

DATA PACKAGE SEMI-VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3440

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3440

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3440-01
P3440-02
P3440-03
P3440-04
P3440-05

Client Sample Number

923-K1-WS-080124
923-K1-WS-080124MS
923-K1-WS-080124MSD
922-K1-WS-080124
TB-01-080124

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: 8/15/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3440

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

5 Water samples were received on 08/01/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOC-SIMGroup1, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group3.

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 SVOCMS Group3 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 923-K1-WS-080124MSD [Terphenyl-d14 - 134%] and 922-K1-WS-080124 [Terphenyl-d14 - 148%] these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P3440-02MS} with File ID: BN033232.D recoveries met the requirements for all compounds except for 2-Methylnaphthalene[68%], Phenanthrene[136%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3440-03MSD} with File ID: BN033233.D recoveries met the acceptable requirements except for Phenanthrene[152%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The % RSD is greater than 20% in the Initial Calibration method (Method 8270Sim-BN080524.M) for 1,4-Dioxane, this compound is passing on Linear Regression.

The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and 2,4,6-Tribromophenol , failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P3440

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The % RSD is greater than 20% in the Initial Calibration method (Method 8270Sim- BN080524.M) for 1,4-Dioxane, this compound is passing on Linear Regression.			
	The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and and 2,4,6-Tribromophenol , failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for 923-K1-WS- 080124MSD [Terphenyl-d14 - 134%] and 922-K1-WS-080124 [Terphenyl-d14 - 148%] these compounds did not meet the NJDKQP criteria but met the in-house criteria.			

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**(CONTINUED)**

	NA	NO	YES
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 MS {P3440-02MS} with File ID: BN033232.D recoveries met the requirements for all compounds except for 2-Methylnaphthalene[68%], Phenanthrene[136%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.			
The MSD {P3440-03MSD} with File ID: BN033233.D recoveries met the acceptable requirements except for Phenanthrene[152%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.			
The Blank Spike met requirements for all samples .			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
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.

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 #: P3440

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/15/2024

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID:	P3440	OrderDate:	8/1/2024 12:28:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3440-01	923-K1-WS-080124	Water	SVOCMS Group3	8270-Modified	08/01/24	08/02/24	08/03/24	08/01/24
			SVOCMS Group6	8270E		08/02/24	08/07/24	
P3440-04	922-K1-WS-080124	Water	SVOCMS Group3	8270-Modified	08/01/24	08/02/24	08/03/24	08/01/24
			SVOCMS Group6	8270E		08/02/24	08/07/24	

Hit Summary Sheet SW-846

SDG No.: P3440
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 922-K1-WS-080124							
P3440-04	922-K1-WS-080124	WATER	Phenanthrene	0.040	J 0.02	0.11	ug/L
P3440-04	922-K1-WS-080124	WATER	Fluoranthene	0.040	J 0.02	0.11	ug/L
P3440-04	922-K1-WS-080124	WATER	Pyrene	0.030	J 0.02	0.11	ug/L
Total Svoc :				0.11			
Total Concentration:				0.11			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: **P3440**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3440-01	923-K1-WS-080124	2-Methylnaphthalene-d10	0.4	0.24	61		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.31	77		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.24	60		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.28	71		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.36	89		30 (54)	130 (171)
P3440-02MS	923-K1-WS-080124MS	2-Methylnaphthalene-d10	0.4	0.30	75		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.31	78		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.28	70		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.30	75		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.48	119		30 (54)	130 (171)
P3440-03MSD	923-K1-WS-080124MSD	2-Methylnaphthalene-d10	0.4	0.32	81		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.34	84		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.33	83		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.35	87		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.54	134	*	30 (54)	130 (171)
P3440-04	922-K1-WS-080124	2-Methylnaphthalene-d10	0.4	0.27	68		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.34	86		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.30	75		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.29	72		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.59	148	*	30 (54)	130 (171)
PB162464BL	PB162464BL	2-Methylnaphthalene-d10	0.4	0.34	84		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.40	100		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.39	98		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.35	87		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.42	105		30 (54)	130 (171)
PB162464BS	PB162464BS	2-Methylnaphthalene-d10	0.4	0.41	101		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.37	94		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.38	95		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.41	102		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.40	99		30 (54)	130 (171)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3440

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3440-02MS		Client Sample ID: 923-K1-WS-080124MS		DataFile: BN033232.D							
Naphthalene	0.44	0	0.31	ug/L	70				70 (62)	130 (119)	
2-Methylnaphthalene	0.44	0	0.30	ug/L	68	*			70 (70)	130 (118)	
Acenaphthylene	0.44	0	0.36	ug/L	82				70 (53)	130 (123)	
Acenaphthene	0.44	0	0.38	ug/L	86				70 (57)	130 (122)	
Fluorene	0.44	0	0.39	ug/L	89				70 (58)	130 (123)	
Phenanthrene	0.44	0	0.60	ug/L	136	*			70 (64)	130 (129)	
Anthracene	0.44	0	0.39	ug/L	89				70 (67)	130 (127)	
Fluoranthene	0.44	0	0.50	ug/L	114				70 (55)	130 (140)	
Pyrene	0.44	0	0.53	ug/L	120				70 (59)	130 (137)	
Benzo(a)anthracene	0.44	0	0.42	ug/L	95				70 (51)	130 (146)	
Chrysene	0.44	0	0.40	ug/L	91				70 (61)	130 (126)	
Benzo(b)fluoranthene	0.44	0	0.36	ug/L	82				70 (60)	130 (123)	
Benzo(k)fluoranthene	0.44	0	0.34	ug/L	77				70 (61)	130 (122)	
Benzo(a)pyrene	0.44	0	0.39	ug/L	89				70 (54)	130 (129)	
Indeno(1,2,3-cd)pyrene	0.44	0	0.38	ug/L	86				70 (50)	130 (134)	
Dibenz(a,h)anthracene	0.44	0	0.36	ug/L	82				70 (53)	130 (121)	
Benzo(g,h,i)perylene	0.44	0	0.37	ug/L	84				70 (44)	130 (132)	
1,4-Dioxane	0.44	0	0.20	ug/L	45				20 (10)	160 (175)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3440

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3440-03MSD		Client Sample ID: 923-K1-WS-080124MSD		DataFile: BN033233.D							
Naphthalene	0.44	0	0.35	ug/L	80		13		70 (62)	130 (119)	20 (20)
2-Methylnaphthalene	0.44	0	0.32	ug/L	73		7		70 (70)	130 (118)	20 (20)
Acenaphthylene	0.44	0	0.40	ug/L	91		10		70 (53)	130 (123)	20 (20)
Acenaphthene	0.44	0	0.45	ug/L	102		17		70 (57)	130 (122)	20 (20)
Fluorene	0.44	0	0.45	ug/L	102		14		70 (58)	130 (123)	20 (20)
Phenanthrene	0.44	0	0.67	ug/L	152	*	11		70 (64)	130 (129)	20 (20)
Anthracene	0.44	0	0.44	ug/L	100		12		70 (67)	130 (127)	20 (20)
Fluoranthene	0.44	0	0.54	ug/L	123		8		70 (55)	130 (140)	20 (20)
Pyrene	0.44	0	0.57	ug/L	130		8		70 (59)	130 (137)	20 (20)
Benzo(a)anthracene	0.44	0	0.47	ug/L	107		12		70 (51)	130 (146)	20 (20)
Chrysene	0.44	0	0.39	ug/L	89		2		70 (61)	130 (126)	20 (20)
Benzo(b)fluoranthene	0.44	0	0.39	ug/L	89		8		70 (60)	130 (123)	20 (20)
Benzo(k)fluoranthene	0.44	0	0.36	ug/L	82		6		70 (61)	130 (122)	20 (20)
Benzo(a)pyrene	0.44	0	0.42	ug/L	95		7		70 (54)	130 (129)	20 (20)
Indeno(1,2,3-cd)pyrene	0.44	0	0.41	ug/L	93		8		70 (50)	130 (134)	20 (20)
Dibenz(a,h)anthracene	0.44	0	0.40	ug/L	91		10		70 (53)	130 (121)	20 (20)
Benzo(g,h,i)perylene	0.44	0	0.38	ug/L	86		2		70 (44)	130 (132)	20 (20)
1,4-Dioxane	0.44	0	0.20	ug/L	45		0		20 (10)	160 (175)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3440

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033253.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB162464BS	Naphthalene	0.4	0.42	ug/L	105				70 (67)	130 (120)		
	2-Methylnaphthalene	0.4	0.38	ug/L	95				70 (50)	130 (122)		
	Acenaphthylene	0.4	0.40	ug/L	100				70 (60)	130 (119)		
	Acenaphthene	0.4	0.42	ug/L	105				70 (65)	130 (119)		
	Fluorene	0.4	0.41	ug/L	103				70 (58)	130 (122)		
	Phenanthrene	0.4	0.38	ug/L	95				70 (65)	130 (117)		
	Anthracene	0.4	0.35	ug/L	88				70 (57)	130 (118)		
	Fluoranthene	0.4	0.37	ug/L	93				70 (53)	130 (126)		
	Pyrene	0.4	0.39	ug/L	98				70 (54)	130 (124)		
	Benzo(a)anthracene	0.4	0.34	ug/L	85				70 (54)	130 (130)		
	Chrysene	0.4	0.43	ug/L	108				70 (64)	130 (126)		
	Benzo(b)fluoranthene	0.4	0.38	ug/L	95				70 (65)	130 (121)		
	Benzo(k)fluoranthene	0.4	0.40	ug/L	100				70 (72)	130 (119)		
	Benzo(a)pyrene	0.4	0.38	ug/L	95				70 (68)	130 (120)		
	Indeno(1,2,3-cd)pyrene	0.4	0.37	ug/L	93				70 (70)	130 (127)		
	Dibenz(a,h)anthracene	0.4	0.37	ug/L	93				70 (65)	130 (121)		
	Benzo(g,h,i)perylene	0.4	0.38	ug/L	95				70 (76)	130 (117)		
	1,4-Dioxane	0.4	0.35	ug/L	88				20 (60)	160 (132)		

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162464BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3440

SAS No.: P3440 SDG NO.: P3440

Lab File ID: BN033252.D

Lab Sample ID: PB162464BL

Instrument ID: BNA_N

Date Extracted: 08/02/2024

Matrix: (soil/water) Water

Date Analyzed: 08/06/2024

Level: (low/med) LOW

Time Analyzed: 02:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162464BS	PB162464BS	BN033253.D	08/06/2024
923-K1-WS-080124	P3440-01	BN033231.D	08/03/2024
923-K1-WS-080124MS	P3440-02MS	BN033232.D	08/03/2024
923-K1-WS-080124MSD	P3440-03MSD	BN033233.D	08/03/2024
922-K1-WS-080124	P3440-04	BN033234.D	08/03/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3440SDG NO.: P3440Lab File ID: BN032615.DDFTPP Injection Date: 07/10/2024Instrument ID: BNA_NDFTPP Injection Time: 15:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.7
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.1
197	Less than 2.0% of mass 198	0.6
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	28.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.9 (19.3) 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	BN032616.D	07/10/2024	15:54
SSTDICC0.2	SSTDICC0.2	BN032617.D	07/10/2024	16:30
SSTDICCC0.4	SSTDICCC0.4	BN032618.D	07/10/2024	17:07
SSTDICC0.8	SSTDICC0.8	BN032619.D	07/10/2024	17:43
SSTDICC1.6	SSTDICC1.6	BN032620.D	07/10/2024	18:19
SSTDICC3.2	SSTDICC3.2	BN032621.D	07/10/2024	18:56
SSTDICC5.0	SSTDICC5.0	BN032622.D	07/10/2024	19:32



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3440 SDG NO.: P3440Lab File ID: BN033227.DDFTPP Injection Date: 08/03/2024Instrument ID: BNA_NDFTPP Injection Time: 07:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	45
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	53.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.4
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.1 (18.1) 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	BN033228.D	08/03/2024	07:59
923-K1-WS-080124	P3440-01	BN033231.D	08/03/2024	10:24
923-K1-WS-080124MS	P3440-02MS	BN033232.D	08/03/2024	11:00
923-K1-WS-080124MSD	P3440-03MSD	BN033233.D	08/03/2024	11:36
922-K1-WS-080124	P3440-04	BN033234.D	08/03/2024	12:12



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: P3440SDG NO.: P3440Lab File ID: BN033239.DDFTPP Injection Date: 08/05/2024Instrument ID: BNA_NDFTPP Injection Time: 16:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.9
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	44.6
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	54.2
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.7
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.9 (20.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN033241.D	08/05/2024	18:39
SSTDICC0.2	SSTDICC0.2	BN033242.D	08/05/2024	19:16
SSTDICCC0.4	SSTDICCC0.4	BN033243.D	08/05/2024	19:53
SSTDICC0.8	SSTDICC0.8	BN033244.D	08/05/2024	20:30
SSTDICC1.6	SSTDICC1.6	BN033245.D	08/05/2024	21:07
SSTDICC3.2	SSTDICC3.2	BN033246.D	08/05/2024	21:44
SSTDICC5.0	SSTDICC5.0	BN033247.D	08/05/2024	22:21



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3440SDG NO.: P3440Lab File ID: BN033250.DDFTPP Injection Date: 08/06/2024Instrument ID: BNA_NDFTPP Injection Time: 00:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	45.2
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (18.7) 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	BN033251.D	08/06/2024	01:28
PB162464BL	PB162464BL	BN033252.D	08/06/2024	02:04
PB162464BS	PB162464BS	BN033253.D	08/06/2024	02:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3440 SAS No.: P3440 SDG NO.: P3440

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/03/2024

Lab File ID: BN033228.D Time Analyzed: 07:59

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	2923	7.495	10082	10.29	5809	14.13
UPPER LIMIT	5846	7.995	20164	10.787	11618	14.633
LOWER LIMIT	1461.5	6.995	5041	9.787	2904.5	13.633
EPA SAMPLE NO.						
01 923-K1-WS-080124	2957	7.52	9517	10.30	5295	14.14
02 923-K1-WS-080124MS	2735	7.51	9491	10.28	5337	14.13
03 923-K1-WS-080124MSD	2521	7.50	8200	10.28	4479	14.13
04 922-K1-WS-080124	2484	7.54	8664	10.30	4994	14.14

