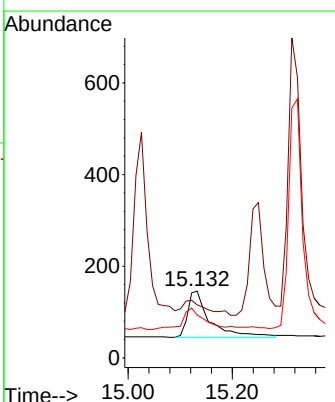
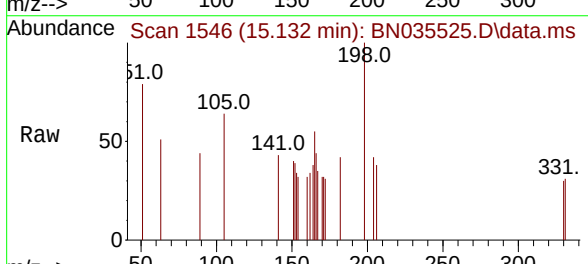
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

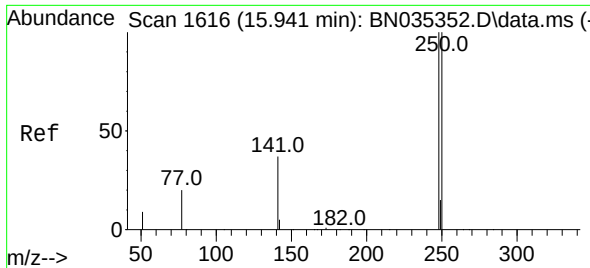
Tgt Ion:	188	Resp:	11122
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8#



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.276 ng
 RT: 15.132 min Scan# 1546
 Delta R.T. -0.001 min
 Lab File: BN035525.D
 Acq: 10 Dec 2024 09:33

Tgt Ion:	198	Resp:	302
Ion Ratio	Lower	Upper	
198	100		
51	79.5	46.5	69.7#
105	64.4	45.3	67.9

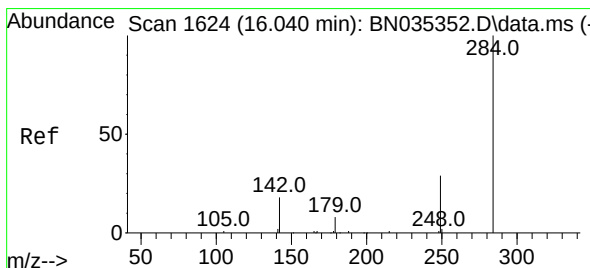
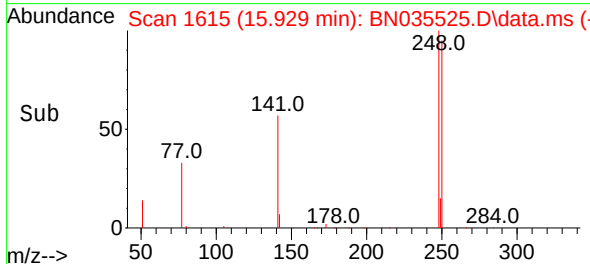
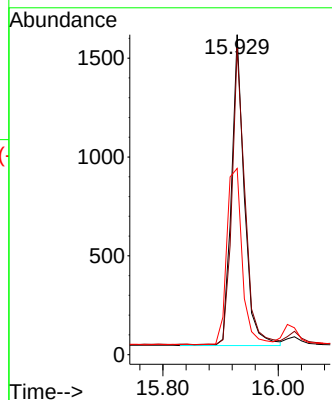
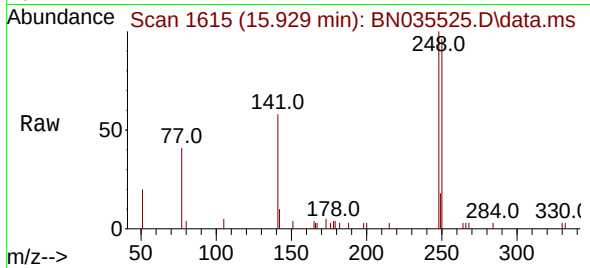




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

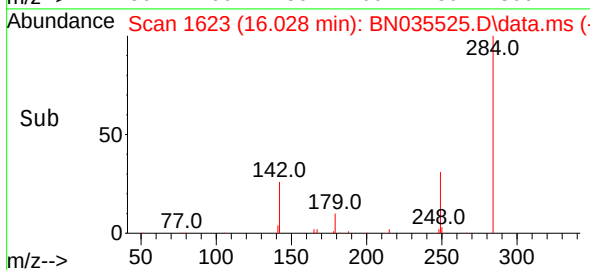
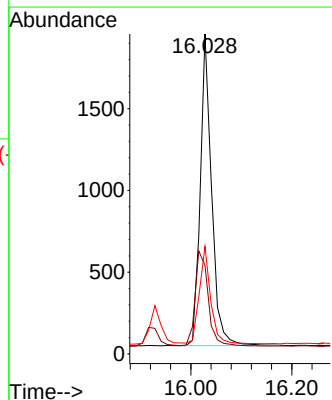
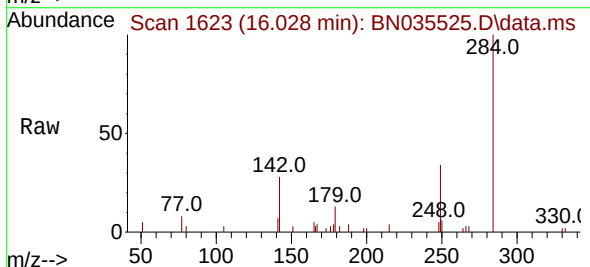
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

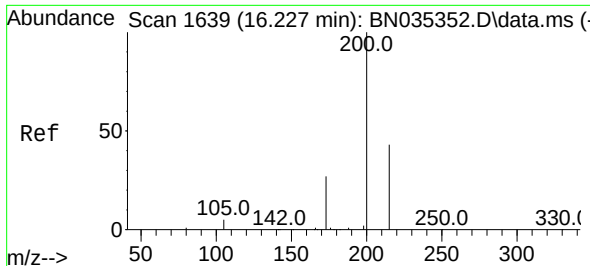
Tgt Ion:248 Resp: 2441
Ion Ratio Lower Upper
248 100
250 95.9 80.6 120.8
141 58.2 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:284 Resp: 2985
Ion Ratio Lower Upper
284 100
142 35.0 26.7 40.1
249 31.2 24.6 36.8

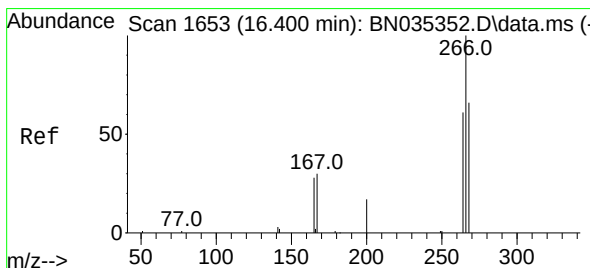
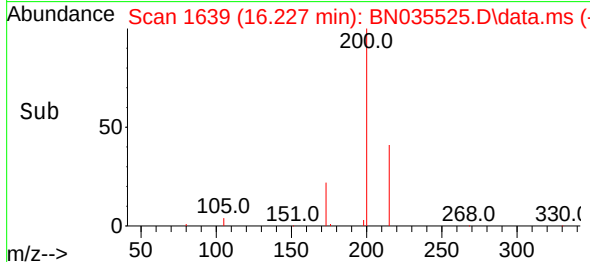
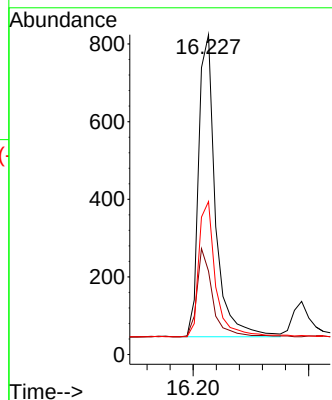
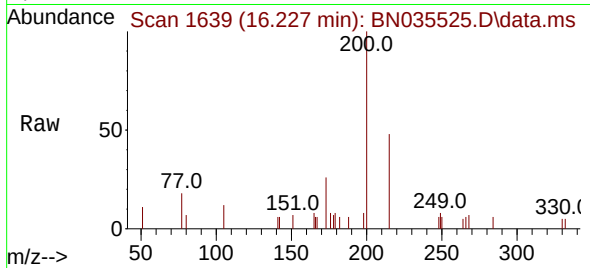




#23
Atrazine
Concen: 0.341 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

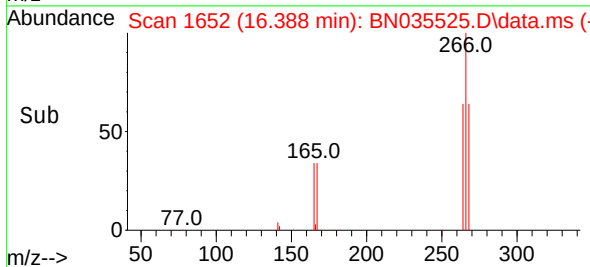
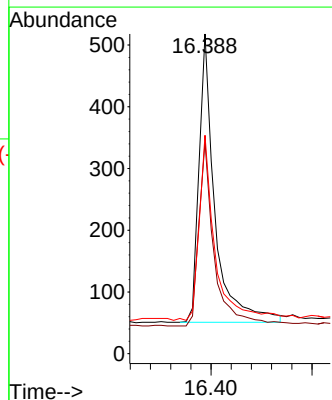
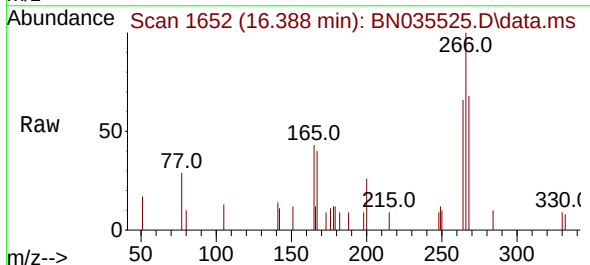
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

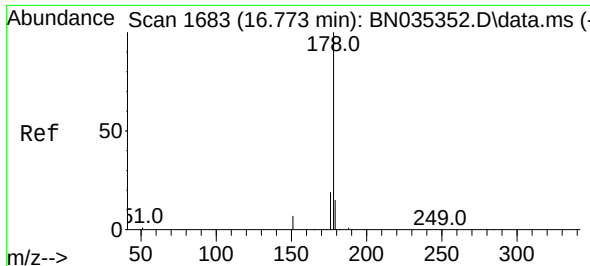
Tgt Ion:200 Resp: 1581
Ion Ratio Lower Upper
200 100
173 26.1 24.1 36.1
215 47.8 36.9 55.3



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:266 Resp: 1026
Ion Ratio Lower Upper
266 100
264 62.3 42.3 63.5
268 64.4 43.3 64.9

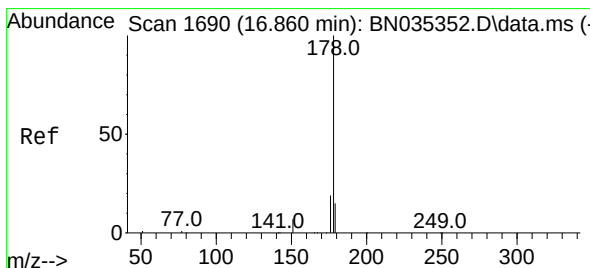
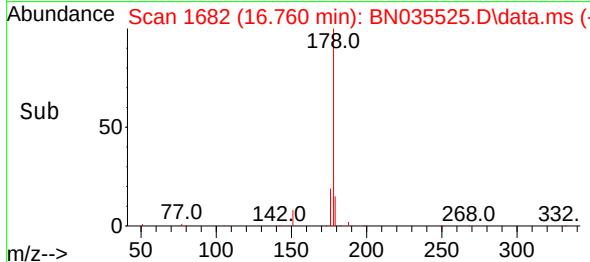
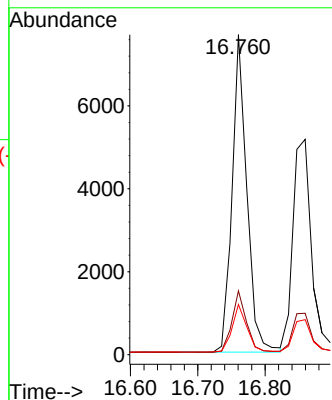
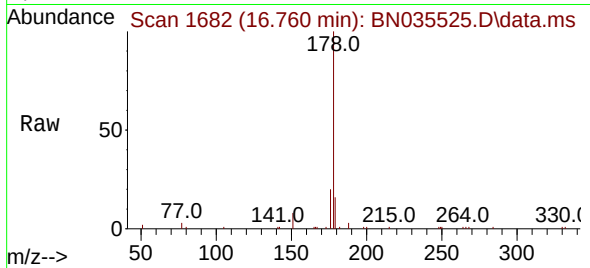




#25
Phenanthrene
Concen: 0.380 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

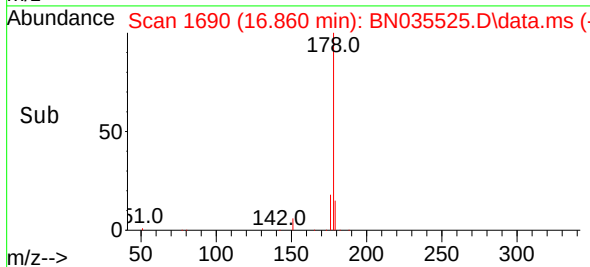
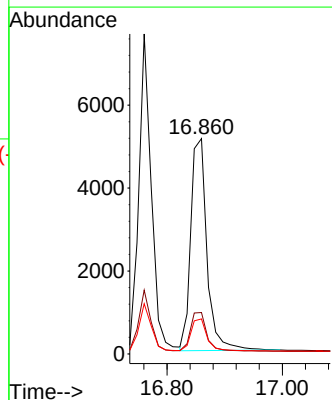
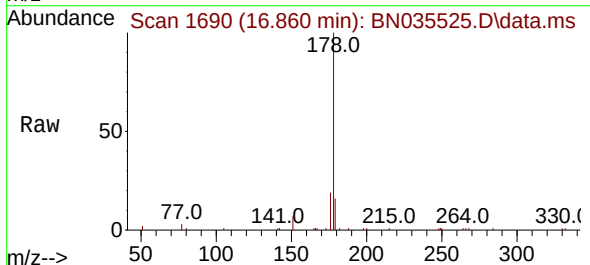
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

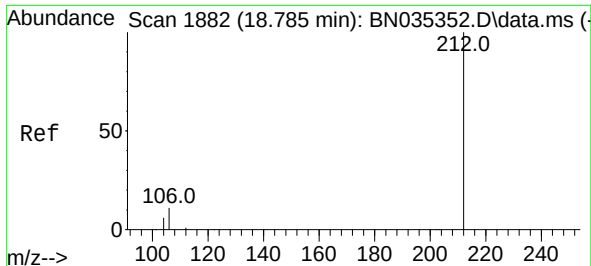
Tgt Ion:178 Resp: 11604
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.3 12.3 18.5



#26
Anthracene
Concen: 0.362 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:178 Resp: 9999
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8

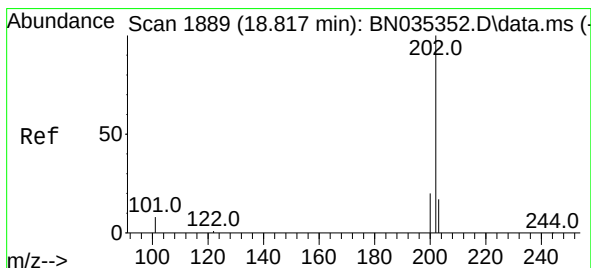
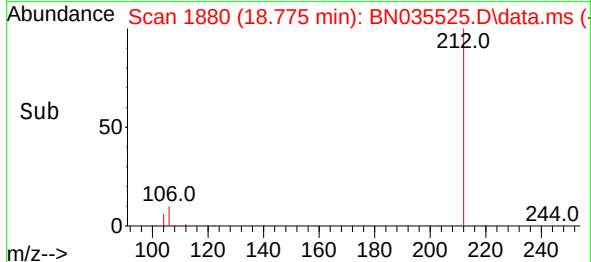
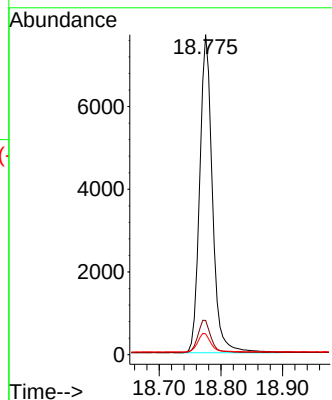
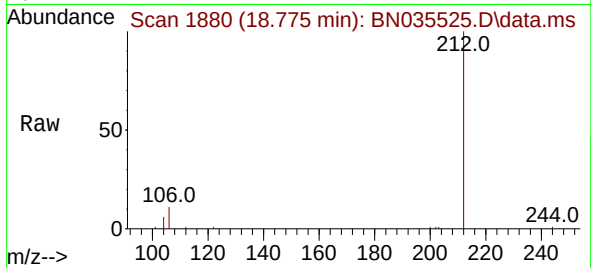




#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

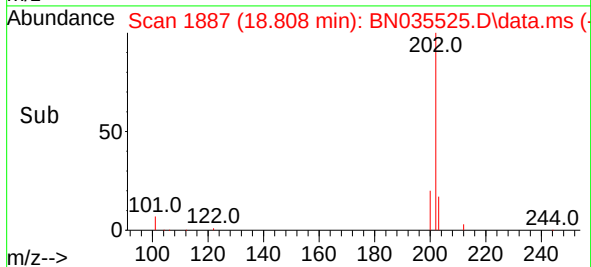
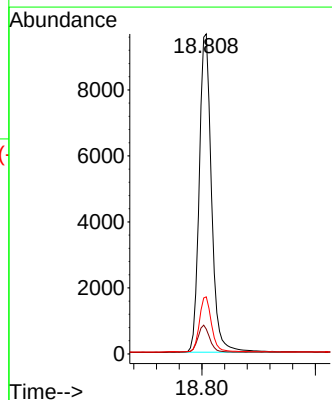
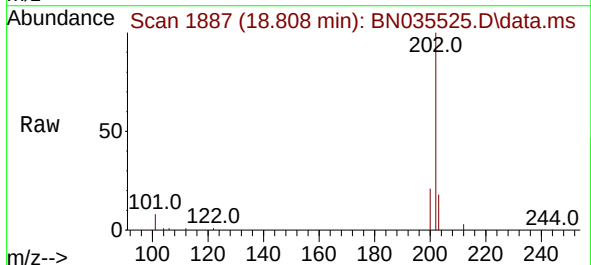
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

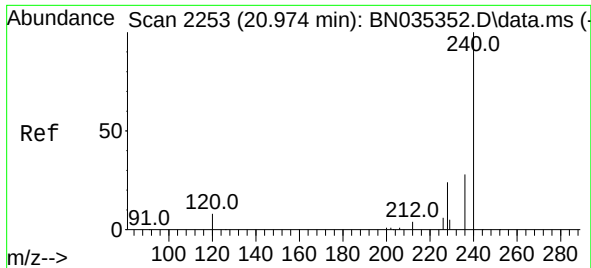
Tgt Ion:212 Resp: 11062
Ion Ratio Lower Upper
212 100
106 10.3 9.2 13.8
104 5.9 5.3 7.9



#28
Fluoranthene
Concen: 0.350 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14397
Ion Ratio Lower Upper
202 100
101 8.4 7.4 11.0
203 16.9 13.7 20.5

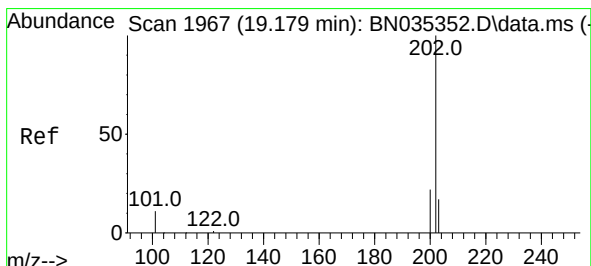
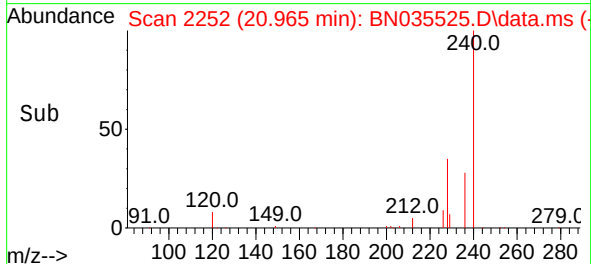
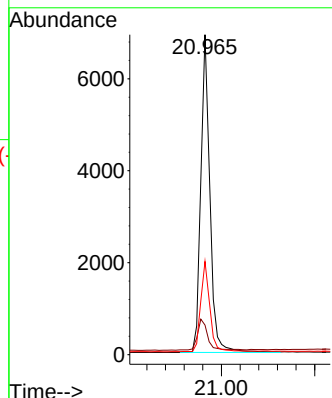
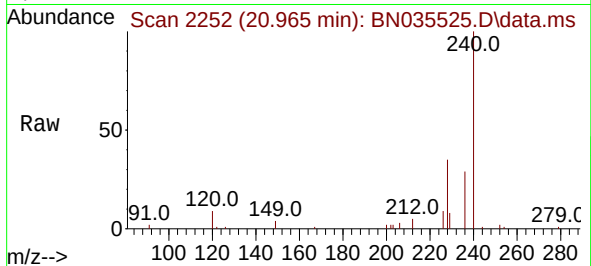




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

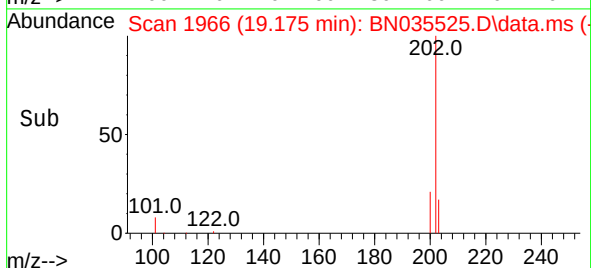
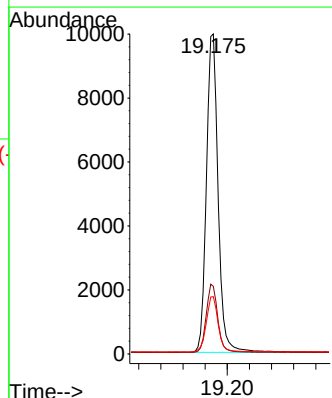
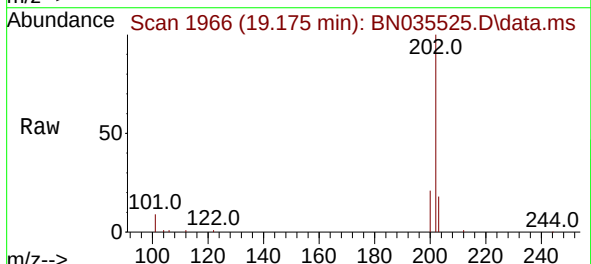
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

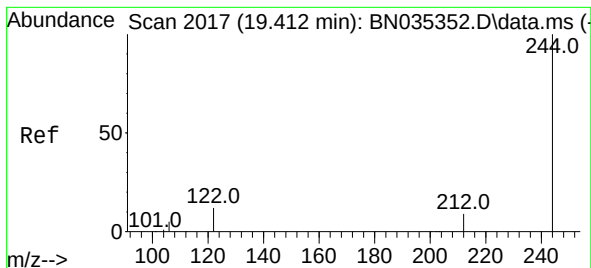
Tgt Ion:240 Resp: 9383
Ion Ratio Lower Upper
240 100
120 9.2 7.9 11.9
236 29.1 22.9 34.3



#30
Pyrene
Concen: 0.422 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14606
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.423 ng

RT: 19.407 min Scan# 2017

Delta R.T. -0.005 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

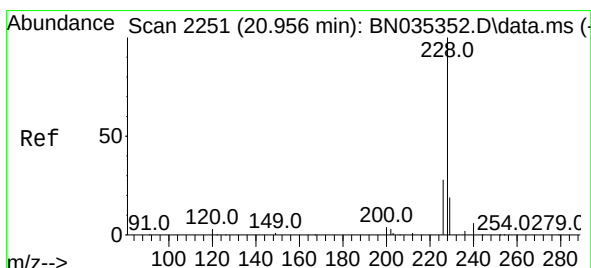
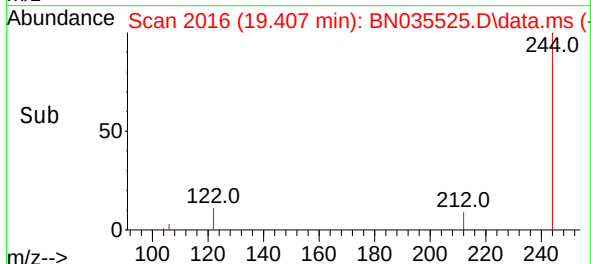
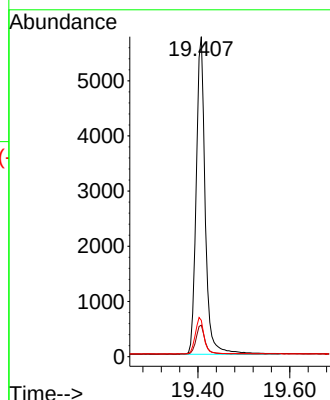
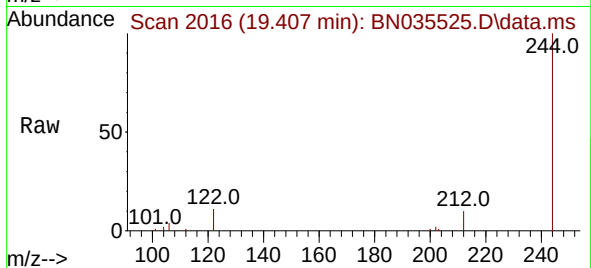
Tgt Ion:244 Resp: 7824

Ion Ratio Lower Upper

244 100

212 9.9 8.1 12.1

122 11.3 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.355 ng

RT: 20.947 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

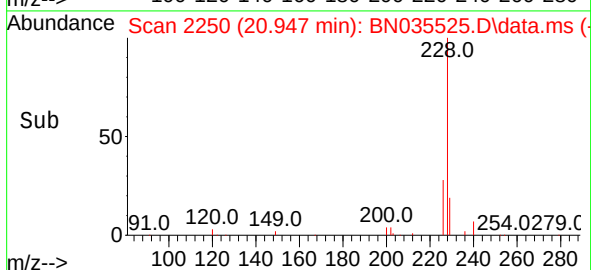
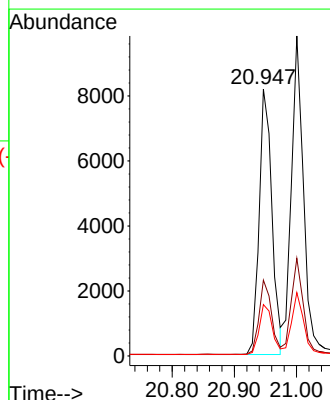
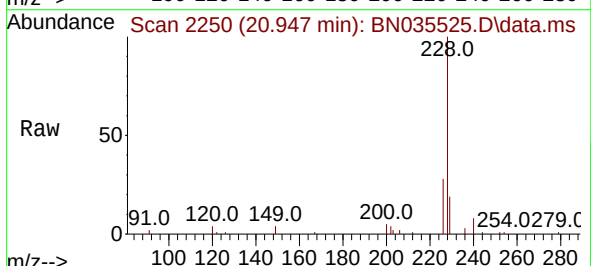
Tgt Ion:228 Resp: 11650

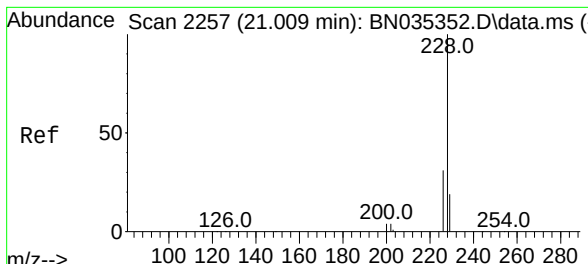
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 19.2 15.8 23.8





#33

Chrysene

Concen: 0.399 ng

RT: 21.000 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

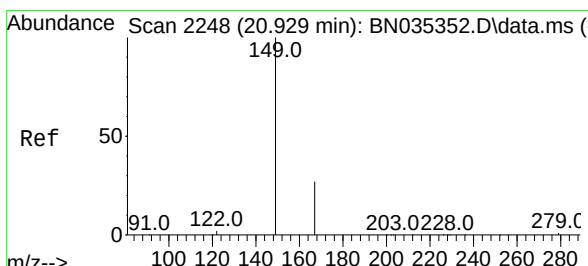
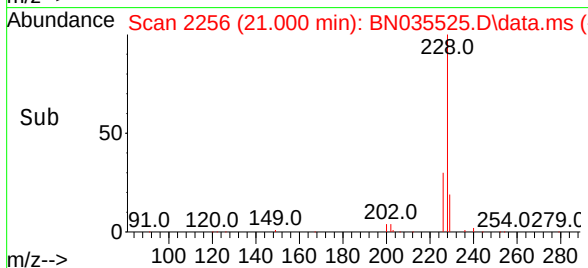
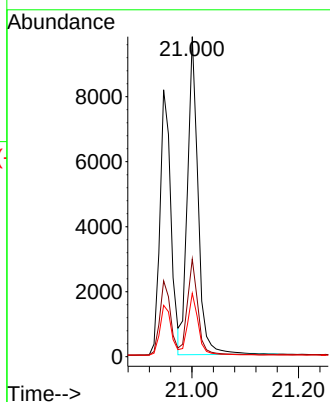
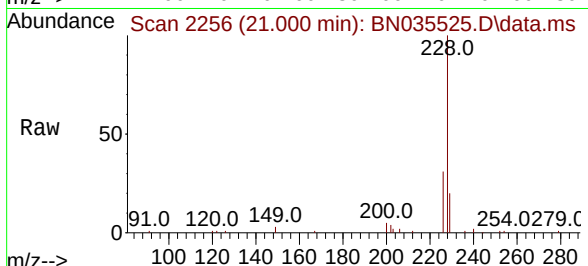
Tgt Ion:228 Resp: 13503

Ion Ratio Lower Upper

228 100

226 30.5 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

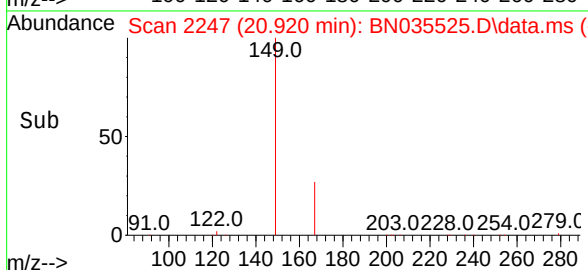
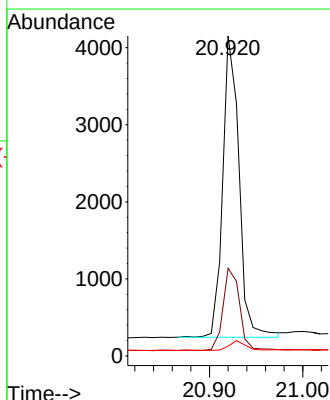
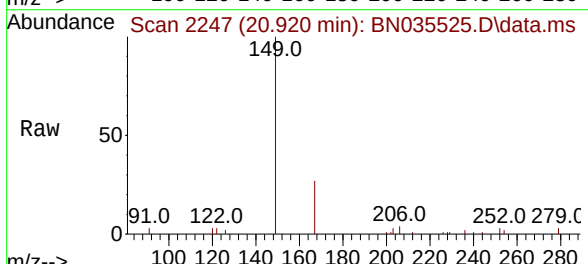
Tgt Ion:149 Resp: 4730

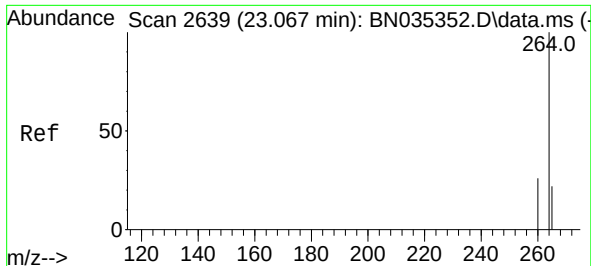
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.3 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.059 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

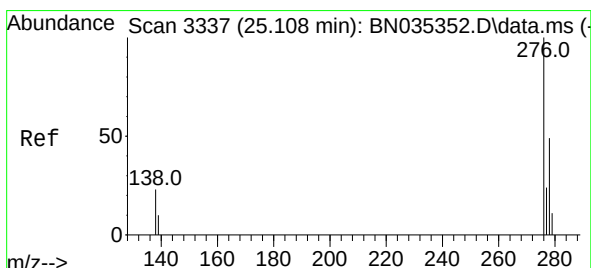
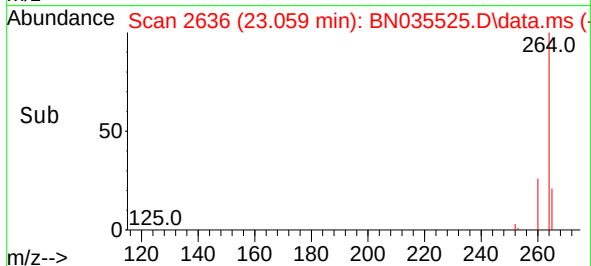
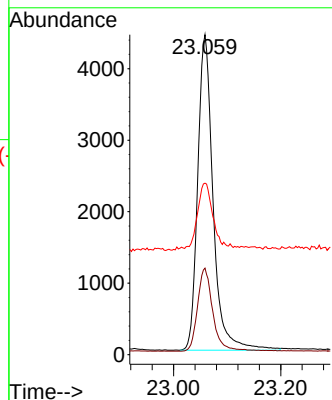
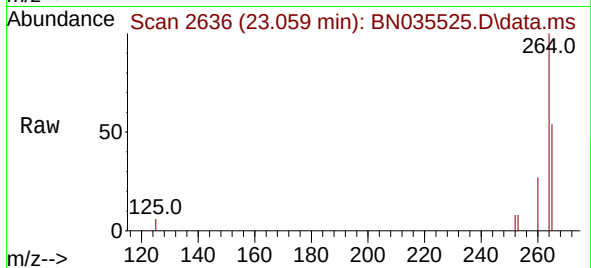
Tgt Ion:264 Resp: 8820

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 53.6 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.344 ng

RT: 25.093 min Scan# 3332

Delta R.T. -0.015 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

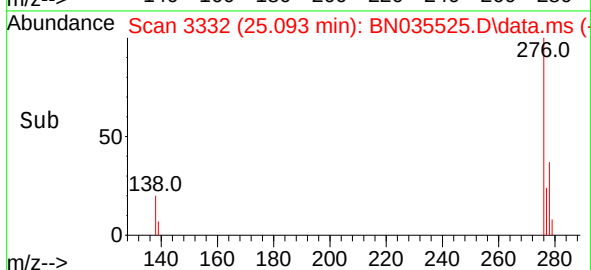
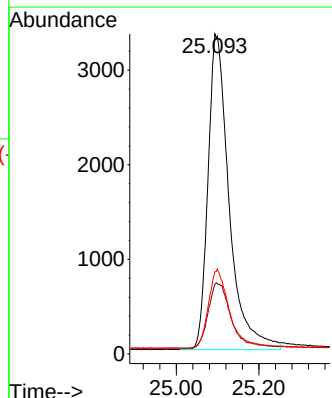
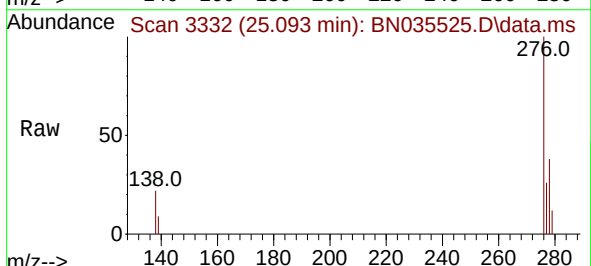
Tgt Ion:276 Resp: 11862

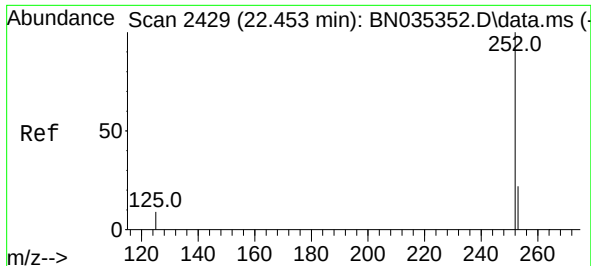
Ion Ratio Lower Upper

276 100

138 22.0 19.4 29.0

277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.439 ng

RT: 22.445 min Scan# 2426

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

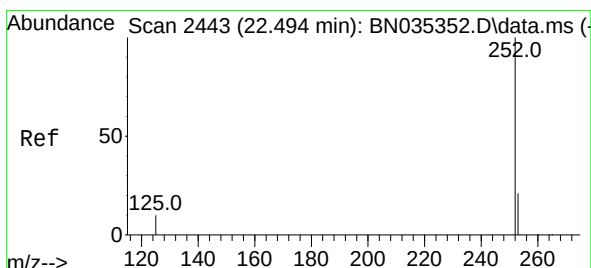
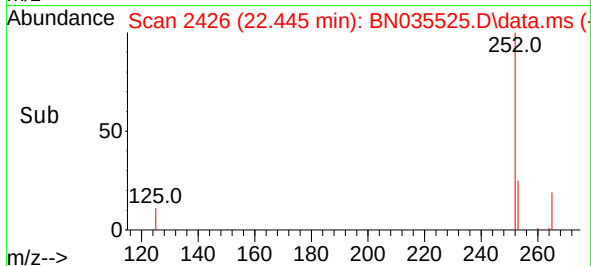
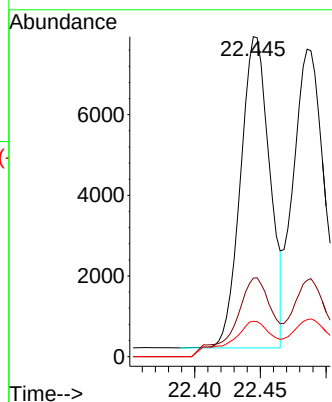
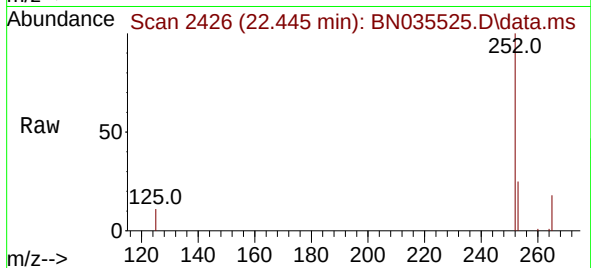
Tgt Ion:252 Resp: 14172

Ion Ratio Lower Upper

252 100

253 24.6 19.6 29.4

125 11.1 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.400 ng

RT: 22.485 min Scan# 2440

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

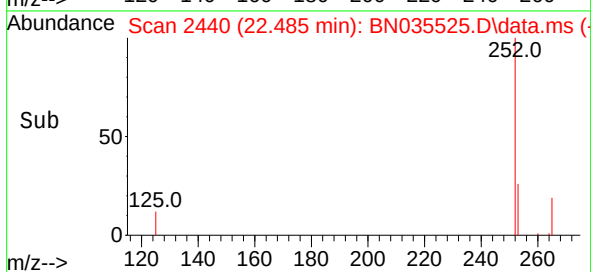
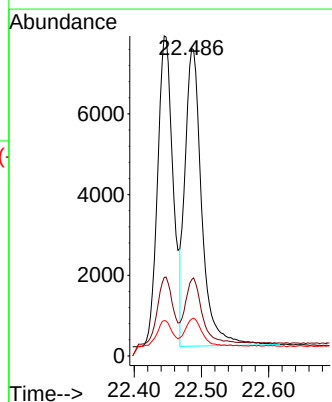
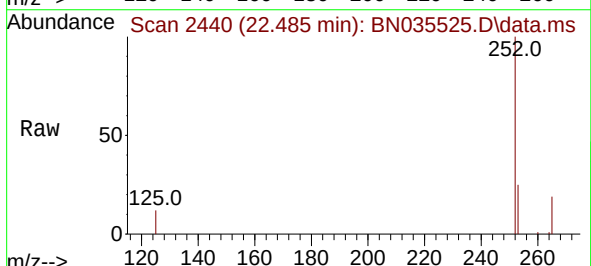
Tgt Ion:252 Resp: 12715

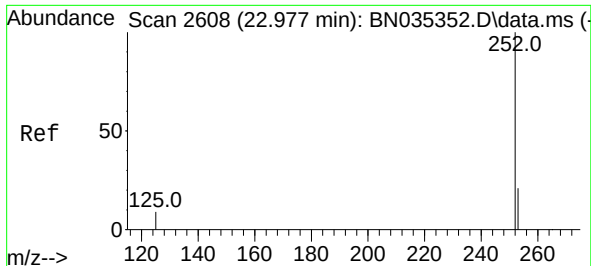
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