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.: P3440 SAS No.: P3440 SDG NO.: P3440

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/03/2024

Lab File ID: BN033228.D Time Analyzed: 07:59

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	11229	16.915	7084	21.14	8355	23.315
UPPER LIMIT	22458	17.415	14168	21.64	16710	23.815
LOWER LIMIT	5614.5	16.415	3542	20.64	4177.5	22.815
EPA SAMPLE NO.						
01 923-K1-WS-080124	10012	16.92	8930	21.13	10262	23.31
02 923-K1-WS-080124MS	10317	16.90	7725	21.13	7969	23.30
03 923-K1-WS-080124MSD	9624	16.91	6930	21.13	7608	23.30
04 922-K1-WS-080124	10648	16.92	7008	21.13	6904	23.31

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.: P3440 SAS No.: P3440 SDG NO.: P3440

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/06/2024

Lab File ID: BN033251.D Time Analyzed: 01:28

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	866	7.51	3240	10.34	2331	14.14
UPPER LIMIT	1732	8.01	6480	10.84	4662	14.637
LOWER LIMIT	433	7.01	1620	9.84	1165.5	13.637
EPA SAMPLE NO.						
01 PB162464BL	1306	7.63	4124	10.51	2380	14.21
02 PB162464BS	1021	7.52	3951	10.33	2796	14.13

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.: P3440 SAS No.: P3440 SDG NO.: P3440

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/06/2024

Lab File ID: BN033251.D Time Analyzed: 01:28

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	5493	16.92	6325	21.125	8047	23.291
UPPER LIMIT	10986	17.42	12650	21.625	16094	23.791
LOWER LIMIT	2746.5	16.42	3162.5	20.625	4023.5	22.791
EPA SAMPLE NO.						
01 PB162464BL	5709	17.01	6775	21.16	7732	23.32
02 PB162464BS	6560	16.91	6887	21.13	8358	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033231.D	1	08/02/24 09:25	08/03/24 10:24	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.11	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.11	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.11	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.11	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.11	ug/L
206-44-0	Fluoranthene	0.030	U	0.030	0.11	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.11	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.040	U	0.040	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.040	U	0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.22	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.24		30 (30) - 150 (150)	61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 (30) - 150 (150)	77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		30 (11) - 130 (175)	60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		30 (10) - 130 (175)	71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (54) - 130 (171)	89%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2960	7.524			
1146-65-2	Naphthalene-d8	9520	10.297			
15067-26-2	Acenaphthene-d10	5300	14.144			
1517-22-2	Phenanthrene-d10	10000	16.915			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033231.D	1	08/02/24 09:25	08/03/24 10:24	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	8930	21.131			
1520-96-3	Perylene-d12	10300	23.307			

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\BN080324\
 Data File : BN033231.D
 Acq On : 03 Aug 2024 10:24
 Operator : MA/JU
 Sample : P3440-01
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 923-K1-WS-080124

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:25:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.524	152	2957m	0.400	ng	0.02
7) Naphthalene-d8	10.297	136	9517	0.400	ng	# 0.01
13) Acenaphthene-d10	14.144	164	5295	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	10012	0.400	ng	# 0.00
29) Chrysene-d12	21.131	240	8930	0.400	ng	0.00
35) Perylene-d12	23.307	264	10262	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.257	112	1027m	0.137	ng	0.01
5) Phenol-d6	7.055	99	882m	0.095	ng	0.17
8) Nitrobenzene-d5	8.877	82	1715	0.239	ng	0.06
11) 2-Methylnaphthalene-d10	11.893	152	3551	0.244	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	541	0.239	ng	-0.03
15) 2-Fluorobiphenyl	12.775	172	5575	0.283	ng	-0.01
27) Fluoranthene-d10	18.952	212	7967	0.308	ng	0.00
31) Terphenyl-d14	19.547	244	6510	0.356	ng	-0.02
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.006	149	2656	0.170	ng	# 76

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

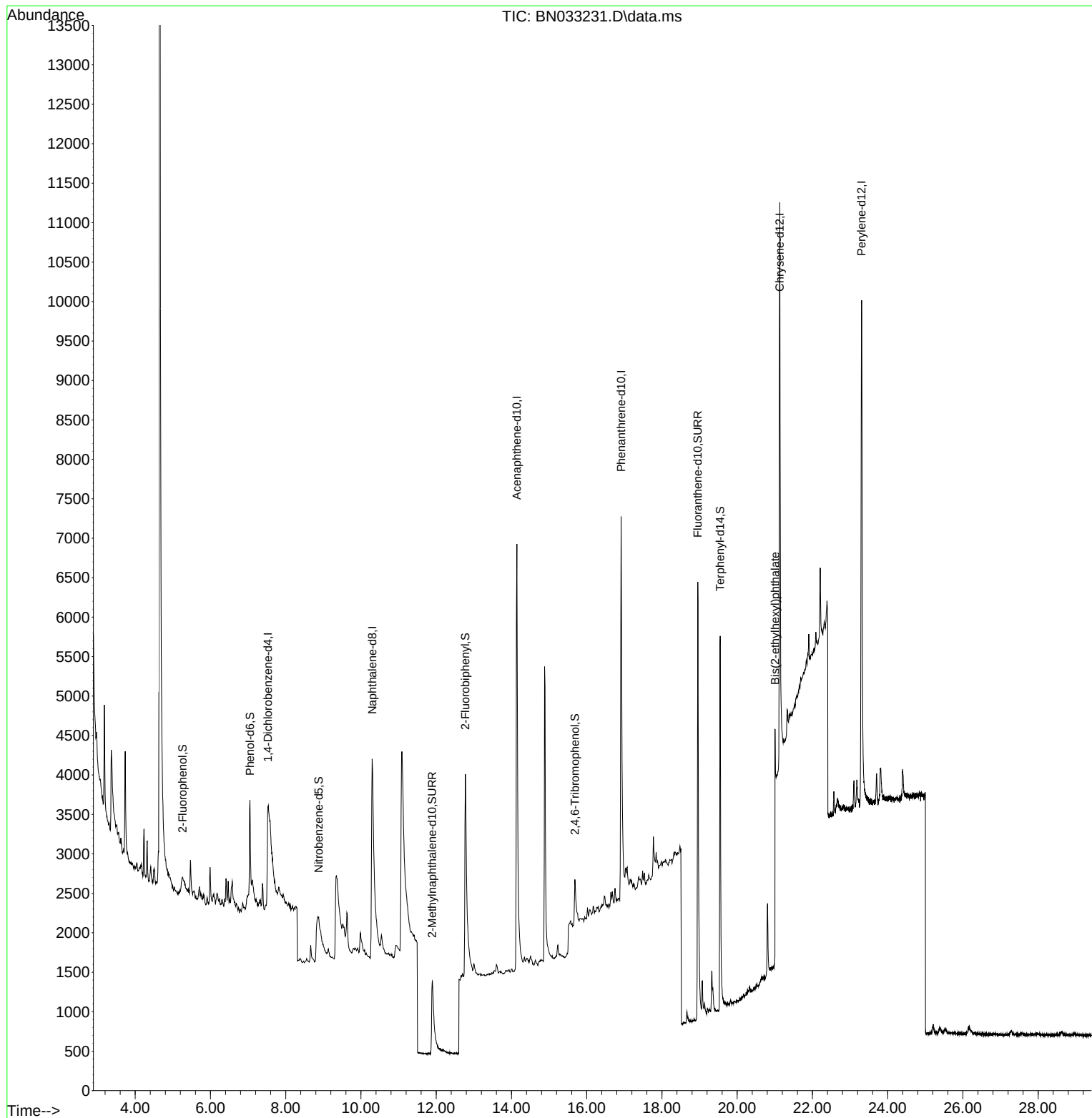
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033231.D
Acq On : 03 Aug 2024 10:24
Operator : MA/JU
Sample : P3440-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

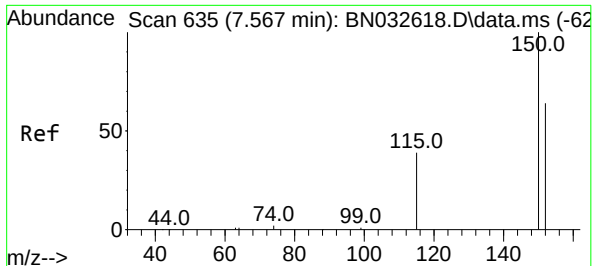
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

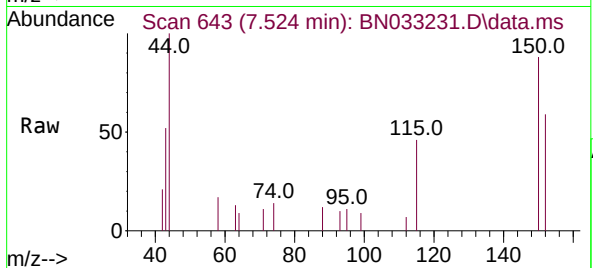
Quant Time: Aug 05 03:25:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.524 min Scan# 643
Delta R.T. 0.021 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

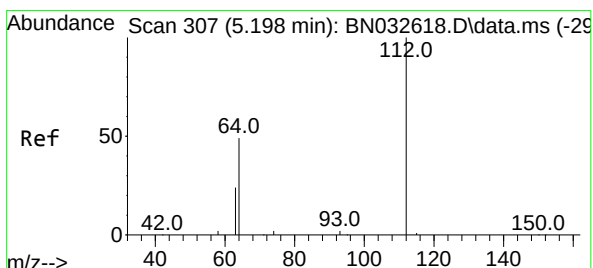
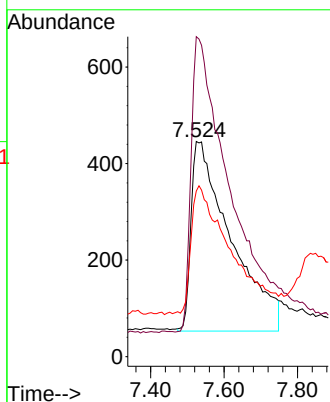
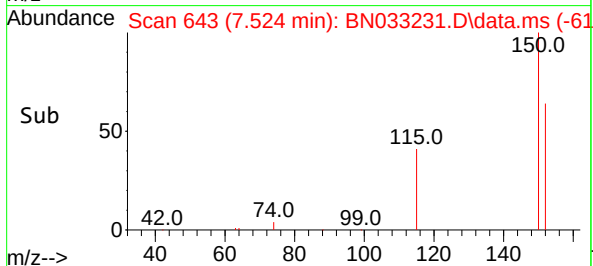
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



Tgt Ion:152 Resp: 295
Ion Ratio Lower Upper
152 100
150 148.7 123.8 185.6
115 76.9 52.8 79.2

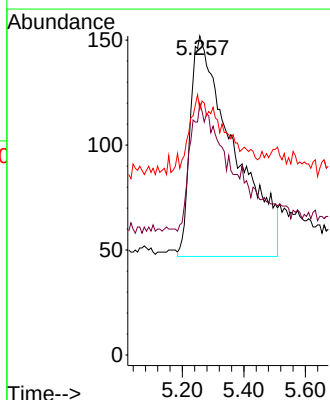
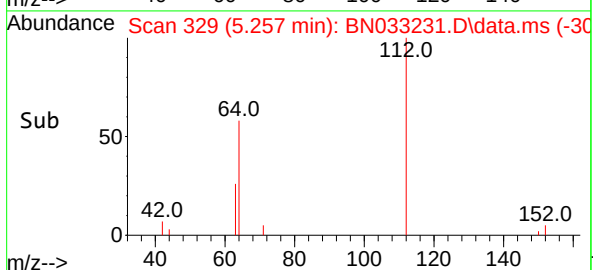
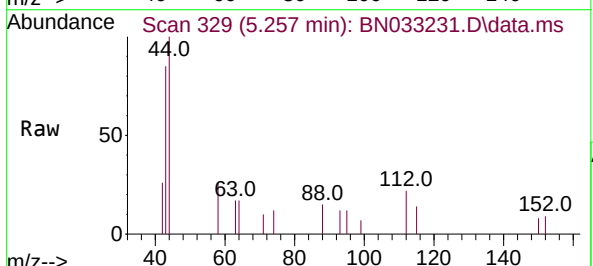
Manual Integrations
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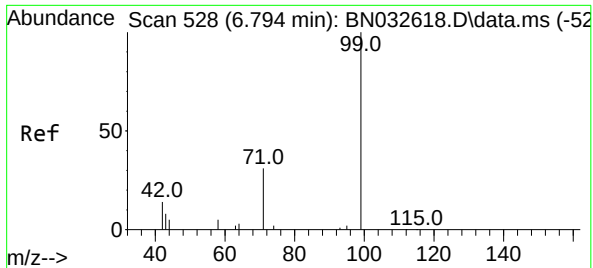
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.137 ng m
RT: 5.257 min Scan# 329
Delta R.T. 0.014 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

Tgt Ion:112 Resp: 1027
Ion Ratio Lower Upper
112 100
64 42.7 40.2 60.4
63 13.6 22.2 33.4