125 12.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.364 ng

RT: 22.971 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

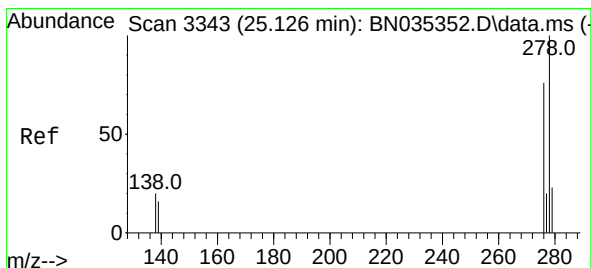
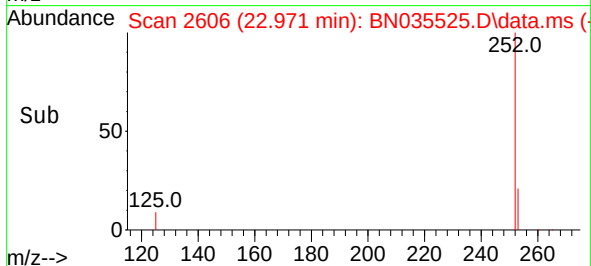
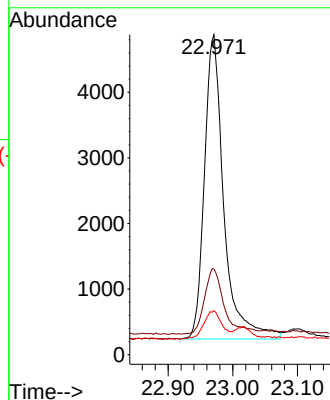
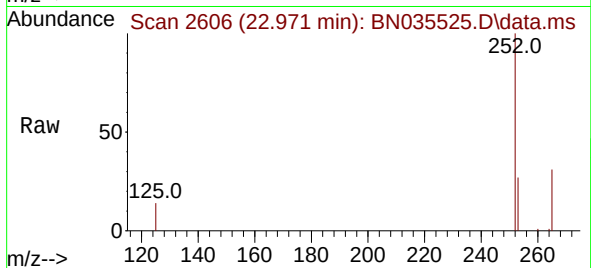
Tgt Ion:252 Resp: 9673

Ion Ratio Lower Upper

252 100

253 26.8 20.2 30.4

125 13.8 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.329 ng

RT: 25.117 min Scan# 3340

Delta R.T. -0.009 min

Lab File: BN035525.D

Acq: 10 Dec 2024 09:33

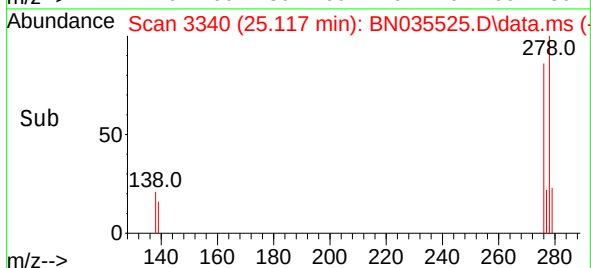
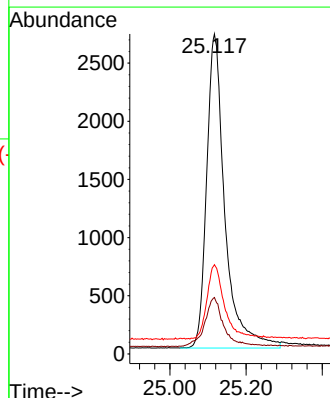
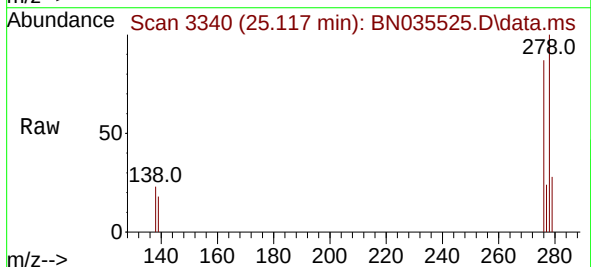
Tgt Ion:278 Resp: 8943

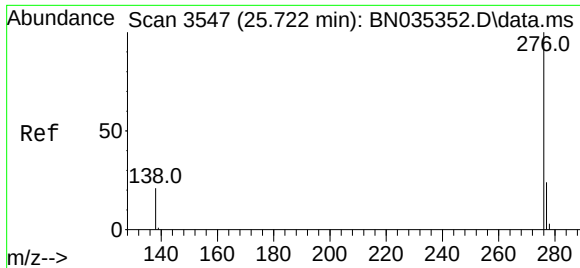
Ion Ratio Lower Upper

278 100

139 17.6 14.2 21.4

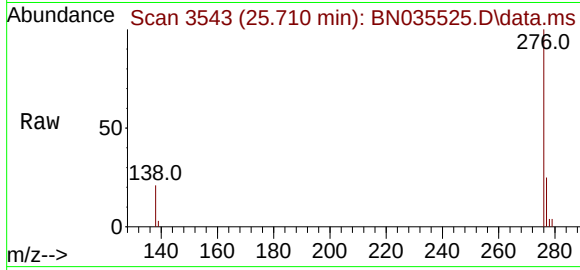
279 27.9 20.5 30.7



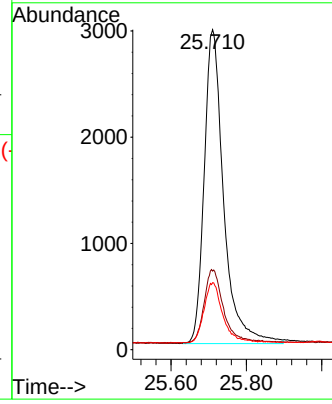
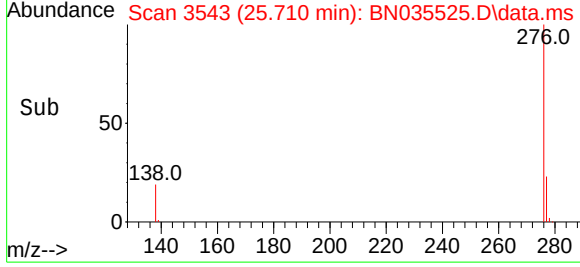


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.710 min Scan# 3543
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	10586
Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	21.0	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035528.D
 Acq On : 10 Dec 2024 11:21
 Operator : RC/JU
 Sample : PB165497BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165497BS

Quant Time: Dec 10 12:28:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

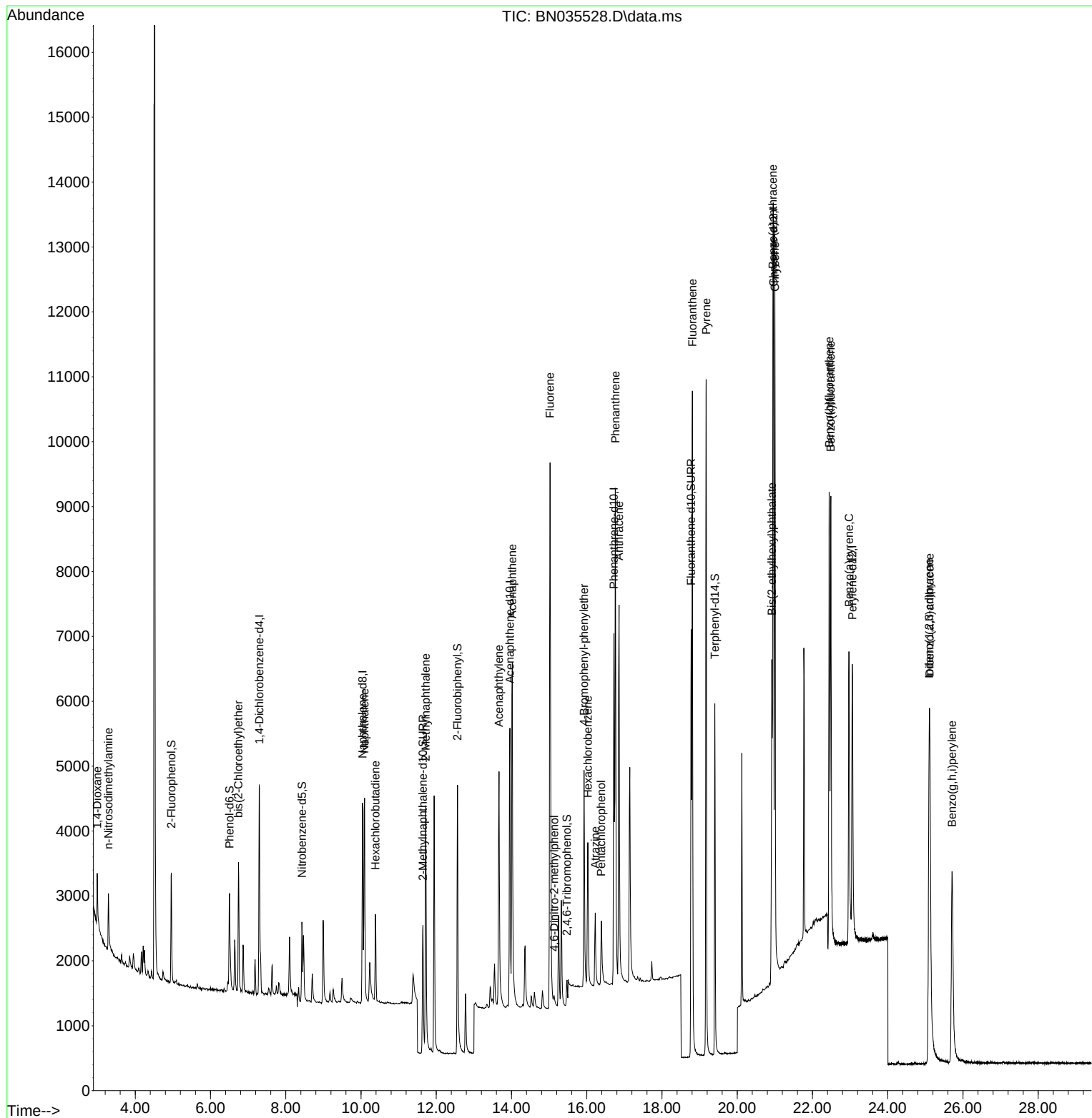
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1669	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4431	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3092	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7959	0.400	ng	#-0.01
29) Chrysene-d12	20.964	240	6696	0.400	ng	0.00
35) Perylene-d12	23.058	264	5945	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1476	0.353	ng	0.00
5) Phenol-d6	6.506	99	1774	0.353	ng	0.00
8) Nitrobenzene-d5	8.429	82	1340	0.495	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3705	0.534	ng	-0.01
14) 2,4,6-Tribromophenol	15.474	330	487	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	4718	0.404	ng	-0.01
27) Fluoranthene-d10	18.775	212	8501	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	6284	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.988	88	576	0.361	ng	# 57
3) n-Nitrosodimethylamine	3.285	42	601	0.452	ng	# 88
6) bis(2-Chloroethyl)ether	6.744	93	1620	0.384	ng	98
9) Naphthalene	10.094	128	4529	0.388	ng	99
10) Hexachlorobutadiene	10.383	225	1103	0.409	ng	# 98
12) 2-Methylnaphthalene	11.722	142	3239	0.387	ng	99
16) Acenaphthylene	13.668	152	5188	0.400	ng	100
17) Acenaphthene	14.020	154	3398	0.394	ng	99
18) Fluorene	15.025	166	4774	0.387	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	191	0.244	ng	# 51
21) 4-Bromophenyl-phenylether	15.928	248	1680	0.361	ng	# 84
22) Hexachlorobenzene	16.028	284	2050	0.375	ng	98
23) Atrazine	16.226	200	1210	0.365	ng	96
24) Pentachlorophenol	16.388	266	731	0.307	ng	# 85
25) Phenanthrene	16.760	178	8421	0.385	ng	100
26) Anthracene	16.859	178	7595	0.384	ng	99
28) Fluoranthene	18.807	202	10125	0.344	ng	99
30) Pyrene	19.174	202	10396	0.421	ng	100
32) Benzo(a)anthracene	20.946	228	8539	0.365	ng	100
33) Chrysene	21.000	228	9922	0.411	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3709	0.401	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	8871	0.382	ng	96
37) Benzo(b)fluoranthene	22.444	252	11072	0.509	ng	99
38) Benzo(k)fluoranthene	22.488	252	9381	0.438	ng	98
39) Benzo(a)pyrene	22.971	252	7413	0.414	ng	95
40) Dibenzo(a,h)anthracene	25.116	278	6401	0.349	ng	96
41) Benzo(g,h,i)perylene	25.710	276	7301	0.381	ng	98

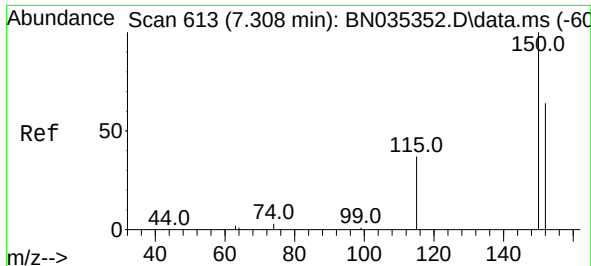
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035528.D
Acq On : 10 Dec 2024 11:21
Operator : RC/JU
Sample : PB165497BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Quant Time: Dec 10 12:28:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

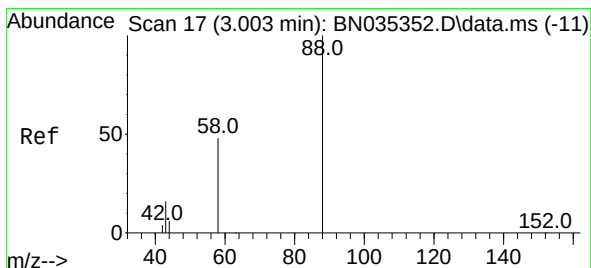
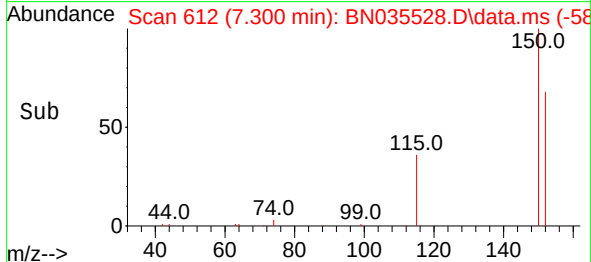
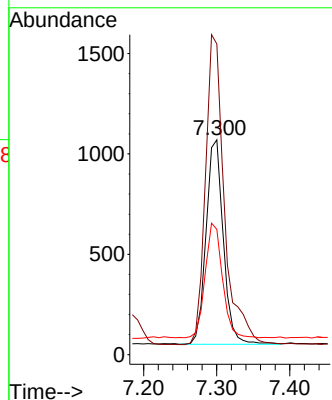
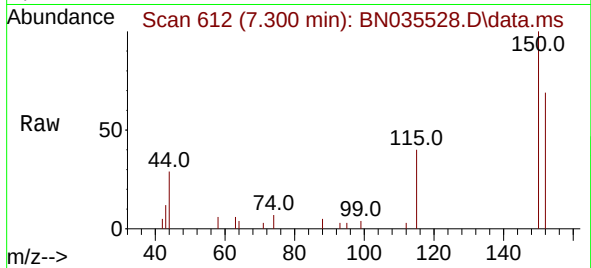




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

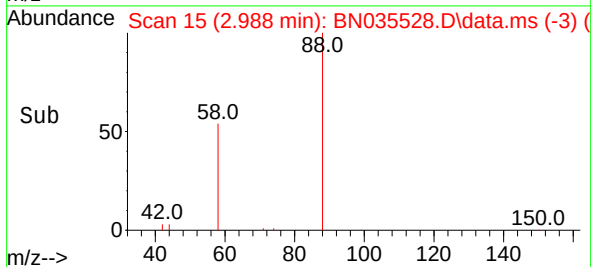
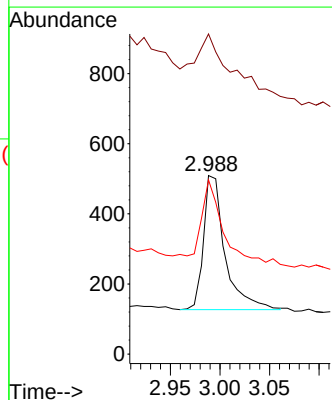
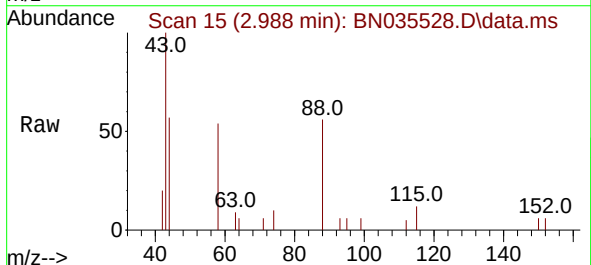
Instrument :
BNA_N
ClientSampleId :
PB165497BS

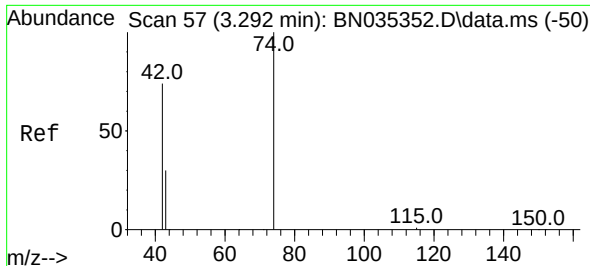
Tgt Ion:152 Resp: 1669
Ion Ratio Lower Upper
152 100
150 144.7 124.0 186.0
115 58.3 49.6 74.4



#2
1,4-Dioxane
Concen: 0.361 ng
RT: 2.988 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 88 Resp: 576
Ion Ratio Lower Upper
88 100
43 75.0 17.2 25.8#
58 67.4 44.5 66.7#

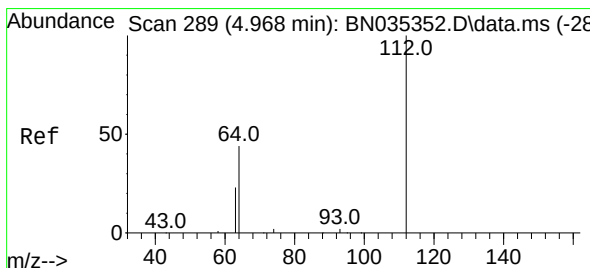
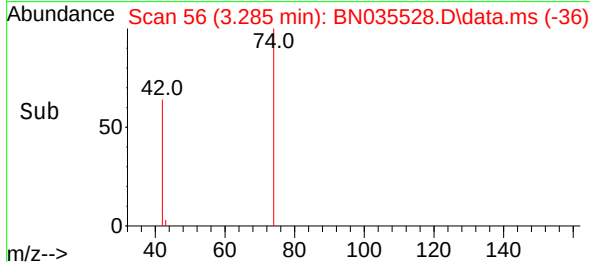
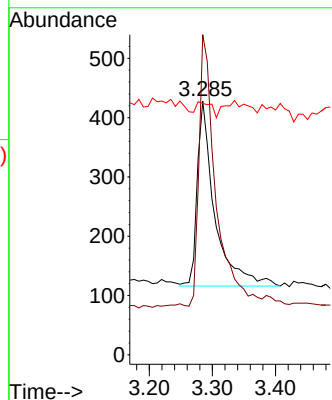
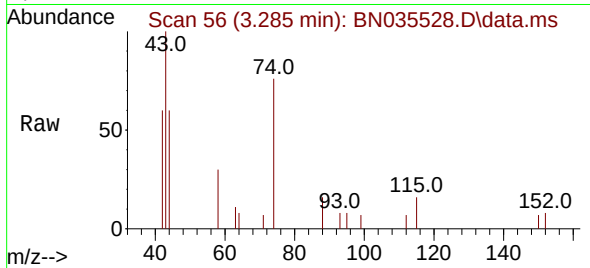




#3
 n-Nitrosodimethylamine
 Concen: 0.452 ng
 RT: 3.285 min Scan# 50
 Delta R.T. -0.008 min
 Lab File: BN035528.D
 Acq: 10 Dec 2024 11:21

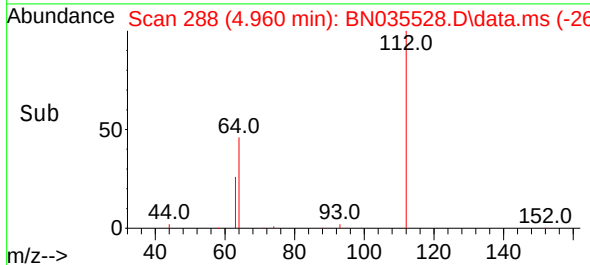
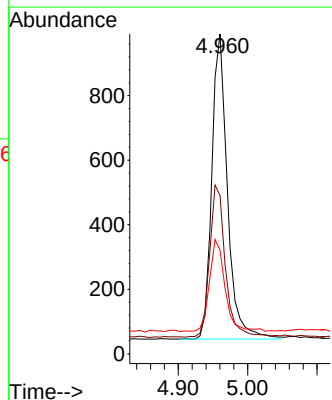
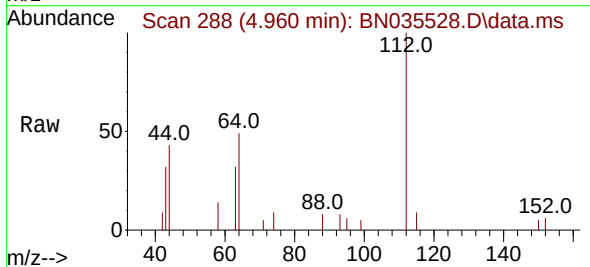
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BS

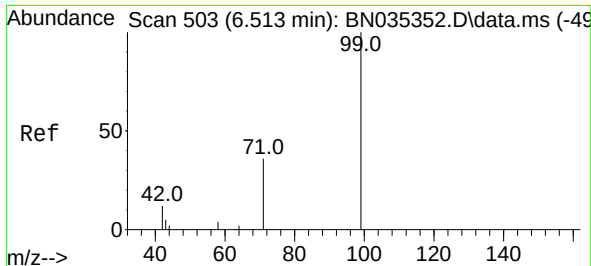
Tgt Ion: 42 Resp: 601
 Ion Ratio Lower Upper
 42 100
 74 140.3 124.9 187.3
 44 7.0 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.353 ng
 RT: 4.960 min Scan# 288
 Delta R.T. -0.008 min
 Lab File: BN035528.D
 Acq: 10 Dec 2024 11:21

Tgt Ion: 112 Resp: 1476
 Ion Ratio Lower Upper
 112 100
 64 50.3 39.8 59.8
 63 29.7 21.0 31.6

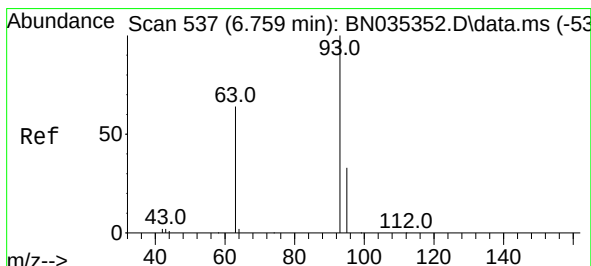
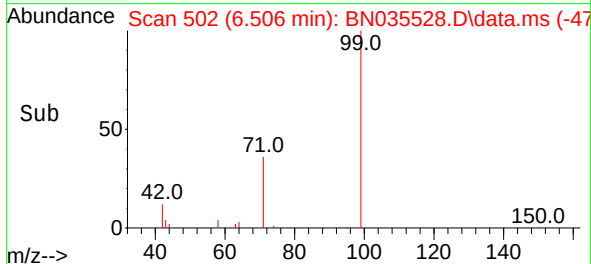
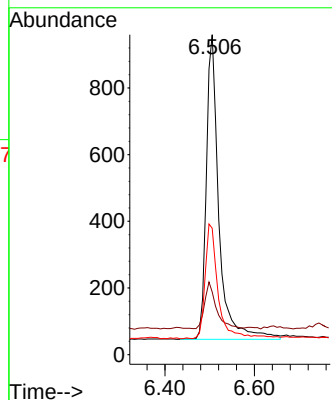
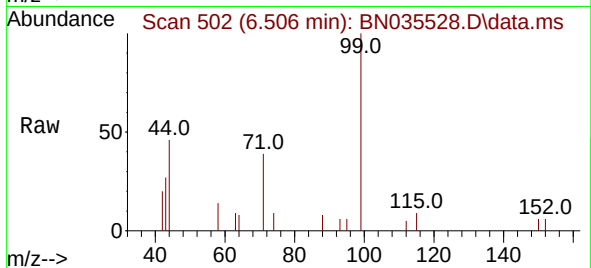




#5
Phenol-d6
Concen: 0.353 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

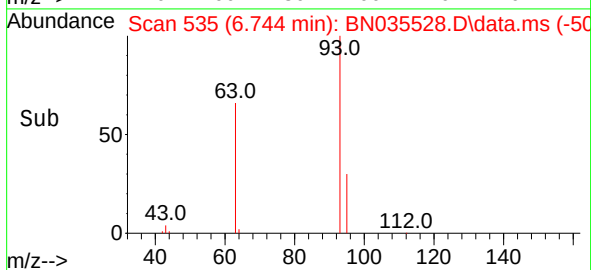
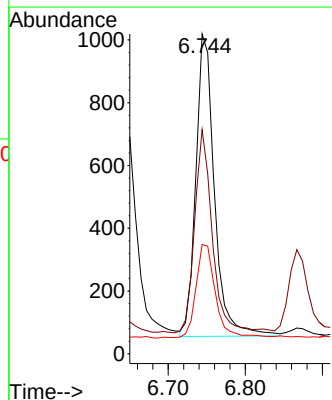
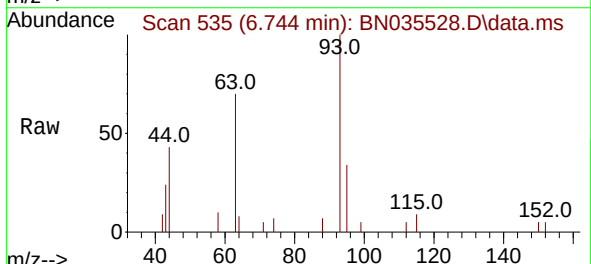
Instrument :
BNA_N
ClientSampleId :
PB165497BS

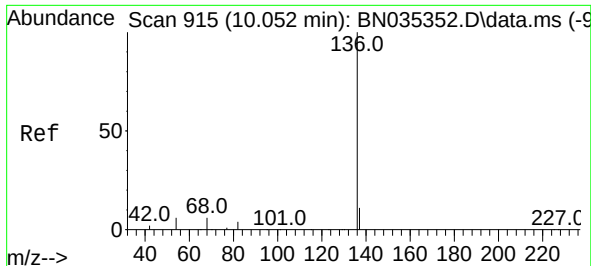
Tgt Ion: 99 Resp: 1774
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.2
71 39.4 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 93 Resp: 1620
Ion Ratio Lower Upper
93 100
63 64.3 50.4 75.6
95 32.9 25.7 38.5

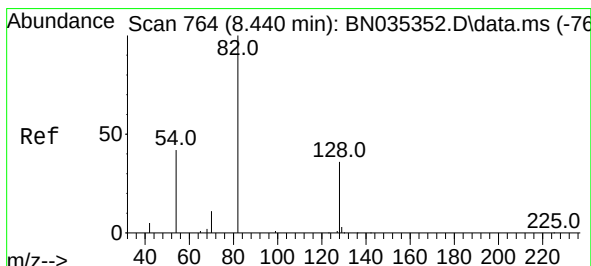
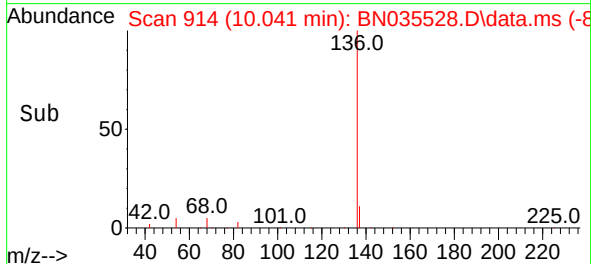
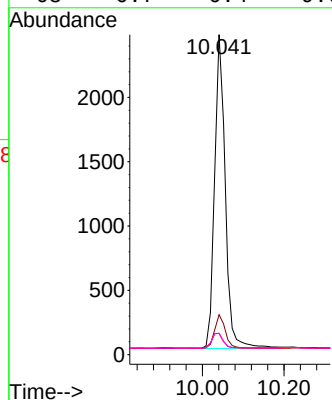
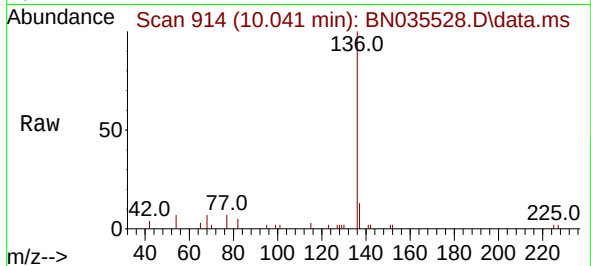




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

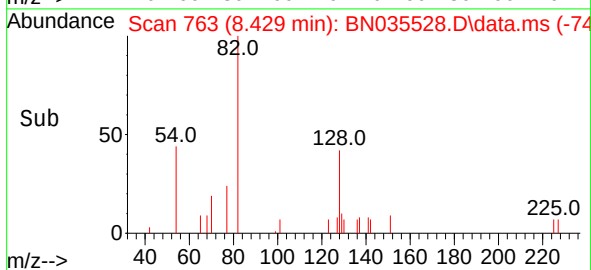
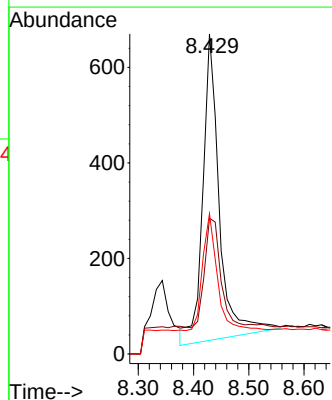
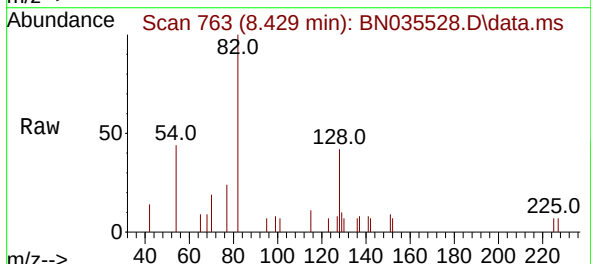
Instrument :
BNA_N
ClientSampleId :
PB165497BS

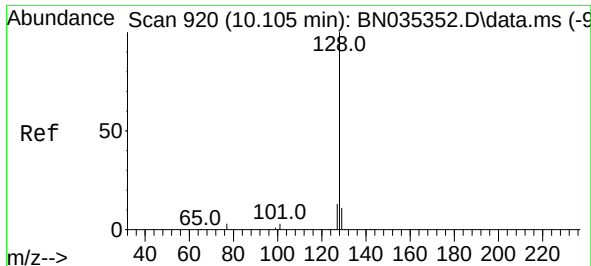
Tgt Ion:136	Resp:	4431
Ion Ratio	Lower	Upper
136	100	
137	12.5	10.2 15.2
54	6.6	6.1 9.1
68	6.7	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.495 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 82	Resp:	1340
Ion Ratio	Lower	Upper
82	100	
128	42.4	33.4 50.0
54	43.9	36.7 55.1

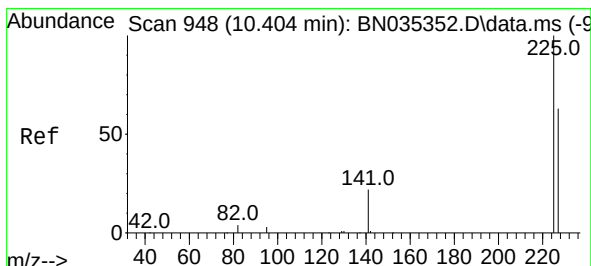
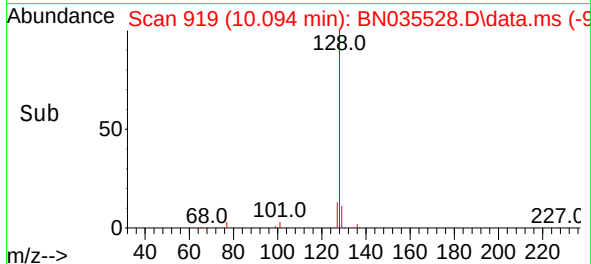
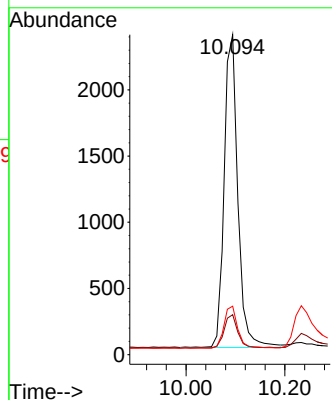
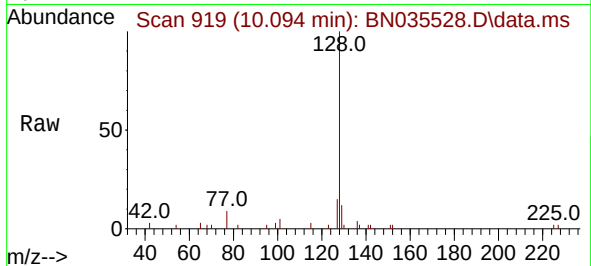




#9
Naphthalene
Concen: 0.388 ng
RT: 10.094 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

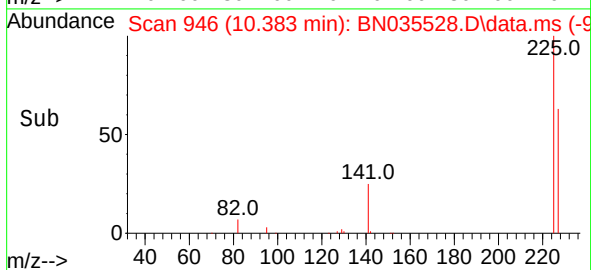
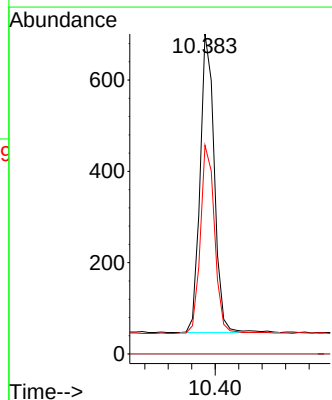
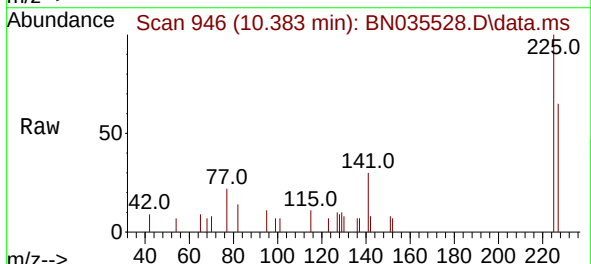
Instrument :
BNA_N
ClientSampleId :
PB165497BS

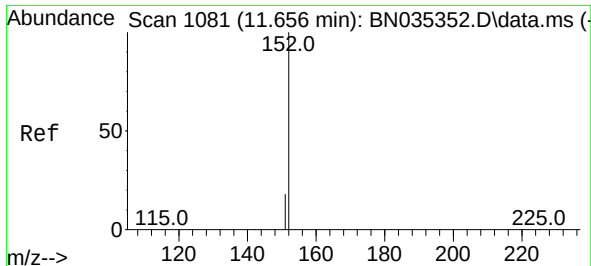
Tgt Ion:128 Resp: 4529
Ion Ratio Lower Upper
128 100
129 12.5 9.8 14.6
127 15.1 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.022 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:225 Resp: 1103
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 51.3 76.9

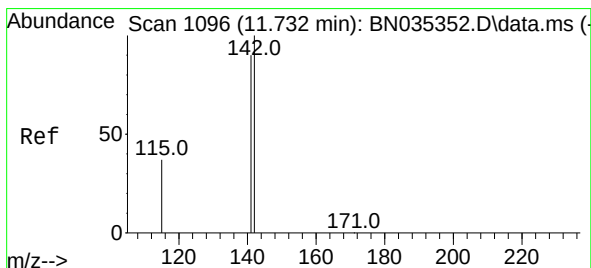
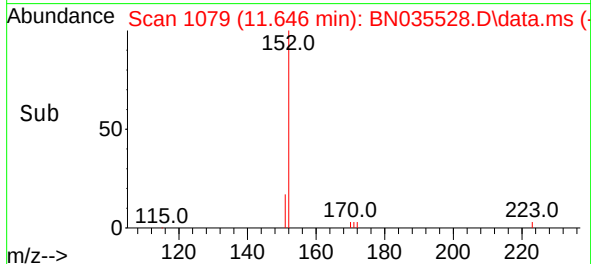
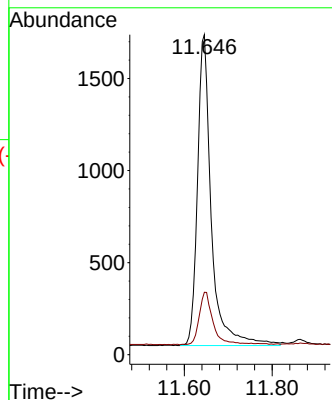
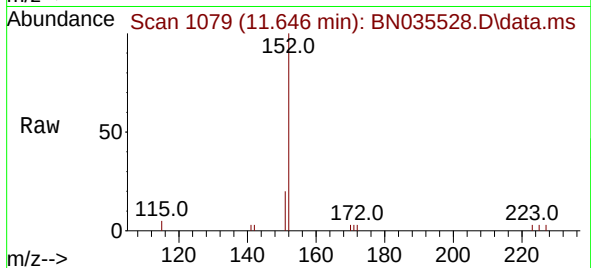




#11
2-Methylnaphthalene-d10
Concen: 0.534 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

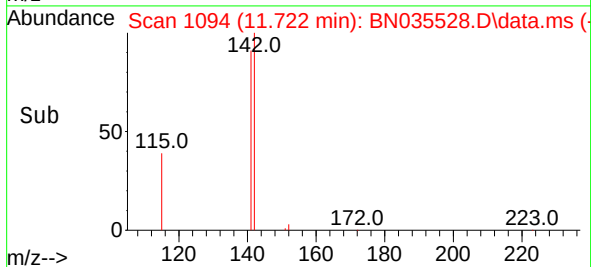
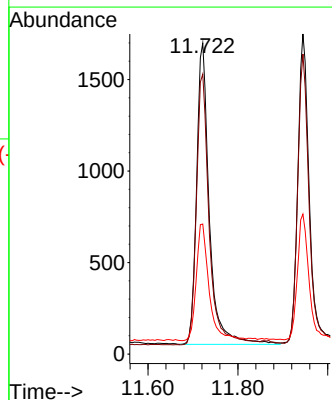
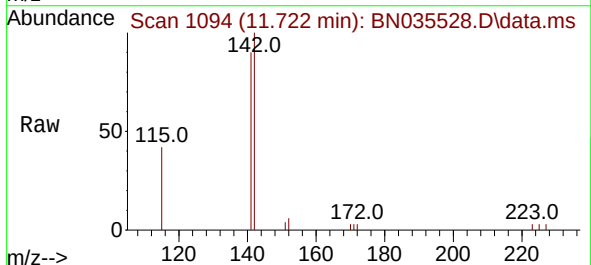
Instrument :
BNA_N
ClientSampleId :
PB165497BS

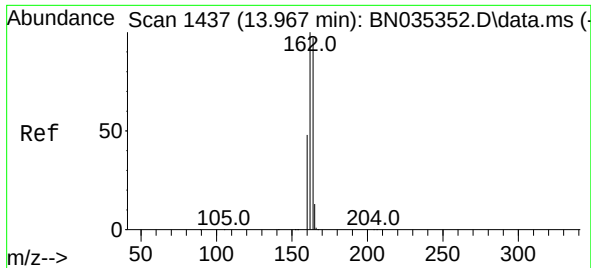
Tgt Ion:152 Resp: 3705
Ion Ratio Lower Upper
152 100
151 17.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:142 Resp: 3239
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 41.8 31.4 47.0

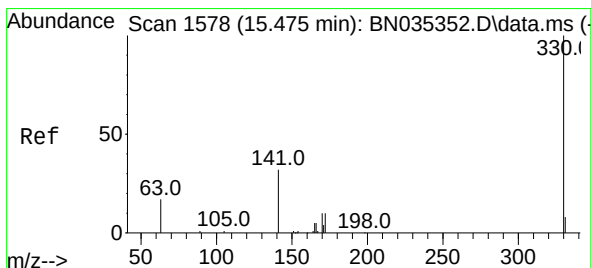
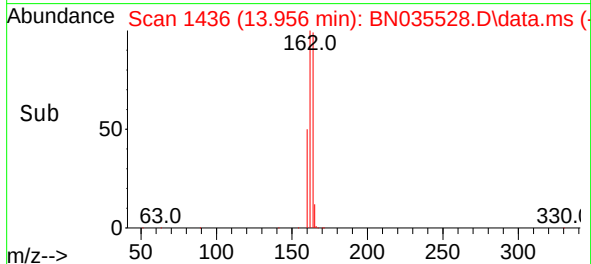
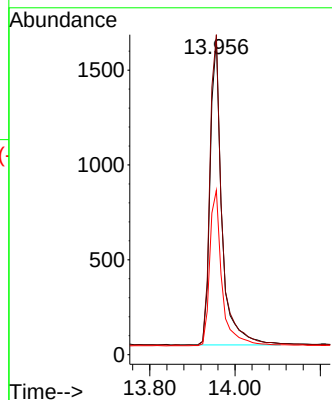
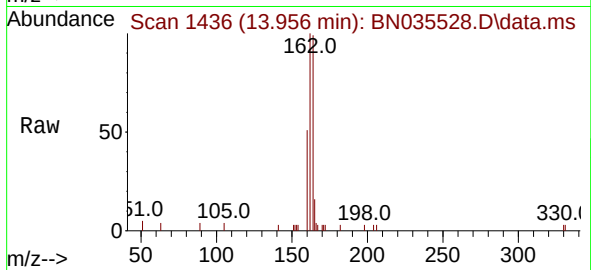




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

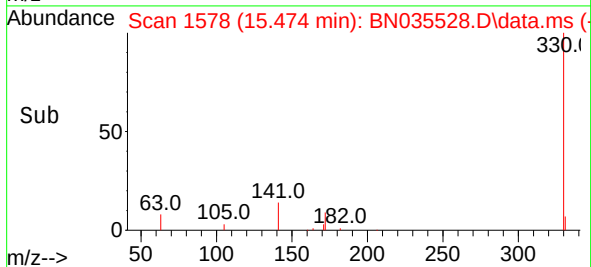
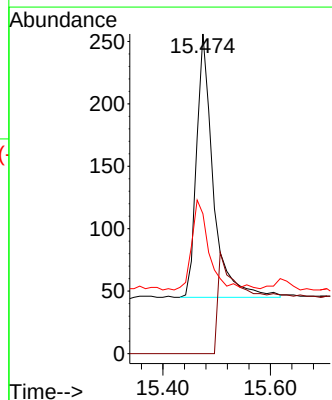
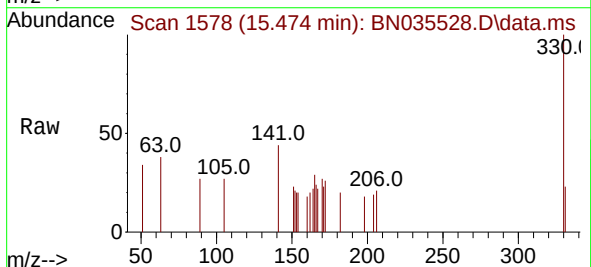
Instrument :
BNA_N
ClientSampleId :
PB165497BS