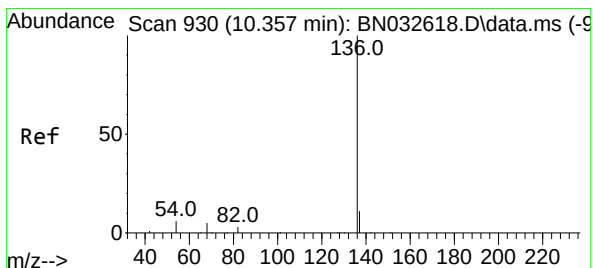
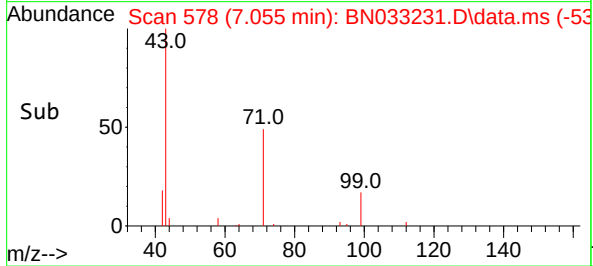
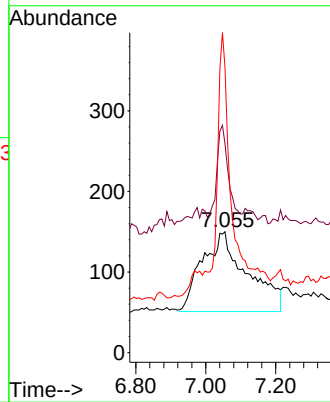
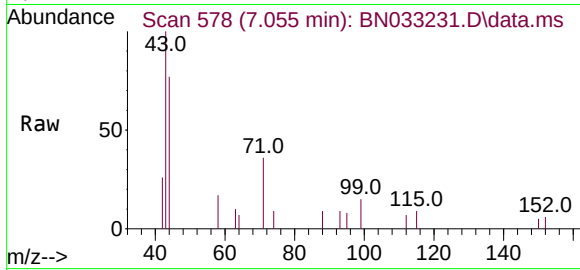
#5
Phenol-d6
Concen: 0.095 ng m
RT: 7.055 min Scan# 51
Delta R.T. 0.173 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124

Tgt Ion: 99 Resp: 88
Ion Ratio Lower Upper
99 100
42 28.7 10.5 15.7
71 73.9 22.3 33.5

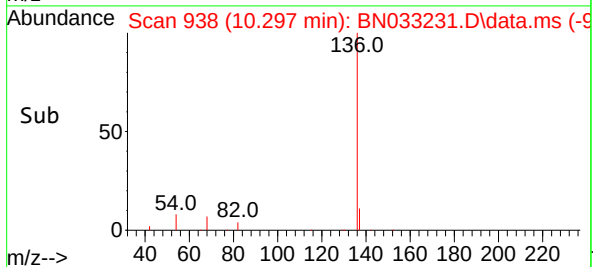
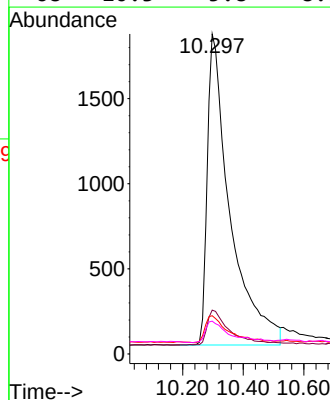
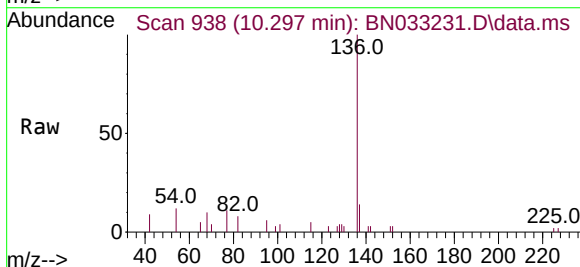
Manual Integrations
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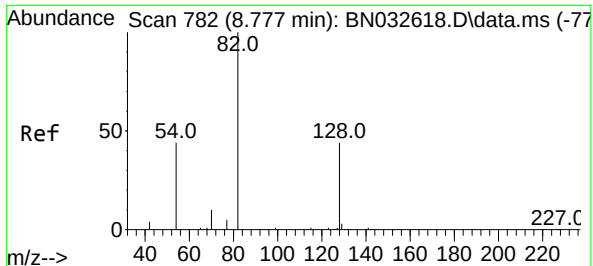
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.297 min Scan# 938
Delta R.T. 0.011 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

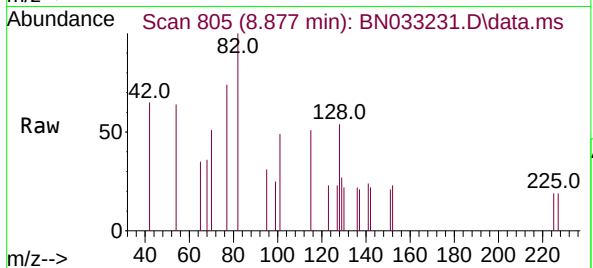
Tgt Ion:136 Resp: 9517
Ion Ratio Lower Upper
136 100
137 13.7 9.9 14.9
54 12.0 6.5 9.7#
68 10.3 5.8 8.8#





#8
Nitrobenzene-d5
Concen: 0.239 ng
RT: 8.877 min Scan# 805
Delta R.T. 0.064 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

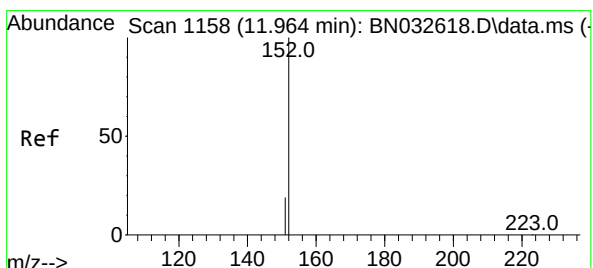
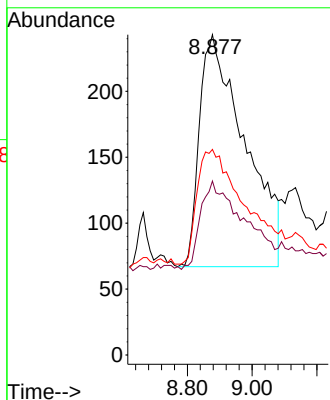
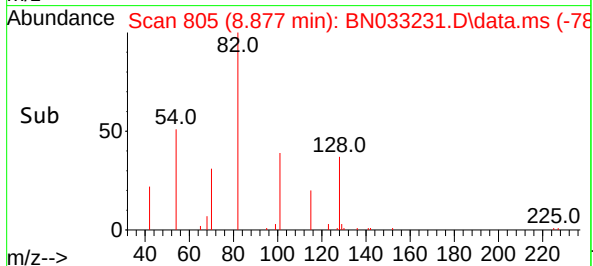
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



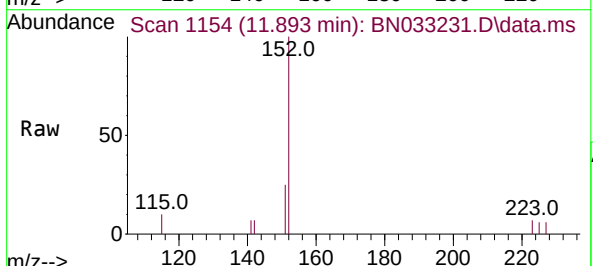
Tgt Ion: 82 Resp: 171
Ion Ratio Lower Upper
82 100
128 54.3 41.7 62.5
54 64.2 39.5 59.3

Manual Integrations
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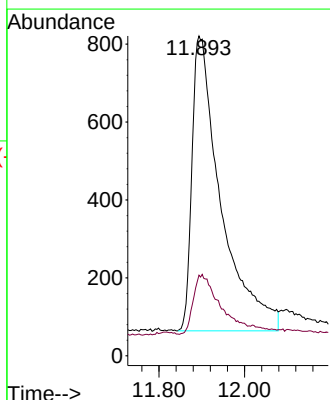
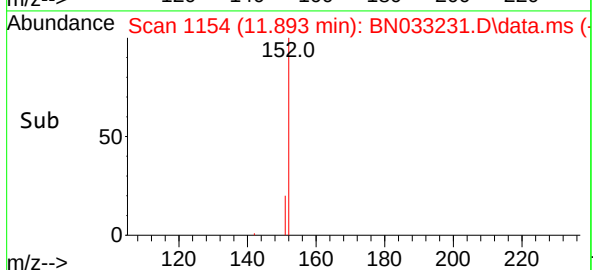
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

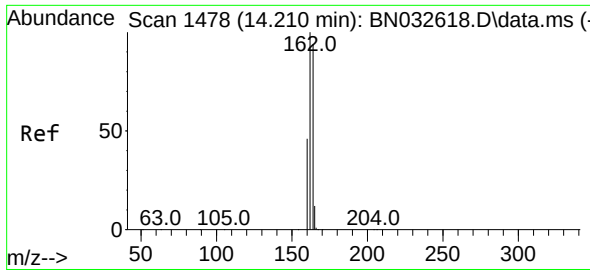


#11
2-Methylnaphthalene-d10
Concen: 0.244 ng
RT: 11.893 min Scan# 1154
Delta R.T. -0.008 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24



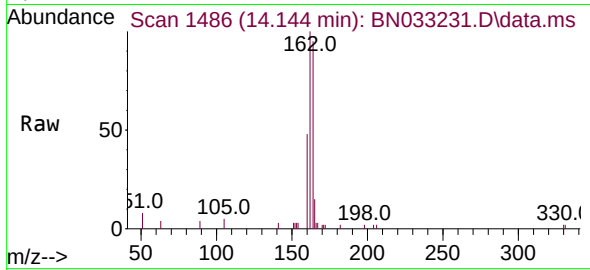
Tgt Ion:152 Resp: 3551
Ion Ratio Lower Upper
152 100
151 19.1 16.2 24.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.144 min Scan# 1478
Delta R.T. 0.007 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

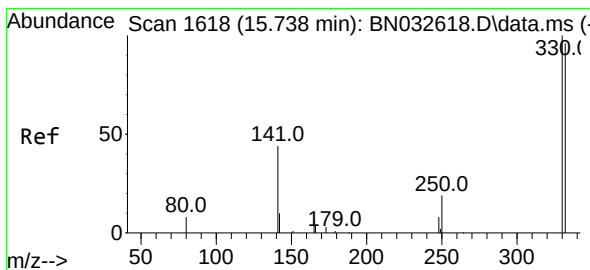
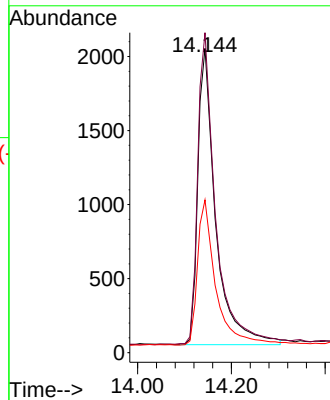
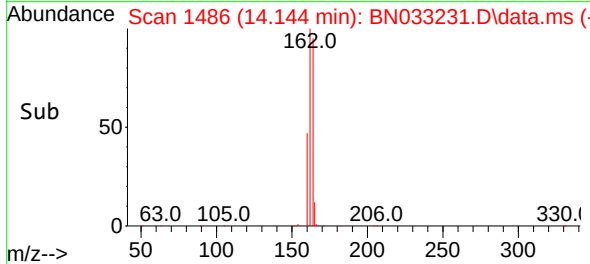
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



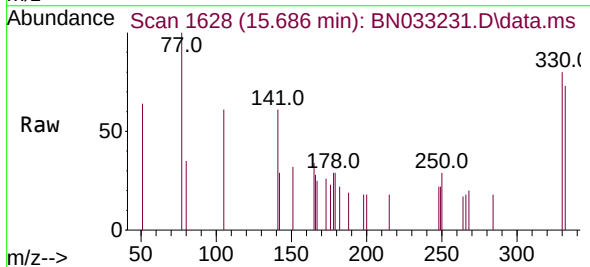
Tgt Ion:164 Resp: 529
Ion Ratio Lower Upper
164 100
162 105.2 85.0 127.4
160 50.2 39.4 59.2

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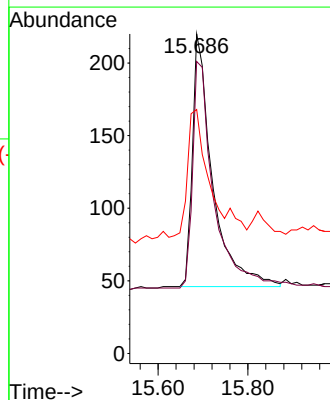
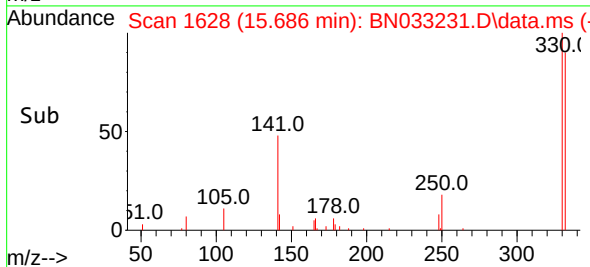
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

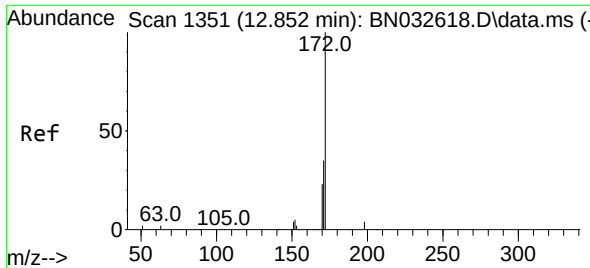


#14
2,4,6-Tribromophenol
Concen: 0.239 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.030 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24



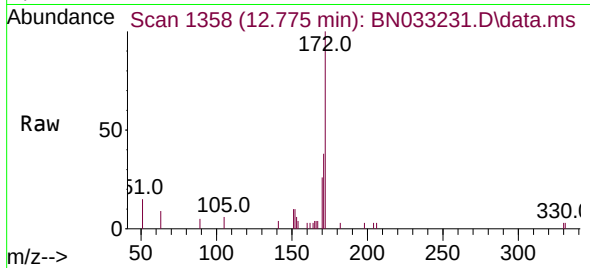
Tgt Ion:330 Resp: 541
Ion Ratio Lower Upper
330 100
332 94.8 77.8 116.8
141 51.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.283 ng
RT: 12.775 min Scan# 11
Delta R.T. -0.014 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

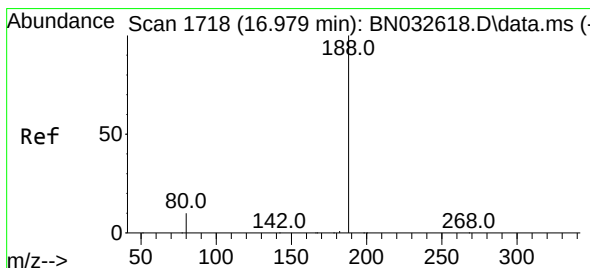
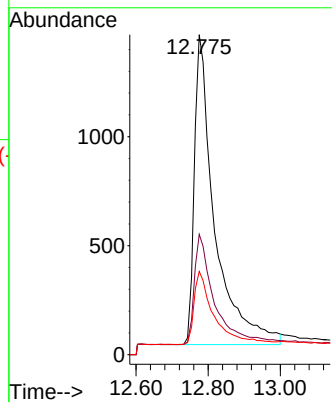
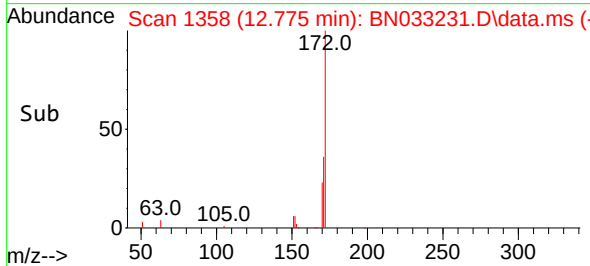
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



Tgt Ion:172 Resp: 557
Ion Ratio Lower Upper
172 100
171 37.6 28.6 43.0
170 26.0 19.0 28.6

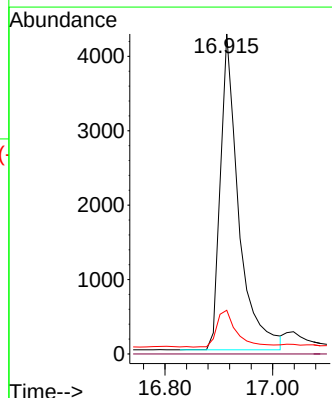
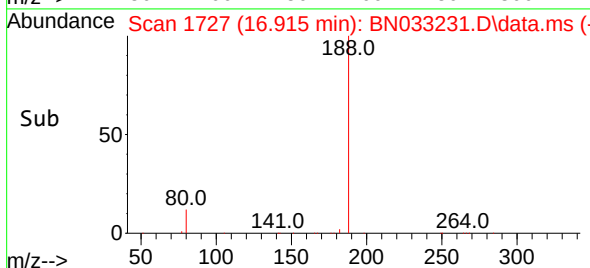
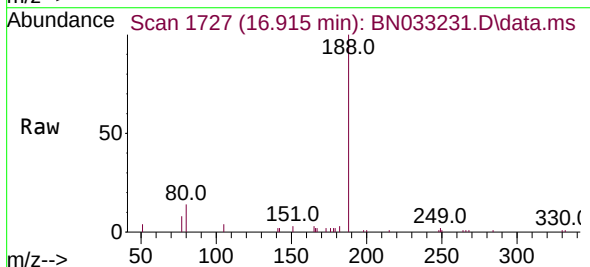
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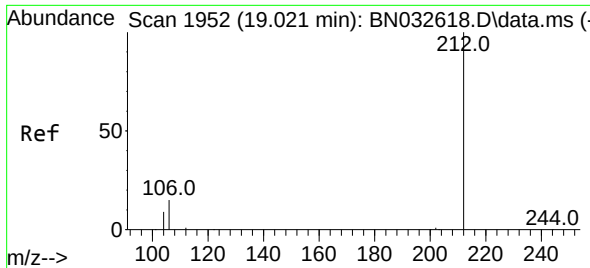
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.915 min Scan# 1727
Delta R.T. -0.005 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

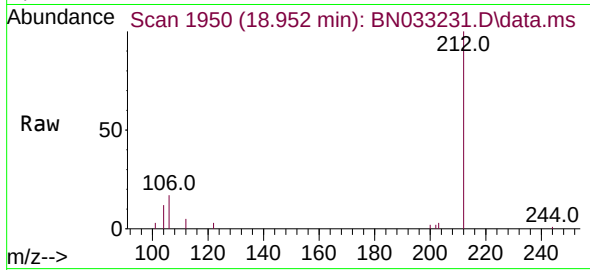
Tgt Ion:188 Resp: 10012
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 8.8 13.2#





#27
Fluoranthene-d10
Concen: 0.308 ng
RT: 18.952 min Scan# 1952
Delta R.T. -0.007 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

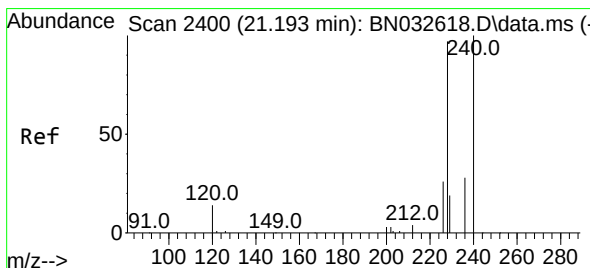
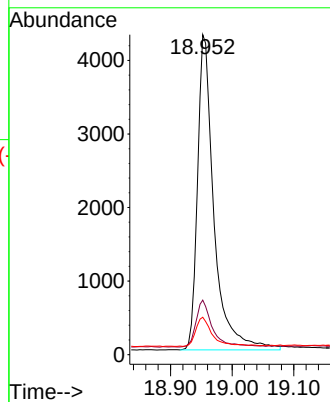
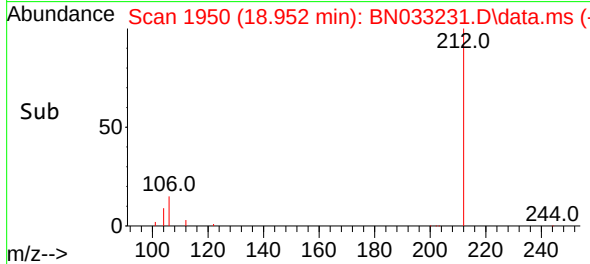
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



Tgt Ion:212 Resp: 796
Ion Ratio Lower Upper
212 100
106 15.0 11.9 17.9
104 9.3 6.9 10.3

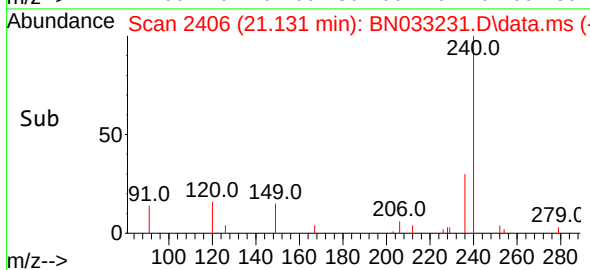
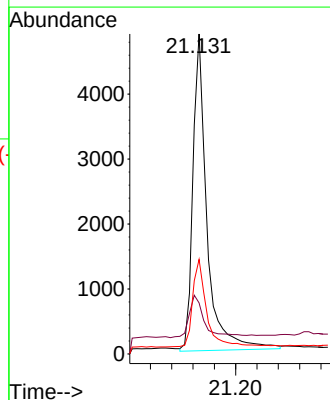
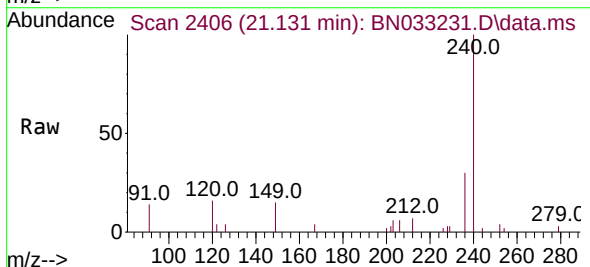
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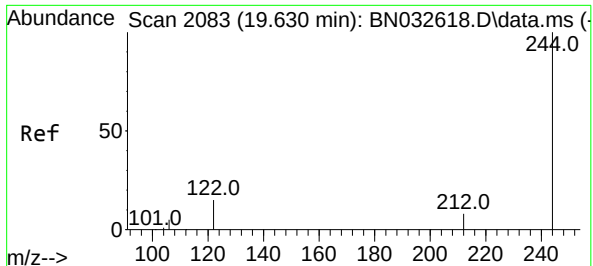
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

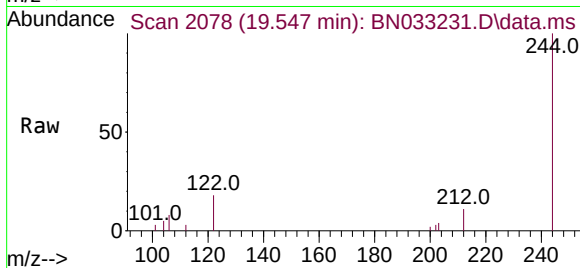
Tgt Ion:240 Resp: 8930
Ion Ratio Lower Upper
240 100
120 16.0 14.8 22.2
236 29.5 23.3 34.9





#31
Terphenyl-d14
Concen: 0.356 ng
RT: 19.547 min Scan# 2083
Delta R.T. -0.016 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

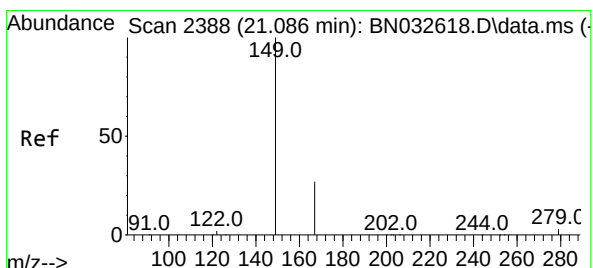
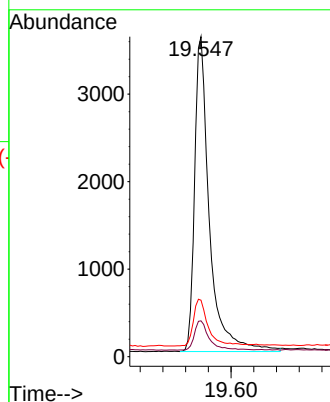
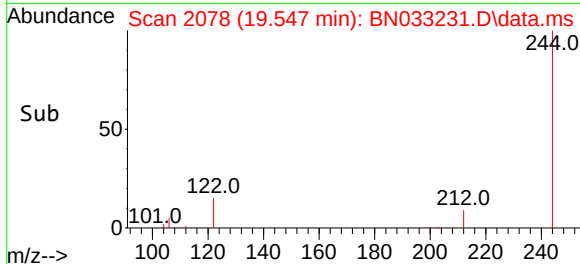
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124



Tgt Ion:244 Resp: 6510
Ion Ratio Lower Upper
244 100
212 11.2 7.5 11.3
122 17.7 12.6 19.0

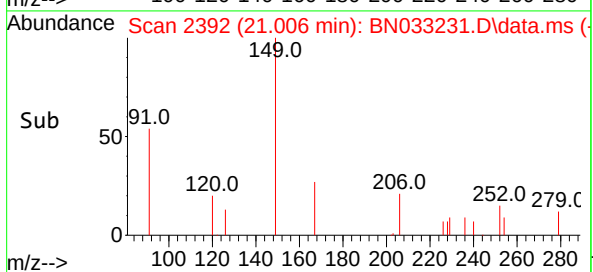
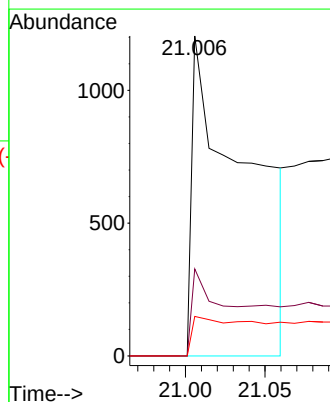
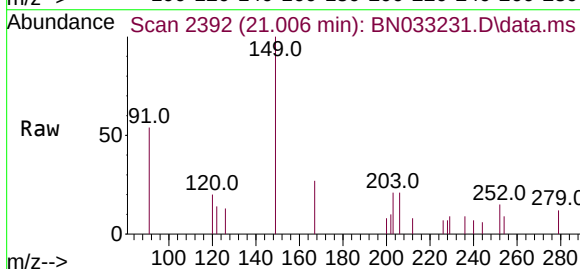
Manual Integrations
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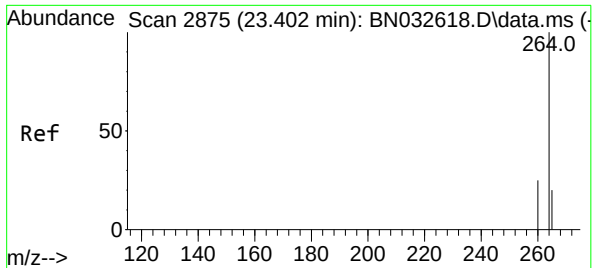
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.170 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN033231.D
Acq: 03 Aug 2024 10:24

Tgt Ion:149 Resp: 2656
Ion Ratio Lower Upper
149 100
167 14.8 21.4 32.2#
279 13.8 2.8 4.2#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN033231.D

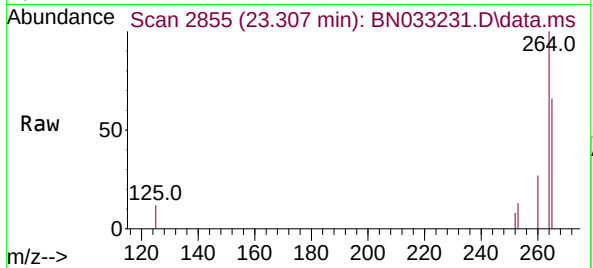
Acq: 03 Aug 2024 10:24

Instrument :

BNA_N

ClientSampleId :