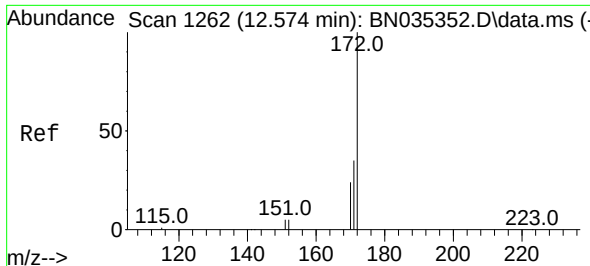
Tgt Ion:164 Resp: 3092
Ion Ratio Lower Upper
164 100
162 101.3 82.2 123.2
160 52.0 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.474 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:330 Resp: 487
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.404 ng

RT: 12.564 min Scan# 1409

Delta R.T. -0.010 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

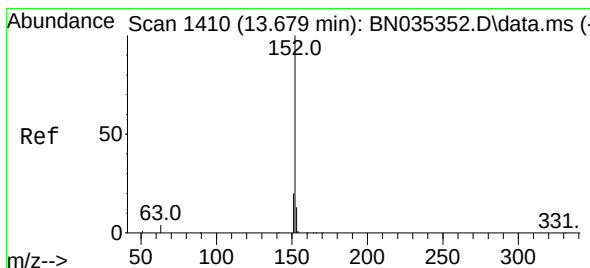
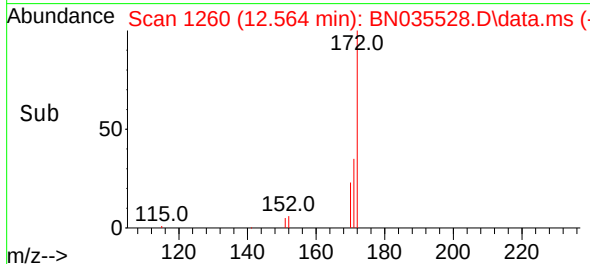
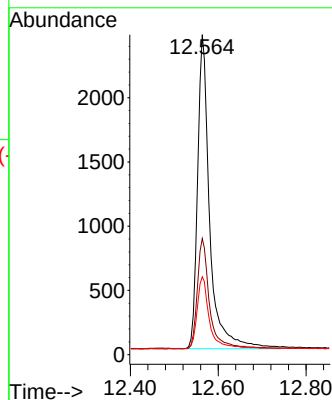
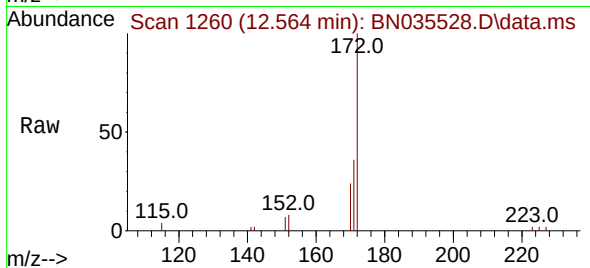
Tgt Ion:172 Resp: 4718

Ion Ratio Lower Upper

172 100

171 36.3 29.0 43.4

170 24.4 19.8 29.8



#16

Acenaphthylene

Concen: 0.400 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

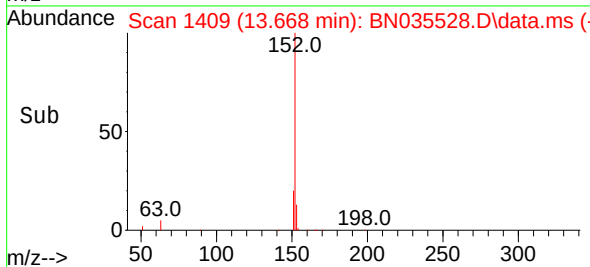
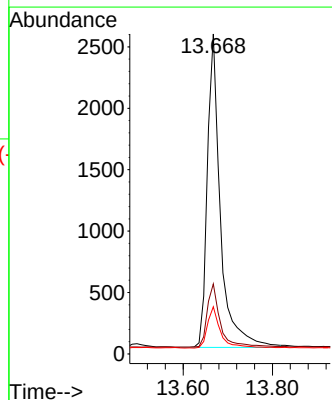
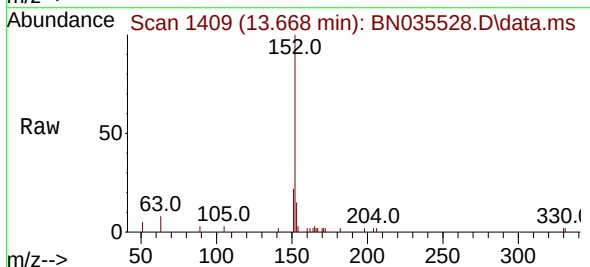
Tgt Ion:152 Resp: 5188

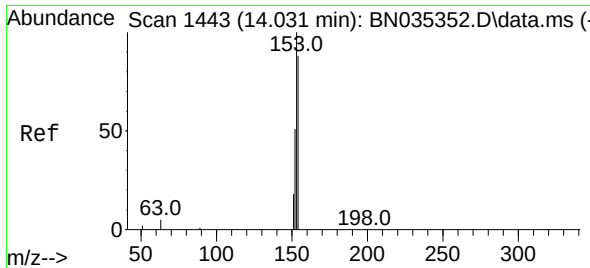
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 13.1 10.4 15.6

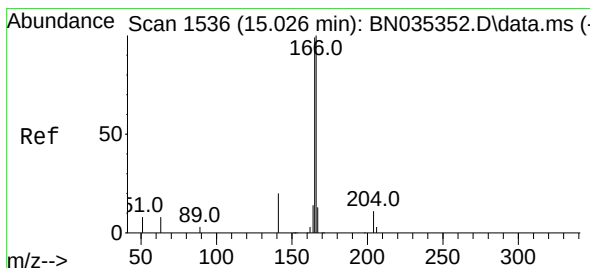
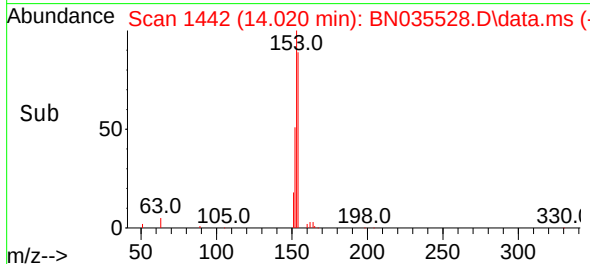
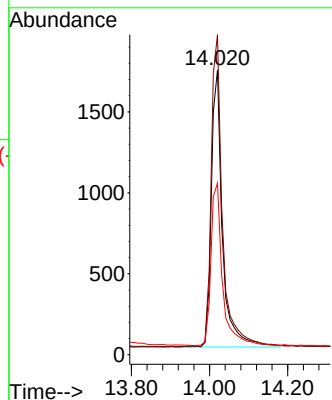
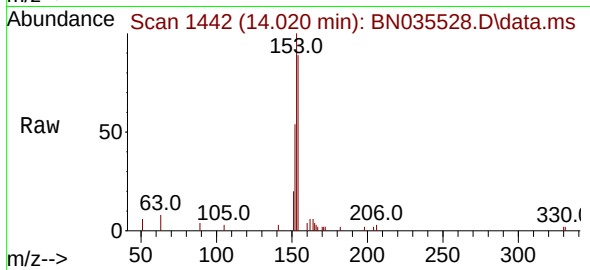




#17
Acenaphthene
Concen: 0.394 ng
RT: 14.020 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

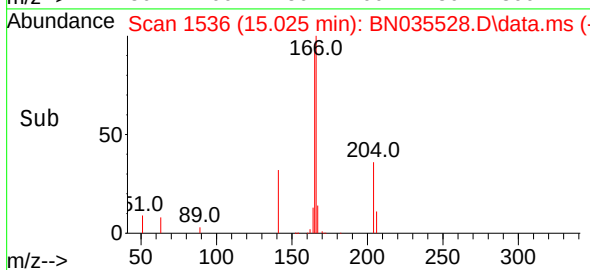
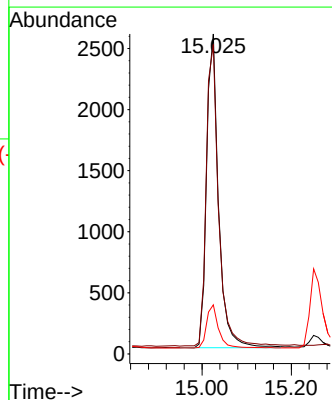
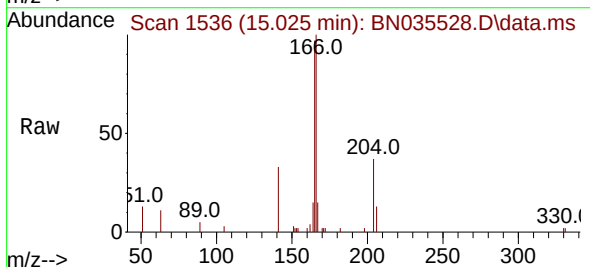
Instrument :
BNA_N
ClientSampleId :
PB165497BS

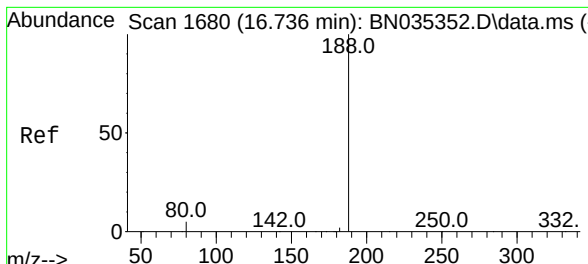
Tgt Ion:154 Resp: 3398
Ion Ratio Lower Upper
154 100
153 113.6 92.6 139.0
152 61.0 49.0 73.6



#18
Fluorene
Concen: 0.387 ng
RT: 15.025 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:166 Resp: 4774
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.7 10.8 16.2

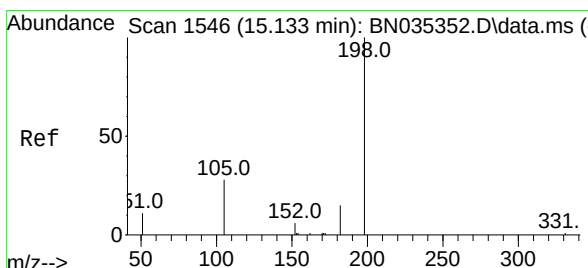
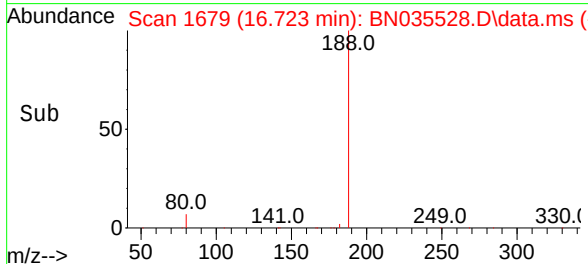
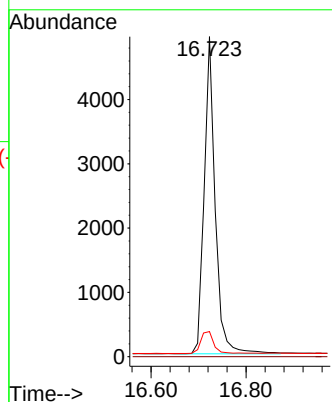
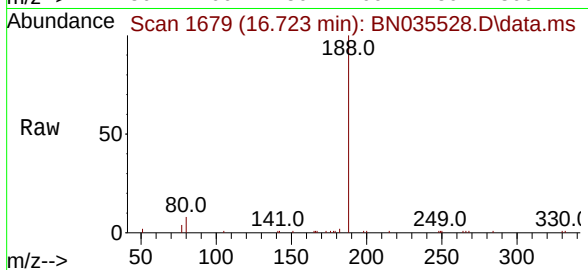




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

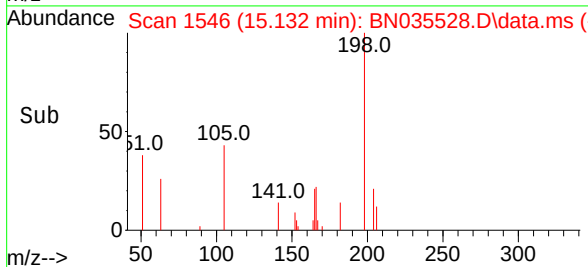
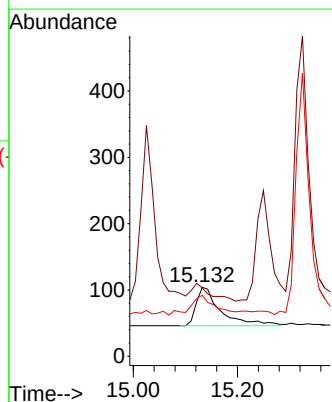
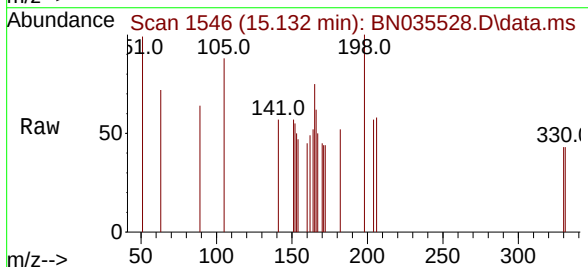
Instrument :
BNA_N
ClientSampleId :
PB165497BS

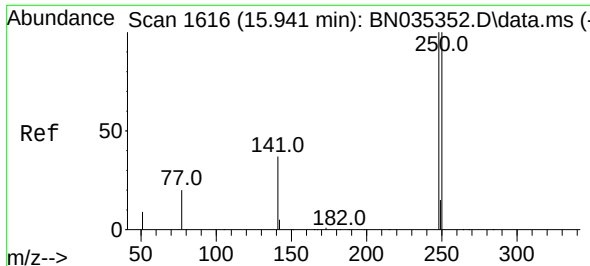
Tgt Ion:188 Resp: 7959
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.9 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.244 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:198 Resp: 191
Ion Ratio Lower Upper
198 100
51 99.0 46.5 69.7#
105 88.5 45.3 67.9#

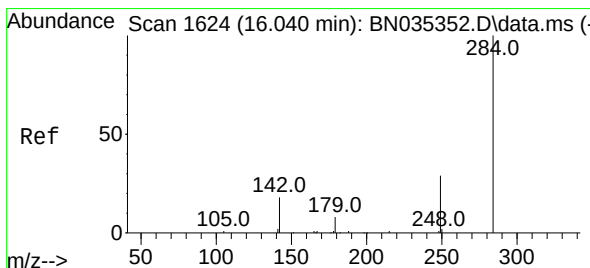
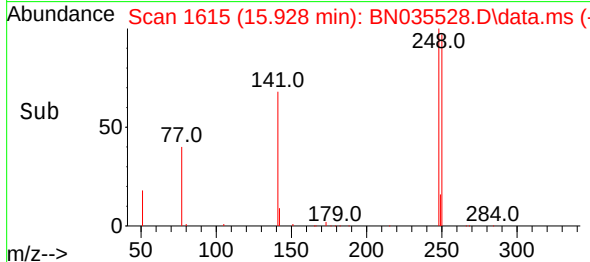
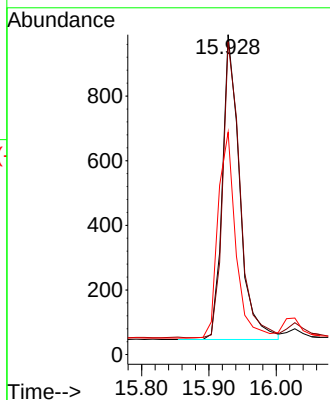
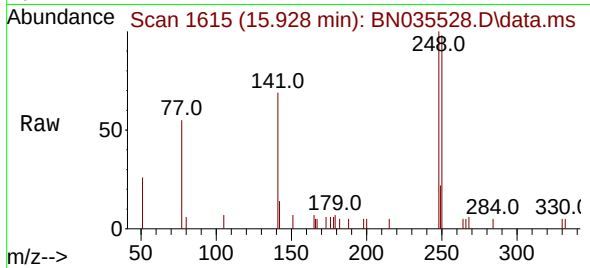




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 15.928 min Scan# 1615
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

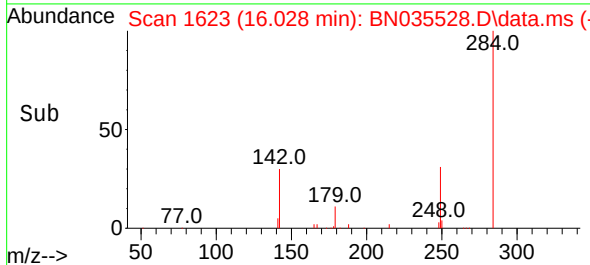
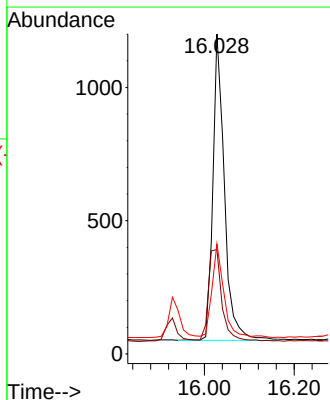
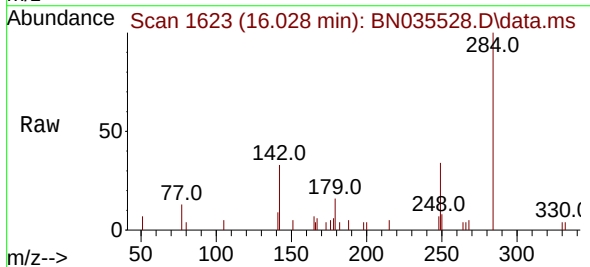
Instrument :
BNA_N
ClientSampleId :
PB165497BS

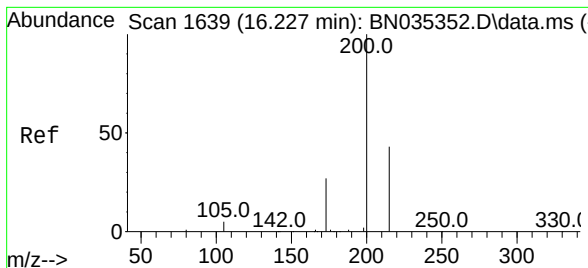
Tgt Ion:248 Resp: 1680
Ion Ratio Lower Upper
248 100
250 97.8 80.6 120.8
141 69.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:284 Resp: 2050
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 31.3 24.6 36.8





#23

Atrazine

Concen: 0.365 ng

RT: 16.226 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

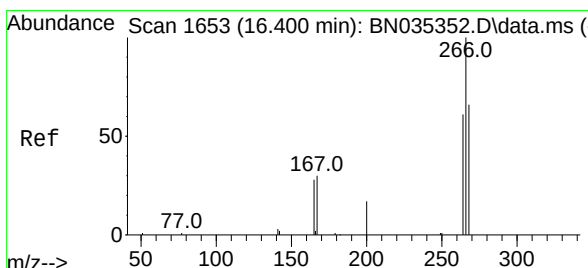
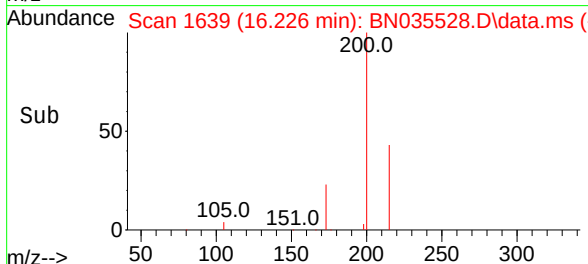
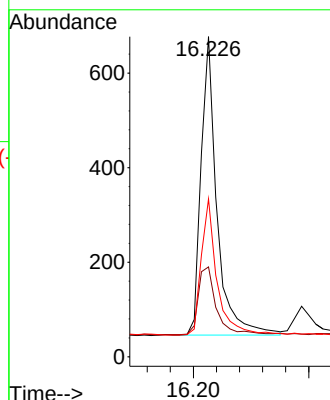
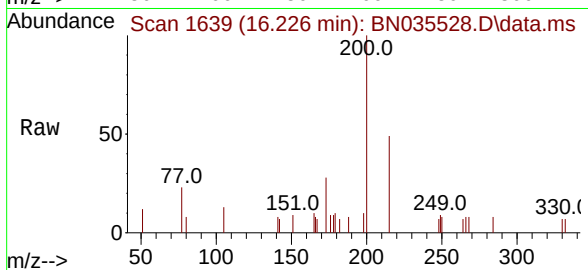
Tgt Ion:200 Resp: 1210

Ion Ratio Lower Upper

200 100

173 28.1 24.1 36.1

215 49.3 36.9 55.3



#24

Pentachlorophenol

Concen: 0.307 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.013 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

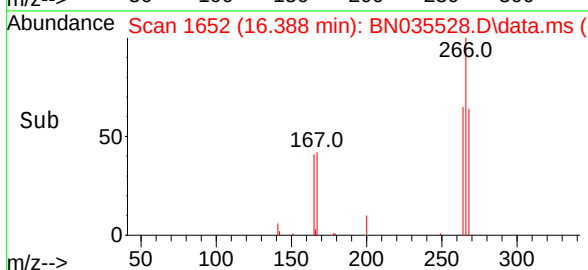
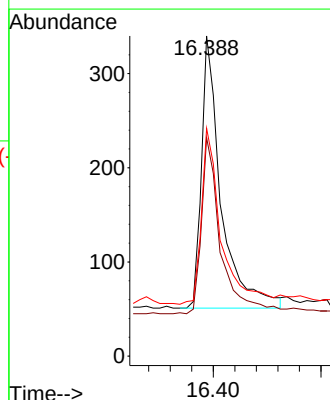
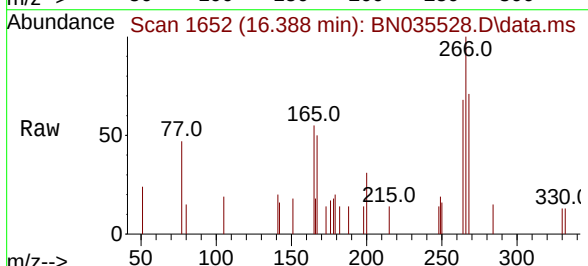
Tgt Ion:266 Resp: 731

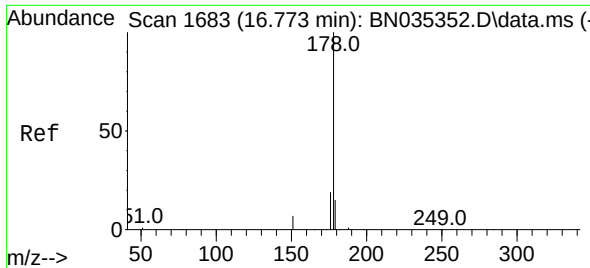
Ion Ratio Lower Upper

266 100

264 63.5 42.3 63.5

268 65.0 43.3 64.9#

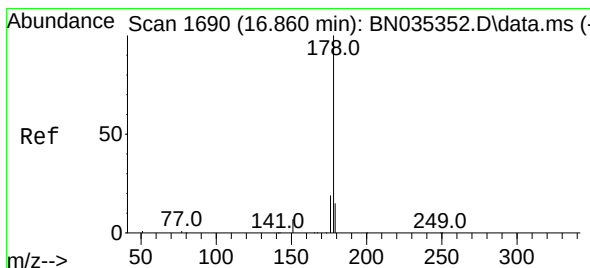
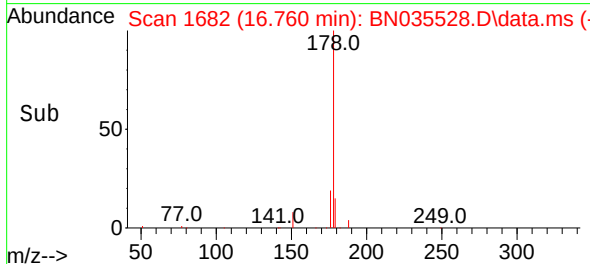
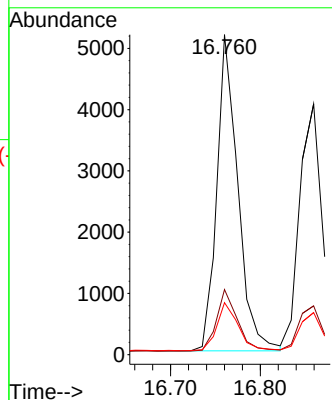
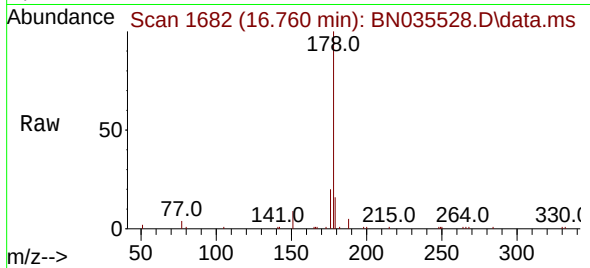




#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

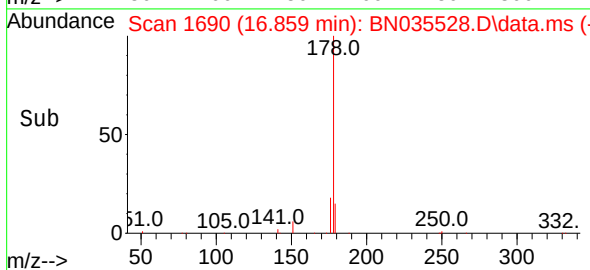
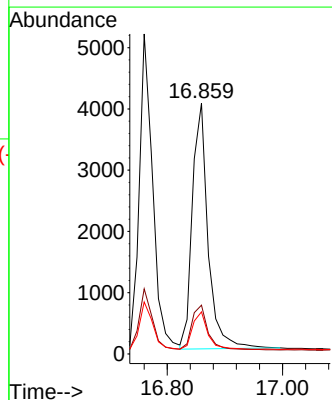
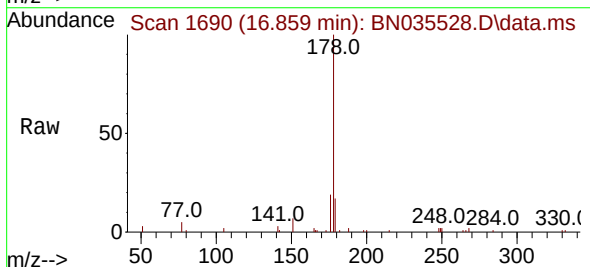
Instrument :
BNA_N
ClientSampleId :
PB165497BS

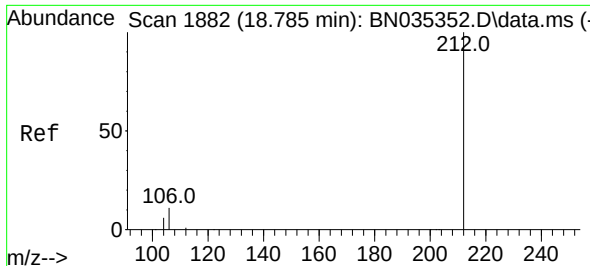
Tgt Ion:178 Resp: 8421
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.384 ng
RT: 16.859 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:178 Resp: 7595
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.5 12.6 18.8

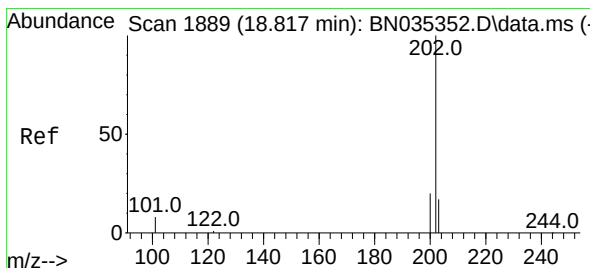
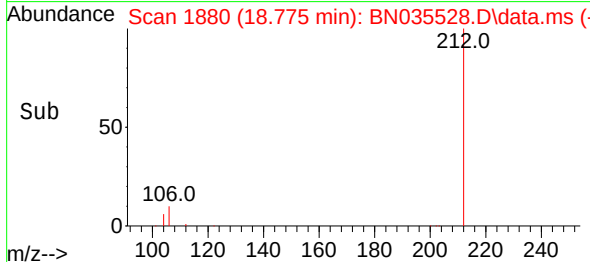
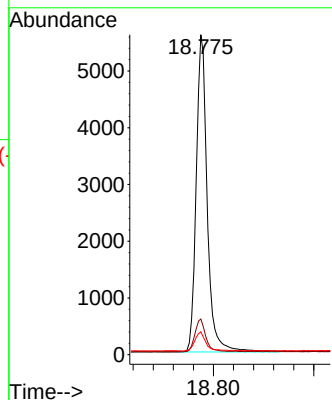
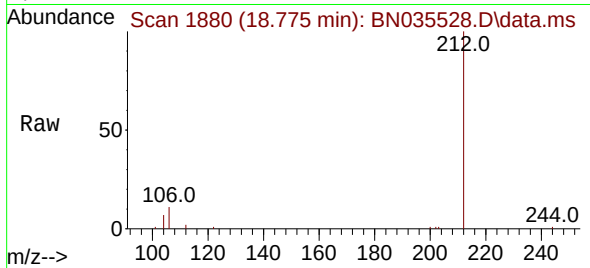




#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

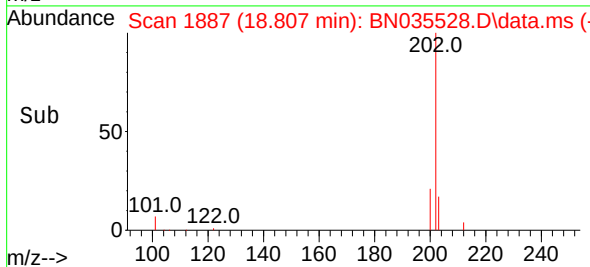
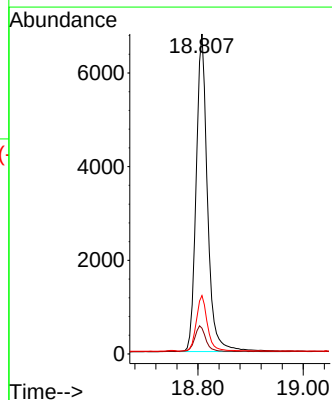
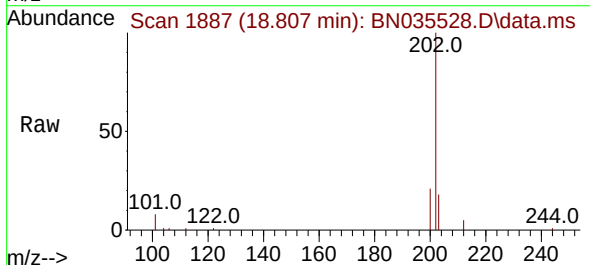
Instrument :
BNA_N
ClientSampleId :
PB165497BS

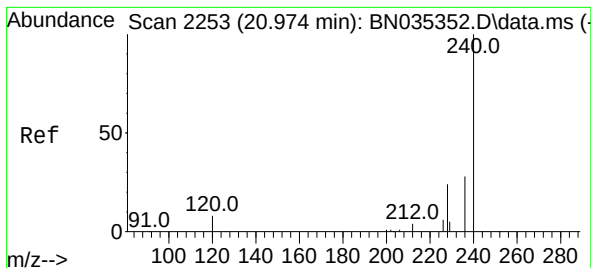
Tgt Ion:212 Resp: 8501
Ion Ratio Lower Upper
212 100
106 10.0 9.2 13.8
104 6.0 5.3 7.9



#28
Fluoranthene
Concen: 0.344 ng
RT: 18.807 min Scan# 1887
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:202 Resp: 10125
Ion Ratio Lower Upper
202 100
101 7.8 7.4 11.0
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.964 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

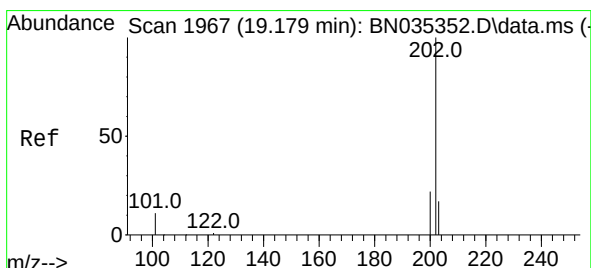
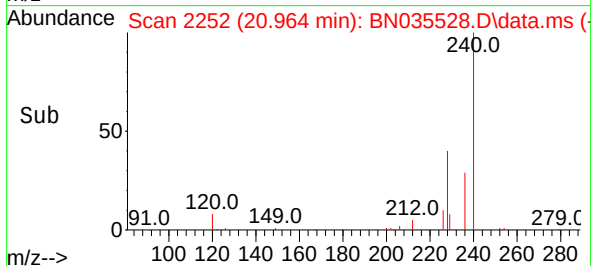
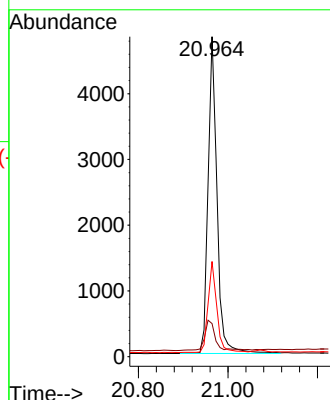
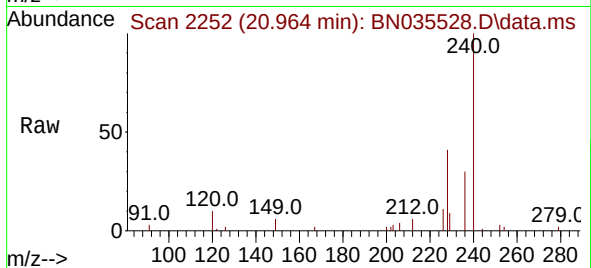
Tgt Ion:240 Resp: 6696

Ion Ratio Lower Upper

240 100

120 10.3 7.9 11.9

236 29.7 22.9 34.3



#30

Pyrene

Concen: 0.421 ng

RT: 19.174 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

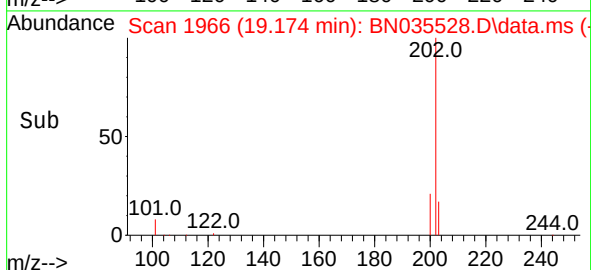
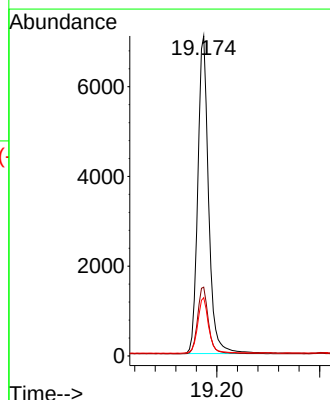
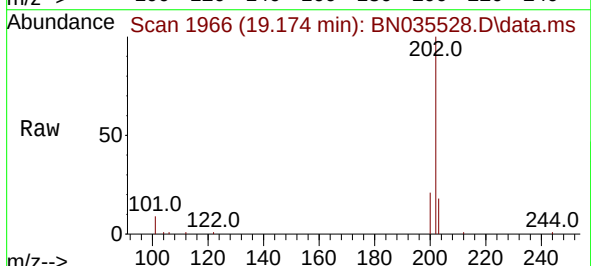
Tgt Ion:202 Resp: 10396

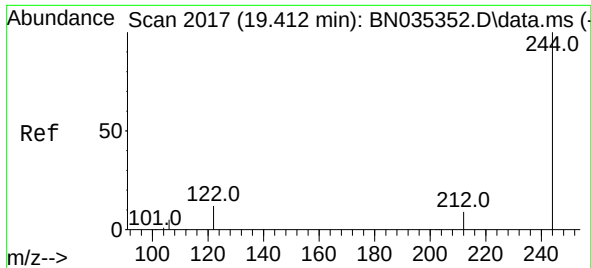
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.8 14.3 21.5

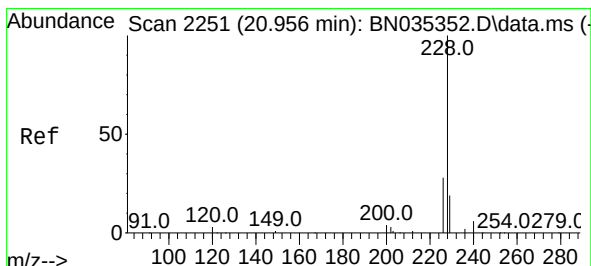
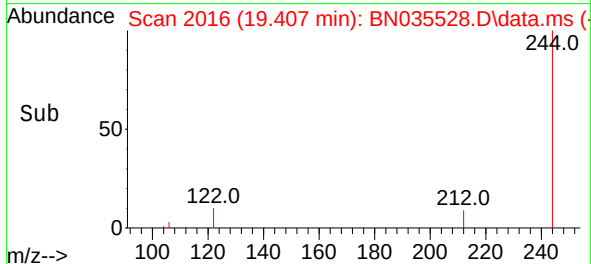
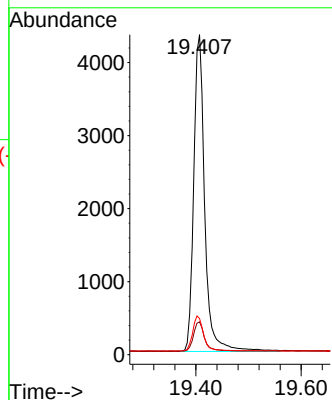
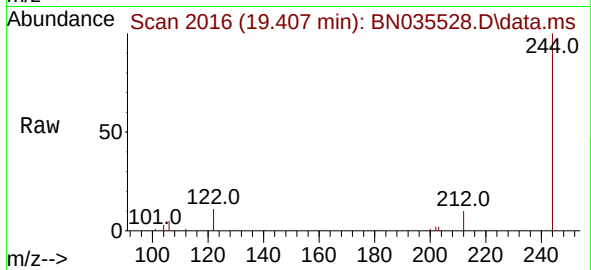




#31
 Terphenyl-d14
 Concen: 0.476 ng
 RT: 19.407 min Scan# 2016
 Delta R.T. -0.005 min
 Lab File: BN035528.D
 Acq: 10 Dec 2024 11:21

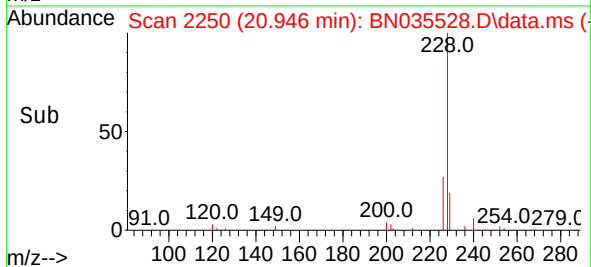
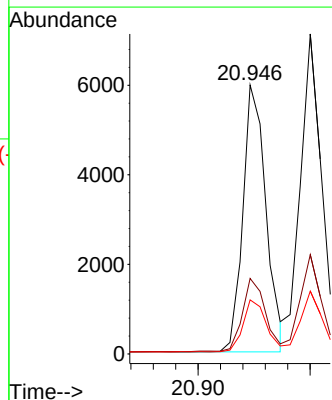
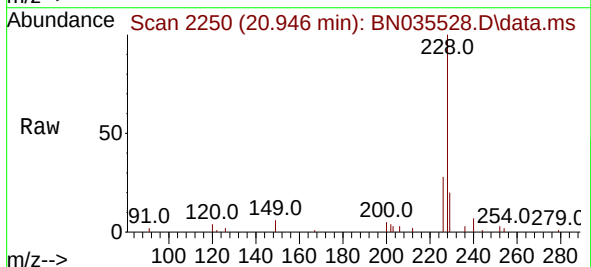
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BS

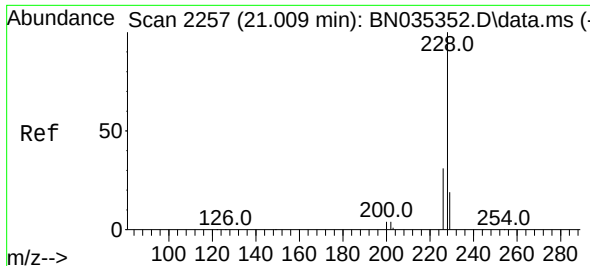
Tgt Ion:244 Resp: 6284
 Ion Ratio Lower Upper
 244 100
 212 10.2 8.1 12.1
 122 11.3 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.365 ng
 RT: 20.946 min Scan# 2250
 Delta R.T. -0.009 min
 Lab File: BN035528.D
 Acq: 10 Dec 2024 11:21

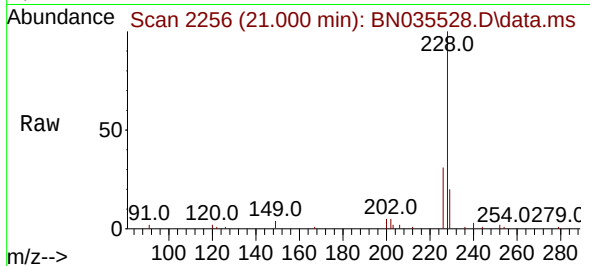
Tgt Ion:228 Resp: 8539
 Ion Ratio Lower Upper
 228 100
 226 28.1 22.5 33.7
 229 20.1 15.8 23.8