923-K1-WS-080124



Tgt Ion:264 Resp: 1026

Ion Ratio Lower Upper

264 100

260 26.7 20.9 31.3

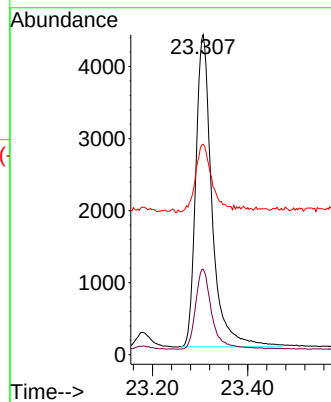
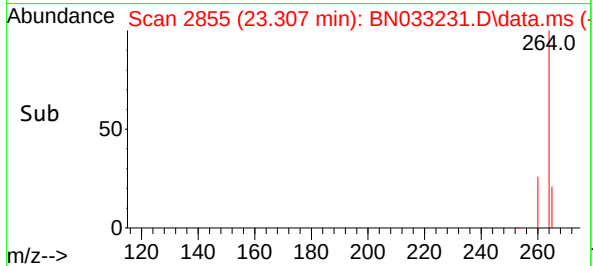
265 65.8 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	922-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	930 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033234.D	1	08/02/24 09:25	08/03/24 12:12	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.11	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.11	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.11	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.11	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.11	ug/L
206-44-0	Fluoranthene	0.040	J	0.020	0.11	ug/L
129-00-0	Pyrene	0.030	J	0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.11	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.040	U	0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.22	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.27		30 (30) - 150 (150)	68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 (30) - 150 (150)	86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		30 (11) - 130 (175)	75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		30 (10) - 130 (175)	72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	30 (54) - 130 (171)	148%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2480	7.539			
1146-65-2	Naphthalene-d8	8660	10.298			
15067-26-2	Acenaphthene-d10	4990	14.144			
1517-22-2	Phenanthrene-d10	10600	16.915			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	922-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	930 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033234.D	1	08/02/24 09:25	08/03/24 12:12	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7010	21.131			
1520-96-3	Perylene-d12	6900	23.312			

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\BN080324\
Data File : BN033234.D
Acq On : 03 Aug 2024 12:12
Operator : MA/JU
Sample : P3440-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:26:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.539	152	2484m	0.400	ng	0.04
7) Naphthalene-d8	10.298	136	8664	0.400	ng	# 0.01
13) Acenaphthene-d10	14.144	164	4994	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	10648	0.400	ng	0.00
29) Chrysene-d12	21.131	240	7008	0.400	ng	# 0.00
35) Perylene-d12	23.312	264	6904	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.249	112	971m	0.155	ng	0.00
5) Phenol-d6	6.961	99	715m	0.092	ng	0.08
8) Nitrobenzene-d5	8.846	82	1944	0.298	ng	0.03
11) 2-Methylnaphthalene-d10	11.886	152	3609	0.272	ng	-0.01
14) 2,4,6-Tribromophenol	15.686	330	602	0.282	ng	-0.03
15) 2-Fluorobiphenyl	12.775	172	5375	0.289	ng	-0.01
27) Fluoranthene-d10	18.953	212	9419	0.342	ng	0.00
31) Terphenyl-d14	19.547	244	8537	0.594	ng	-0.02
Target Compounds						
25) Phenanthrene	16.952	178	958	0.033	ng	99
28) Fluoranthene	18.990	202	1410	0.040	ng	# 82
30) Pyrene	19.357	202	833	0.029	ng	96
34) Bis(2-ethylhexyl)phtha...	21.006	149	3125	0.255	ng	# 78

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

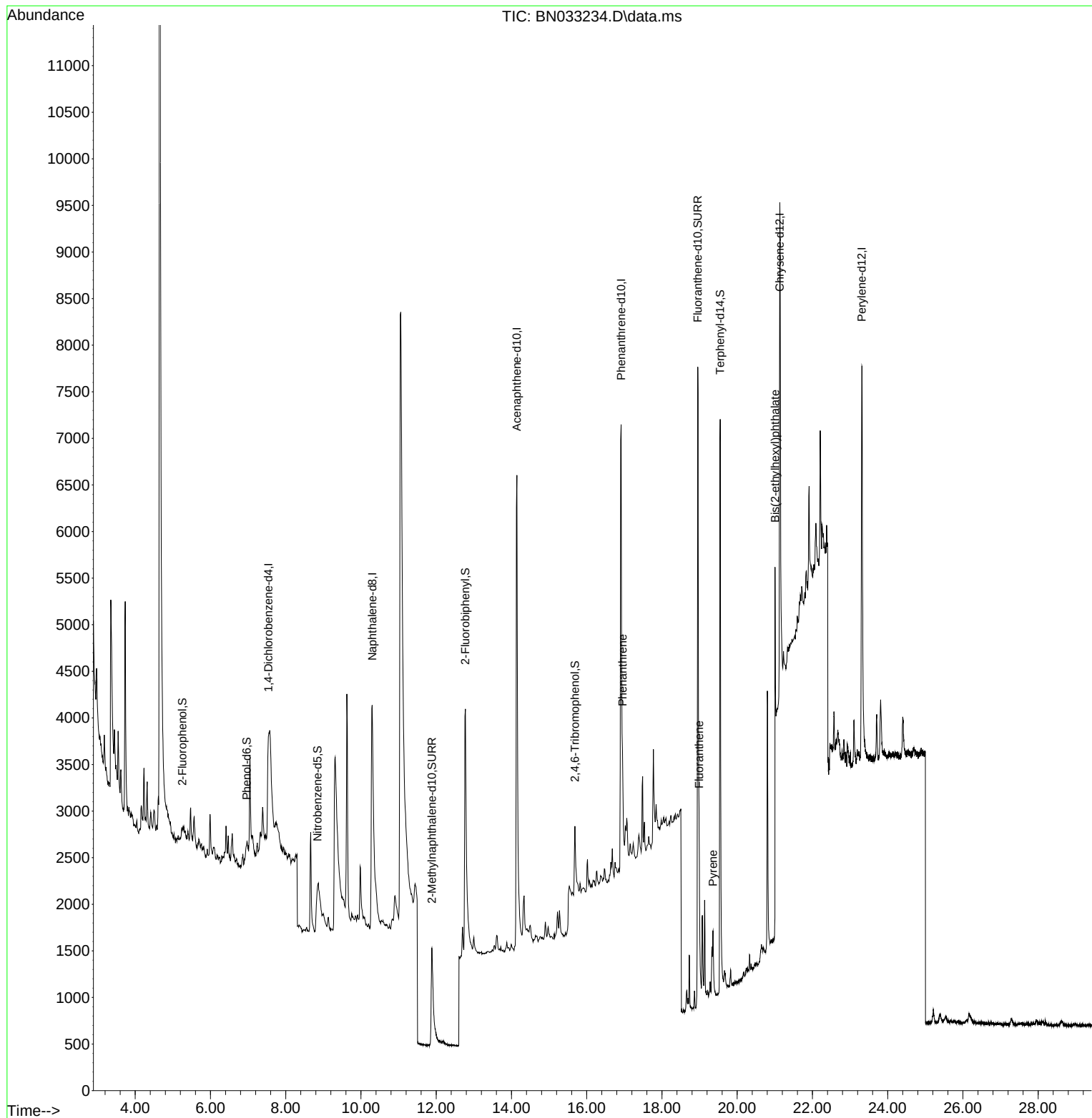
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033234.D
Acq On : 03 Aug 2024 12:12
Operator : MA/JU
Sample : P3440-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

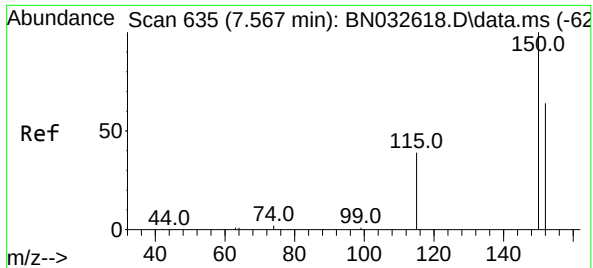
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

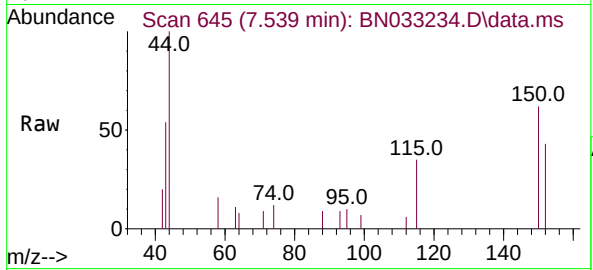
Quant Time: Aug 05 03:26:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.539 min Scan# 645
Delta R.T. 0.036 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

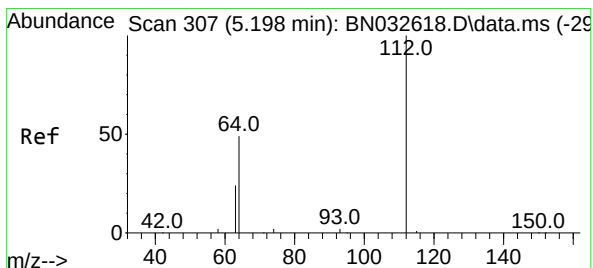
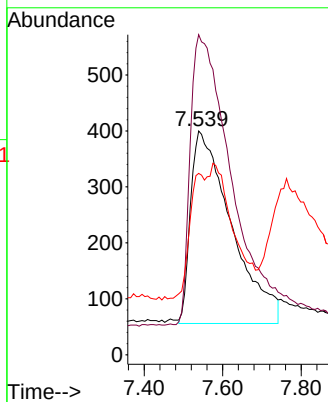
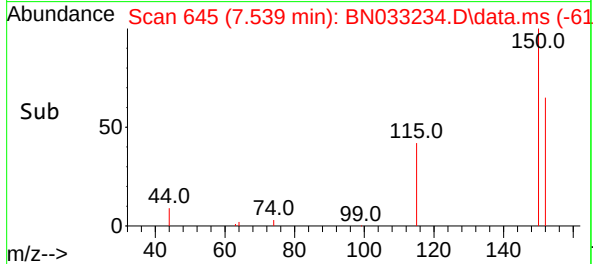
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:152 Resp: 248
Ion Ratio Lower Upper
152 100
150 143.0 123.8 185.6
115 81.0 52.8 79.2

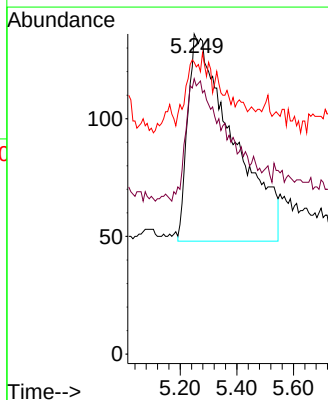
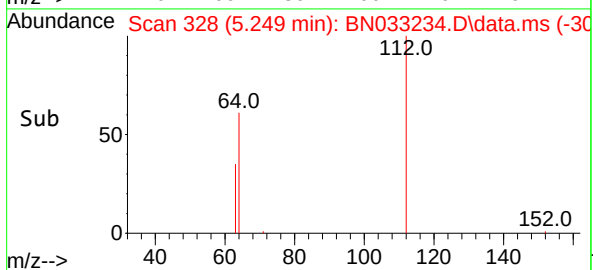
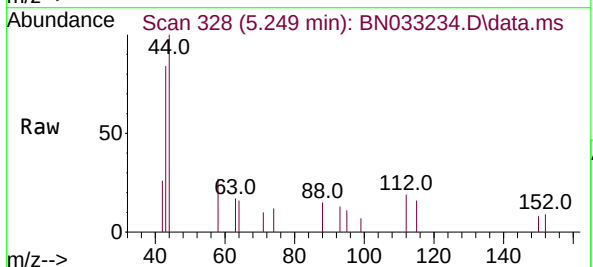
Manual Integrations
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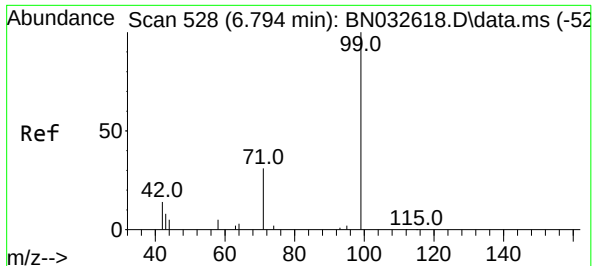
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.155 ng m
RT: 5.249 min Scan# 328
Delta R.T. 0.007 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

Tgt Ion:112 Resp: 971
Ion Ratio Lower Upper
112 100
64 46.9 40.2 60.4
63 7.7 22.2 33.4





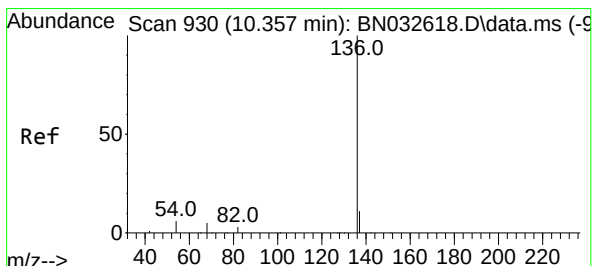
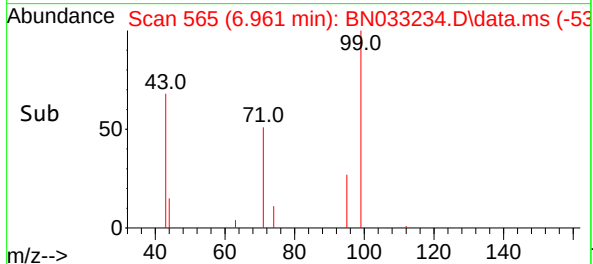
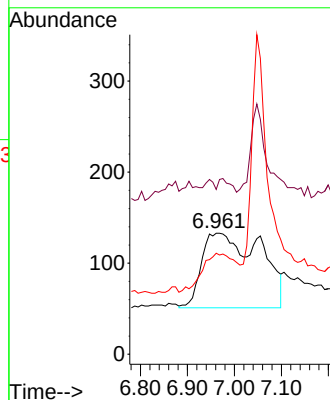
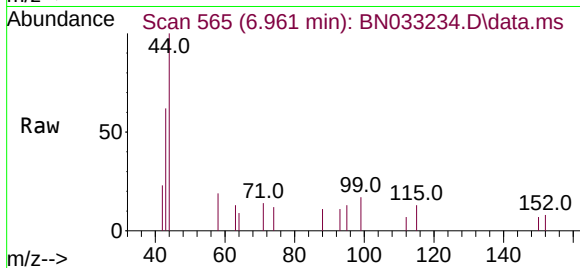
#5
Phenol-d6
Concen: 0.092 ng m
RT: 6.961 min Scan# 528
Delta R.T. 0.080 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124