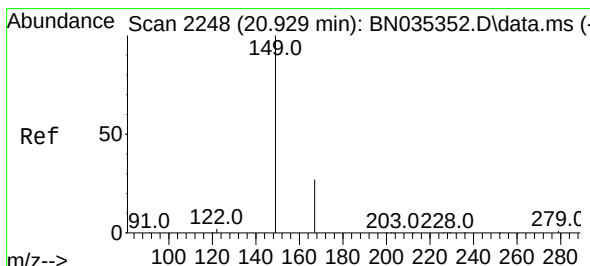
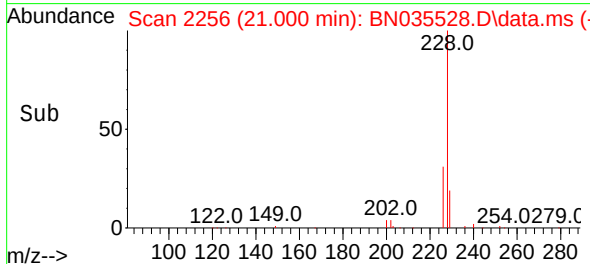
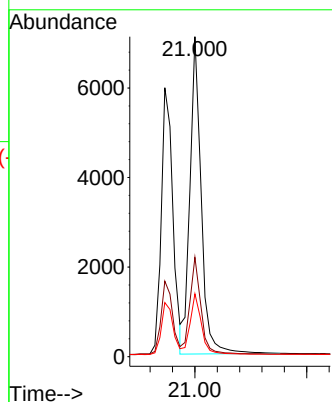


#33
Chrysene
Concen: 0.411 ng
RT: 21.000 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

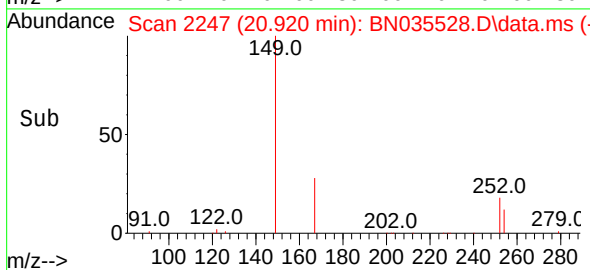
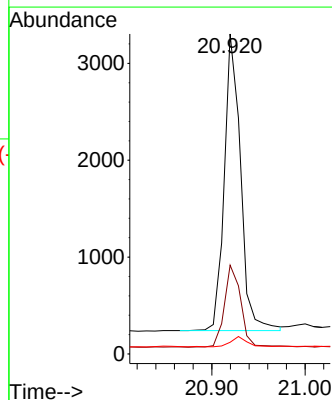
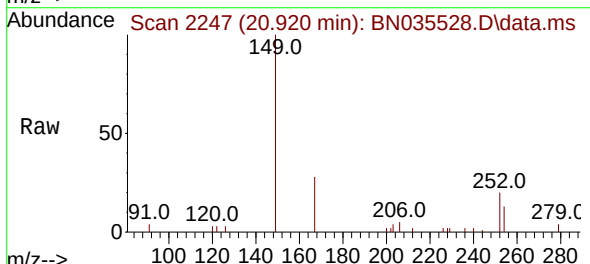


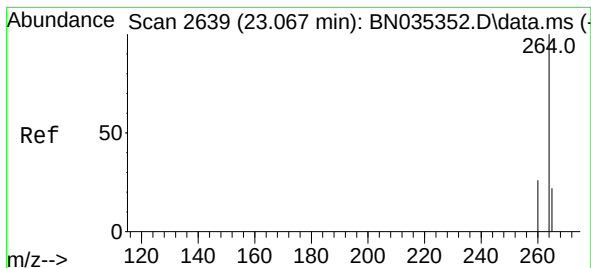
Tgt Ion:228 Resp: 9922
Ion Ratio Lower Upper
228 100
226 31.1 24.6 37.0
229 19.7 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:149 Resp: 3709
Ion Ratio Lower Upper
149 100
167 28.0 22.2 33.4
279 3.5 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.058 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

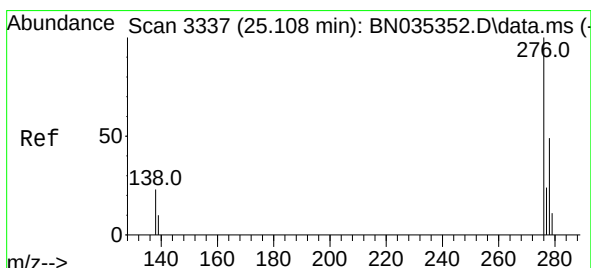
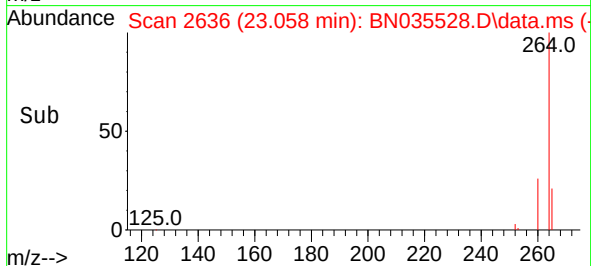
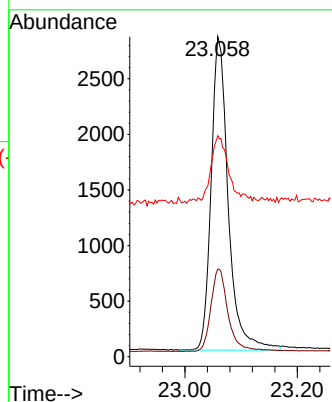
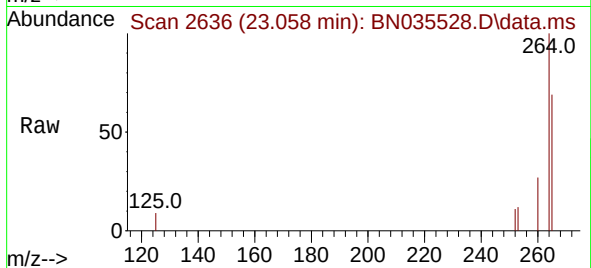
Tgt Ion:264 Resp: 5945

Ion Ratio Lower Upper

264 100

260 27.3 21.4 32.2

265 69.1 40.2 60.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

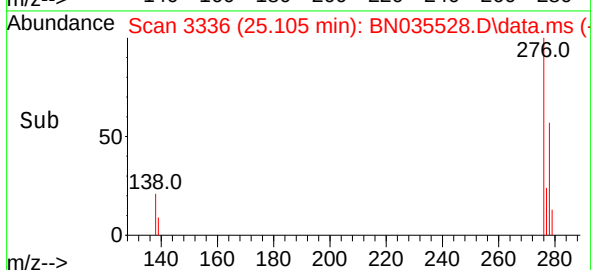
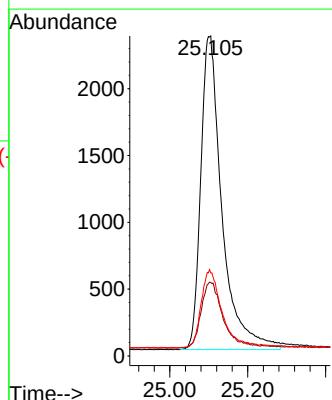
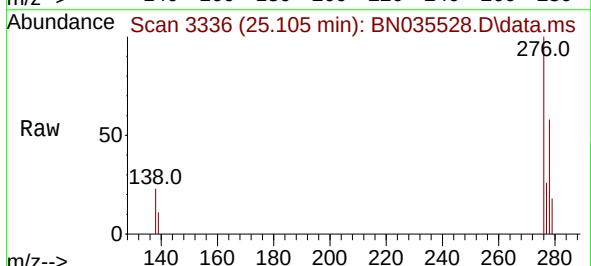
Tgt Ion:276 Resp: 8871

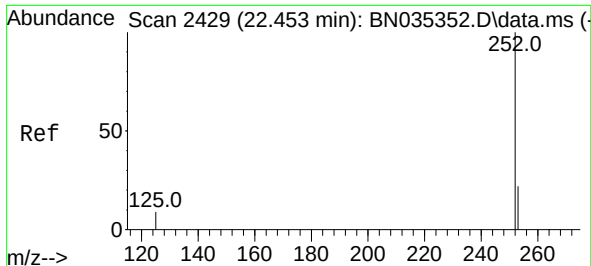
Ion Ratio Lower Upper

276 100

138 21.3 19.4 29.0

277 24.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.509 ng

RT: 22.444 min Scan# 2426

Delta R.T. -0.009 min

Lab File: BN035528.D

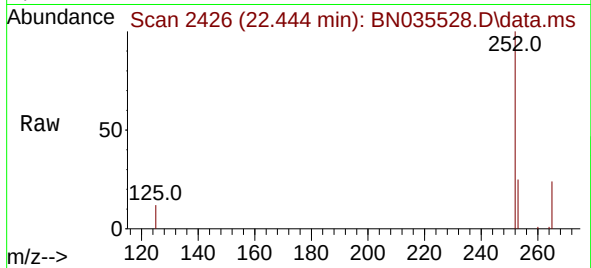
Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS



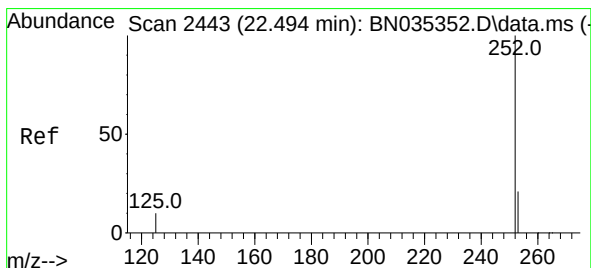
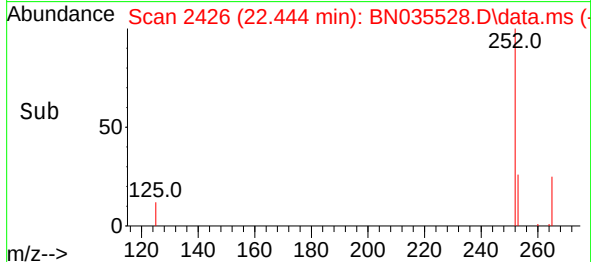
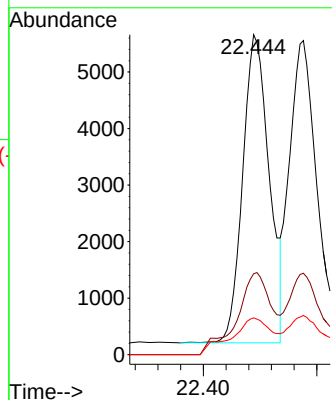
Tgt Ion:252 Resp: 11072

Ion Ratio Lower Upper

252 100

253 25.3 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.438 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

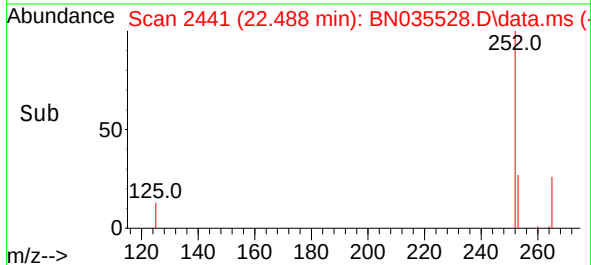
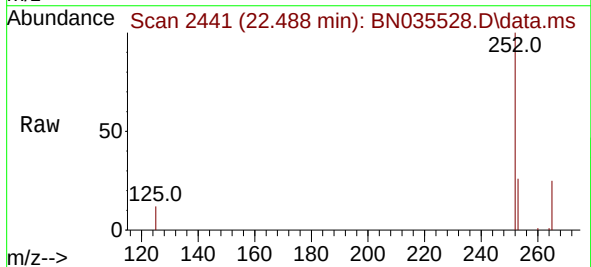
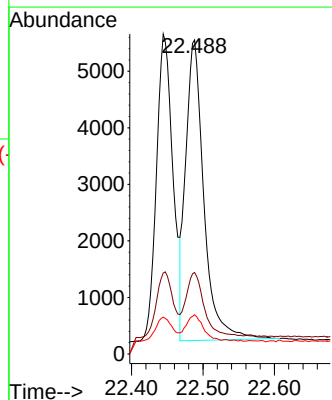
Tgt Ion:252 Resp: 9381

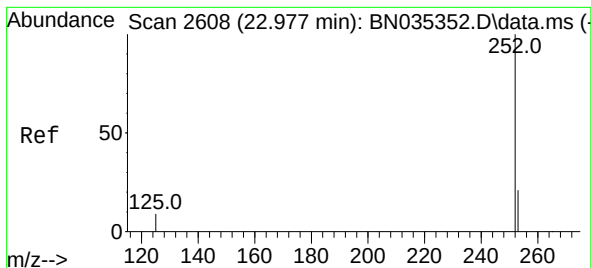
Ion Ratio Lower Upper

252 100

253 25.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.414 ng

RT: 22.971 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

PB165497BS

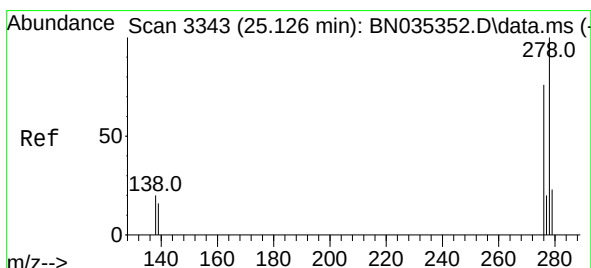
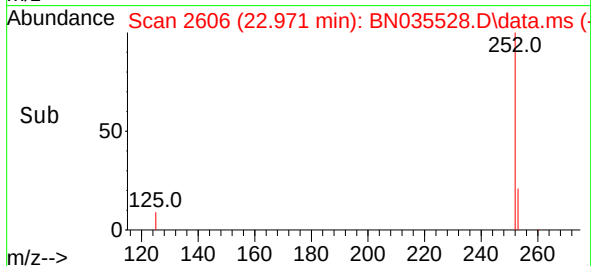
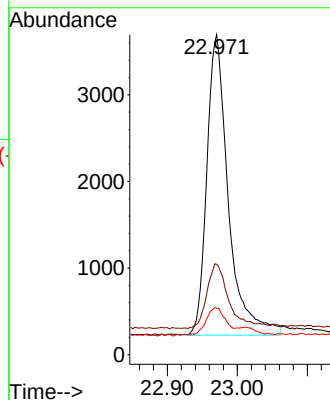
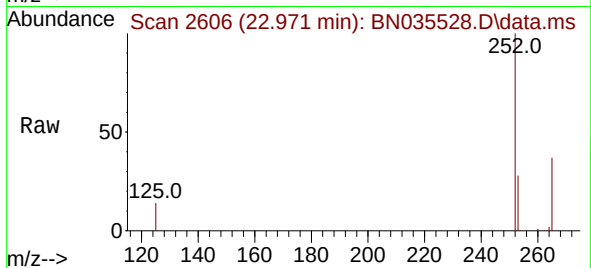
Tgt Ion:252 Resp: 7413

Ion Ratio Lower Upper

252 100

253 28.3 20.2 30.4

125 14.5 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.349 ng

RT: 25.116 min Scan# 3340

Delta R.T. -0.009 min

Lab File: BN035528.D

Acq: 10 Dec 2024 11:21

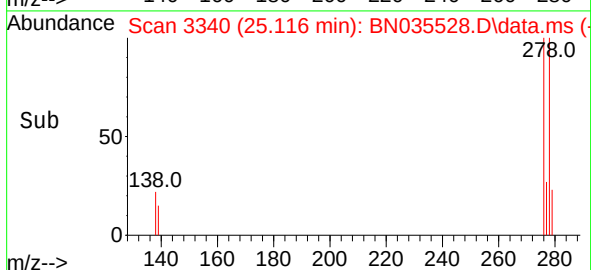
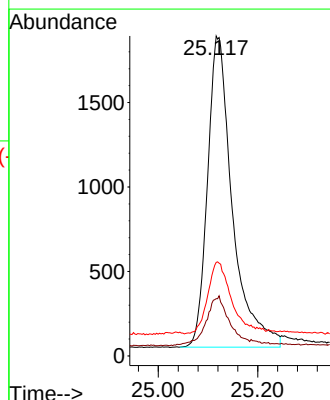
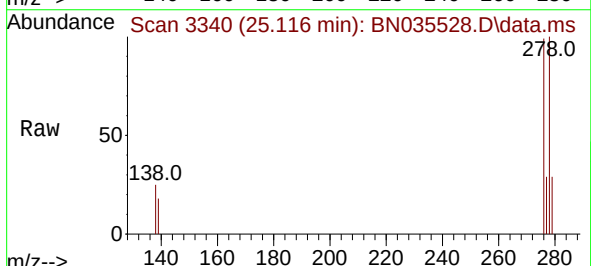
Tgt Ion:278 Resp: 6401

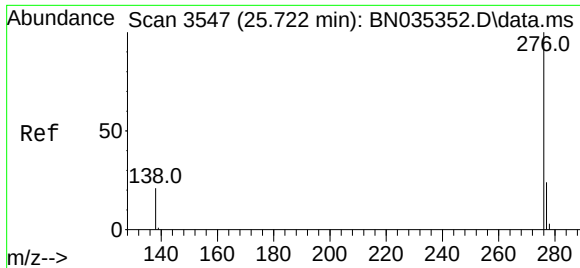
Ion Ratio Lower Upper

278 100

139 17.9 14.2 21.4

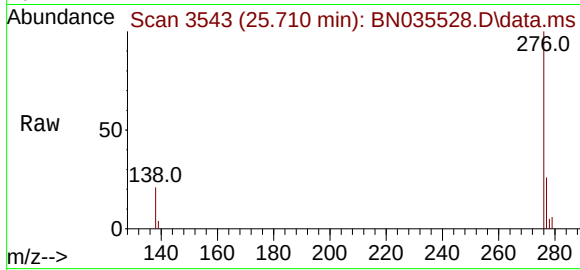
279 29.3 20.5 30.7



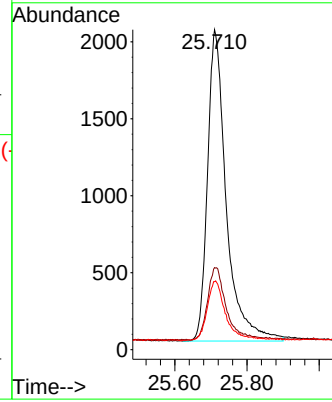
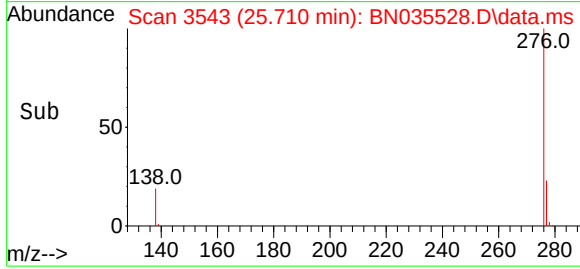


#41
Benzo(g,h,i)perylene
Concen: 0.381 ng
RT: 25.710 min Scan# 30
Delta R.T. -0.012 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS



Tgt Ion:	276	Resp:	7301
Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.3	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035529.D
 Acq On : 10 Dec 2024 12:03
 Operator : RC/JU
 Sample : PB165497BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165497BSD

Quant Time: Dec 10 12:29:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

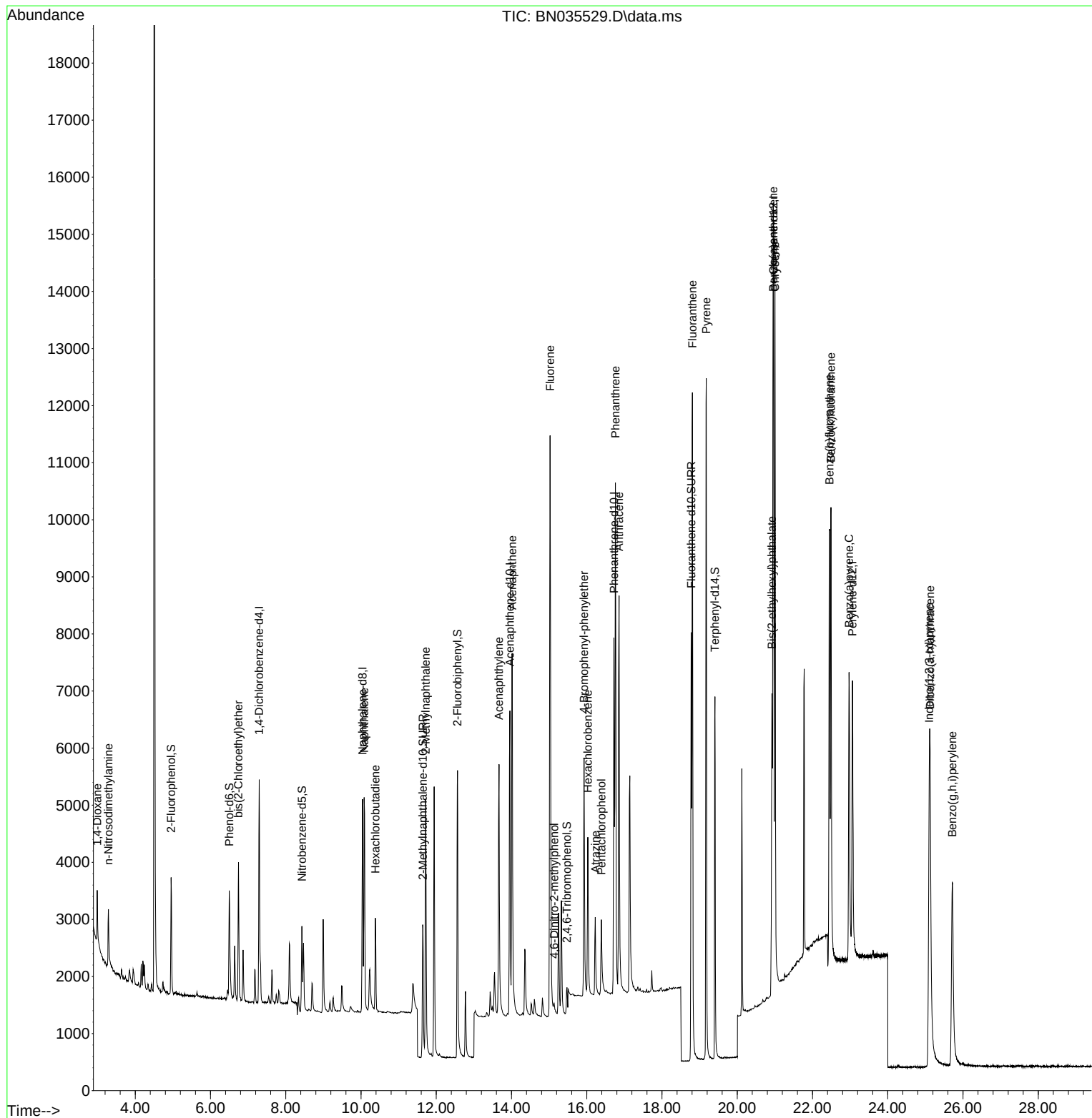
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	1941	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	5150	0.400	ng	#-0.01
13) Acenaphthene-d10	13.957	164	3668	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9298	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7541	0.400	ng	# 0.00
35) Perylene-d12	23.062	264	6738	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1717	0.353	ng	-0.01
5) Phenol-d6	6.499	99	2115	0.362	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1569	0.499	ng	-0.01
11) 2-Methylnaphthalene-d10	11.641	152	4295	0.533	ng	-0.02
14) 2,4,6-Tribromophenol	15.475	330	578	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5507	0.397	ng	-0.01
27) Fluoranthene-d10	18.775	212	9641	0.366	ng	0.00
31) Terphenyl-d14	19.407	244	7098	0.477	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	647	0.349	ng	# 56
3) n-Nitrosodimethylamine	3.285	42	661	0.428	ng	# 94
6) bis(2-Chloroethyl)ether	6.744	93	1900	0.387	ng	99
9) Naphthalene	10.084	128	5241	0.386	ng	99
10) Hexachlorobutadiene	10.383	225	1268	0.405	ng	# 98
12) 2-Methylnaphthalene	11.717	142	3778	0.388	ng	98
16) Acenaphthylene	13.668	152	6063	0.394	ng	99
17) Acenaphthene	14.021	154	4005	0.392	ng	100
18) Fluorene	15.026	166	5751	0.393	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	209	0.229	ng	# 59
21) 4-Bromophenyl-phenylether	15.929	248	2020	0.371	ng	# 83
22) Hexachlorobenzene	16.028	284	2497	0.391	ng	98
23) Atrazine	16.227	200	1417	0.366	ng	95
24) Pentachlorophenol	16.388	266	914	0.329	ng	89
25) Phenanthrene	16.760	178	9843	0.385	ng	100
26) Anthracene	16.860	178	8899	0.385	ng	99
28) Fluoranthene	18.808	202	11483	0.334	ng	98
30) Pyrene	19.175	202	11774	0.423	ng	100
32) Benzo(a)anthracene	20.956	228	10084	0.382	ng	99
33) Chrysene	21.001	228	10858	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	4232	0.406	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	9995	0.379	ng	96
37) Benzo(b)fluoranthene	22.450	252	11361	0.461	ng	98
38) Benzo(k)fluoranthene	22.491	252	10907	0.450	ng	97
39) Benzo(a)pyrene	22.971	252	8432	0.415	ng	97
40) Dibenzo(a,h)anthracene	25.126	278	7420	0.357	ng	96
41) Benzo(g,h,i)perylene	25.713	276	8161	0.376	ng	98

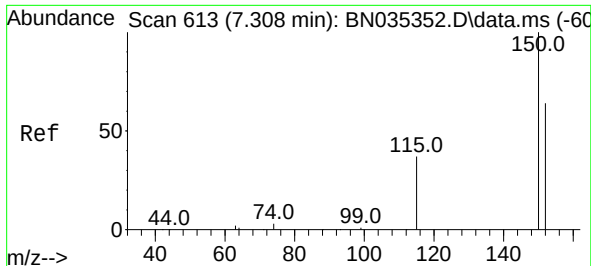
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035529.D
Acq On : 10 Dec 2024 12:03
Operator : RC/JU
Sample : PB165497BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

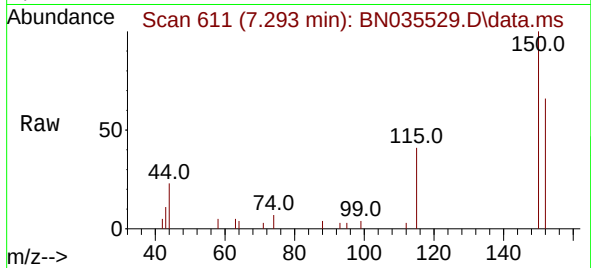
Quant Time: Dec 10 12:29:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



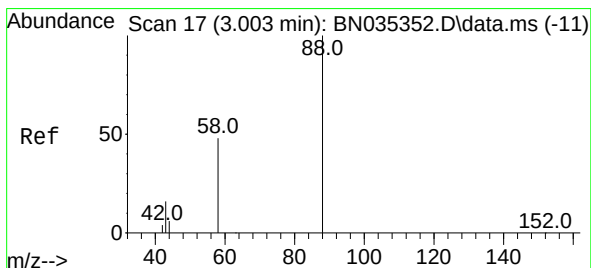
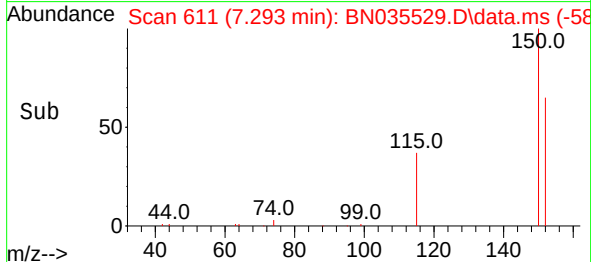
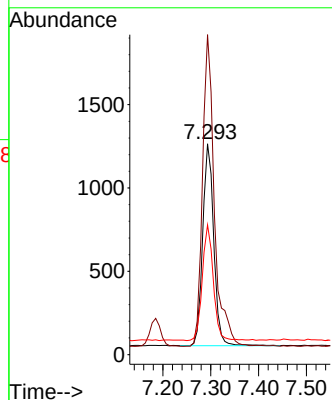


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

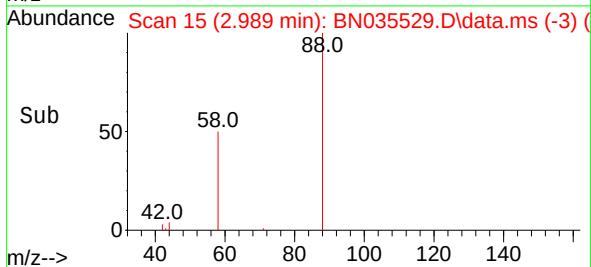
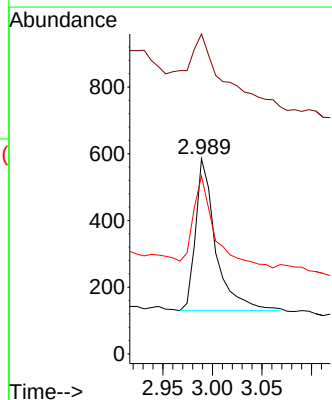
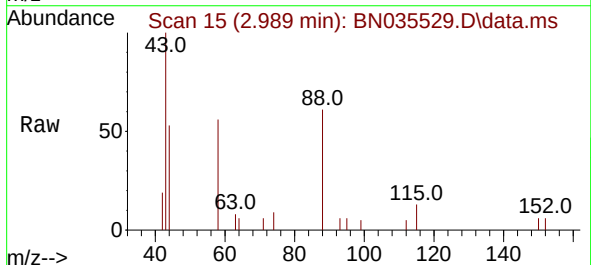


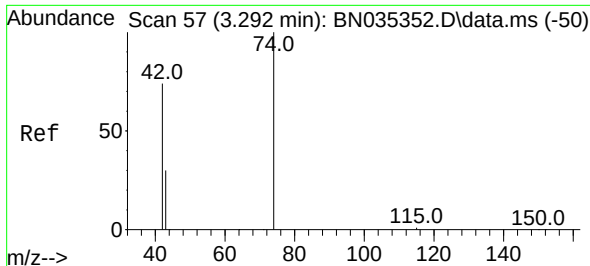
Tgt Ion:152 Resp: 1941
Ion Ratio Lower Upper
152 100
150 151.8 124.0 186.0
115 61.5 49.6 74.4



#2
1,4-Dioxane
Concen: 0.349 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 88 Resp: 647
Ion Ratio Lower Upper
88 100
43 81.6 17.2 25.8#
58 63.8 44.5 66.7

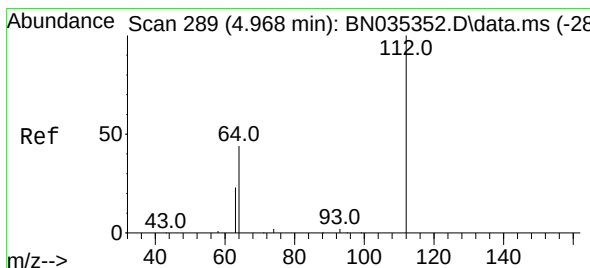
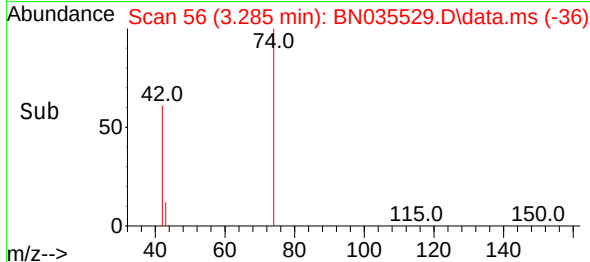
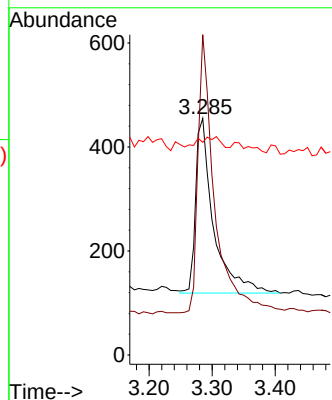
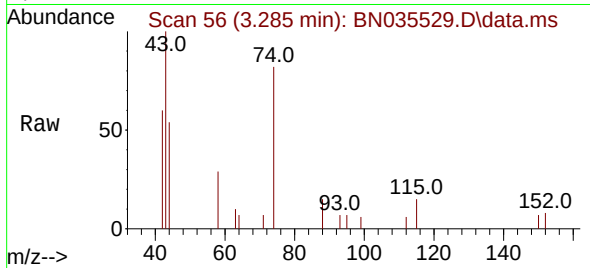




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.285 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

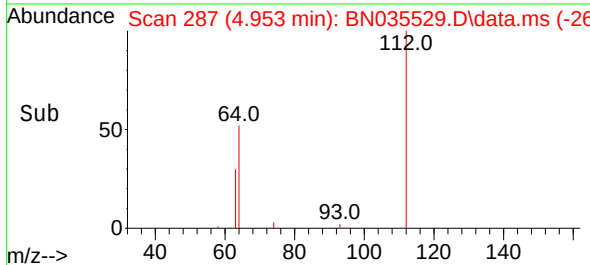
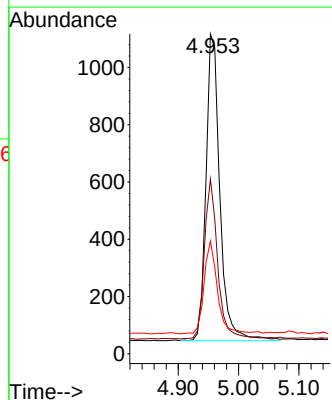
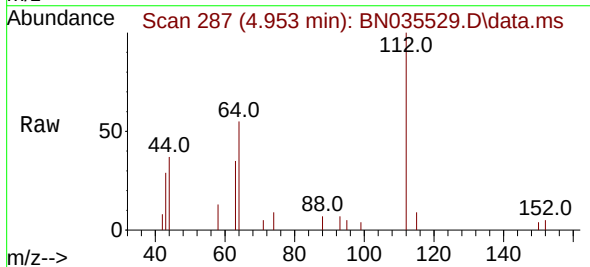
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

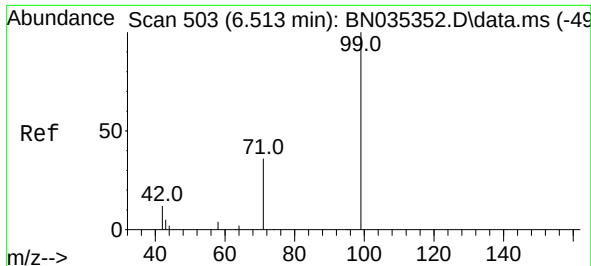
Tgt Ion: 42 Resp: 661
Ion Ratio Lower Upper
42 100
74 148.9 124.9 187.3
44 0.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 112 Resp: 1717
Ion Ratio Lower Upper
112 100
64 50.2 39.8 59.8
63 28.9 21.0 31.6

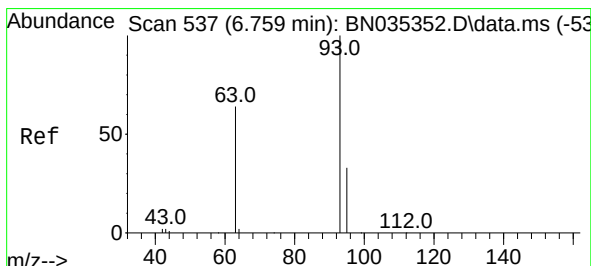
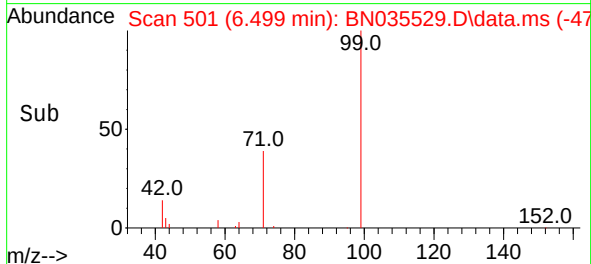
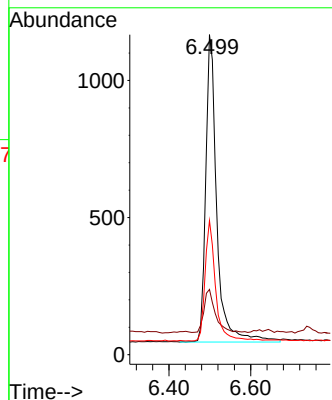
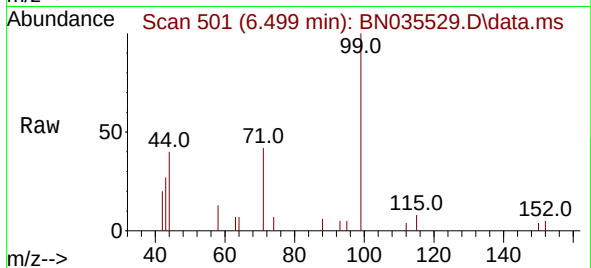




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.499 min Scan# 503
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

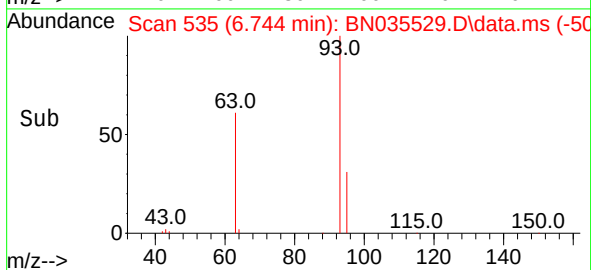
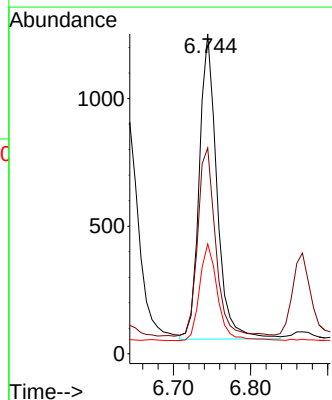
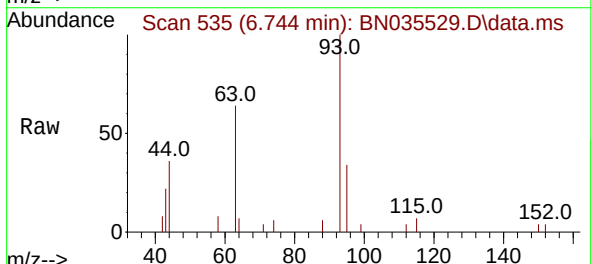
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

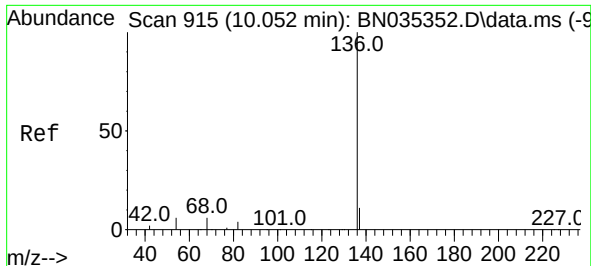
Tgt Ion: 99 Resp: 2115
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.2
71 37.3 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 93 Resp: 1900
Ion Ratio Lower Upper
93 100
63 62.2 50.4 75.6
95 32.2 25.7 38.5

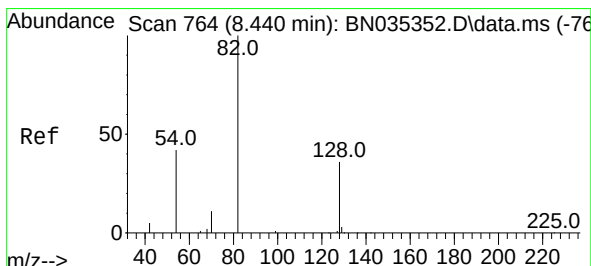
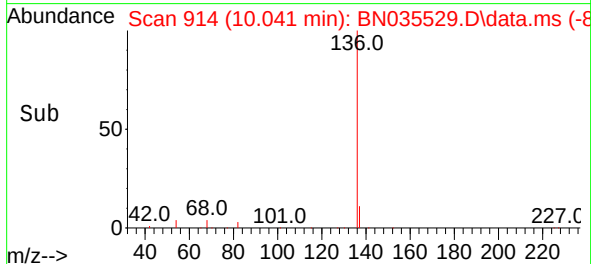
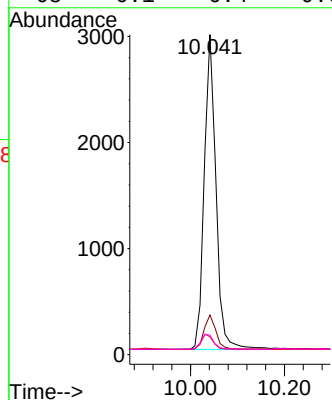
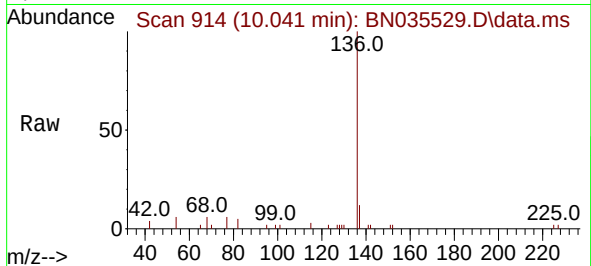




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

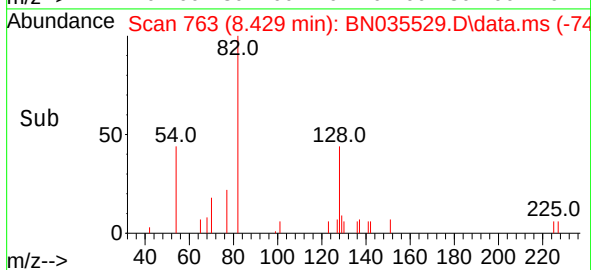
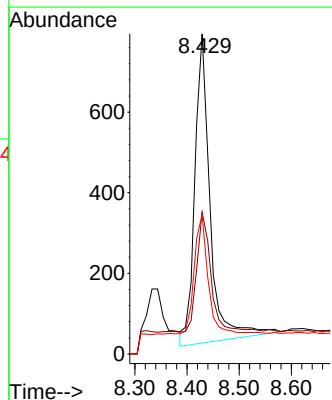
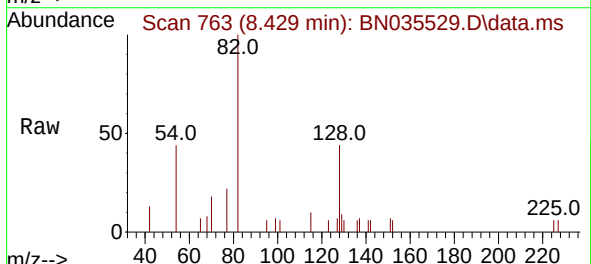
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

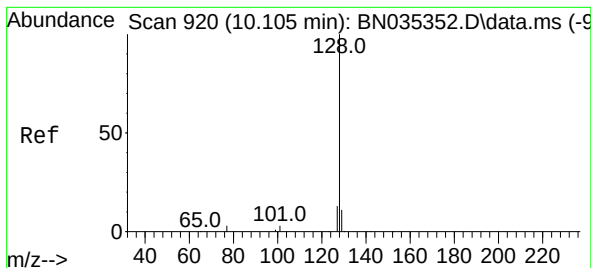
Tgt Ion:136	Resp:	5150
Ion	Ratio	Lower Upper
136	100	
137	12.4	10.2 15.2
54	5.6	6.1 9.1#
68	6.1	6.4 9.6#



#8
Nitrobenzene-d5
Concen: 0.499 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 82	Resp:	1569
Ion	Ratio	Lower Upper
82	100	
128	44.3	33.4 50.0
54	43.6	36.7 55.1





#9

Naphthalene

Concen: 0.386 ng

RT: 10.084 min Scan# 91

Delta R.T. -0.021 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

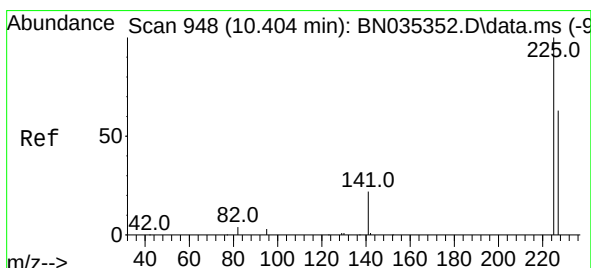
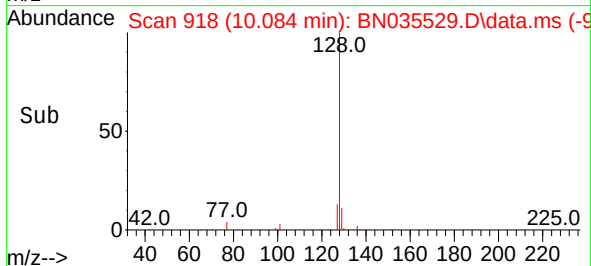
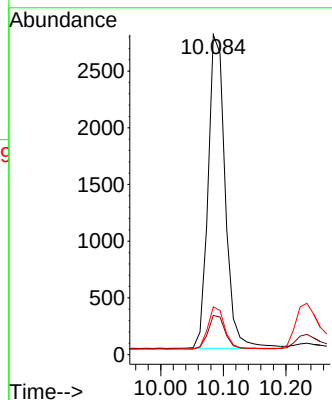
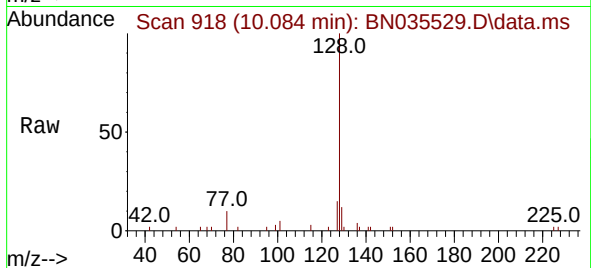
Tgt Ion:128 Resp: 5241

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.9 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.405 ng

RT: 10.383 min Scan# 946

Delta R.T. -0.021 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

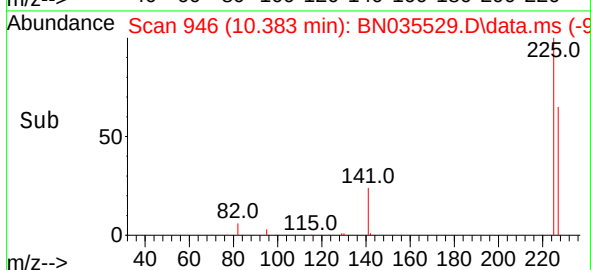
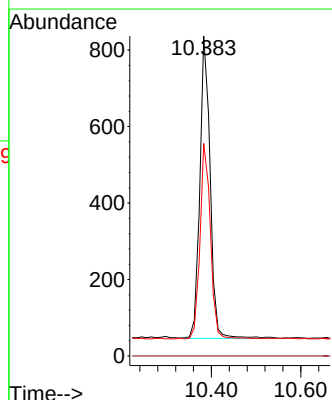
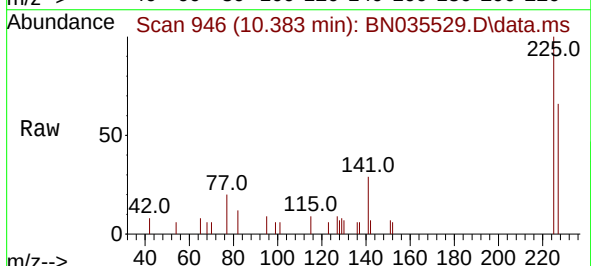
Tgt Ion:225 Resp: 1268

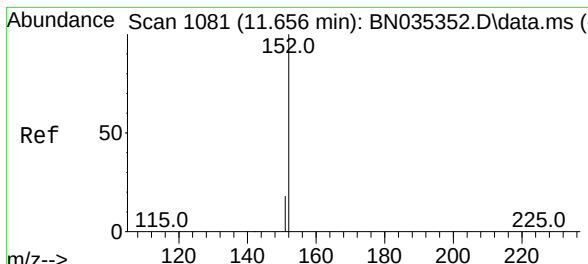
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.3 51.3 76.9

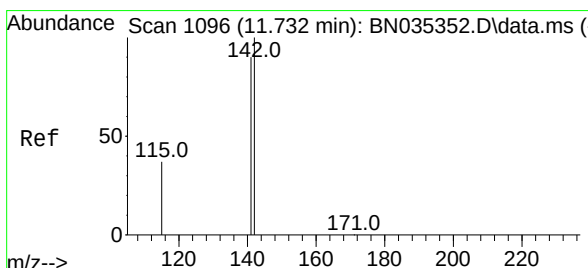
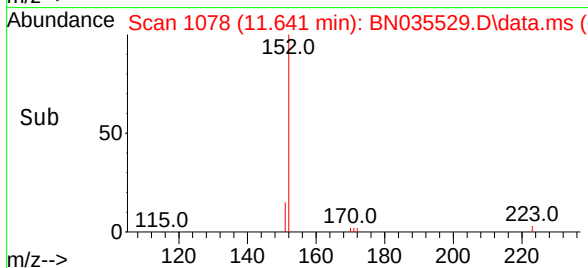
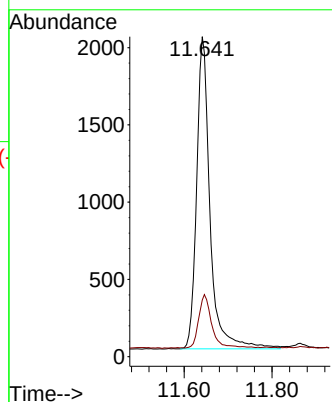
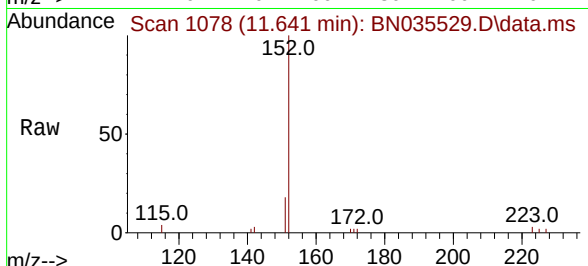




#11
2-Methylnaphthalene-d10
Concen: 0.533 ng
RT: 11.641 min Scan# 1078
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

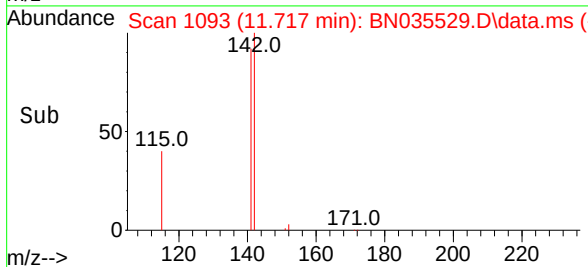
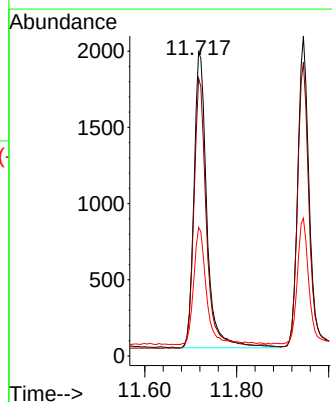
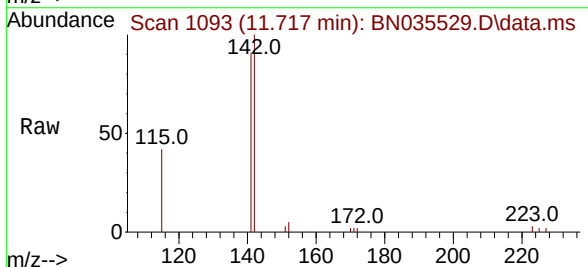
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

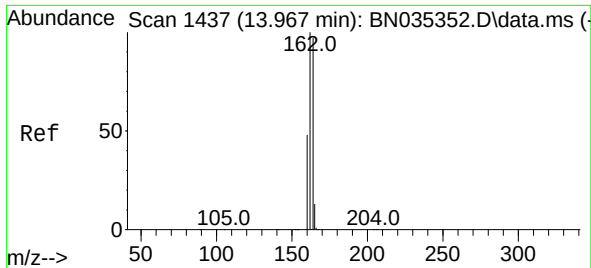
Tgt Ion:152 Resp: 4295
Ion Ratio Lower Upper
152 100
151 16.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:142 Resp: 3778
Ion Ratio Lower Upper
142 100
141 91.4 72.2 108.4
115 42.3 31.4 47.0

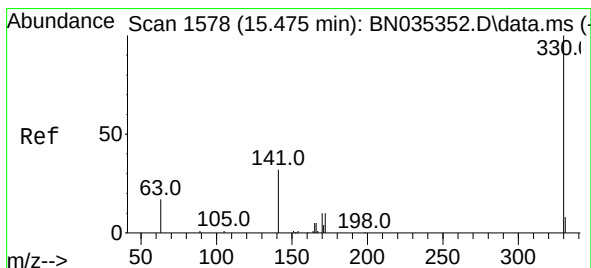
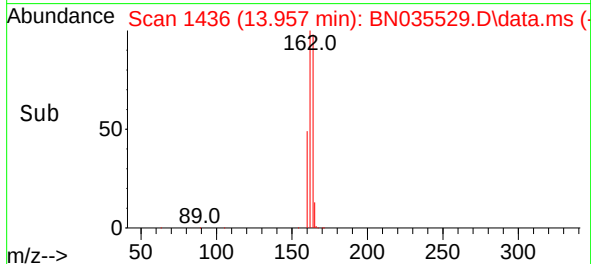
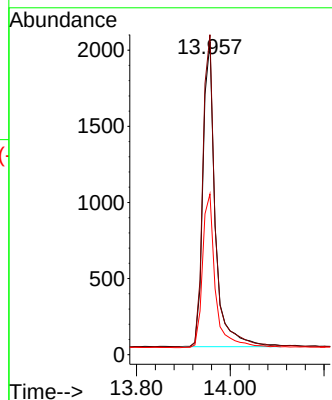
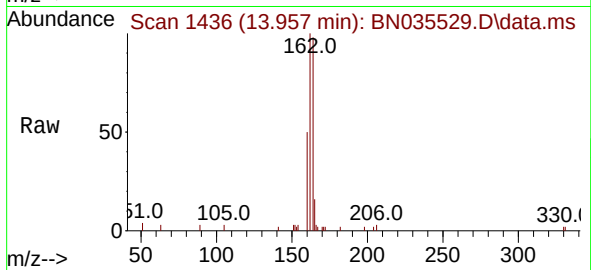




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

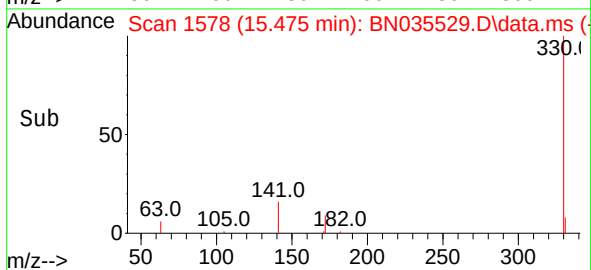
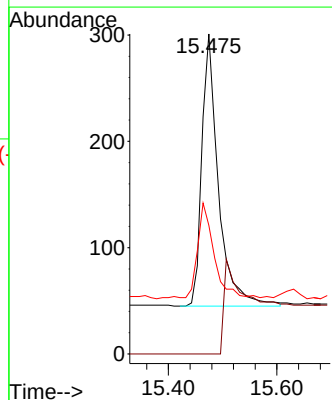
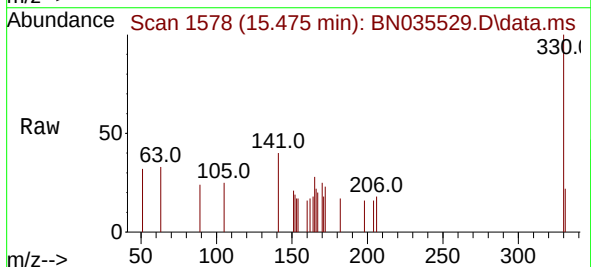
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

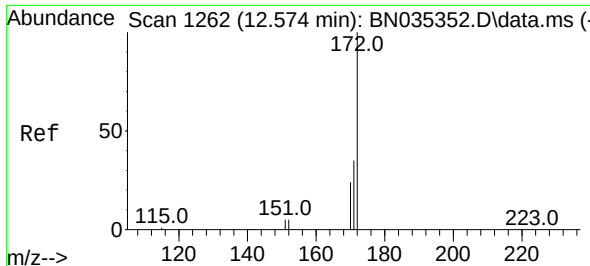
Tgt Ion:164 Resp: 3668
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.3 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:330 Resp: 578
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.9 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.397 ng

RT: 12.564 min Scan# 1409

Delta R.T. -0.010 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

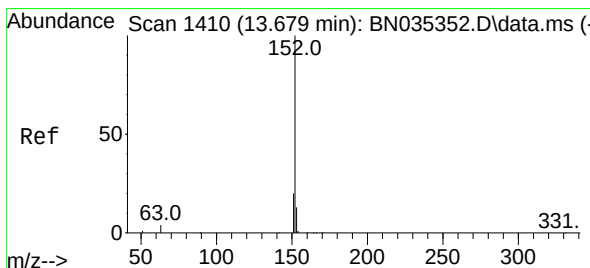
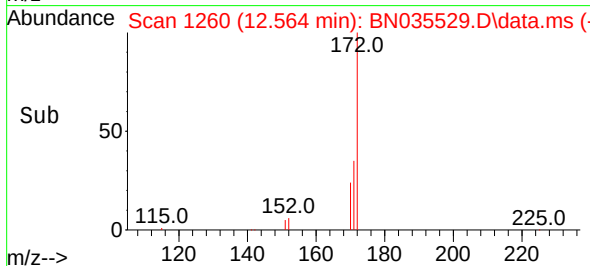
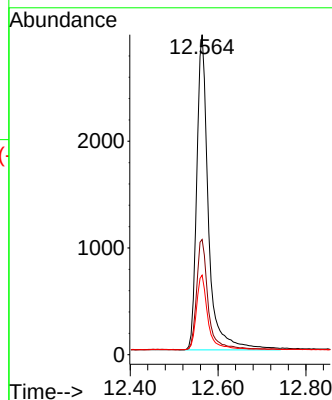
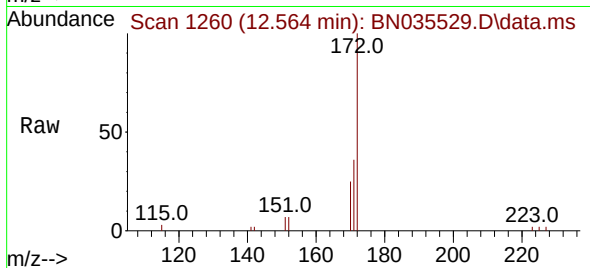
Tgt Ion:172 Resp: 5507

Ion Ratio Lower Upper

172 100

171 36.0 29.0 43.4

170 24.8 19.8 29.8



#16

Acenaphthylene

Concen: 0.394 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

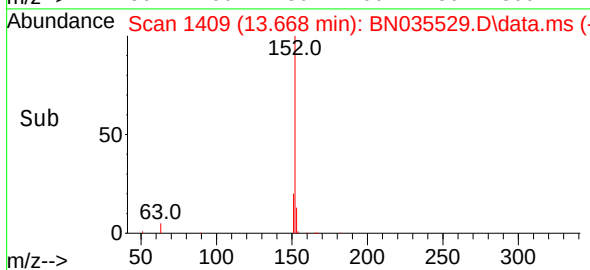
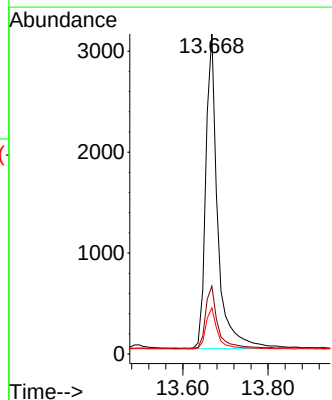
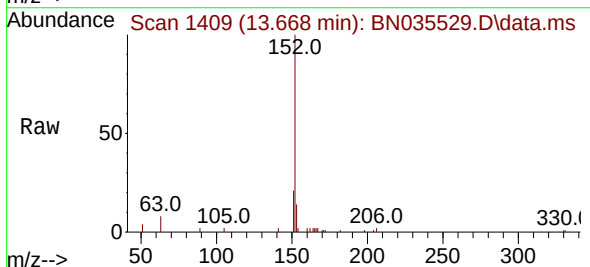
Tgt Ion:152 Resp: 6063

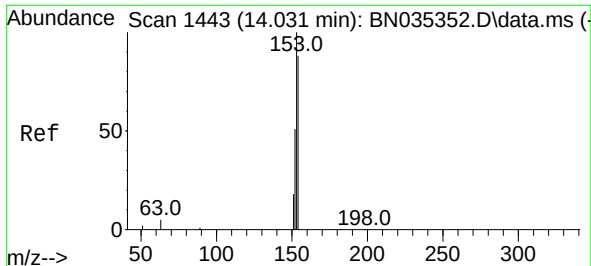
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 13.4 10.4 15.6

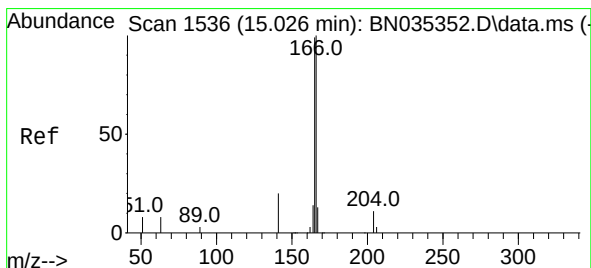
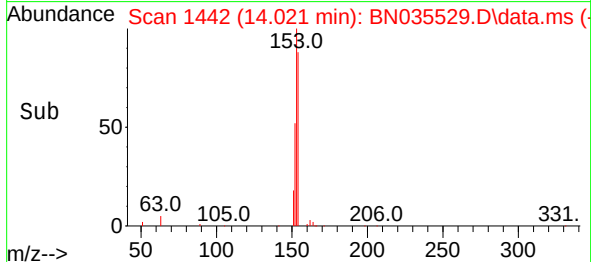
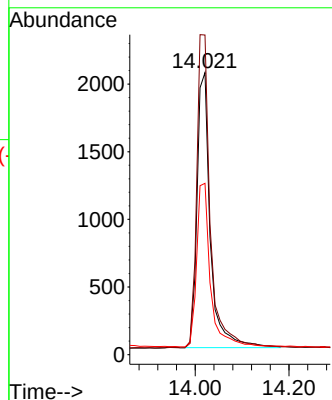
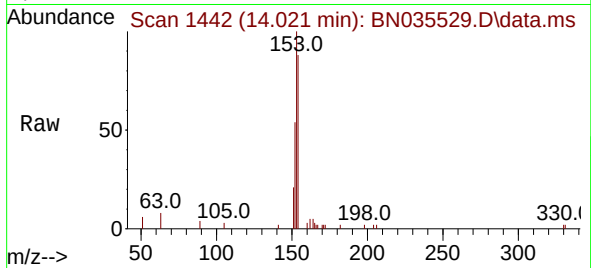




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

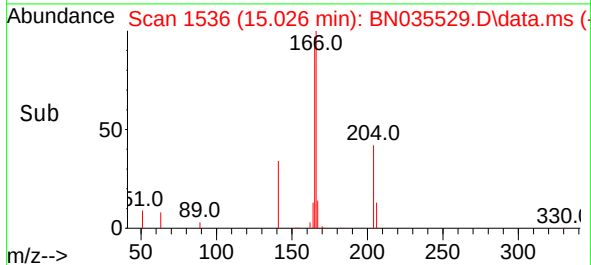
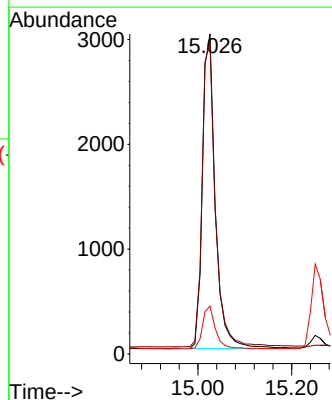
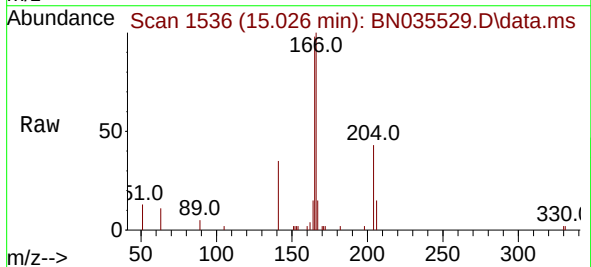
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

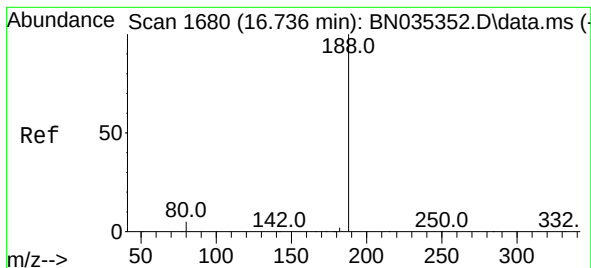
Tgt Ion:154 Resp: 4005
Ion Ratio Lower Upper
154 100
153 116.4 92.6 139.0
152 61.4 49.0 73.6



#18
Fluorene
Concen: 0.393 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:166 Resp: 5751
Ion Ratio Lower Upper
166 100
165 98.6 79.7 119.5
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

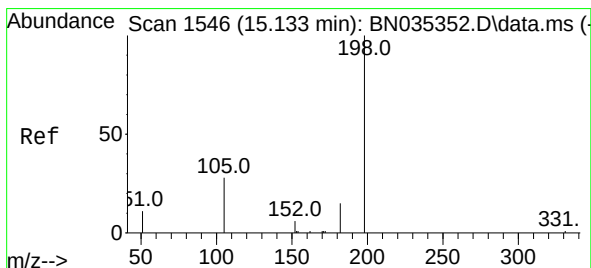
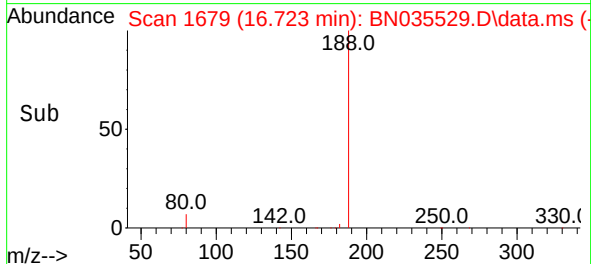
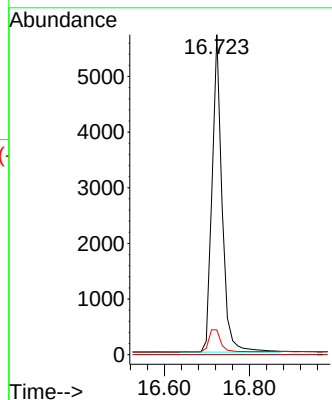
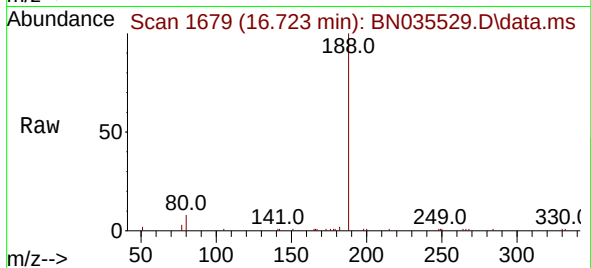
Tgt Ion:188 Resp: 9298

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.229 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

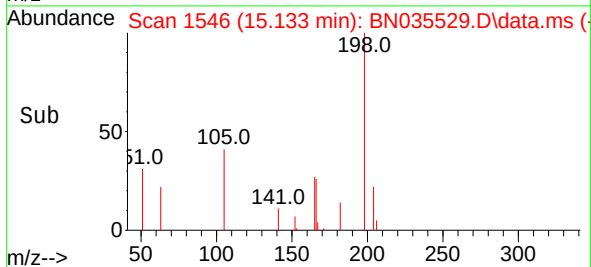
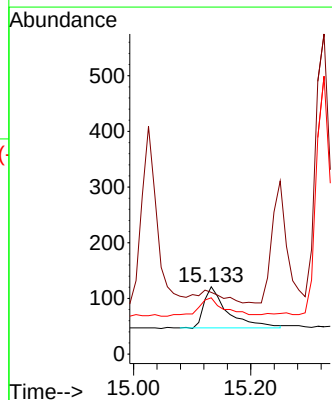
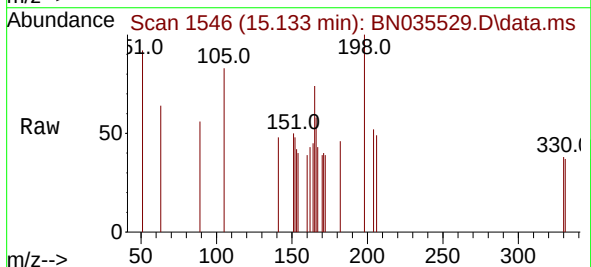
Tgt Ion:198 Resp: 209

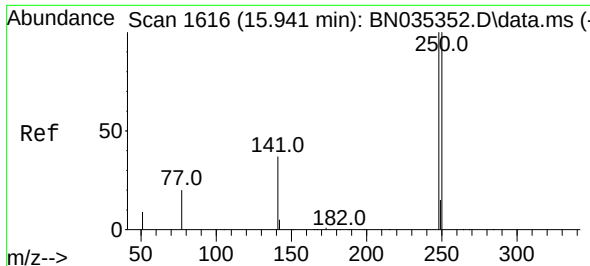
Ion Ratio Lower Upper

198 100

51 91.7 46.5 69.7#

105 83.5 45.3 67.9#

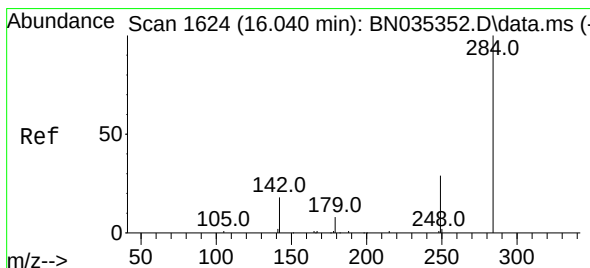
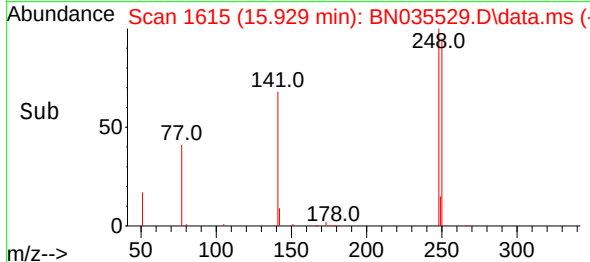
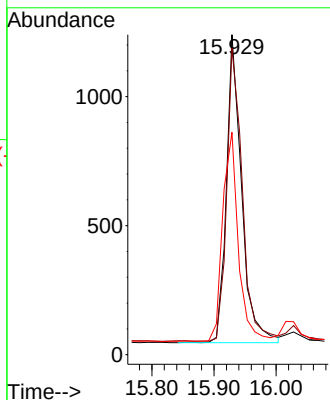
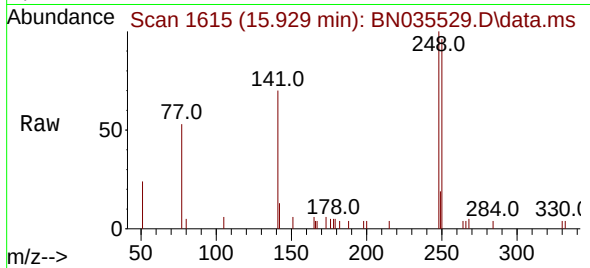




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

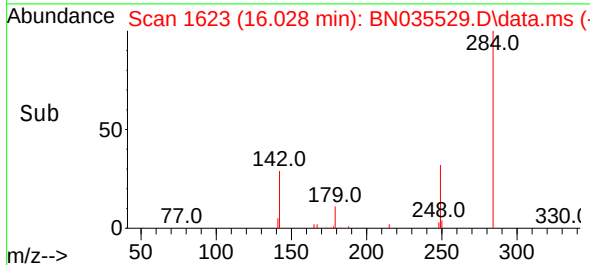
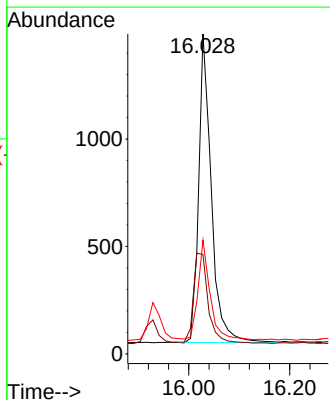
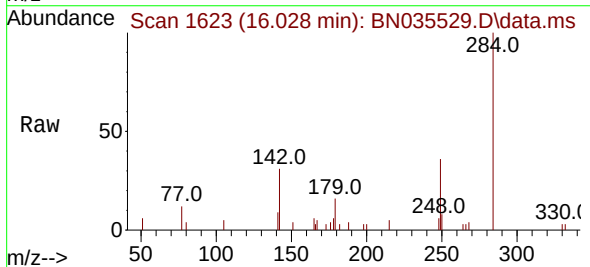
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

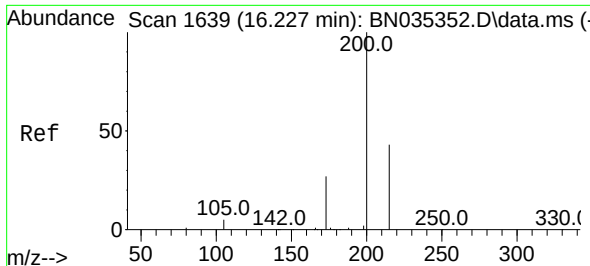
Tgt Ion:248 Resp: 2020
Ion Ratio Lower Upper
248 100
250 95.8 80.6 120.8
141 69.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:284 Resp: 2497
Ion Ratio Lower Upper
284 100
142 34.6 26.7 40.1
249 31.4 24.6 36.8

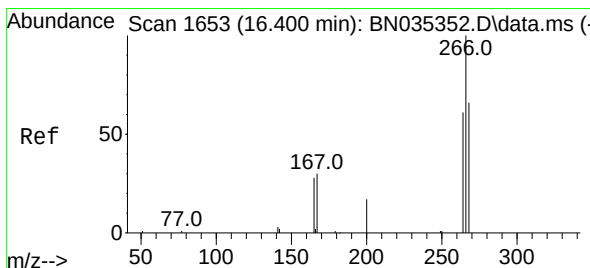
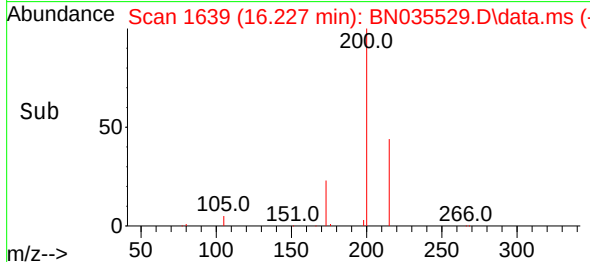
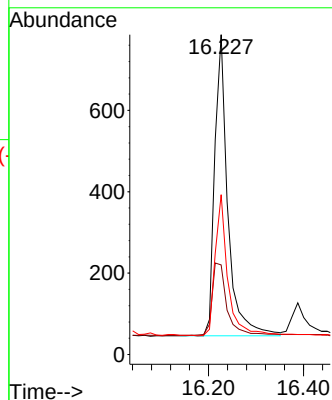
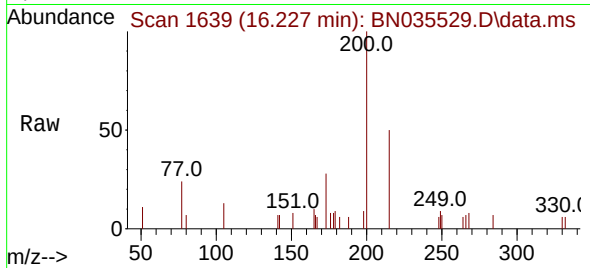




#23
Atrazine
Concen: 0.366 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

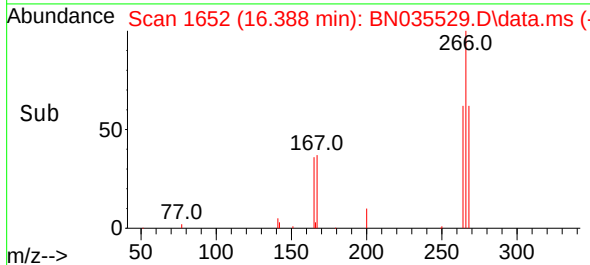
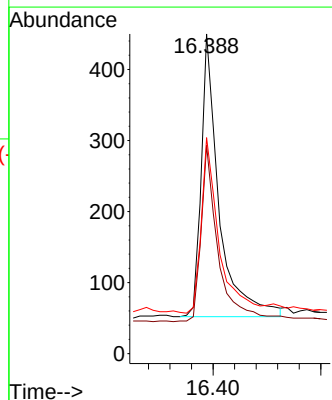
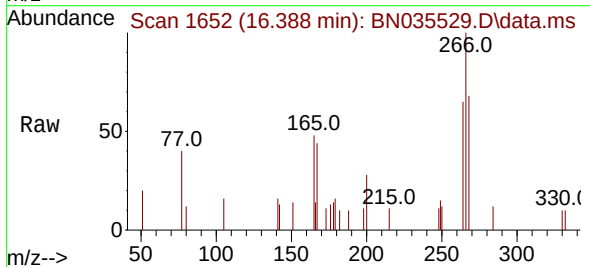
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

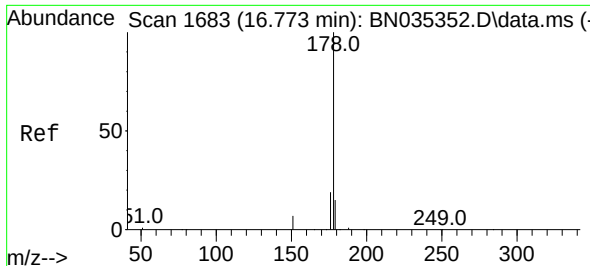
Tgt Ion:200 Resp: 1417
Ion Ratio Lower Upper
200 100
173 28.0 24.1 36.1
215 50.0 36.9 55.3



#24
Pentachlorophenol
Concen: 0.329 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:266 Resp: 914
Ion Ratio Lower Upper
266 100
264 60.9 42.3 63.5
268 61.2 43.3 64.9

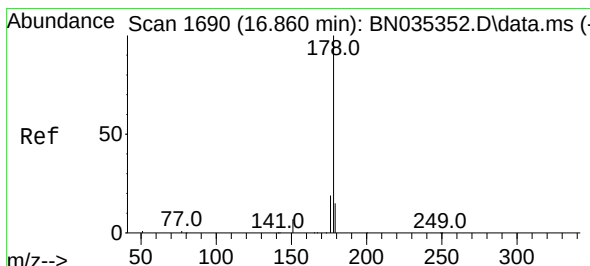
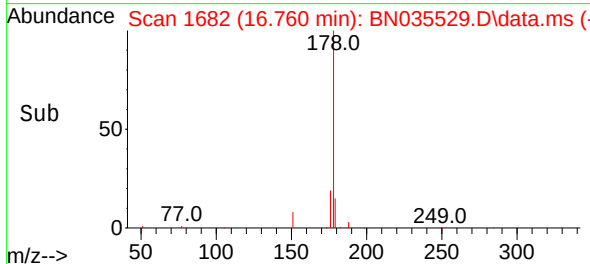
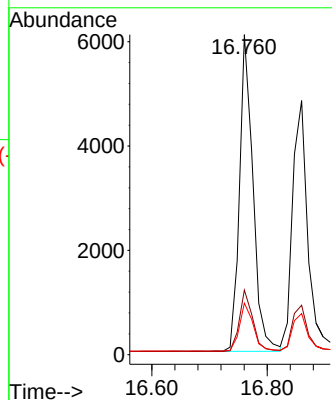
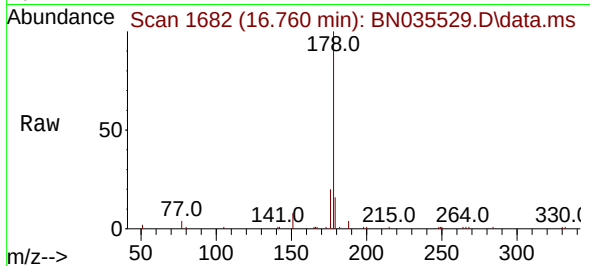




#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

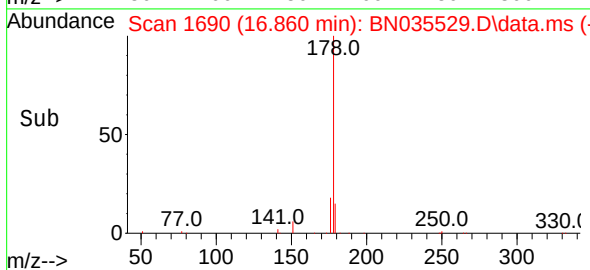
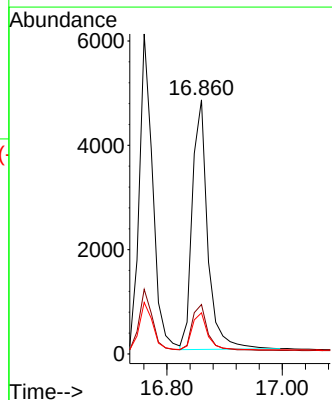
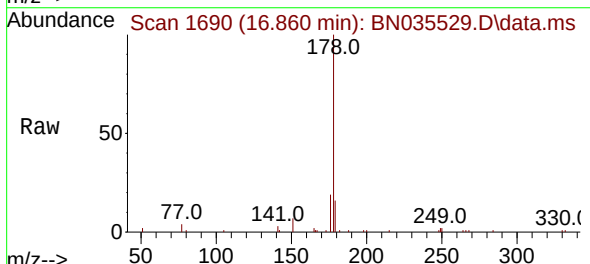
Instrument :
BNA_N
ClientSampleId :
PB165497BSD

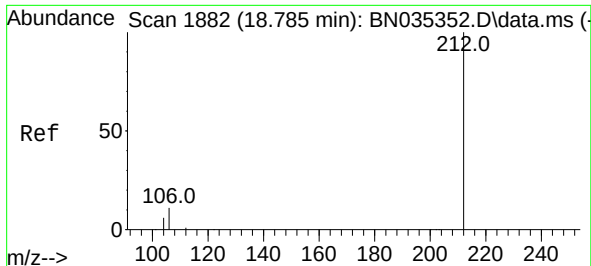
Tgt Ion:178 Resp: 9843
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.385 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:178 Resp: 8899
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.0 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.366 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

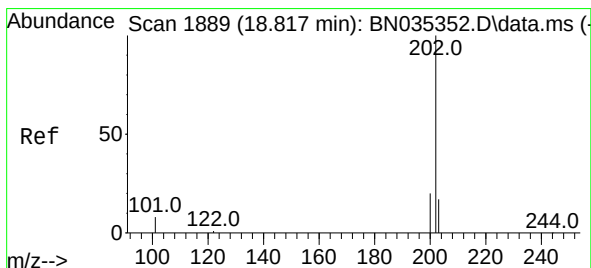
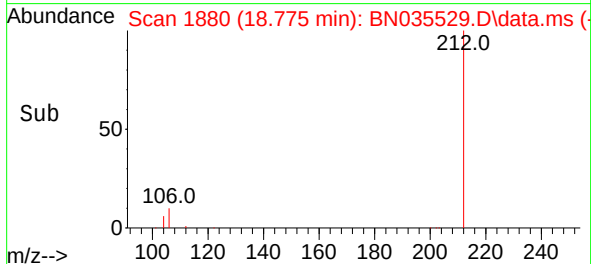
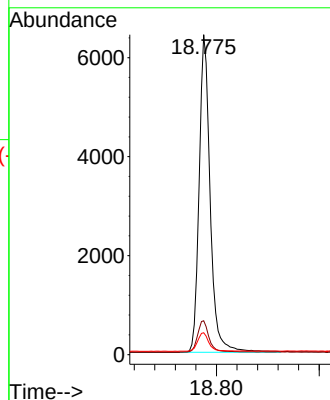
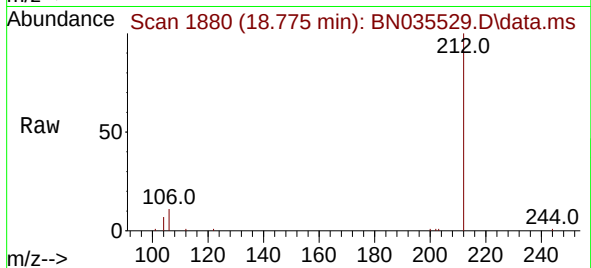
Tgt Ion:212 Resp: 9641