Tgt Ion: 99 Resp: 715
Ion Ratio Lower Upper
99 100
42 4.1 10.5 15.7
71 29.4 22.3 33.5

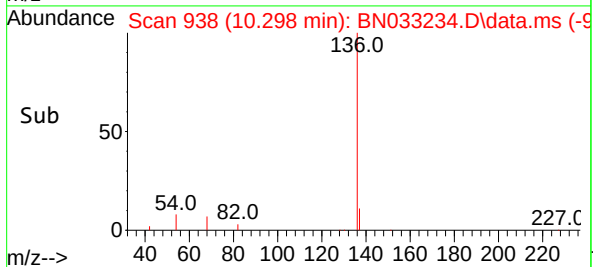
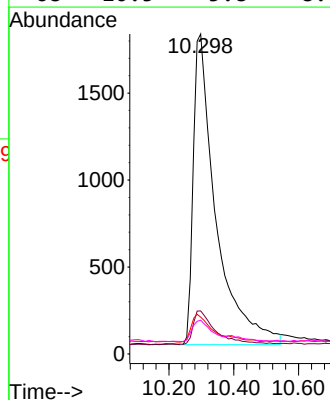
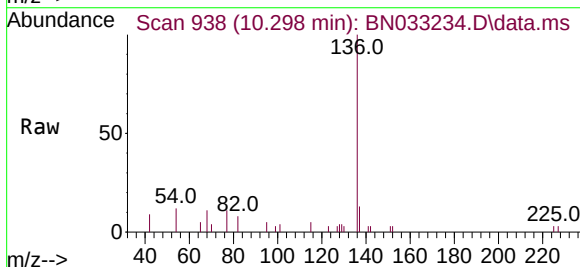
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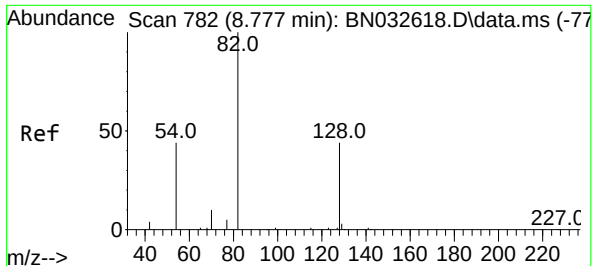
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.298 min Scan# 938
Delta R.T. 0.011 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

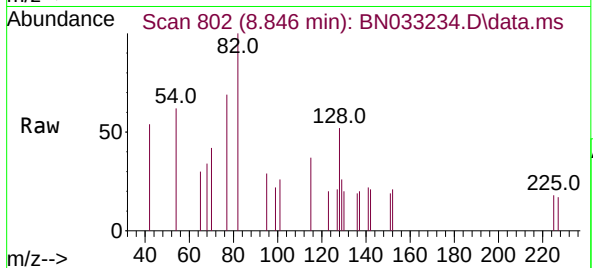
Tgt Ion:136 Resp: 8664
Ion Ratio Lower Upper
136 100
137 13.5 9.9 14.9
54 11.5 6.5 9.7#
68 10.5 5.8 8.8#





#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 8.846 min Scan# 80
Delta R.T. 0.032 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

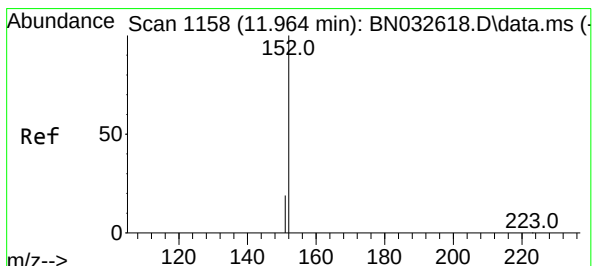
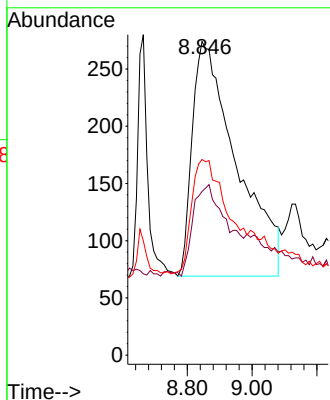
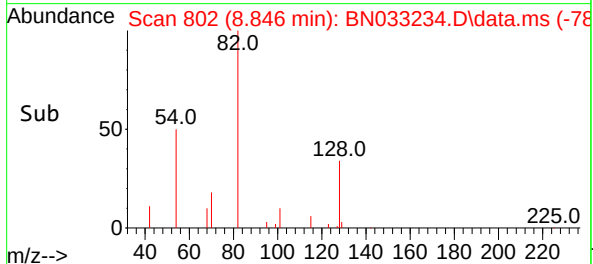
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion: 82 Resp: 194
Ion Ratio Lower Upper
82 100
128 52.2 41.7 62.5
54 62.4 39.5 59.3

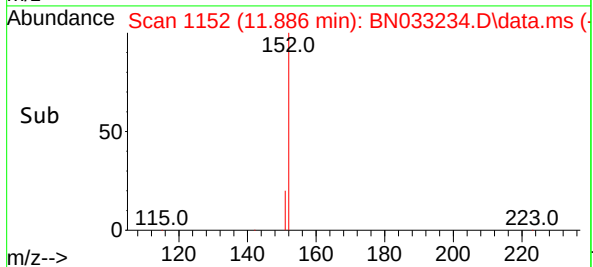
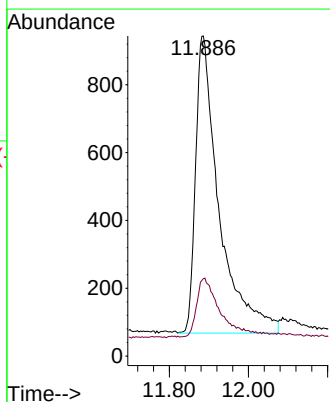
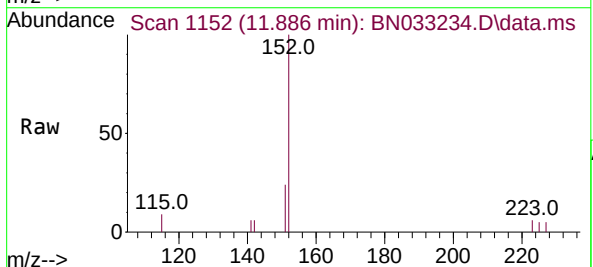
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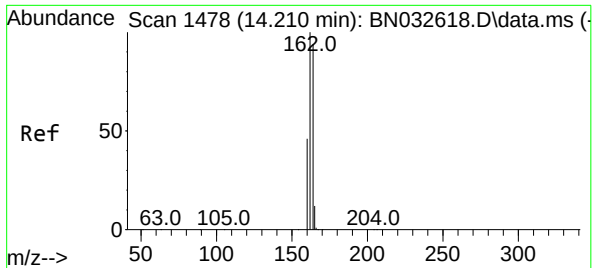
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#11
2-Methylnaphthalene-d10
Concen: 0.272 ng
RT: 11.886 min Scan# 1152
Delta R.T. -0.015 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

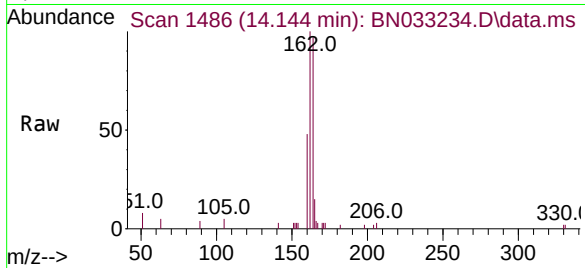
Tgt Ion:152 Resp: 3609
Ion Ratio Lower Upper
152 100
151 18.3 16.2 24.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.144 min Scan# 1478
Delta R.T. 0.007 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

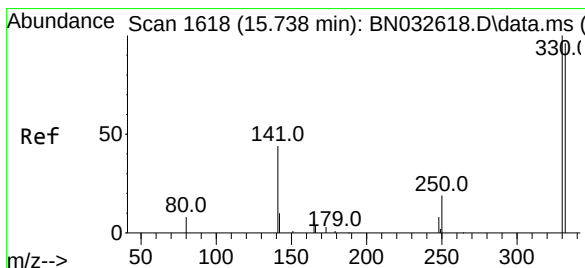
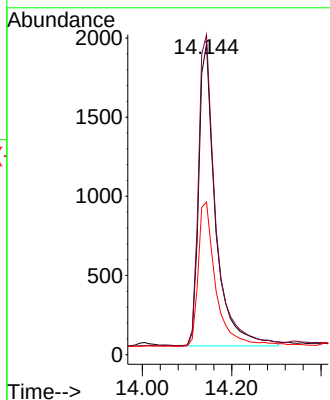
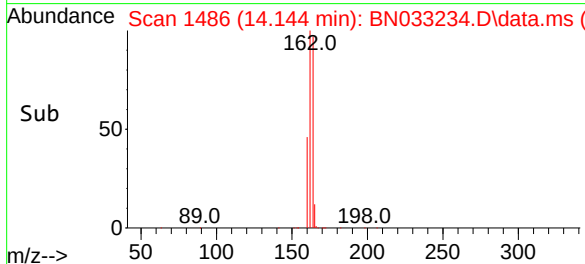
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:164 Resp: 4994
Ion Ratio Lower Upper
164 100
162 103.0 85.0 127.4
160 49.1 39.4 59.2

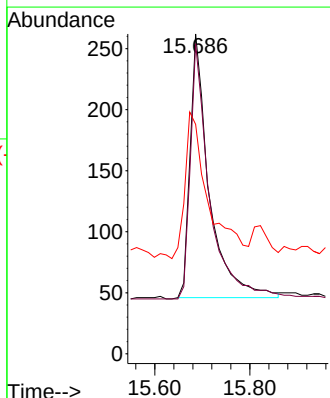
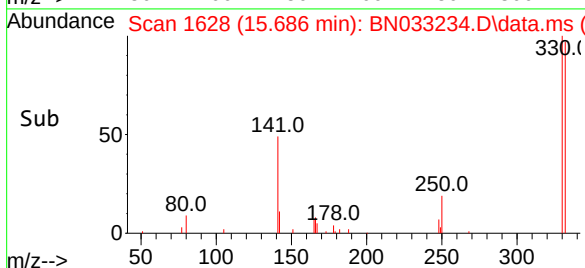
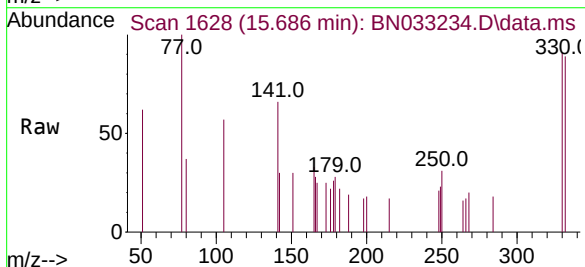
Manual Integrations
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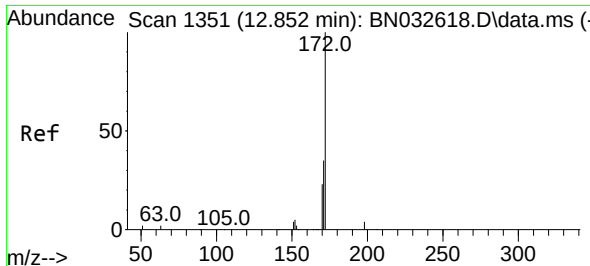
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#14
2,4,6-Tribromophenol
Concen: 0.282 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.030 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

Tgt Ion:330 Resp: 602
Ion Ratio Lower Upper
330 100
332 98.0 77.8 116.8
141 55.5 34.2 51.2#





#15

2-Fluorobiphenyl

Concen: 0.289 ng

RT: 12.775 min Scan# 11

Delta R.T. -0.014 min

Lab File: BN033234.D

Acq: 03 Aug 2024 12:12

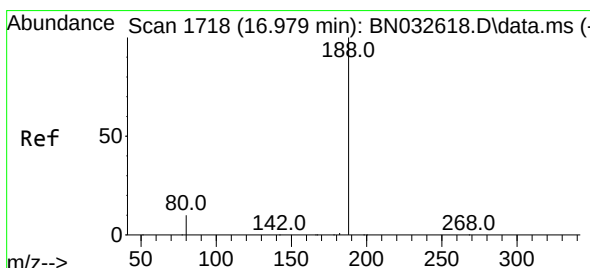
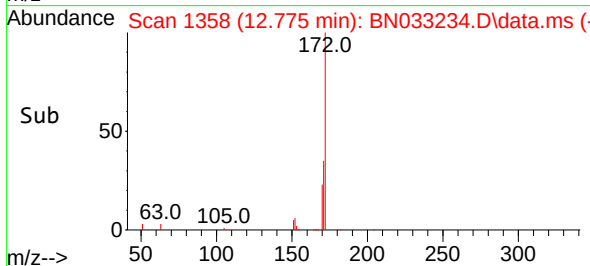
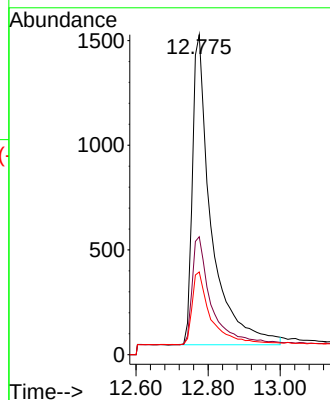
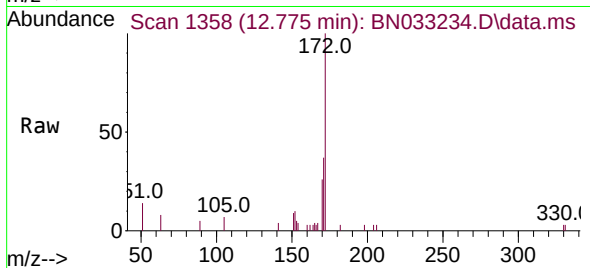
Instrument :