Ion Ratio Lower Upper

212 100

106 10.3 9.2 13.8

104 6.0 5.3 7.9



#28

Fluoranthene

Concen: 0.334 ng

RT: 18.808 min Scan# 1887

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

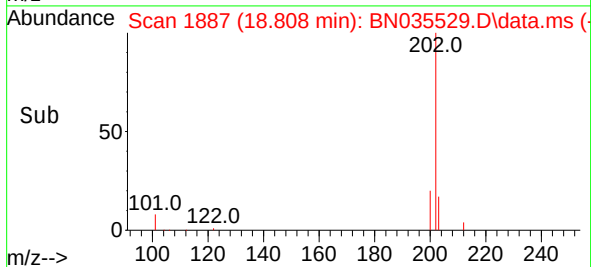
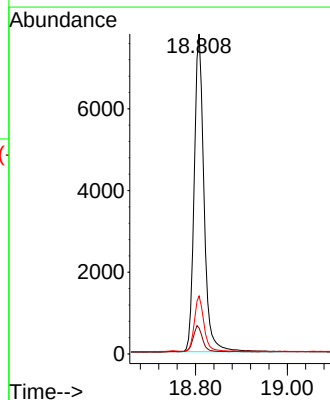
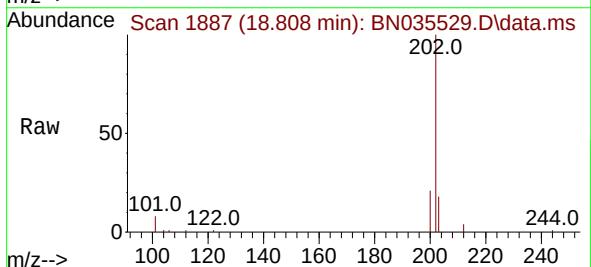
Tgt Ion:202 Resp: 11483

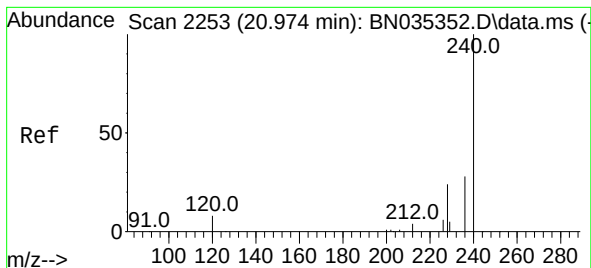
Ion Ratio Lower Upper

202 100

101 7.9 7.4 11.0

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

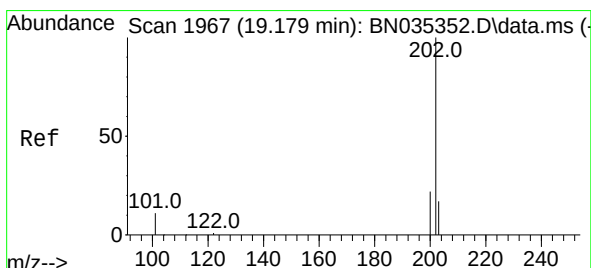
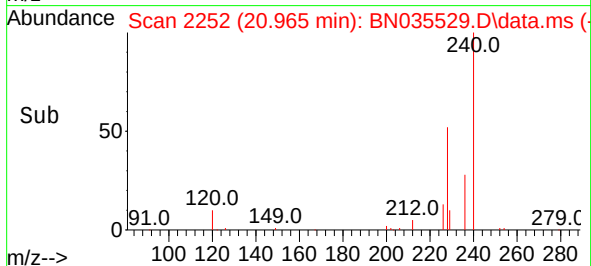
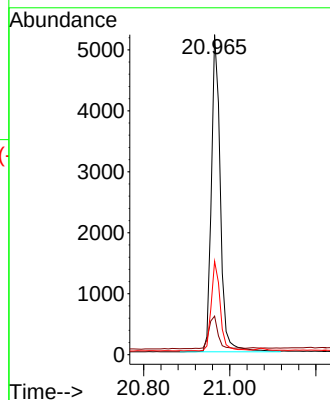
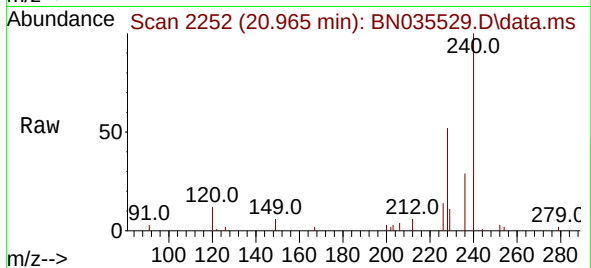
Tgt Ion:240 Resp: 7541

Ion Ratio Lower Upper

240 100

120 12.0 7.9 11.9#

236 29.2 22.9 34.3



#30

Pyrene

Concen: 0.423 ng

RT: 19.175 min Scan# 1966

Delta R.T. -0.005 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

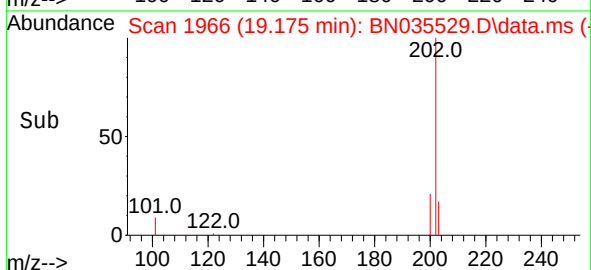
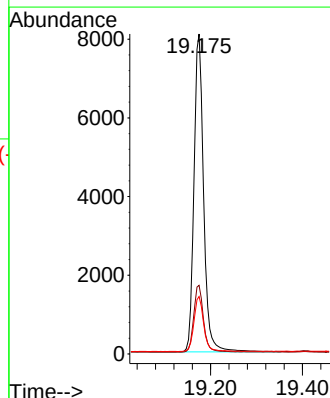
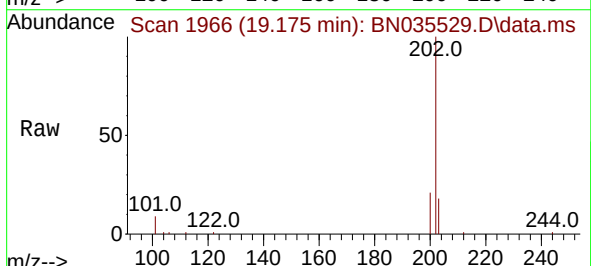
Tgt Ion:202 Resp: 11774

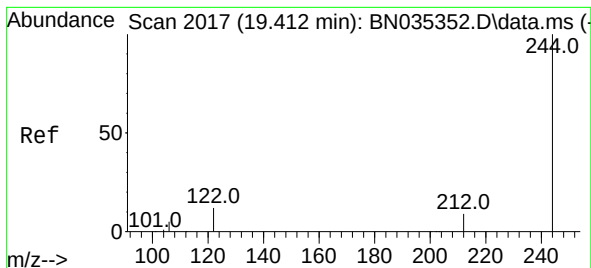
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.5 14.3 21.5





#31

Terphenyl-d14

Concen: 0.477 ng

RT: 19.407 min Scan# 2017

Delta R.T. -0.005 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

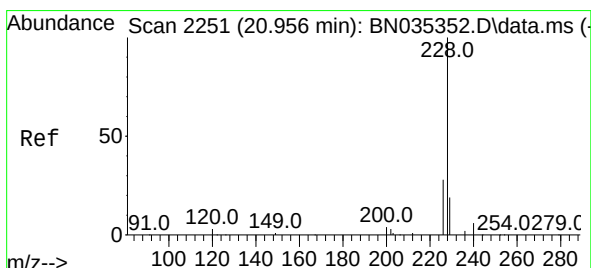
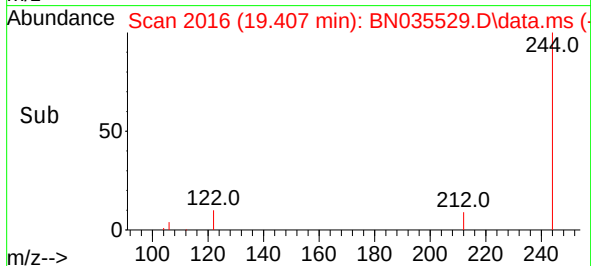
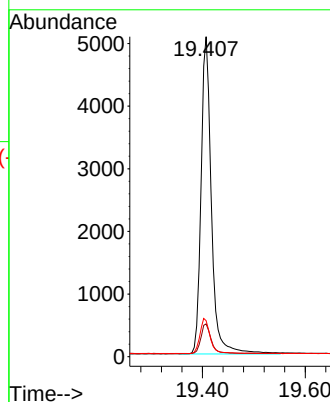
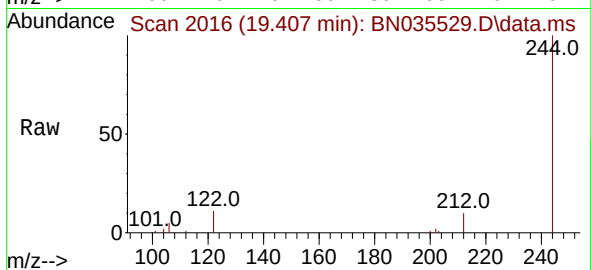
Tgt Ion:244 Resp: 7098

Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 11.2 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.382 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

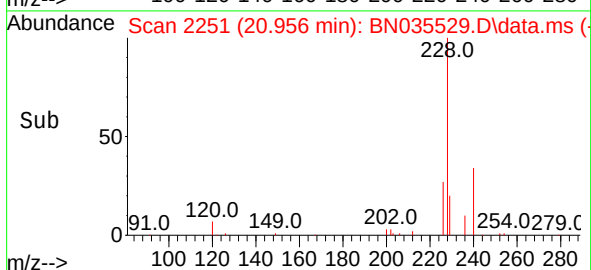
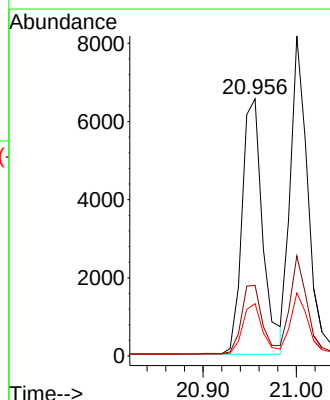
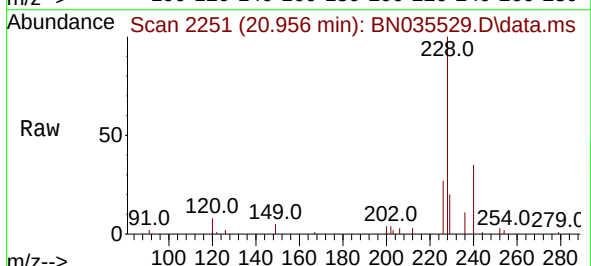
Tgt Ion:228 Resp: 10084

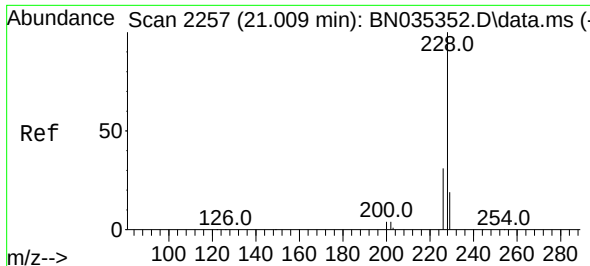
Ion Ratio Lower Upper

228 100

226 27.5 22.5 33.7

229 20.3 15.8 23.8





#33

Chrysene

Concen: 0.399 ng

RT: 21.001 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

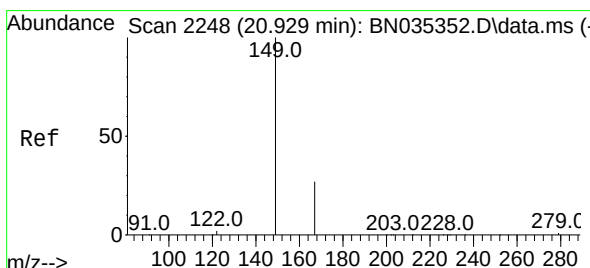
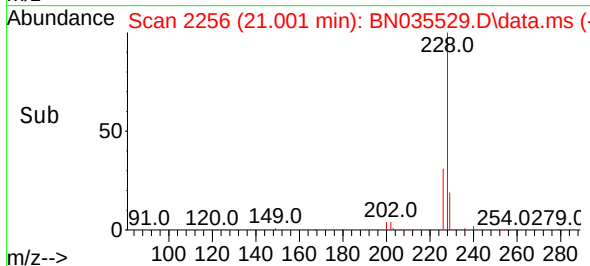
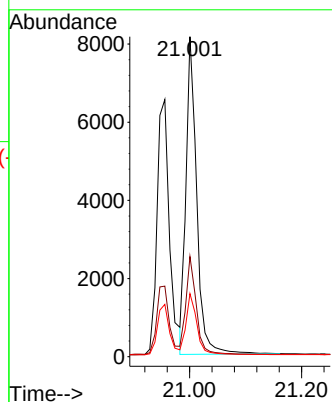
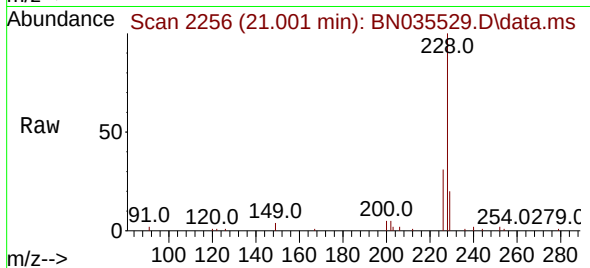
Tgt Ion:228 Resp: 10858

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.7 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.406 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.009 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

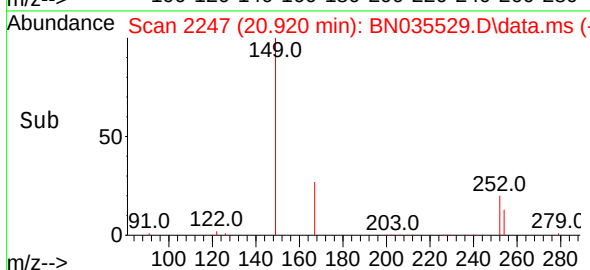
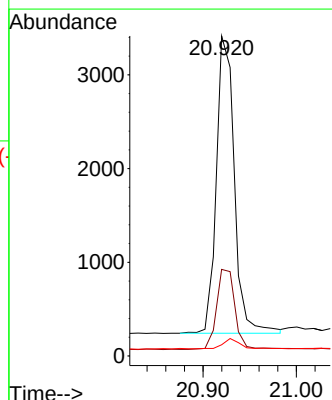
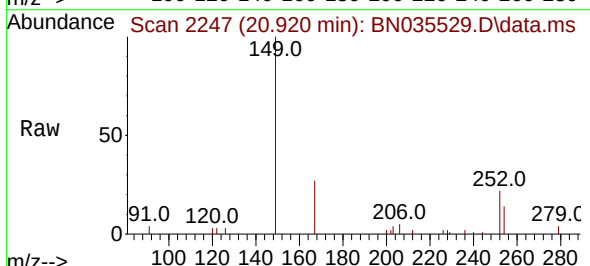
Tgt Ion:149 Resp: 4232

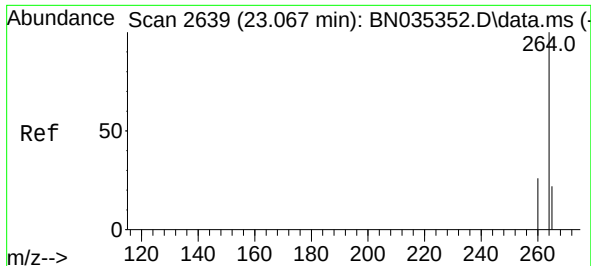
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.2 2.7 4.1

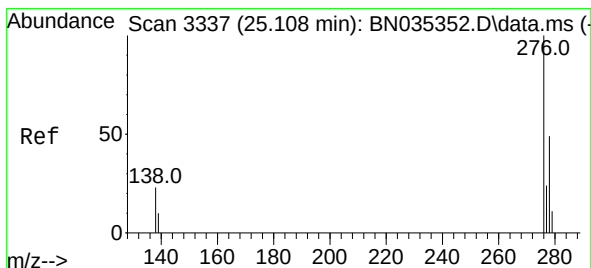
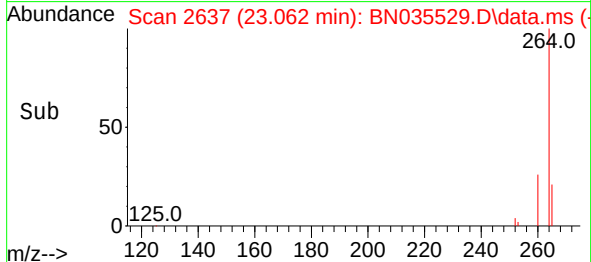
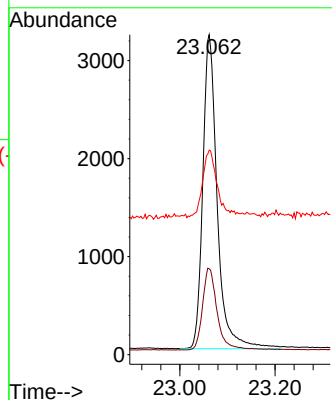
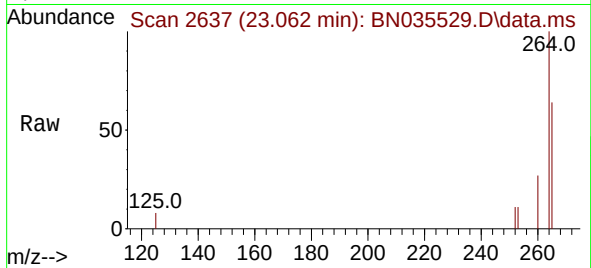




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.062 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN035529.D
 Acq: 10 Dec 2024 12:03

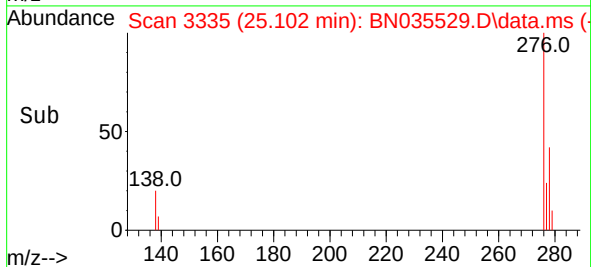
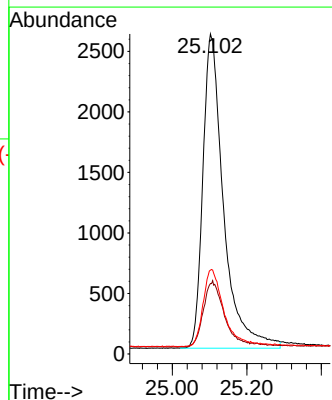
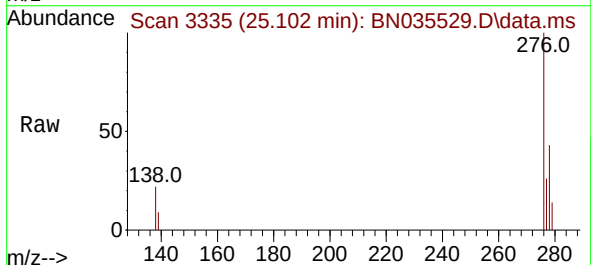
Instrument :
 BNA_N
 ClientSampleId :
 PB165497BSD

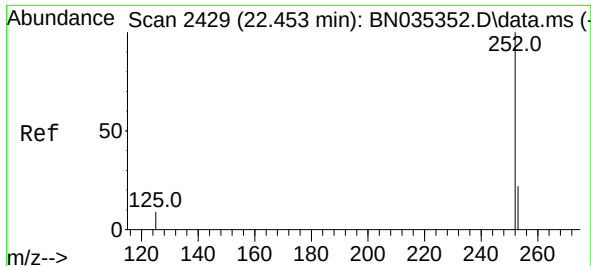
Tgt Ion:264 Resp: 6738
 Ion Ratio Lower Upper
 264 100
 260 26.8 21.4 32.2
 265 63.9 40.2 60.4#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.379 ng
 RT: 25.102 min Scan# 3335
 Delta R.T. -0.006 min
 Lab File: BN035529.D
 Acq: 10 Dec 2024 12:03

Tgt Ion:276 Resp: 9995
 Ion Ratio Lower Upper
 276 100
 138 20.8 19.4 29.0
 277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.461 ng

RT: 22.450 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

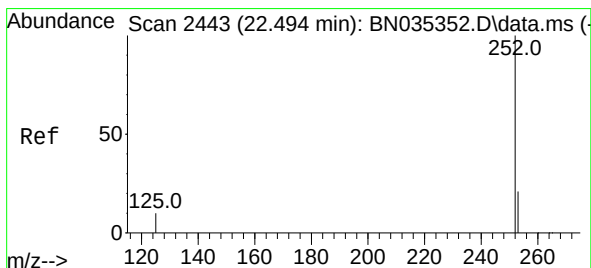
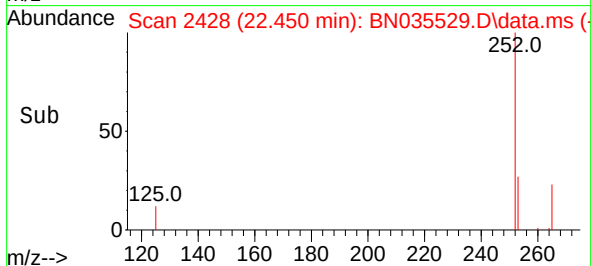
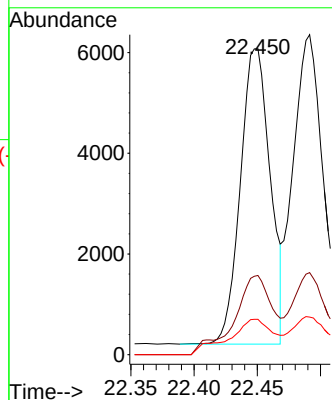
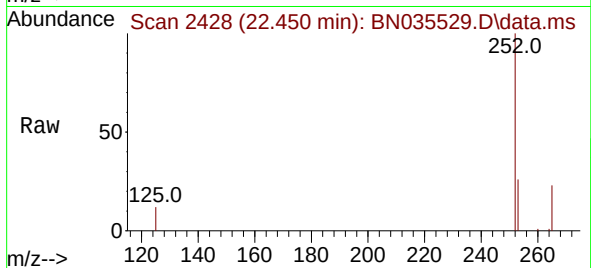
Tgt Ion:252 Resp: 11361

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.450 ng

RT: 22.491 min Scan# 2442

Delta R.T. -0.003 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

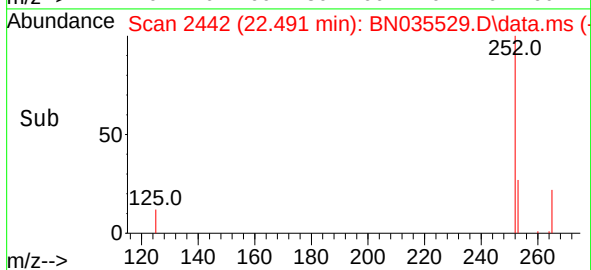
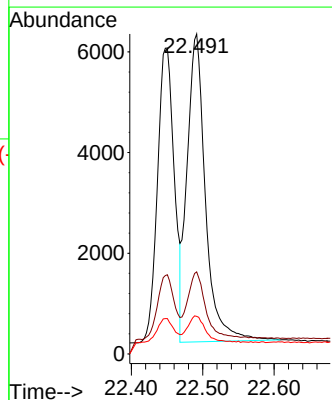
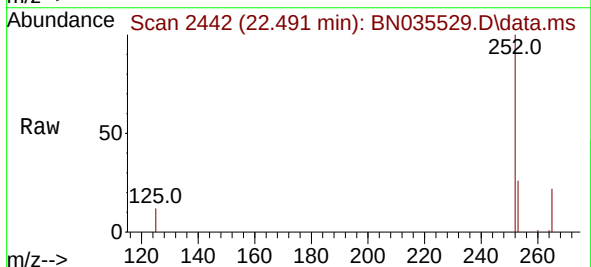
Tgt Ion:252 Resp: 10907

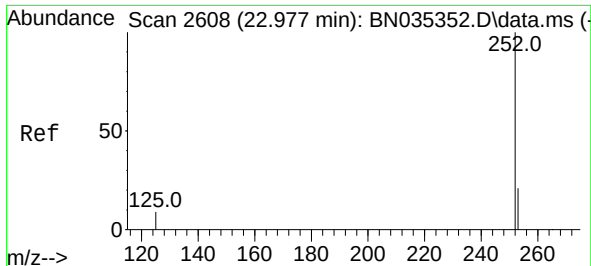
Ion Ratio Lower Upper

252 100

253 25.6 19.5 29.3

125 11.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.415 ng

RT: 22.971 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD

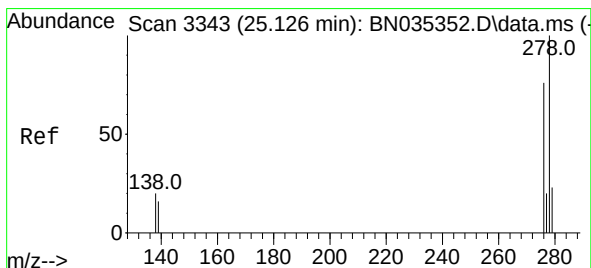
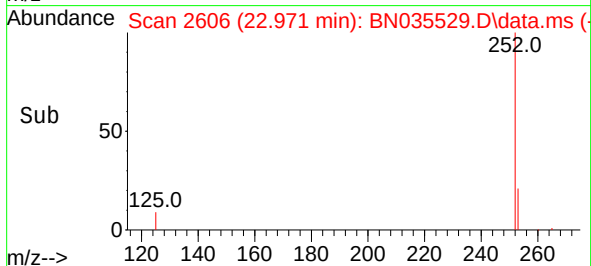
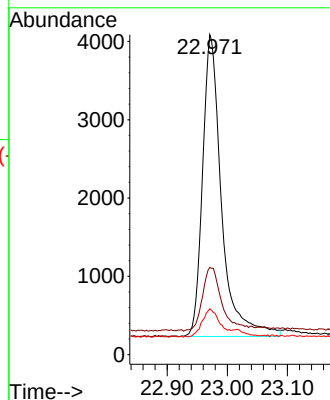
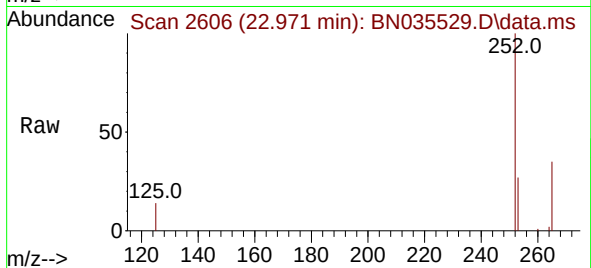
Tgt Ion:252 Resp: 8432

Ion Ratio Lower Upper

252 100

253 27.2 20.2 30.4

125 14.3 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035529.D

Acq: 10 Dec 2024 12:03

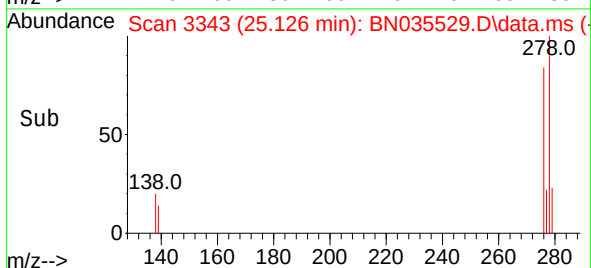
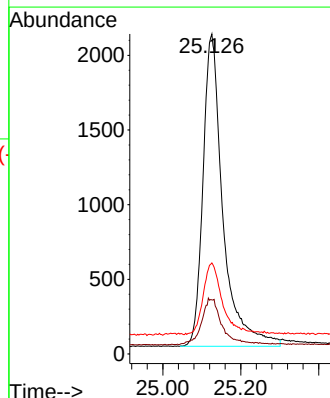
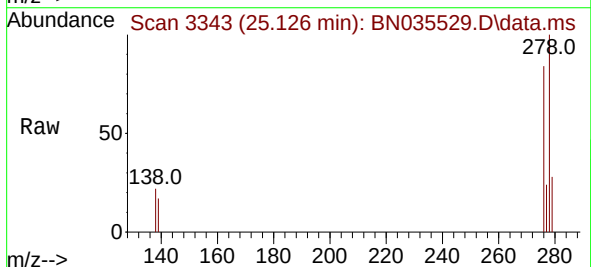
Tgt Ion:278 Resp: 7420

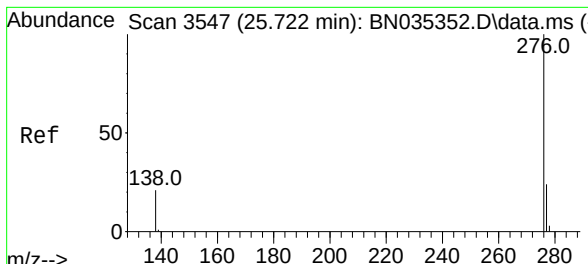
Ion Ratio Lower Upper

278 100

139 16.9 14.2 21.4

279 28.5 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.376 ng

RT: 25.713 min Scan# 30

Delta R.T. -0.009 min

Lab File: BN035529.D

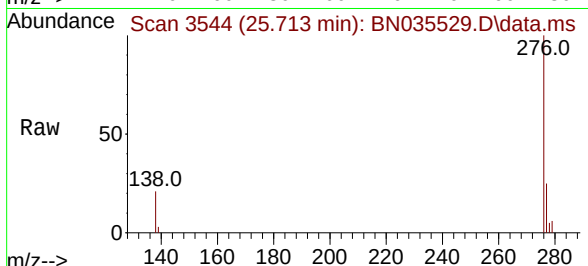
Acq: 10 Dec 2024 12:03

Instrument :

BNA_N

ClientSampleId :

PB165497BSD



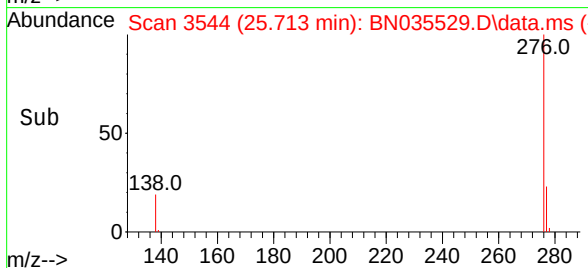
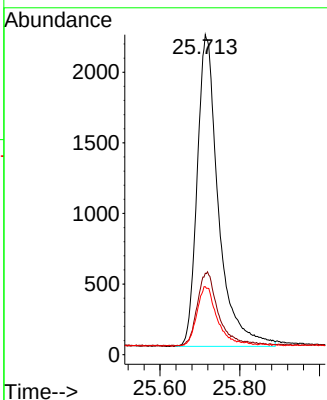
Tgt Ion:276 Resp: 8161

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

138 21.2 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
 Data File : BN035530.D
 Acq On : 10 Dec 2024 12:40
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 10 13:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

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

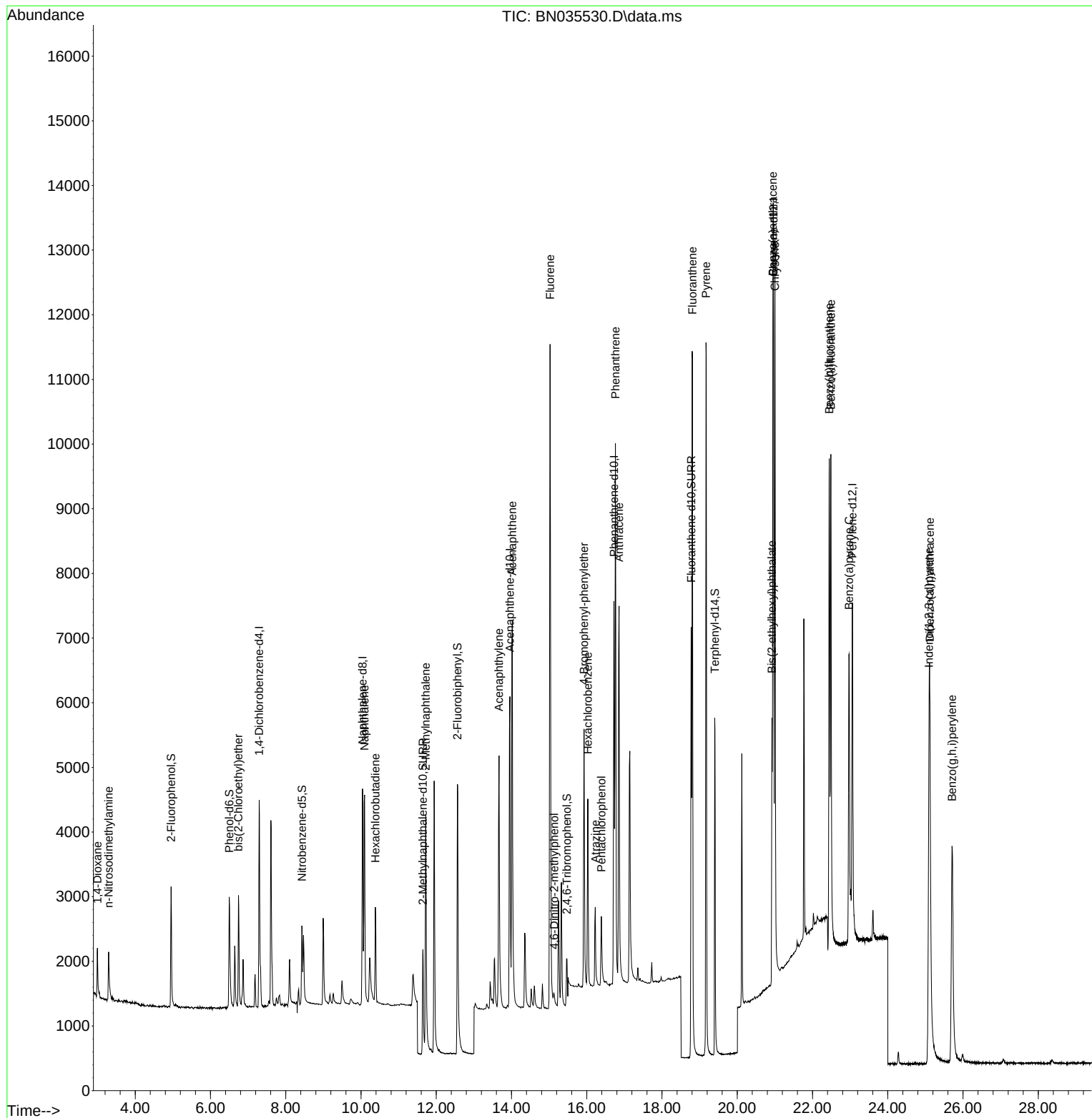
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	1649	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	4653	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3559	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8829	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7037	0.400	ng	0.00
35) Perylene-d12	23.059	264	6876	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1627	0.394	ng	-0.01
5) Phenol-d6	6.499	99	1989	0.401	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1397	0.492	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2835	0.389	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	899	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5182	0.385	ng	-0.01
27) Fluoranthene-d10	18.775	212	8270	0.330	ng	0.00
31) Terphenyl-d14	19.402	244	5792	0.417	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	622	0.395	ng	97
3) n-Nitrosodimethylamine	3.292	42	529	0.403	ng	# 94
6) bis(2-Chloroethyl)ether	6.744	93	1499	0.359	ng	99
9) Naphthalene	10.095	128	4751	0.387	ng	99
10) Hexachlorobutadiene	10.383	225	1177	0.416	ng	# 99
12) 2-Methylnaphthalene	11.722	142	3358	0.382	ng	97
16) Acenaphthylene	13.668	152	5536	0.370	ng	99
17) Acenaphthene	14.021	154	3879	0.391	ng	98
18) Fluorene	15.026	166	5544	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	246	0.283	ng	# 71
21) 4-Bromophenyl-phenylether	15.929	248	1928	0.373	ng	# 86
22) Hexachlorobenzene	16.028	284	2468	0.407	ng	100
23) Atrazine	16.227	200	1287	0.350	ng	95
24) Pentachlorophenol	16.388	266	713	0.270	ng	# 84
25) Phenanthrene	16.760	178	9191	0.379	ng	100
26) Anthracene	16.860	178	7969	0.363	ng	100
28) Fluoranthene	18.808	202	10852	0.332	ng	99
30) Pyrene	19.170	202	11027	0.425	ng	100
32) Benzo(a)anthracene	20.947	228	8623	0.350	ng	99
33) Chrysene	21.001	228	10141	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3712	0.382	ng	99
36) Indeno(1,2,3-cd)pyrene	25.096	276	9828	0.366	ng	97
37) Benzo(b)fluoranthene	22.445	252	12398	0.493	ng	98
38) Benzo(k)fluoranthene	22.488	252	10500	0.424	ng	96
39) Benzo(a)pyrene	22.968	252	7505	0.362	ng	96
40) Dibenzo(a,h)anthracene	25.117	278	7400	0.349	ng	96
41) Benzo(g,h,i)perylene	25.707	276	8233	0.371	ng	99

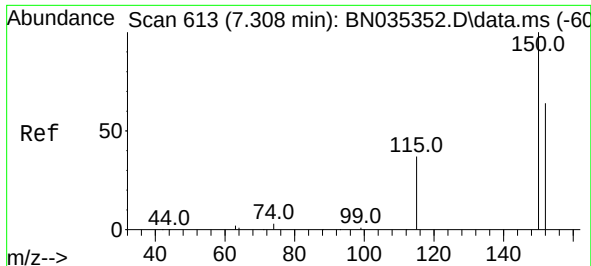
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

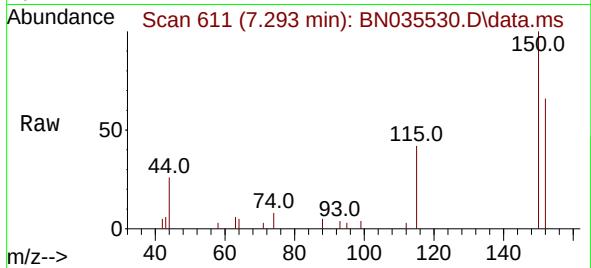
Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



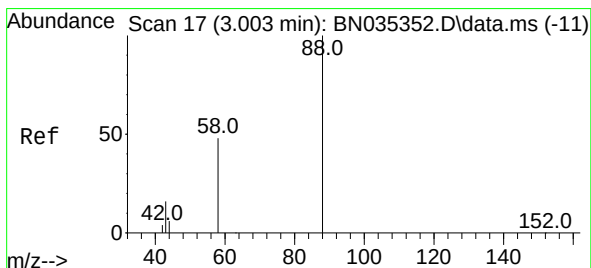
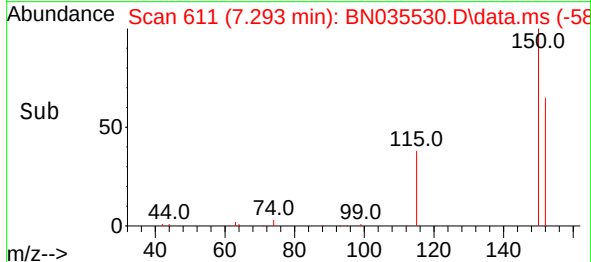
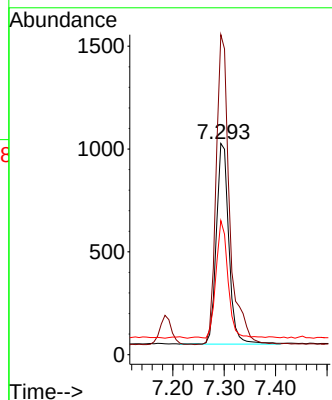


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

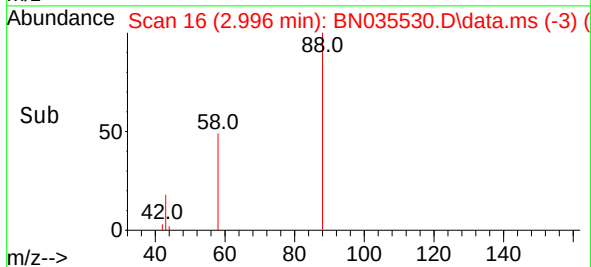
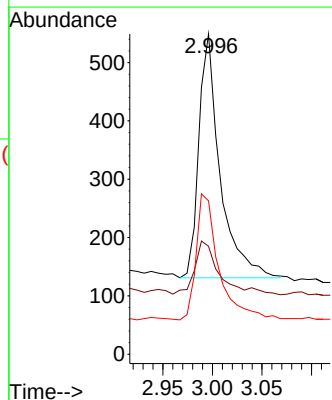
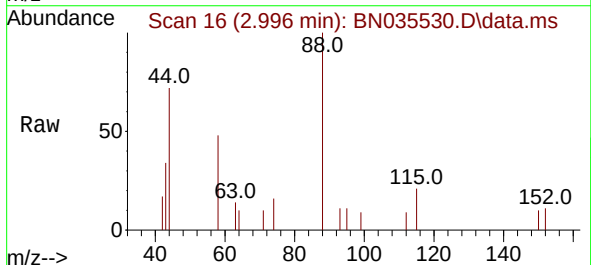


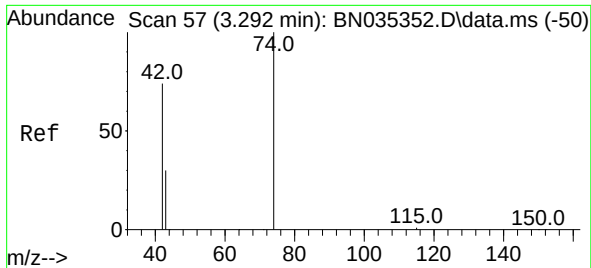
Tgt Ion:152 Resp: 1649
Ion Ratio Lower Upper
152 100
150 151.5 124.0 186.0
115 63.5 49.6 74.4



#2
1,4-Dioxane
Concen: 0.395 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 88 Resp: 622
Ion Ratio Lower Upper
88 100
43 25.7 17.2 25.8
58 55.3 44.5 66.7

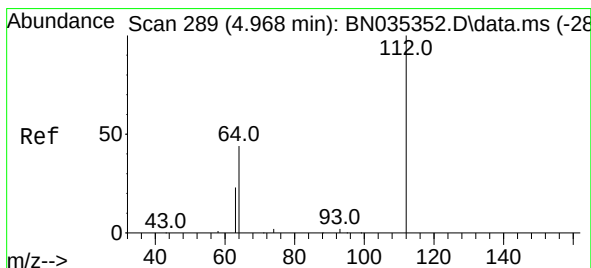
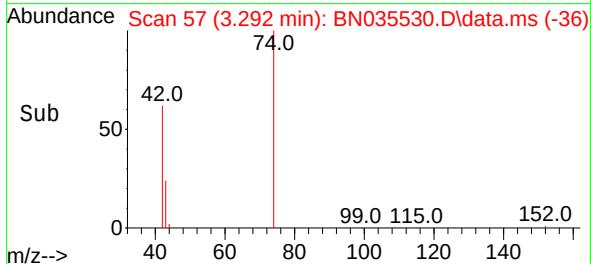
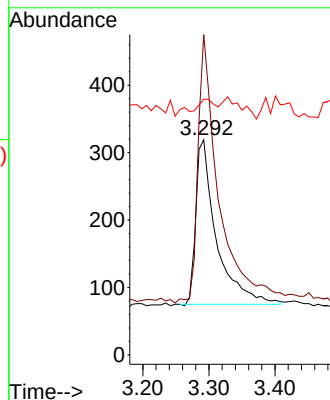
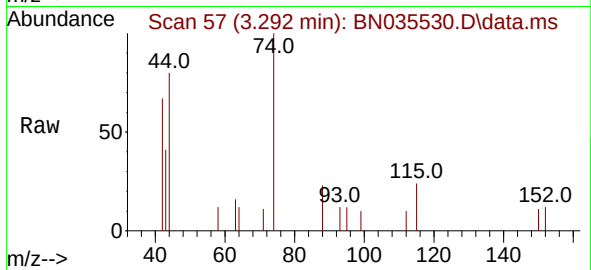




#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

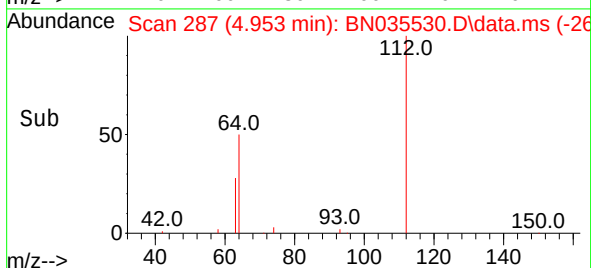
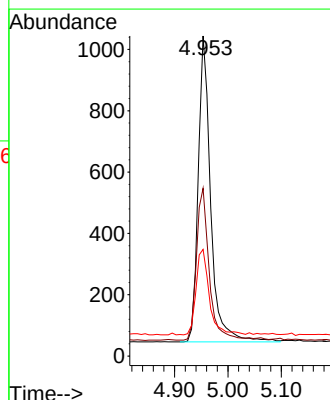
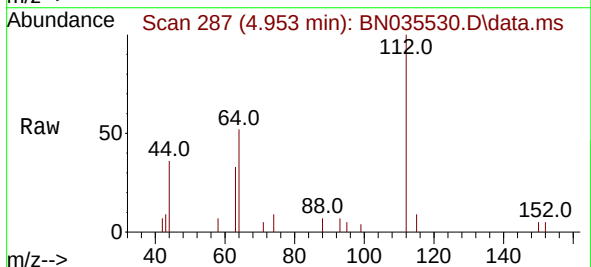
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

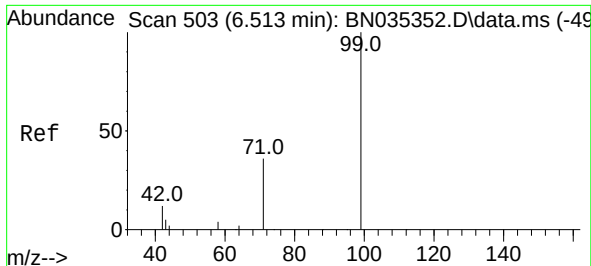
Tgt Ion: 42 Resp: 529
Ion Ratio Lower Upper
42 100
74 163.7 124.9 187.3
44 5.3 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 112 Resp: 1627
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 29.6 21.0 31.6

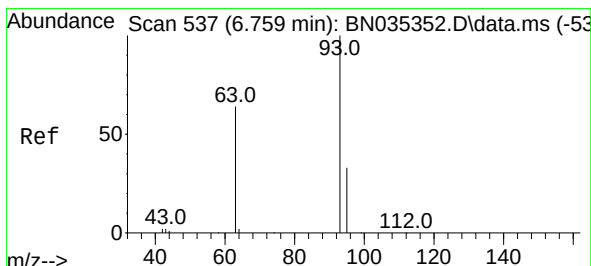
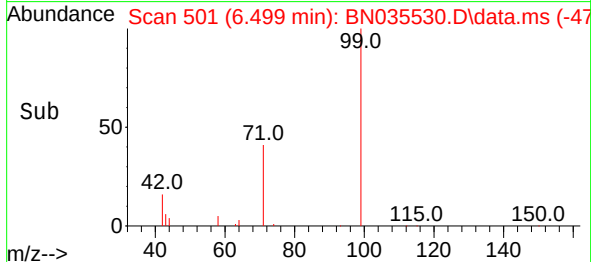
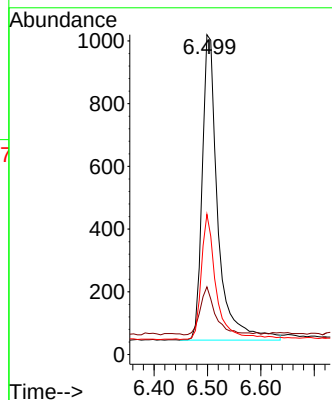
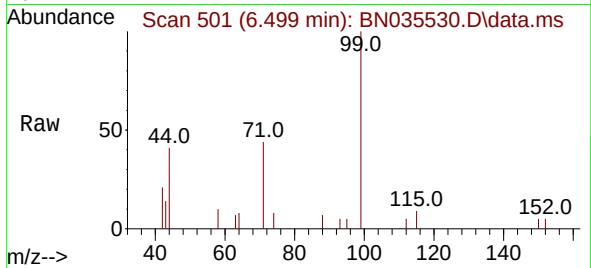




#5
Phenol-d6
Concen: 0.401 ng
RT: 6.499 min Scan# 503
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

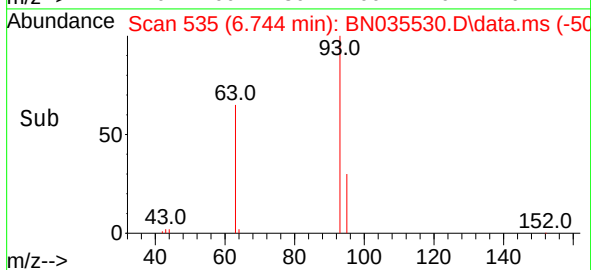
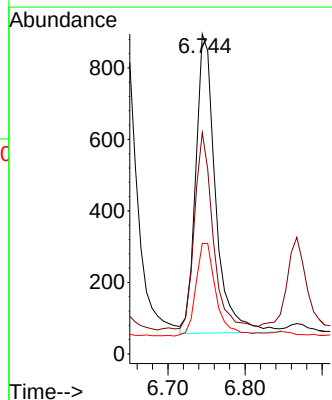
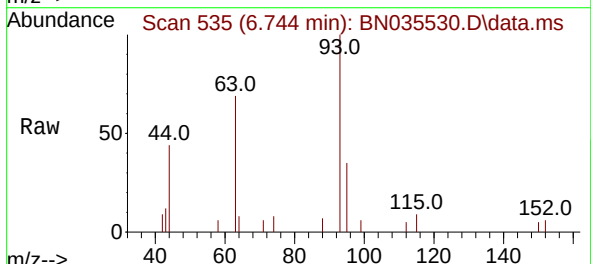
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

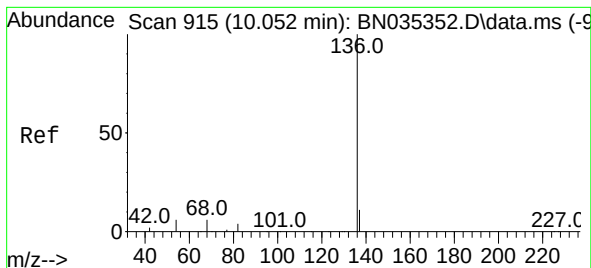
Tgt Ion: 99 Resp: 1989
Ion Ratio Lower Upper
99 100
42 15.6 11.4 17.2
71 39.8 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 93 Resp: 1499
Ion Ratio Lower Upper
93 100
63 62.6 50.4 75.6
95 31.0 25.7 38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.041 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 4653

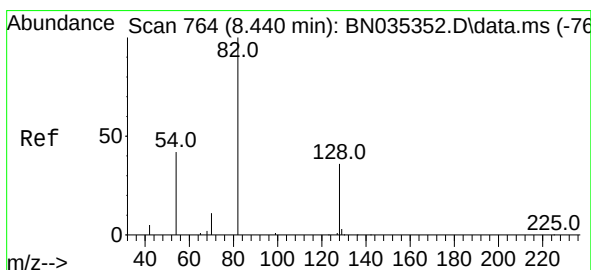
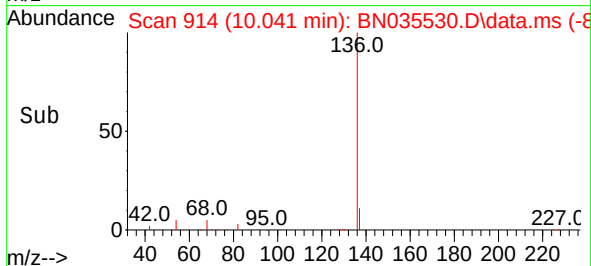
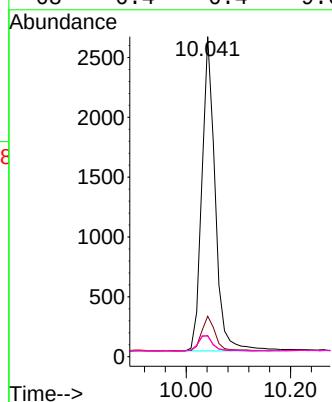
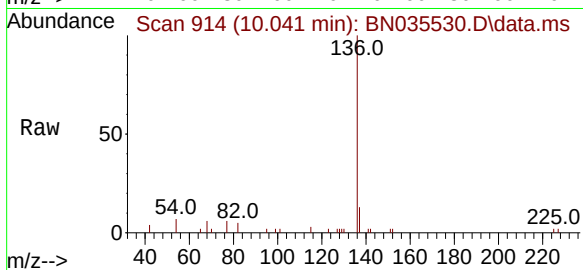
Ion Ratio Lower Upper

136 100

137 12.7 10.2 15.2

54 6.6 6.1 9.1

68 6.4 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.492 ng

RT: 8.429 min Scan# 763

Delta R.T. -0.011 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

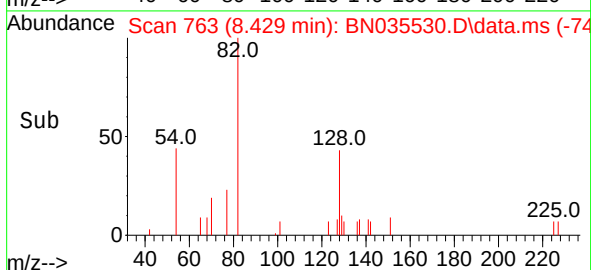
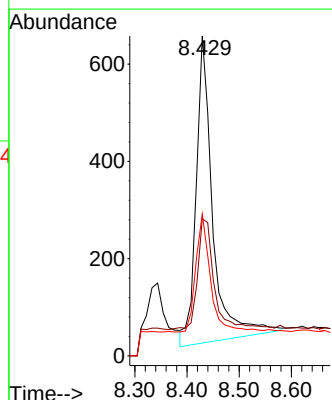
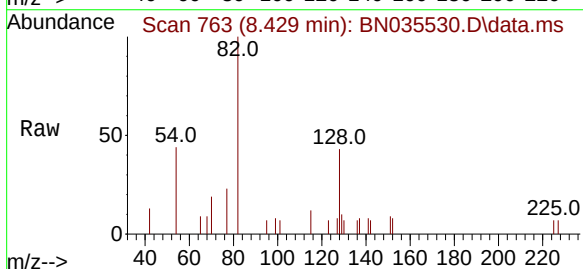
Tgt Ion: 82 Resp: 1397

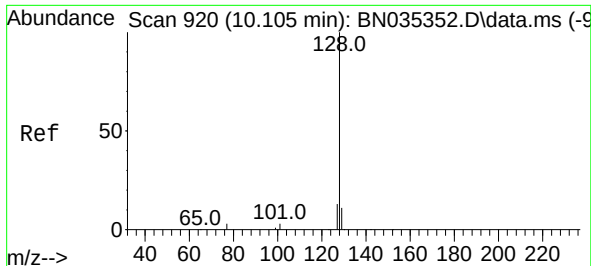
Ion Ratio Lower Upper

82 100

128 42.9 33.4 50.0

54 44.4 36.7 55.1

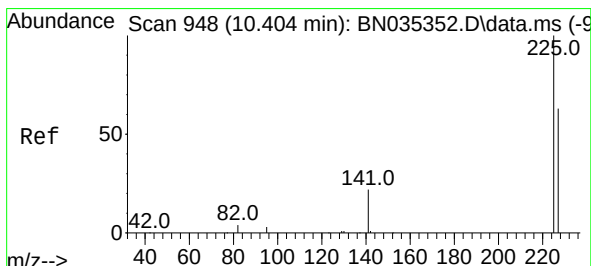
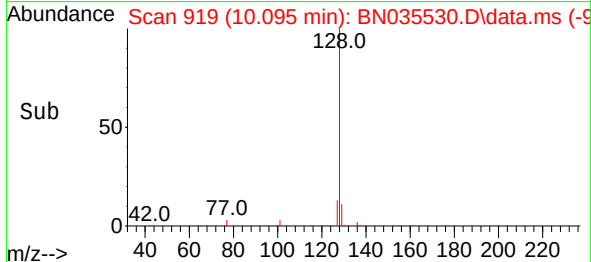
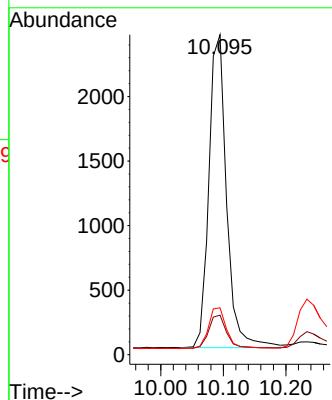
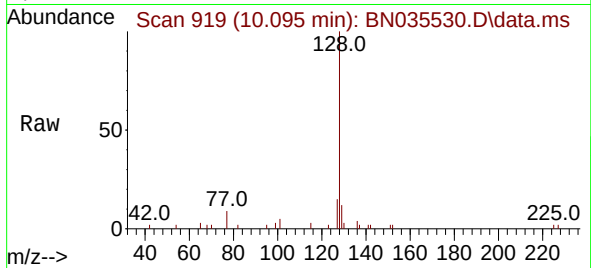




#9
Naphthalene
Concen: 0.387 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

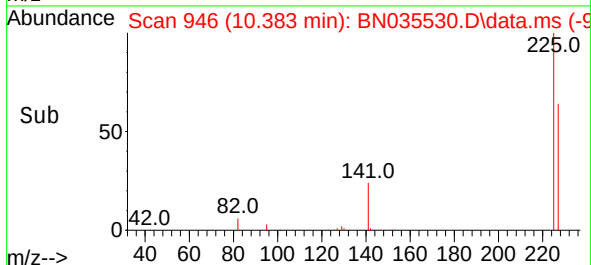
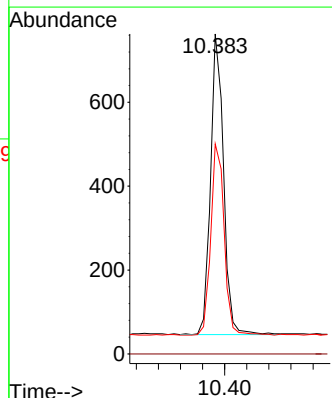
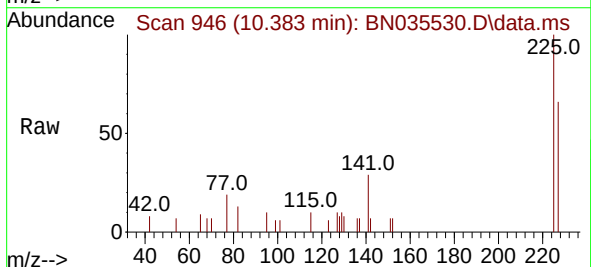
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

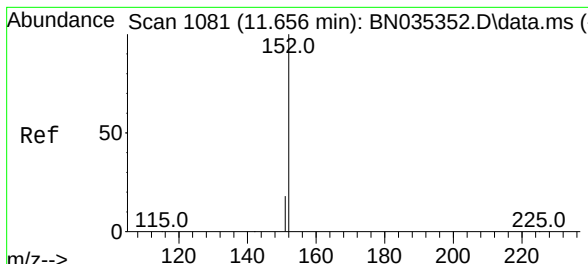
Tgt Ion:128 Resp: 4751
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.6 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:225 Resp: 1177
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.2 51.3 76.9

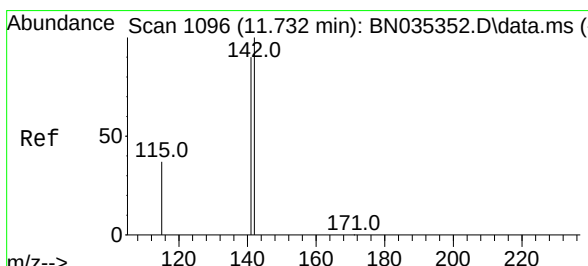
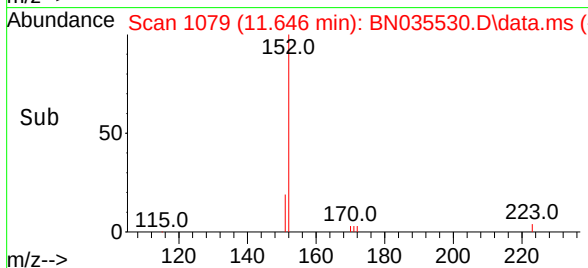
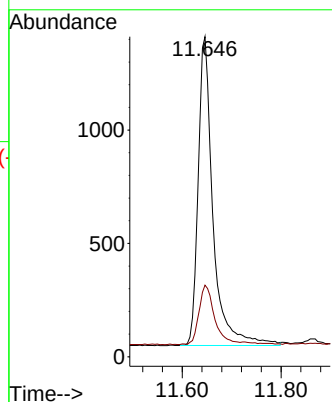
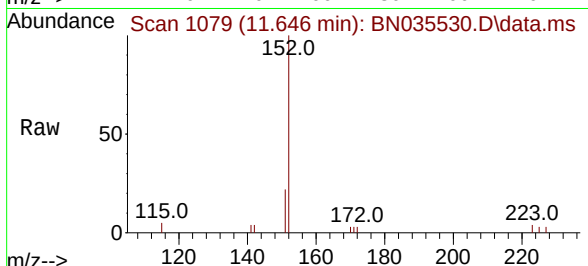




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

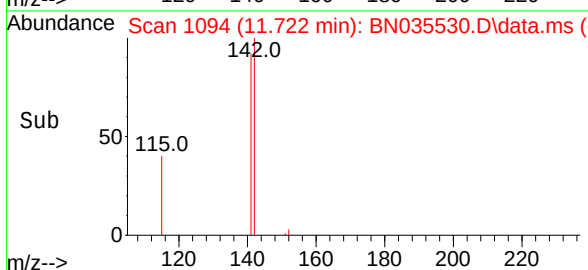
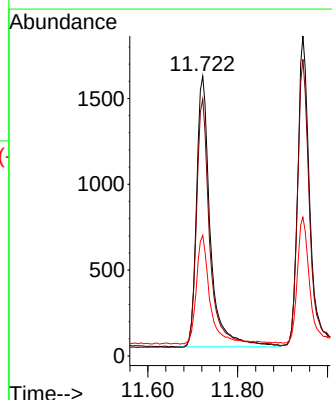
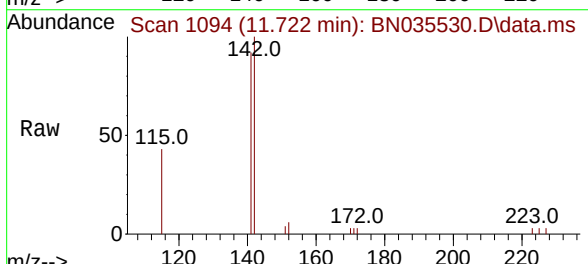
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

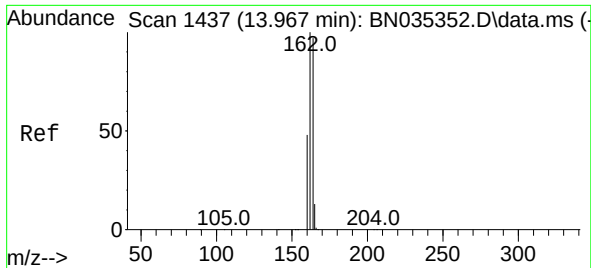
Tgt Ion:152 Resp: 2835
Ion Ratio Lower Upper
152 100
151 20.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:142 Resp: 3358
Ion Ratio Lower Upper
142 100
141 91.8 72.2 108.4
115 43.1 31.4 47.0

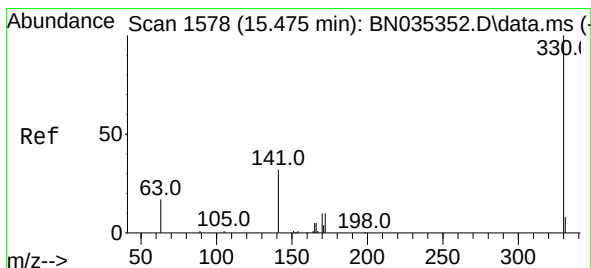
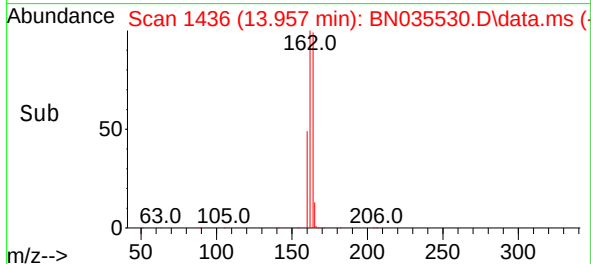
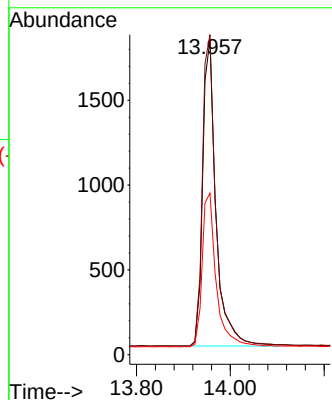
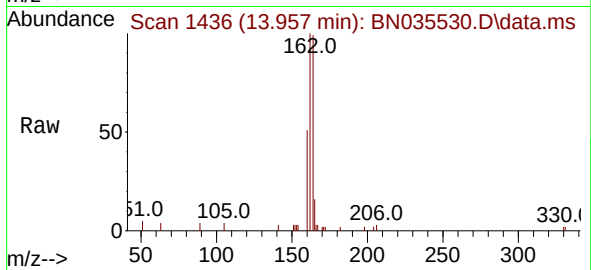




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

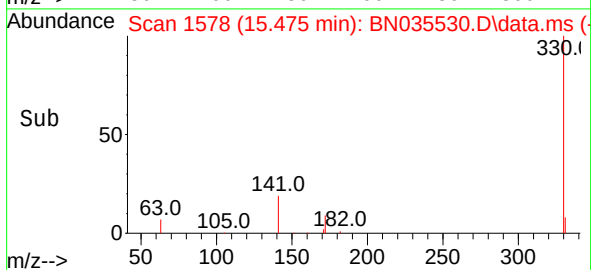
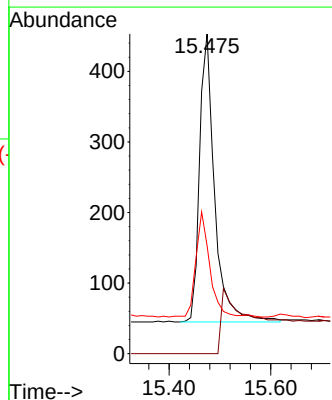
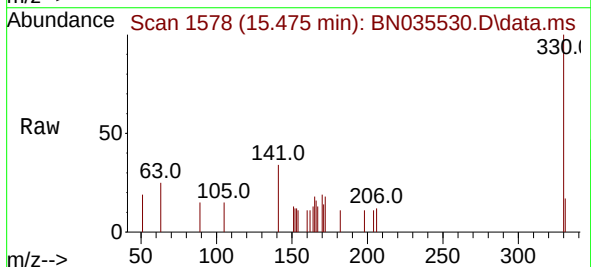
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

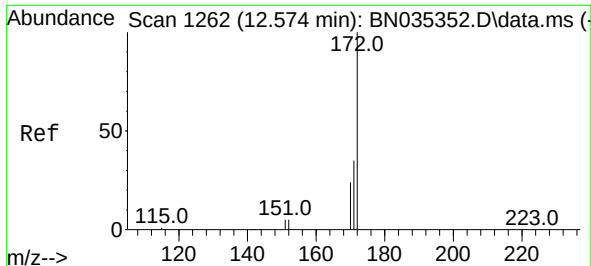
Tgt Ion:164 Resp: 3559
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 51.2 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:330 Resp: 899
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.385 ng

RT: 12.564 min Scan# 1409

Delta R.T. -0.010 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

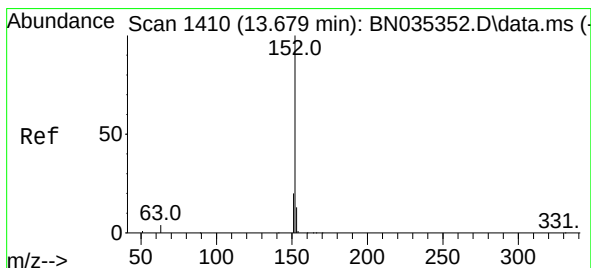
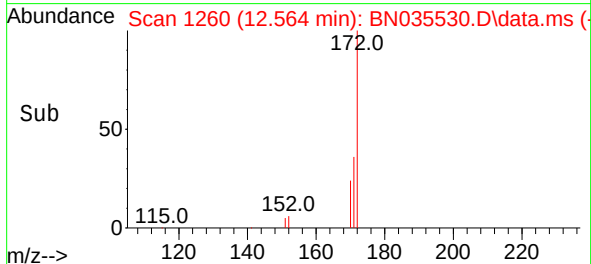
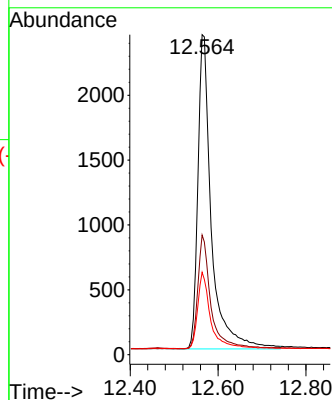
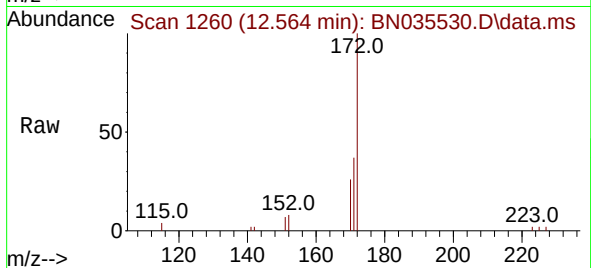
Tgt Ion:172 Resp: 5182

Ion Ratio Lower Upper

172 100

171 37.4 29.0 43.4

170 25.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.370 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

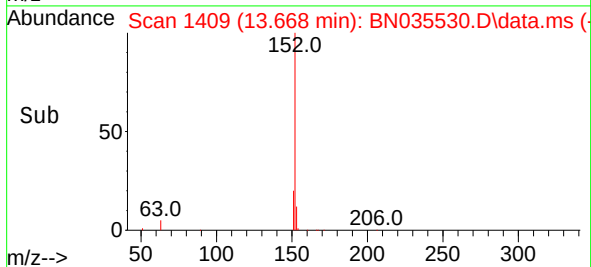
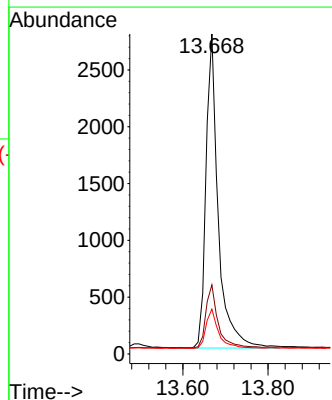
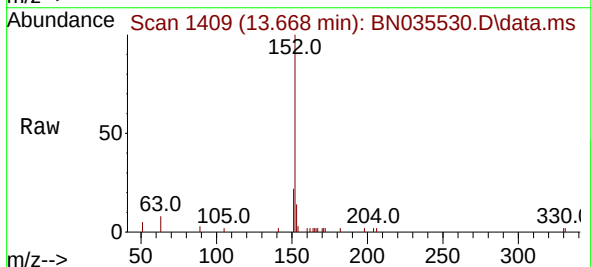
Tgt Ion:152 Resp: 5536

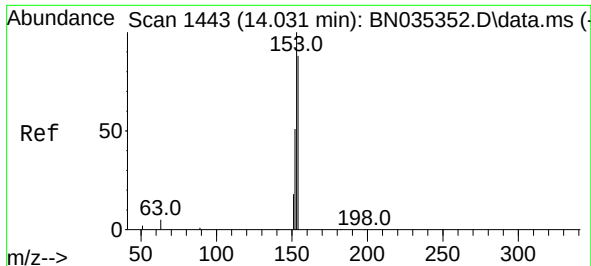
Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

153 12.7 10.4 15.6

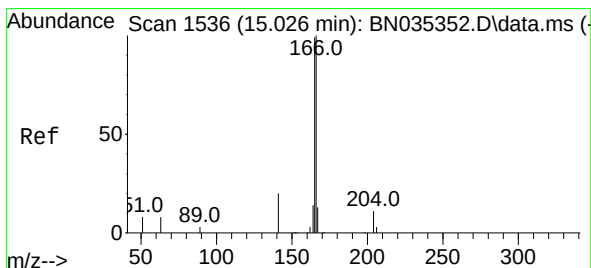
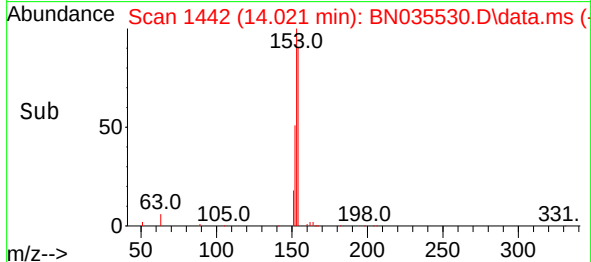
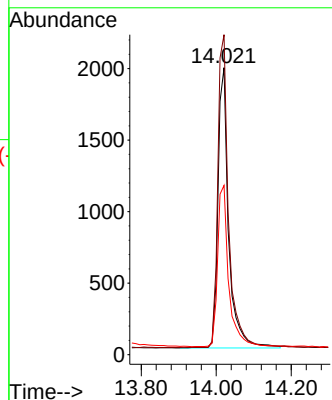
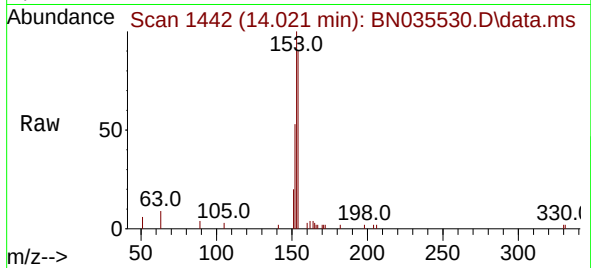




#17
Acenaphthene
Concen: 0.391 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

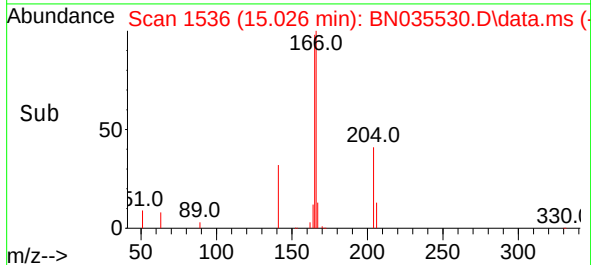
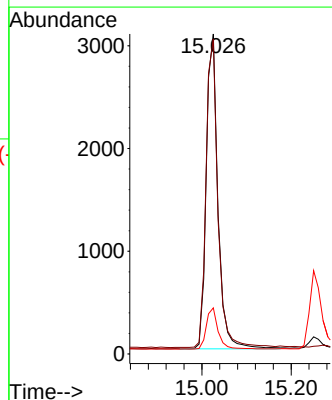
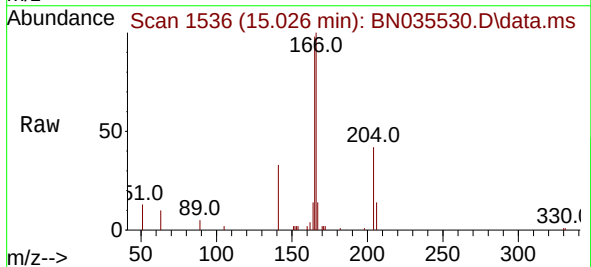
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

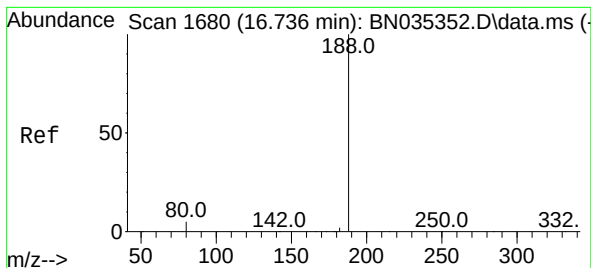
Tgt Ion:154 Resp: 3879
Ion Ratio Lower Upper
154 100
153 113.4 92.6 139.0
152 59.7 49.0 73.6



#18
Fluorene
Concen: 0.390 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:166 Resp: 5544
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

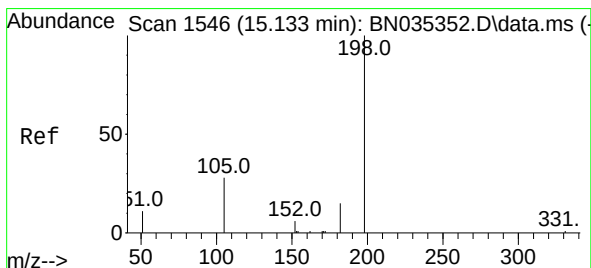
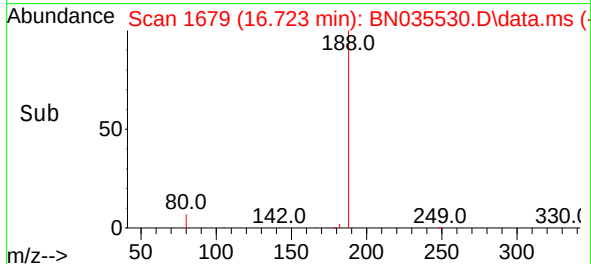
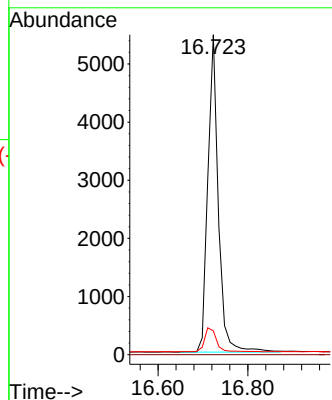
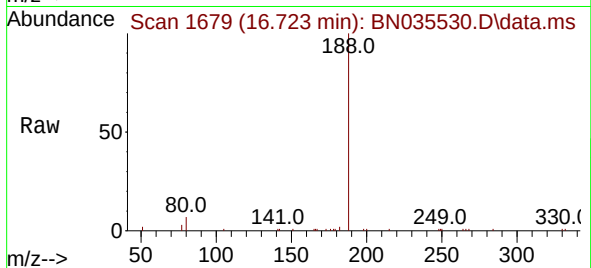
Tgt Ion:188 Resp: 8829

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

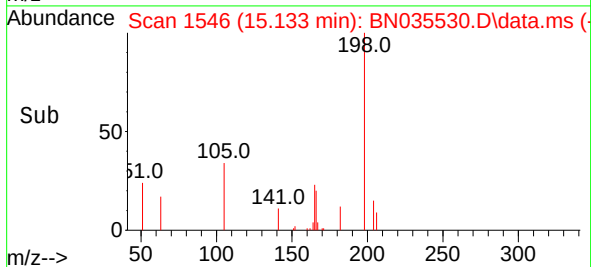
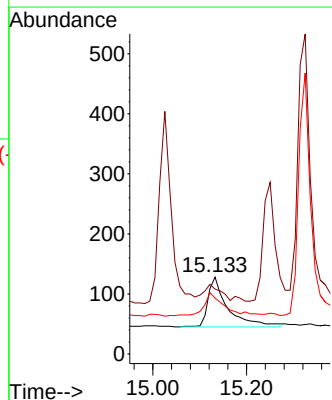
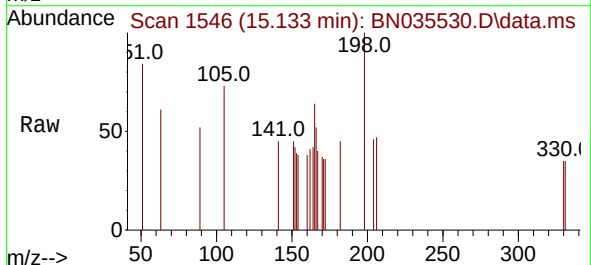
Tgt Ion:198 Resp: 246

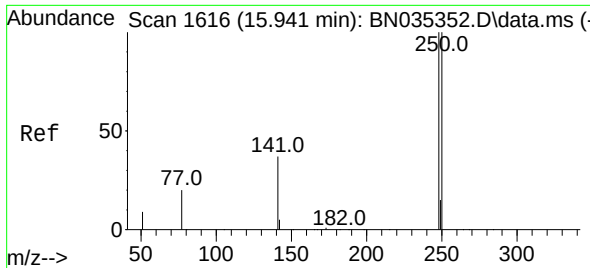
Ion Ratio Lower Upper

198 100

51 84.4 46.5 69.7#

105 72.7 45.3 67.9#

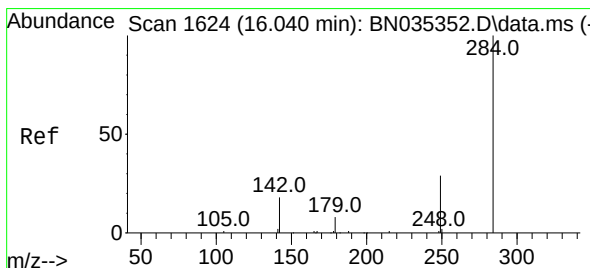
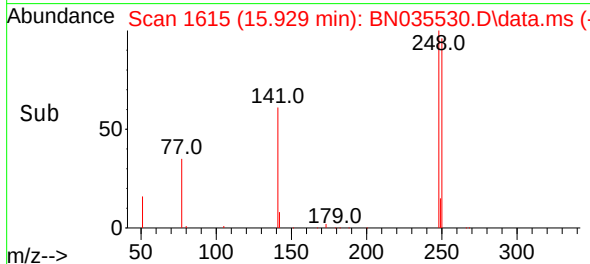
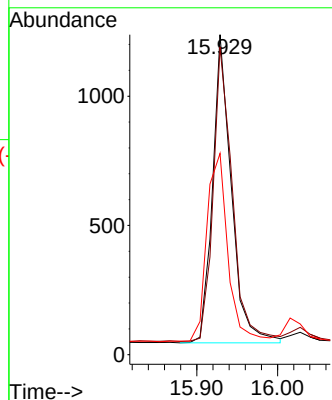
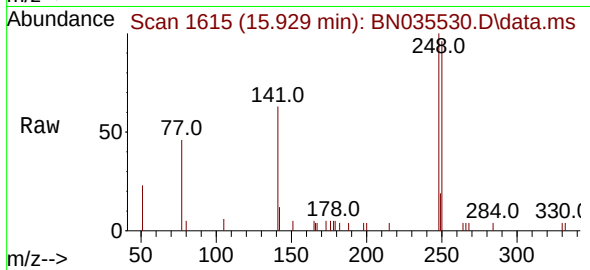