BNA_N

ClientSampleId :

922-K1-WS-080124

Tgt Ion:	172	Resp:	537
Ion Ratio	Lower	Upper	
172	100		
171	36.8	28.6	43.0
170	25.9	19.0	28.6

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#19

Phenanthrene-d10

Concen: 0.400 ng

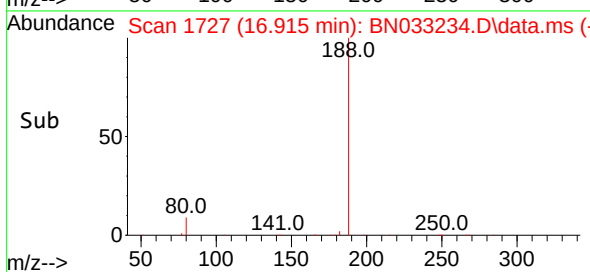
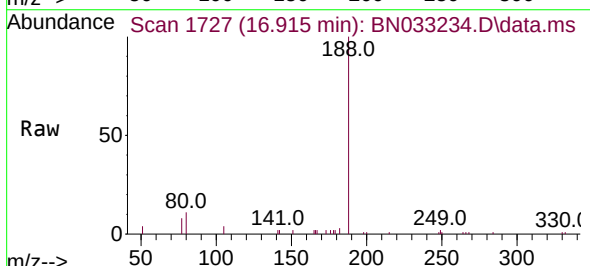
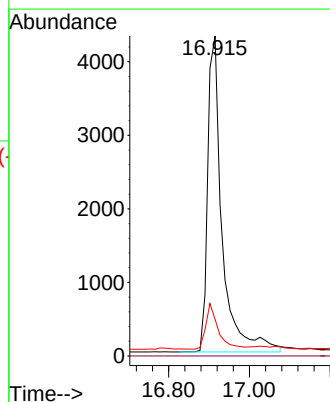
RT: 16.915 min Scan# 1727

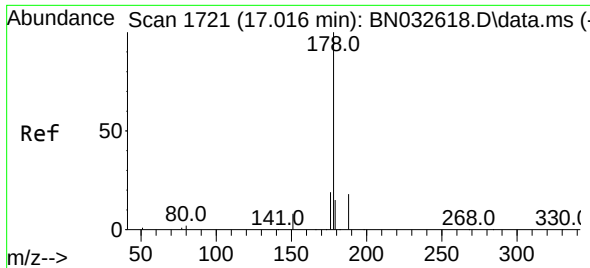
Delta R.T. -0.005 min

Lab File: BN033234.D

Acq: 03 Aug 2024 12:12

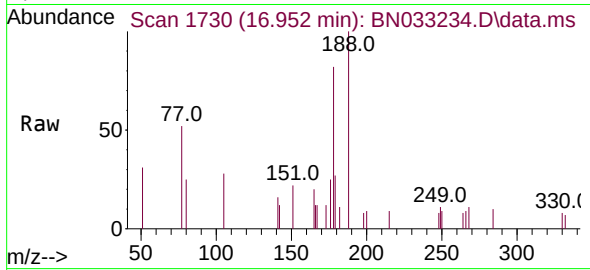
Tgt Ion:	188	Resp:	10648
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.4	8.8	13.2





#25
Phenanthrene
Concen: 0.033 ng
RT: 16.952 min Scan# 1721
Delta R.T. -0.018 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

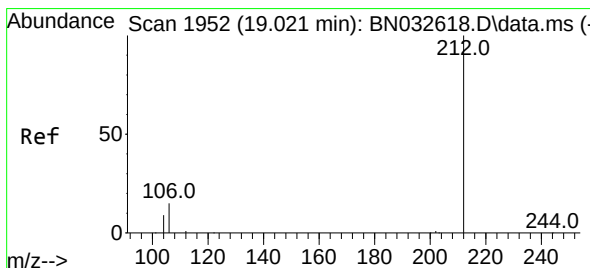
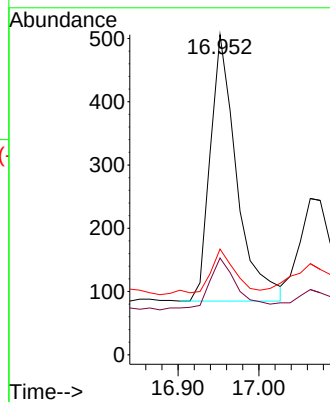
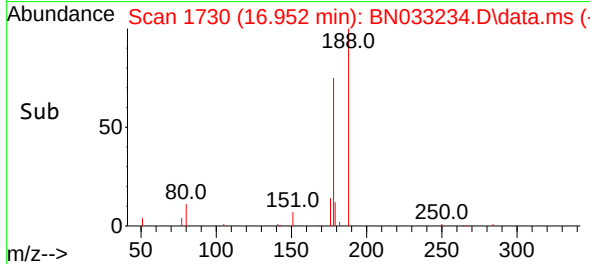
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:178 Resp: 958
Ion Ratio Lower Upper
178 100
176 18.5 15.1 22.7
179 15.0 12.2 18.4

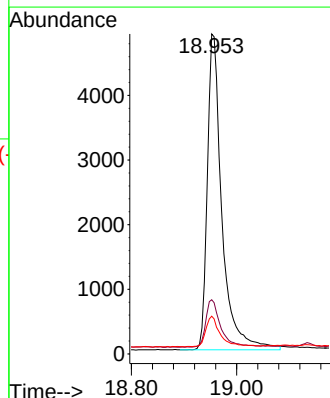
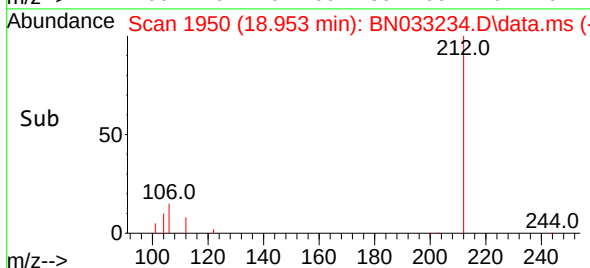
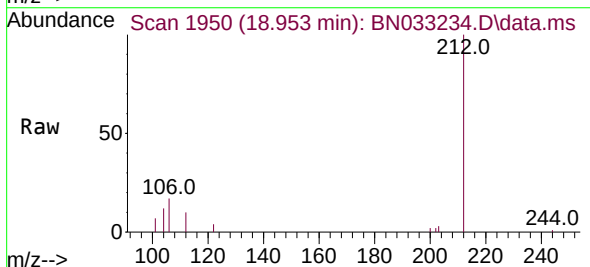
Manual Integrations
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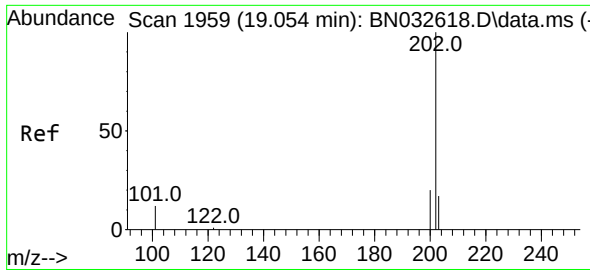
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 18.953 min Scan# 1950
Delta R.T. -0.007 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

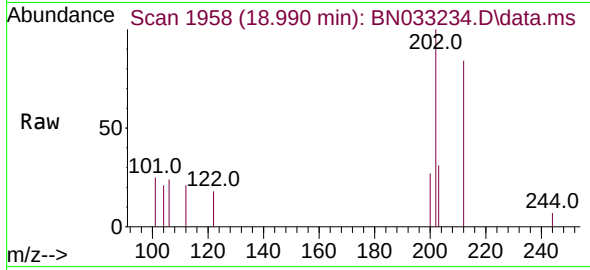
Tgt Ion:212 Resp: 9419
Ion Ratio Lower Upper
212 100
106 15.5 11.9 17.9
104 9.8 6.9 10.3





#28
Fluoranthene
Concen: 0.040 ng
RT: 18.990 min Scan# 1959
Delta R.T. -0.002 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

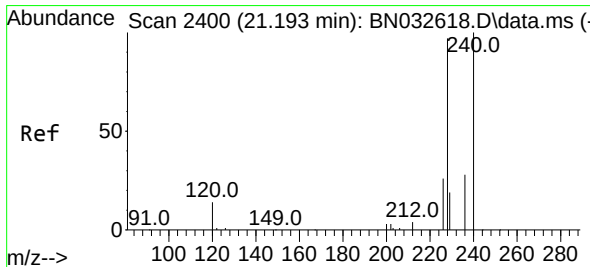
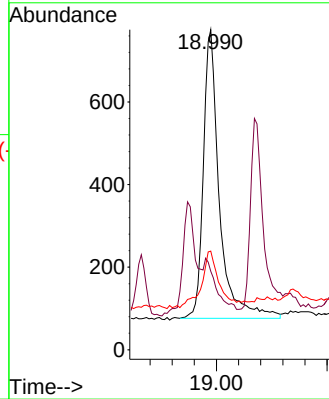
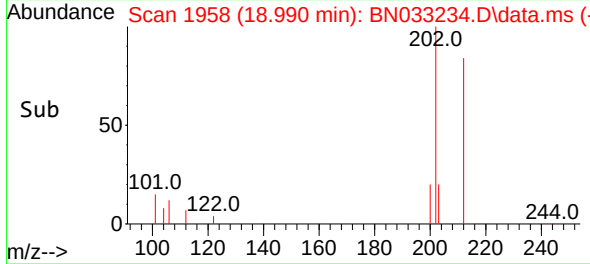
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:202 Resp: 1410
Ion Ratio Lower Upper
202 100
101 0.0 9.6 14.4
203 20.9 13.8 20.6

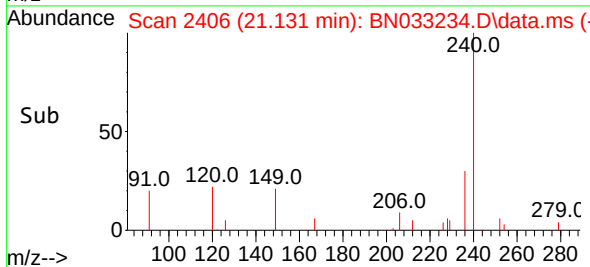
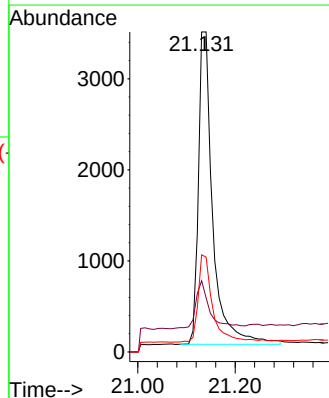
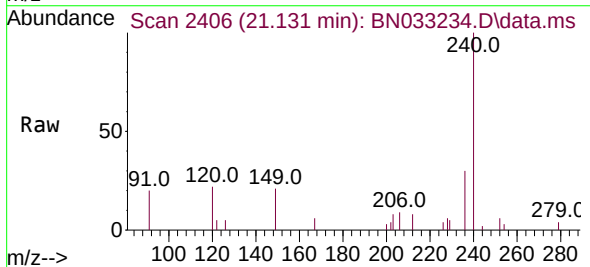
Manual Integrations
APPROVED

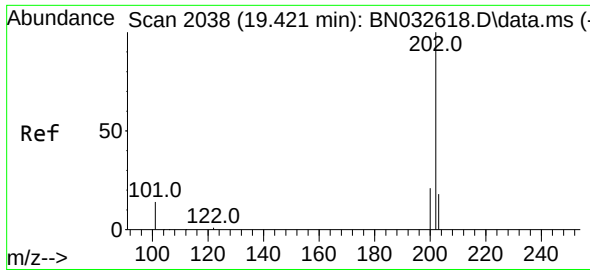
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

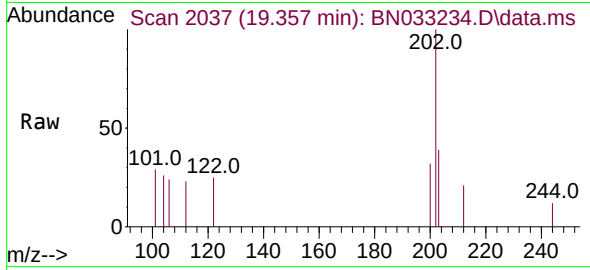
Tgt Ion:240 Resp: 7008
Ion Ratio Lower Upper
240 100
120 22.3 14.8 22.2
236 30.3 23.3 34.9





#30
Pyrene
Concen: 0.029 ng
RT: 19.357 min Scan# 2037
Delta R.T. -0.002 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

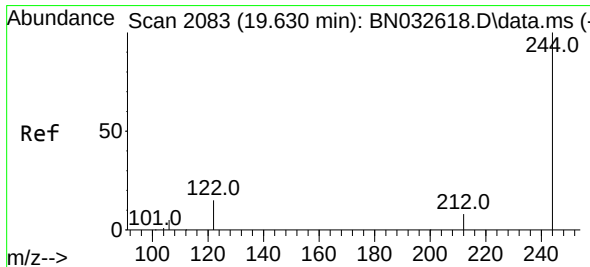
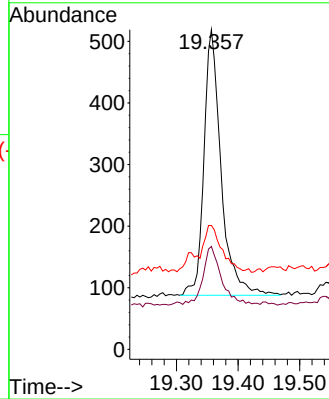
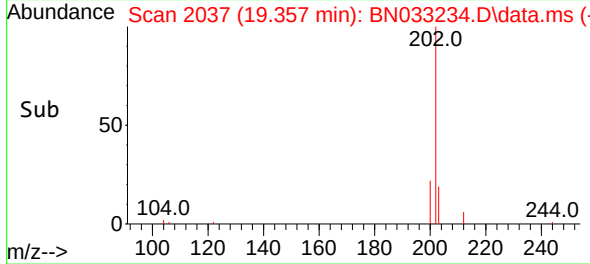
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:202 Resp: 833
Ion Ratio Lower Upper
202 100
200 24.6 16.6 25.0
203 18.5 14.8 22.2