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

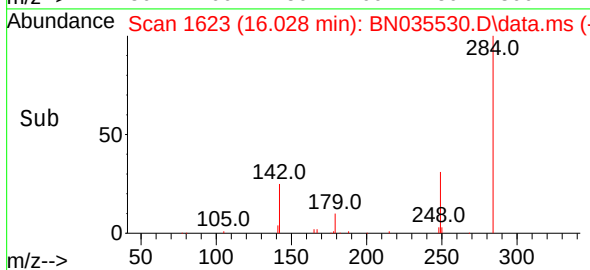
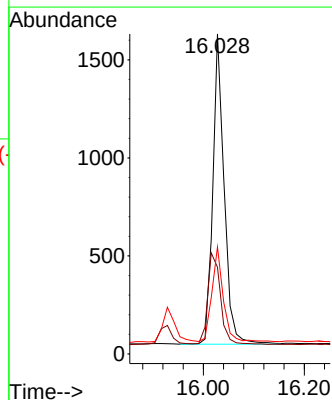
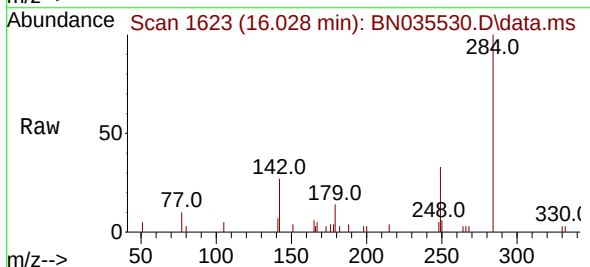
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

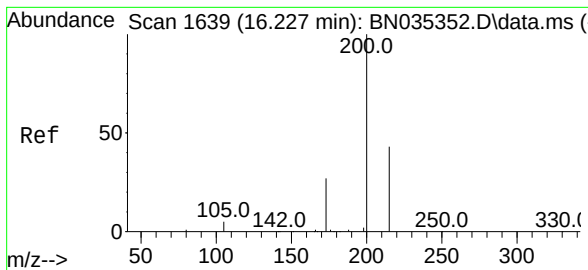
Tgt Ion:248 Resp: 1928
Ion Ratio Lower Upper
248 100
250 96.2 80.6 120.8
141 62.9 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:284 Resp: 2468
Ion Ratio Lower Upper
284 100
142 33.3 26.7 40.1
249 30.8 24.6 36.8





#23

Atrazine

Concen: 0.350 ng

RT: 16.227 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

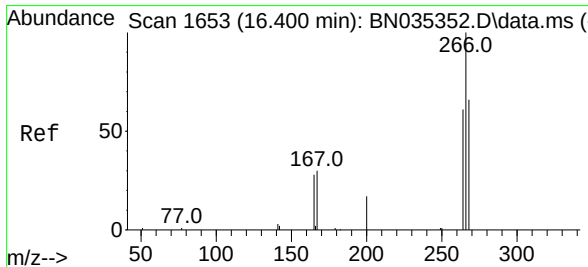
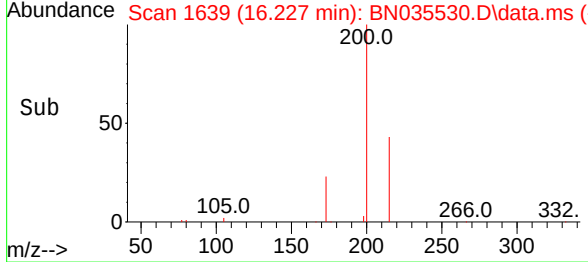
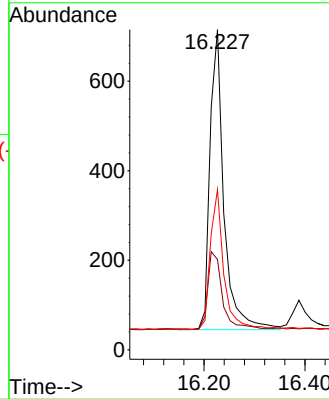
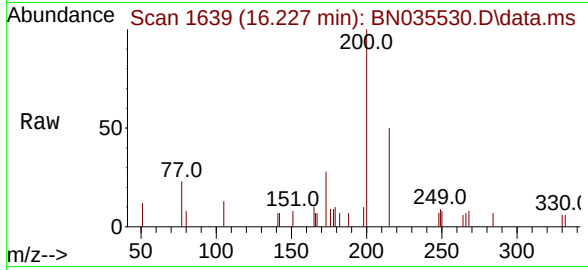
Tgt Ion:200 Resp: 1287

Ion Ratio Lower Upper

200 100

173 28.3 24.1 36.1

215 50.1 36.9 55.3



#24

Pentachlorophenol

Concen: 0.270 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

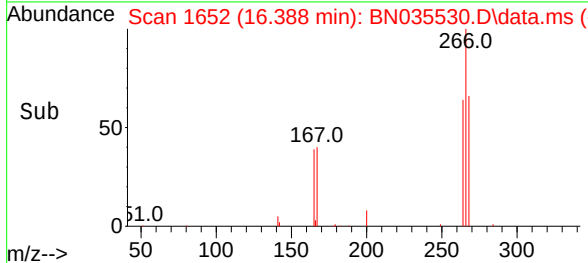
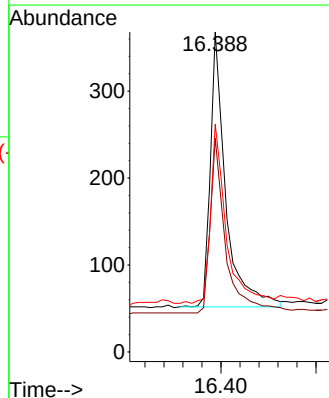
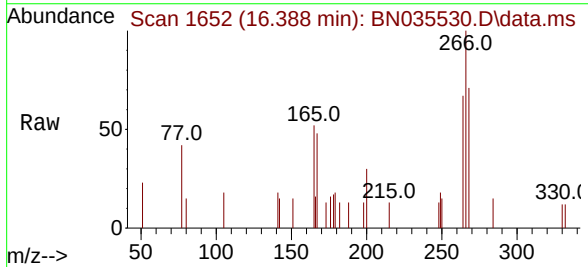
Tgt Ion:266 Resp: 713

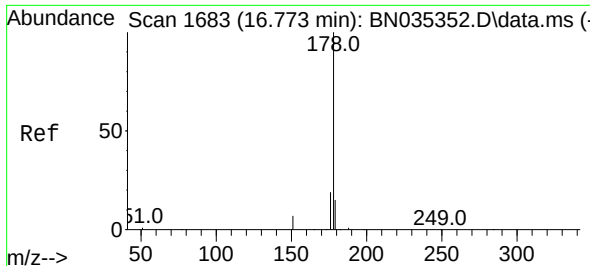
Ion Ratio Lower Upper

266 100

264 64.1 42.3 63.5#

268 65.5 43.3 64.9#

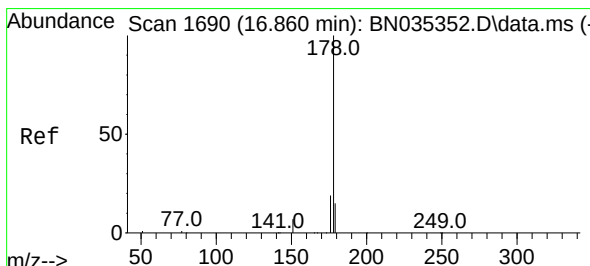
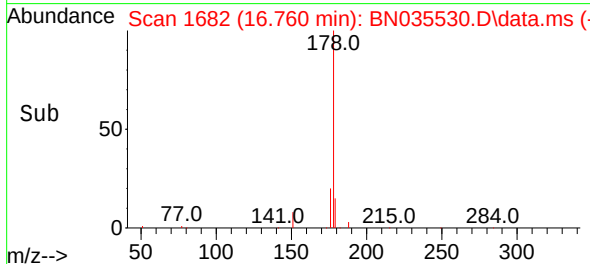
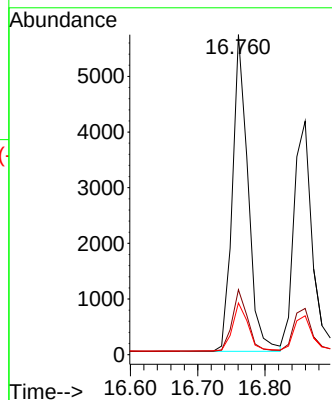
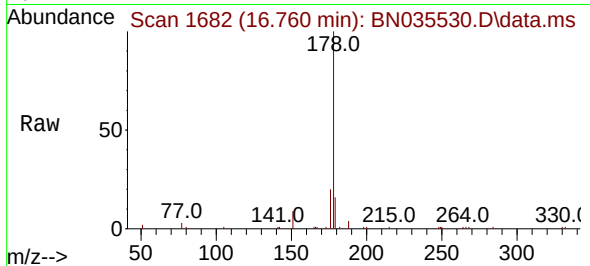




#25
Phenanthrene
Concen: 0.379 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

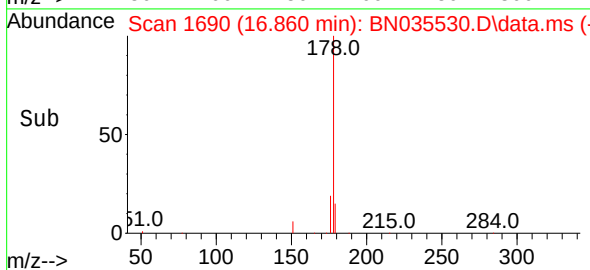
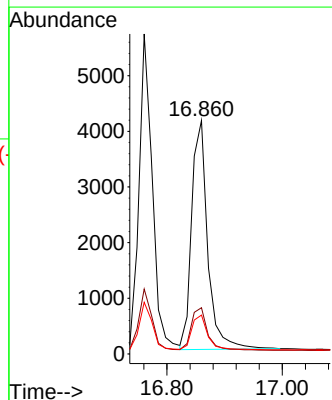
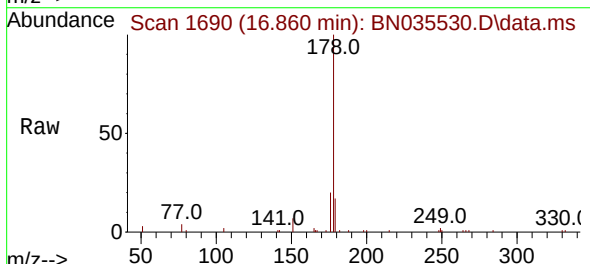
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

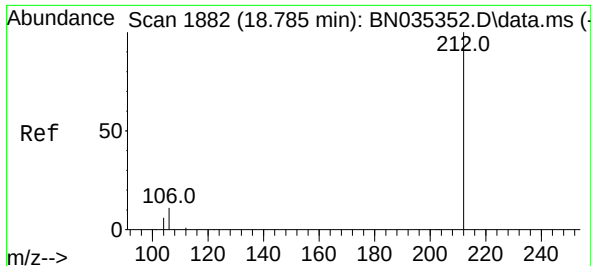
Tgt Ion:178 Resp: 9191
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.363 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:178 Resp: 7969
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.330 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

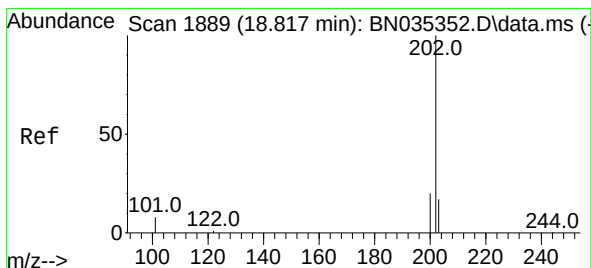
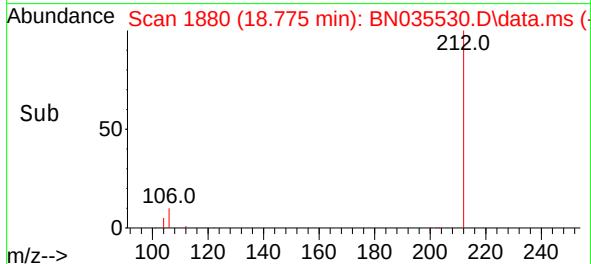
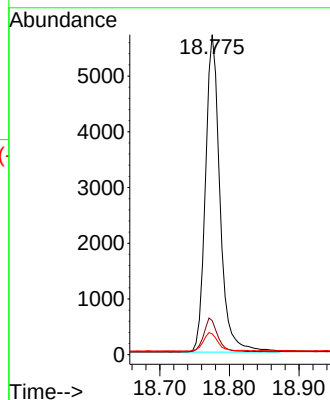
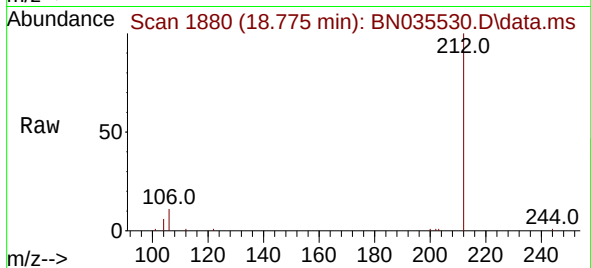
Tgt Ion:212 Resp: 8270

Ion Ratio Lower Upper

212 100

106 10.2 9.2 13.8

104 5.7 5.3 7.9



#28

Fluoranthene

Concen: 0.332 ng

RT: 18.808 min Scan# 1887

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

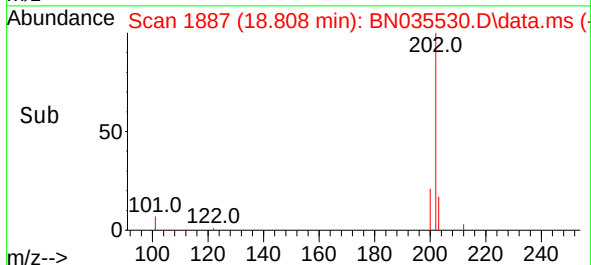
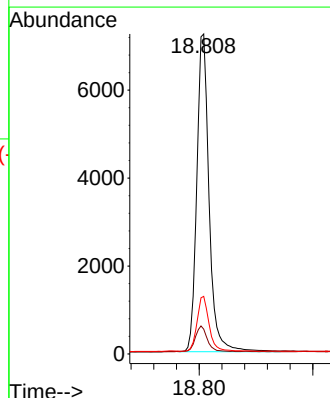
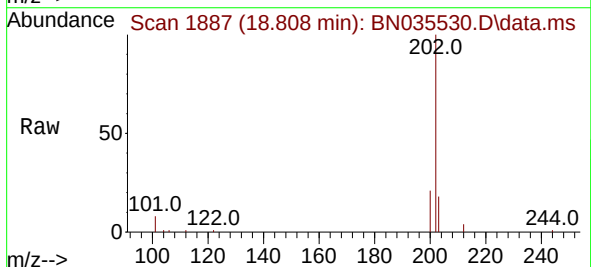
Tgt Ion:202 Resp: 10852

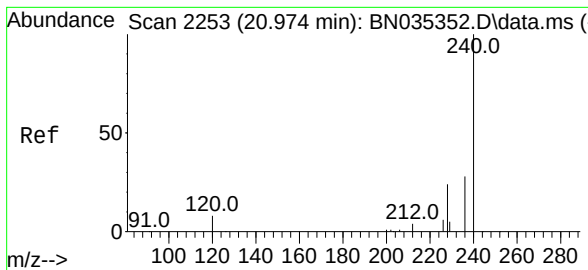
Ion Ratio Lower Upper

202 100

101 8.0 7.4 11.0

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

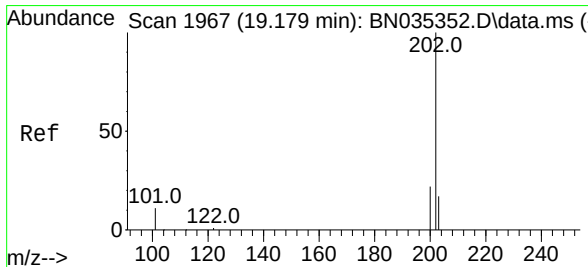
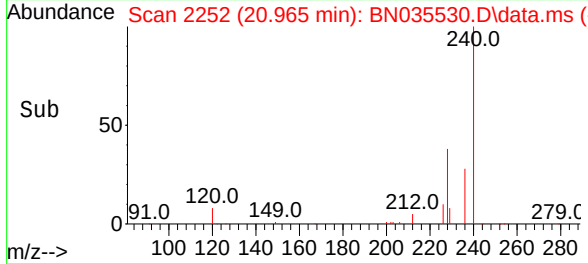
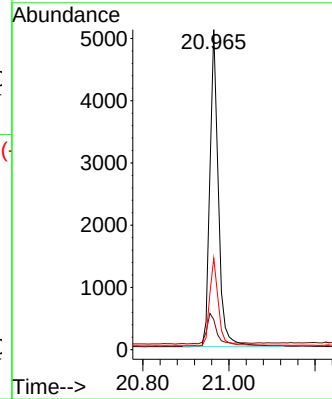
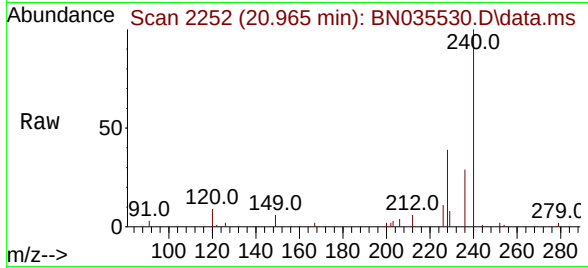
Tgt Ion:240 Resp: 7037

Ion Ratio Lower Upper

240 100

120 9.4 7.9 11.9

236 28.7 22.9 34.3



#30

Pyrene

Concen: 0.425 ng

RT: 19.170 min Scan# 1965

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

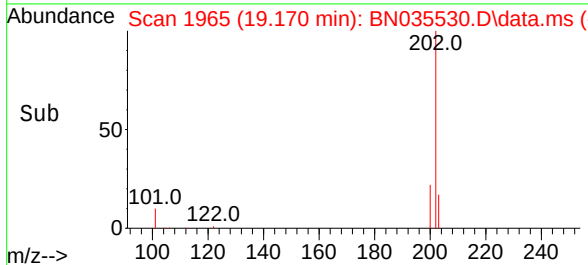
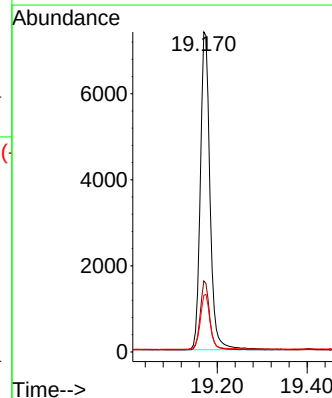
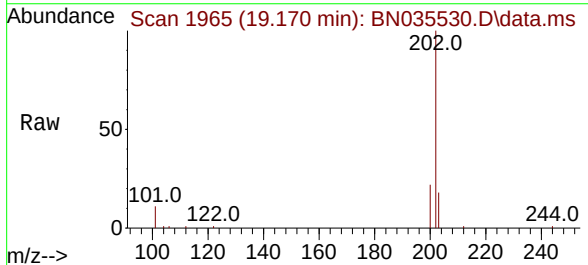
Tgt Ion:202 Resp: 11027

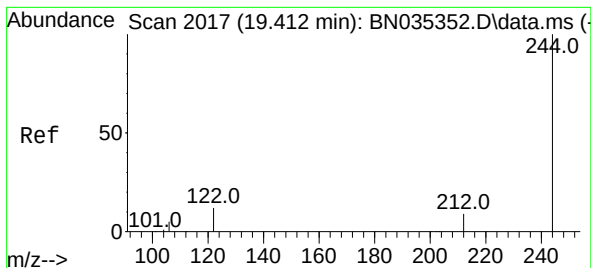
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.417 ng

RT: 19.402 min Scan# 2017

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

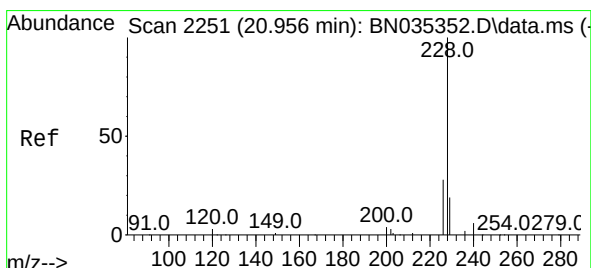
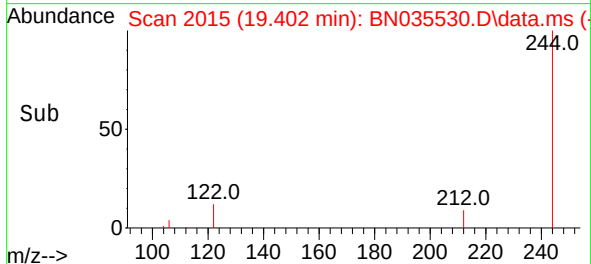
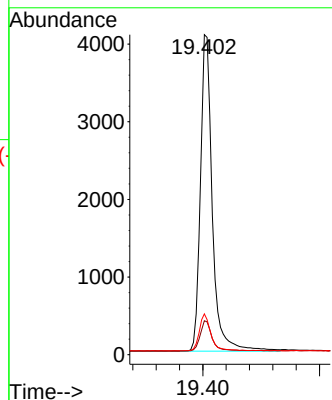
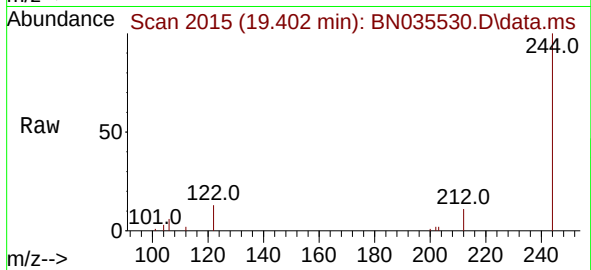
Tgt Ion:244 Resp: 5792

Ion Ratio Lower Upper

244 100

212 10.6 8.1 12.1

122 12.8 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.350 ng

RT: 20.947 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

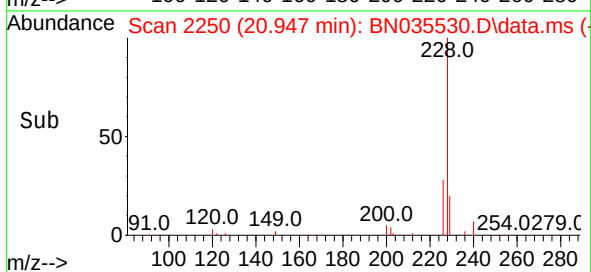
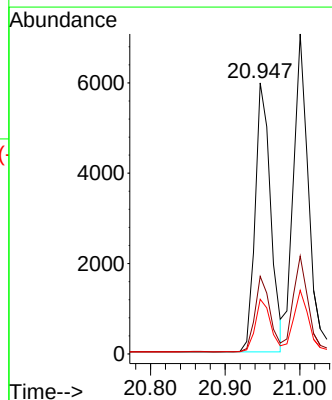
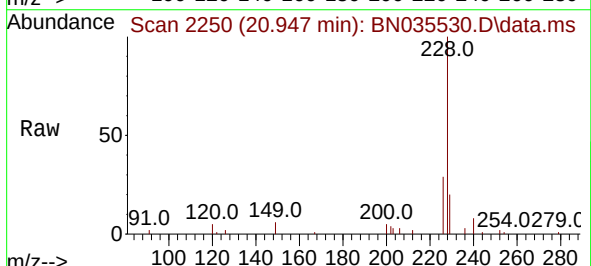
Tgt Ion:228 Resp: 8623

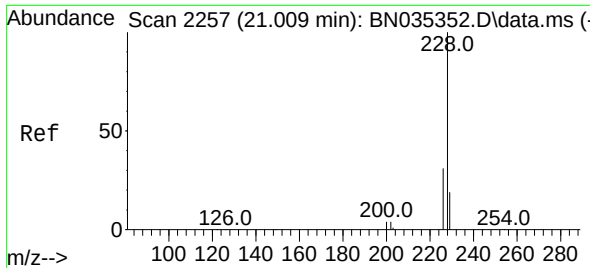
Ion Ratio Lower Upper

228 100

226 28.7 22.5 33.7

229 20.2 15.8 23.8

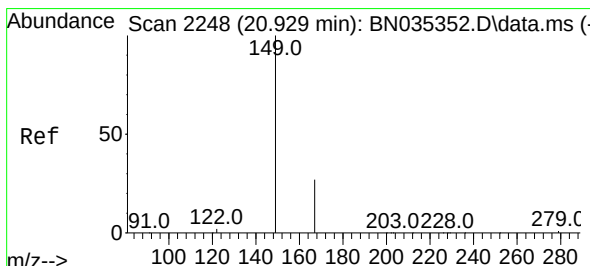
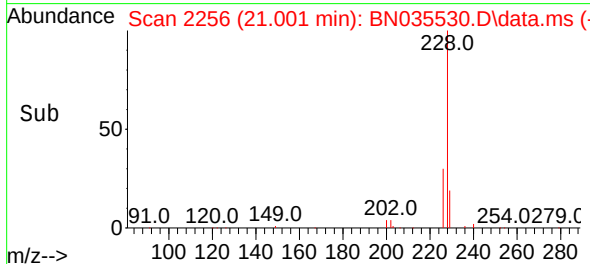
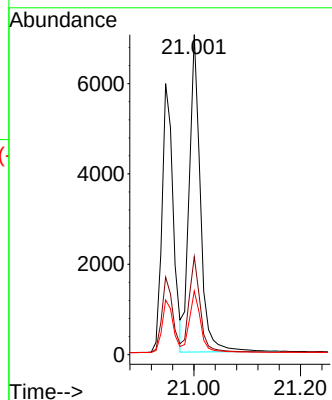
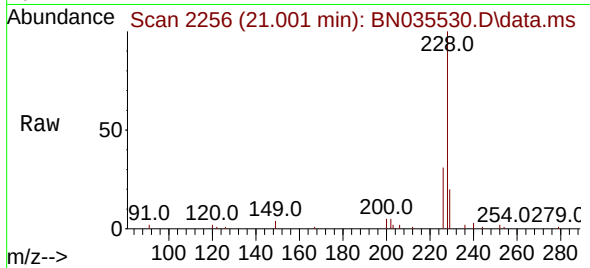




#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

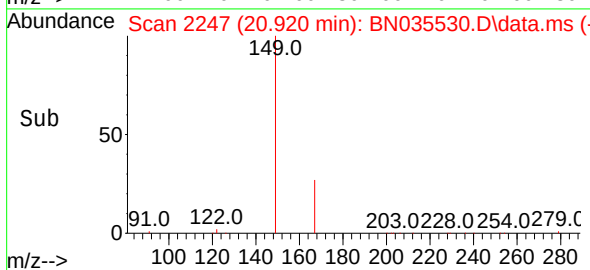
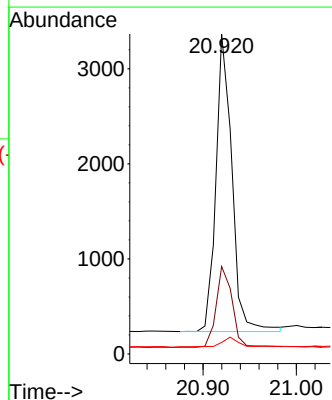
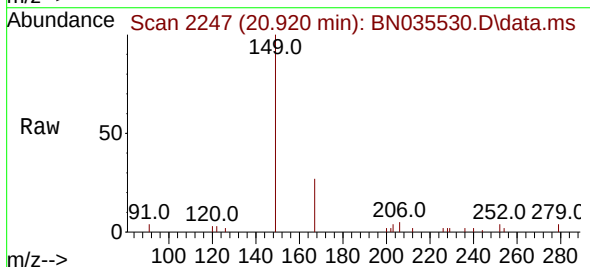
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

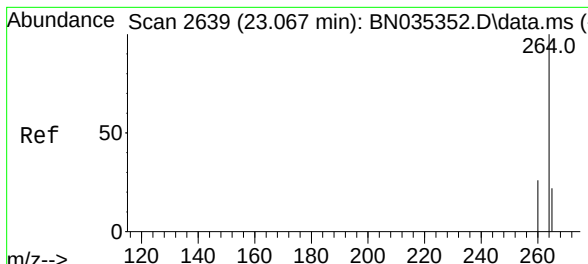
Tgt Ion:228 Resp: 10141
Ion Ratio Lower Upper
228 100
226 30.6 24.6 37.0
229 19.9 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.382 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:149 Resp: 3712
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.8 2.7 4.1



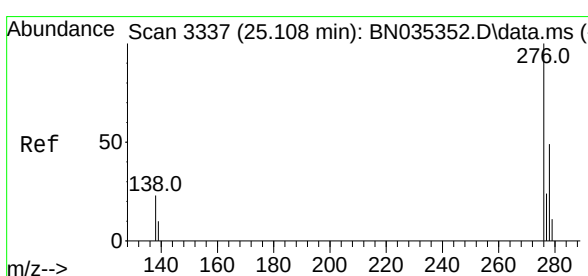
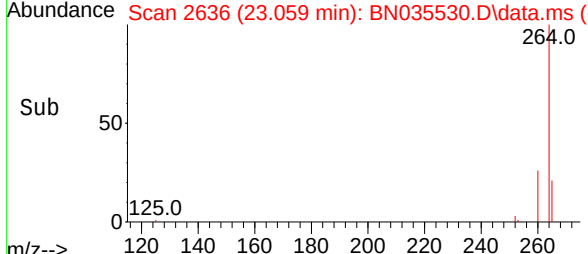
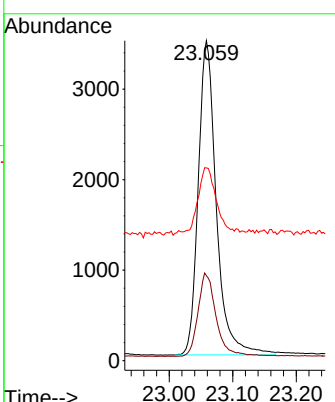
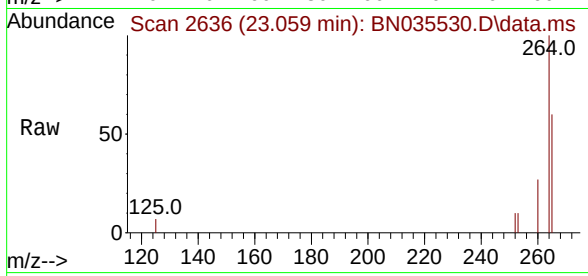


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.059 min Scan# 2
 Delta R.T. -0.009 min
 Lab File: BN035530.D
 Acq: 10 Dec 2024 12:40

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:264 Resp: 6876

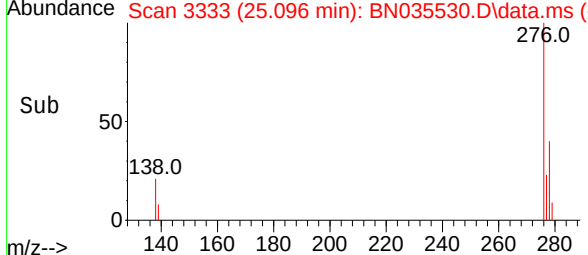
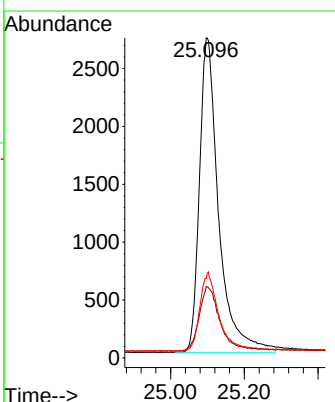
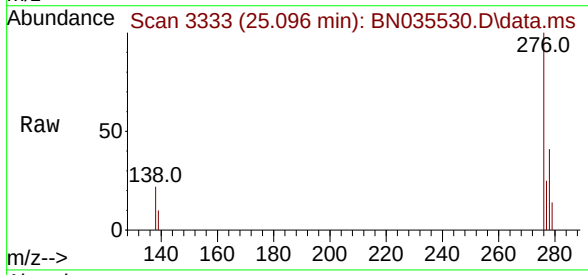
Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	60.3	40.2	60.4

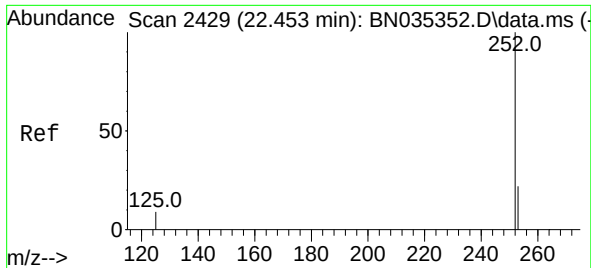


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.366 ng
 RT: 25.096 min Scan# 3333
 Delta R.T. -0.012 min
 Lab File: BN035530.D
 Acq: 10 Dec 2024 12:40

Tgt Ion:276 Resp: 9828

Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.4	29.0
277	24.4	19.8	29.6

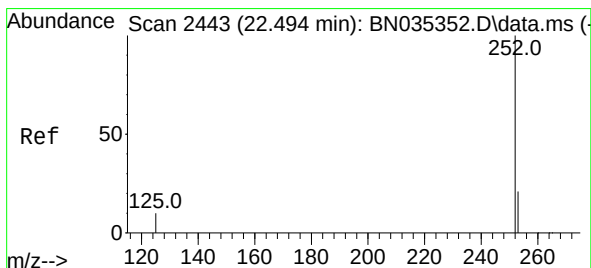
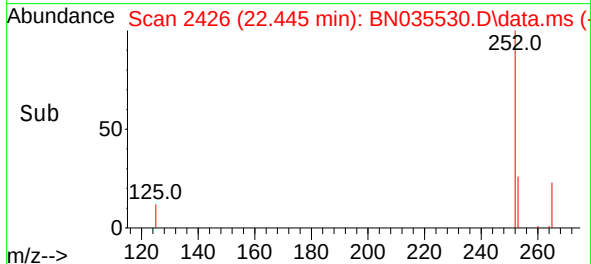
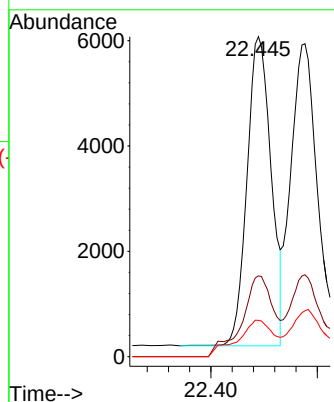
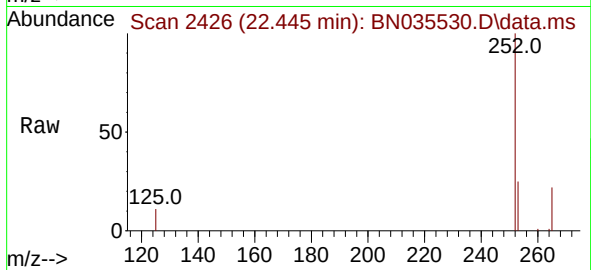




#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.445 min Scan# 2429
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

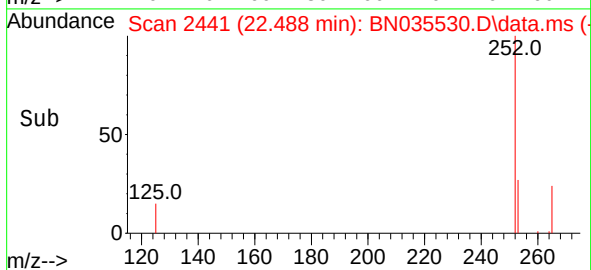
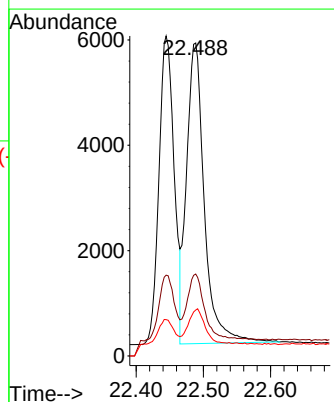
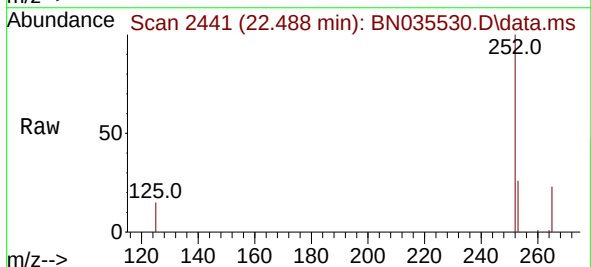
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

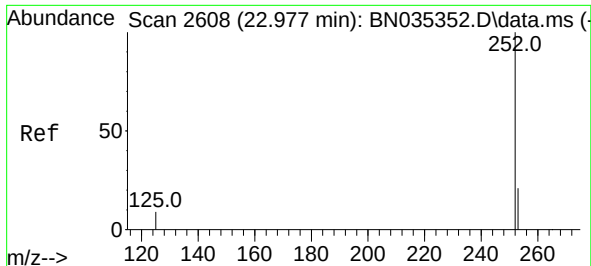
Tgt Ion:252 Resp: 12398
Ion Ratio Lower Upper
252 100
253 25.3 19.6 29.4
125 11.4 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:252 Resp: 10500
Ion Ratio Lower Upper
252 100
253 26.2 19.5 29.3
125 14.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 22.968 min Scan# 2605

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

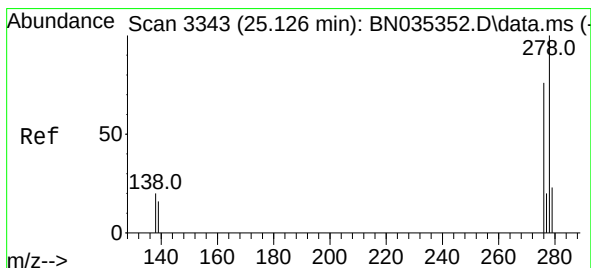
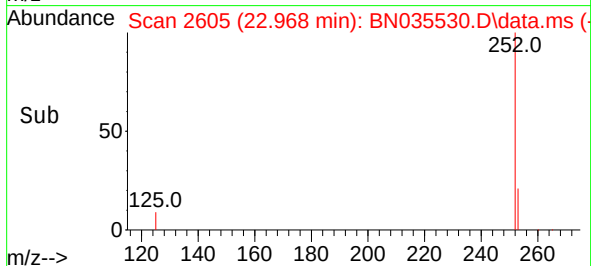
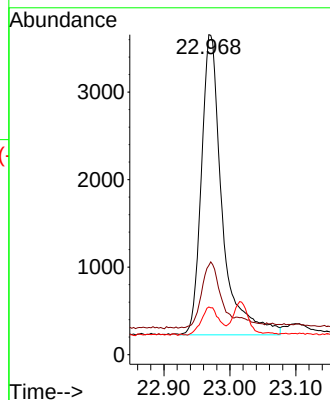
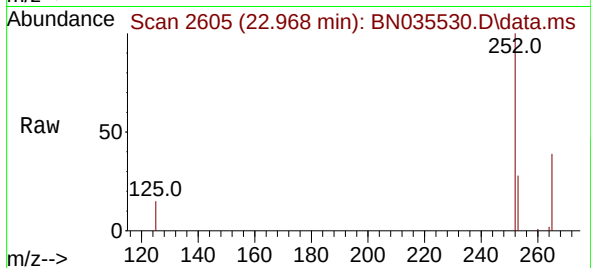
Tgt Ion:252 Resp: 7505

Ion Ratio Lower Upper

252 100

253 27.9 20.2 30.4

125 14.9 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.349 ng

RT: 25.117 min Scan# 3340

Delta R.T. -0.009 min

Lab File: BN035530.D

Acq: 10 Dec 2024 12:40

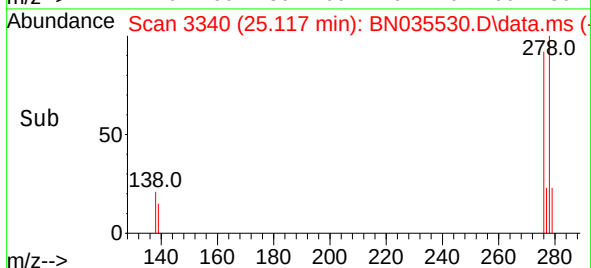
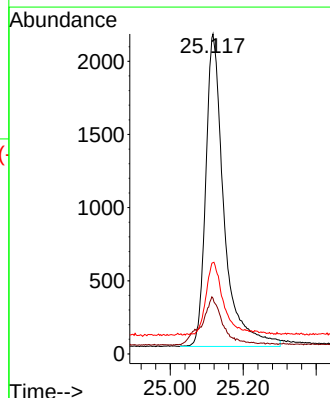
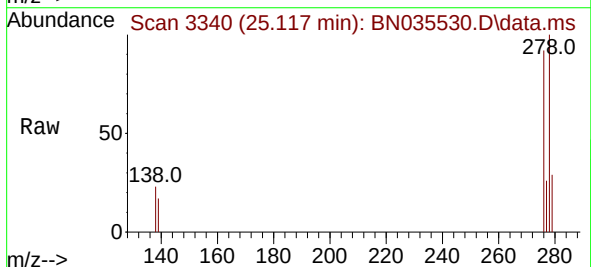
Tgt Ion:278 Resp: 7400

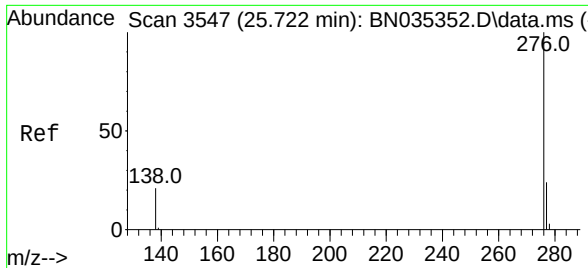
Ion Ratio Lower Upper

278 100

139 17.4 14.2 21.4

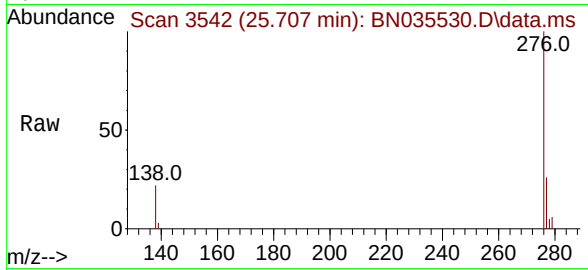
279 28.5 20.5 30.7





#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.707 min Scan# 3542
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	8233
Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.7	17.8	26.8