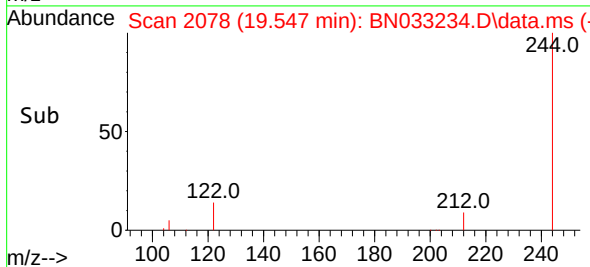
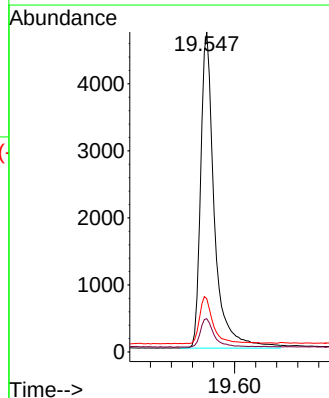
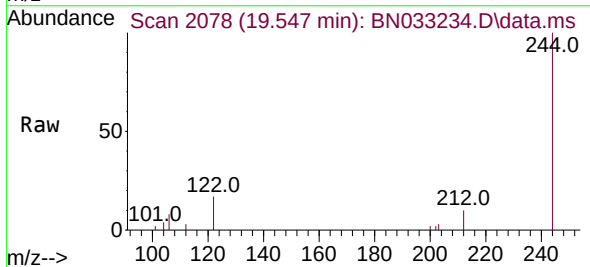
Manual Integrations
APPROVED

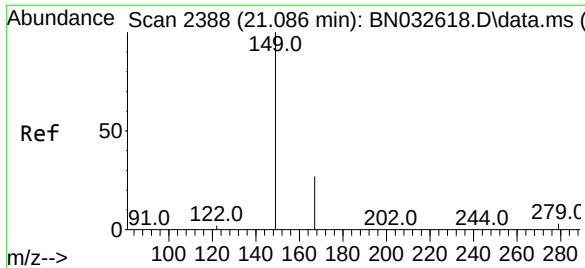
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.594 ng
RT: 19.547 min Scan# 2078
Delta R.T. -0.016 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

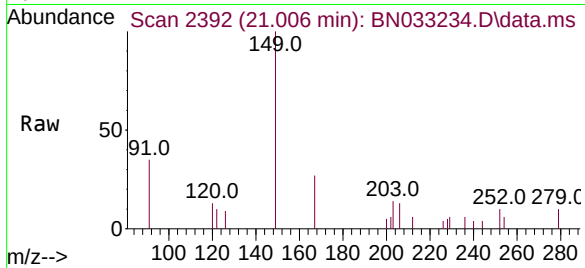
Tgt Ion:244 Resp: 8537
Ion Ratio Lower Upper
244 100
212 10.4 7.5 11.3
122 16.7 12.6 19.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.255 ng
RT: 21.006 min Scan# 2100
Delta R.T. -0.002 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

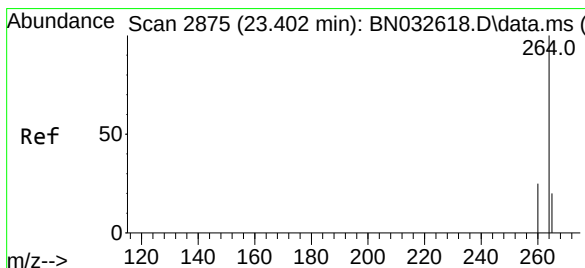
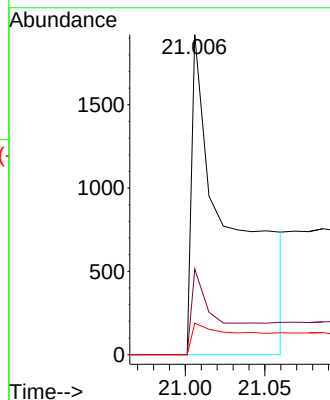
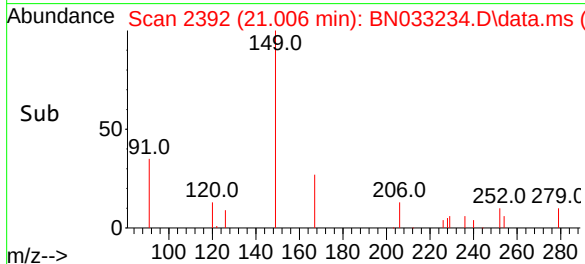
Instrument :
BNA_N
ClientSampleId :
922-K1-WS-080124



Tgt Ion:149 Resp: 312
Ion Ratio Lower Upper
149 100
167 15.9 21.4 32.2
279 12.8 2.8 4.2

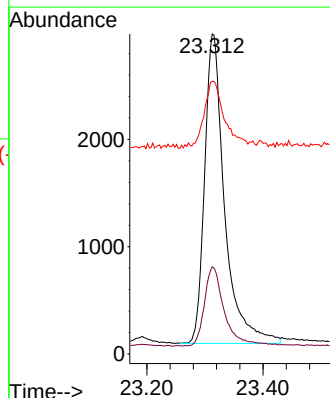
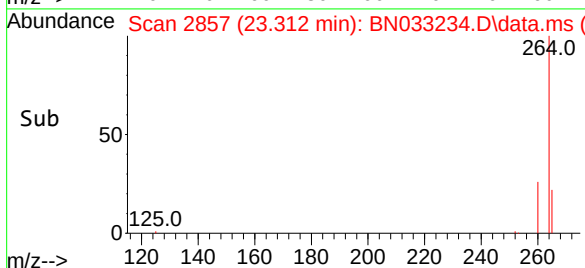
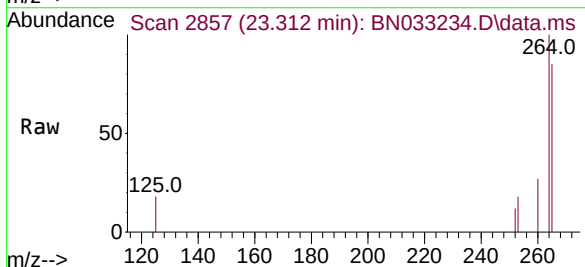
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.312 min Scan# 2857
Delta R.T. -0.002 min
Lab File: BN033234.D
Acq: 03 Aug 2024 12:12

Tgt Ion:264 Resp: 6904
Ion Ratio Lower Upper
264 100
260 27.2 20.9 31.3
265 85.2 85.4 128.2





CALIBRATION SUMMARY

- 1
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- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 10 23:45:48 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN032616.D 0.2 =BN032617.D 0.4 =BN032618.D 0.8 =BN032619.D 1.6 =BN032620.D 3.2 =BN032621.D 5.0 =BN032622.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	0.613	0.525	0.495	0.515	0.476	0.434	0.411	0.496	13.37
3)	n-Nitrosodimet...	0.451	0.408	0.421	0.441	0.428	0.400	0.383	0.419	5.66
4) S	2-Fluorophenol	1.089	0.979	1.038	1.043	1.009	0.974	0.950	1.012	4.79
5) S	Phenol-d6	1.214	1.102	1.258	1.297	1.331	1.282	1.308	1.256	6.20
6)	bis(2-Chloroet...	0.977	0.841	1.059	1.258	1.054	1.062	1.099	1.050	11.98
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.268	0.271	0.291	0.331	0.328	0.310	0.309	0.301	8.50
9)	Naphthalene	1.116	1.074	1.103	1.173	1.147	1.071	1.069	1.108	3.66
10)	Hexachlorobuta...	0.228	0.216	0.214	0.222	0.212	0.197	0.193	0.212	5.95
11) SURR2	Methylnaphth...	0.594	0.576	0.597	0.657	0.650	0.596	0.613	0.612	4.99
12)	2-Methylnaphth...	0.677	0.665	0.697	0.784	0.785	0.720	0.738	0.724	6.64
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.168	0.150	0.153	0.174	0.183	0.173	0.196	0.171	9.39
15) S	2-Fluorobiphenyl	1.471	1.388	1.485	1.608	1.547	1.475	1.448	1.489	4.74
16)	Acenaphthylene	1.493	1.457	1.495	1.715	1.765	1.718	1.747	1.627	8.46
17)	Acenaphthene	1.117	1.088	1.142	1.251	1.212	1.134	1.126	1.153	4.97
18)	Fluorene	1.504	1.473	1.523	1.674	1.635	1.470	1.507	1.541	5.23
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.028	0.034	0.053	0.065	0.071	0.086	0.056		39.53
21)	4-Bromophenyl-...	0.235	0.219	0.231	0.245	0.244	0.237	0.234	0.235	3.79
22)	Hexachlorobenzene	0.270	0.254	0.258	0.277	0.272	0.262	0.249	0.263	3.92
23)	Atrazine	0.164	0.156	0.155	0.182	0.188	0.177	0.191	0.173	8.64
24)	Pentachlorophenol	0.113	0.080	0.081	0.093	0.100	0.103	0.115	0.098	14.14
25)	Phenanthrene	1.036	0.986	1.058	1.197	1.172	1.108	1.095	1.093	6.79
26)	Anthracene	0.760	0.742	0.789	0.963	1.024	1.001	1.019	0.900	14.38
27) SURR	Fluoranthene-d10	1.009	0.987	0.986	1.101	1.097	1.018	1.047	1.035	4.69
28)	Fluoranthene	1.263	1.235	1.250	1.418	1.430	1.316	1.346	1.323	6.01
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.719	1.569	1.692	1.772	1.676	1.506	1.503	1.634	6.58
31) S	Terphenyl-d14	0.861	0.794	0.846	0.886	0.841	0.744	0.767	0.820	6.37
32)	Benzo(a)anthra...	1.224	1.077	1.198	1.352	1.336	1.313	1.354	1.265	8.18
33)	Chrysene	1.490	1.507	1.549	1.597	1.576	1.397	1.410	1.504	5.17
34)	Bis(2-ethylhex...	0.701	0.684	0.604	0.695	0.711	0.703	0.803	0.700	8.28
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071124.M

36)	Indeno(1,2,3-c...	1.547	1.410	1.534	1.674	1.629	1.704	1.539	1.577	6.37
37)	Benzo(b)fluora...	1.190	1.195	1.313	1.544	1.566	1.434	1.510	1.393	11.54
38)	Benzo(k)fluora...	1.502	1.528	1.587	1.770	1.684	1.561	1.514	1.592	6.25
39) C	Benzo(a)pyrene	1.200	1.142	1.203	1.362	1.344	1.272	1.272	1.256	6.37
40)	Dibenzo(a,h)an...	1.180	1.116	1.215	1.323	1.294	1.362	1.228	1.245	6.90
41)	Benzo(g,h,i)pe...	1.374	1.288	1.378	1.459	1.394	1.470	1.293	1.379	5.17

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032616.D
 Acq On : 10 Jul 2024 15:54
 Operator : MA/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:37:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	3647	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	10629	0.400	ng	0.00
13) Acenaphthene-d10	14.221	164	7010	0.400	ng	0.01
19) Phenanthrene-d10	16.991	188	14894	0.400	ng	0.01
29) Chrysene-d12	21.202	240	11292	0.400	ng	0.00
35) Perylene-d12	23.405	264	11367	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	993	0.108	ng	0.00
5) Phenol-d6	6.808	99	1107	0.097	ng	0.01
8) Nitrobenzene-d5	8.788	82	711	0.089	ng	0.01
11) 2-Methylnaphthalene-d10	11.975	152	1578	0.097	ng	0.01
14) 2,4,6-Tribromophenol	15.750	330	295	0.098	ng	0.01
15) 2-Fluorobiphenyl	12.852	172	2578	0.099	ng	0.00
27) Fluoranthene-d10	19.026	212	3757	0.097	ng	0.00
31) Terphenyl-d14	19.630	244	2431	0.105	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	559	0.124	ng	# 89
3) n-Nitrosodimethylamine	3.472	42	411	0.108	ng	# 98
6) bis(2-Chloroethyl)ether	7.025	93	891	0.093	ng	93
9) Naphthalene	10.400	128	2965	0.101	ng	# 87
10) Hexachlorobutadiene	10.645	225	605	0.108	ng	# 100
12) 2-Methylnaphthalene	12.051	142	1800	0.094	ng	# 90
16) Acenaphthylene	13.943	152	2617	0.092	ng	99
17) Acenaphthene	14.285	154	1957	0.097	ng	98
18) Fluorene	15.290	166	2636	0.098	ng	100
21) 4-Bromophenyl-phenylether	16.185	248	876	0.100	ng	93
22) Hexachlorobenzene	16.284	284	1007	0.103	ng	97
23) Atrazine	16.470	200	610	0.095	ng	# 88
24) Pentachlorophenol	16.669	266	420	0.115	ng	95
25) Phenanthrene	17.029	178	3858	0.095	ng	100
26) Anthracene	17.128	178	2830	0.084	ng	98
28) Fluoranthene	19.059	202	4704	0.096	ng	99
30) Pyrene	19.426	202	4853	0.105	ng	99
32) Benzo(a)anthracene	21.193	228	3454	0.097	ng	94
33) Chrysene	21.238	228	4205	0.099	ng	96
34) Bis(2-ethylhexyl)phtha...	21.086	149	1979	0.100	ng	99
36) Indeno(1,2,3-cd)pyrene	25.645	276	4395	0.098	ng	94
37) Benzo(b)fluoranthene	22.750	252	3381	0.085	ng	# 51
38) Benzo(k)fluoranthene	22.794	252	4269m	0.093	ng	
39) Benzo(a)pyrene	23.320	252	3411	0.096	ng	# 38
40) Dibenzo(a,h)anthracene	25.654	278	3352	0.095	ng	# 64
41) Benzo(g,h,i)perylene	26.323	276	3904	0.100	ng	# 82

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032616.D
Acq On : 10 Jul 2024 15:54
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

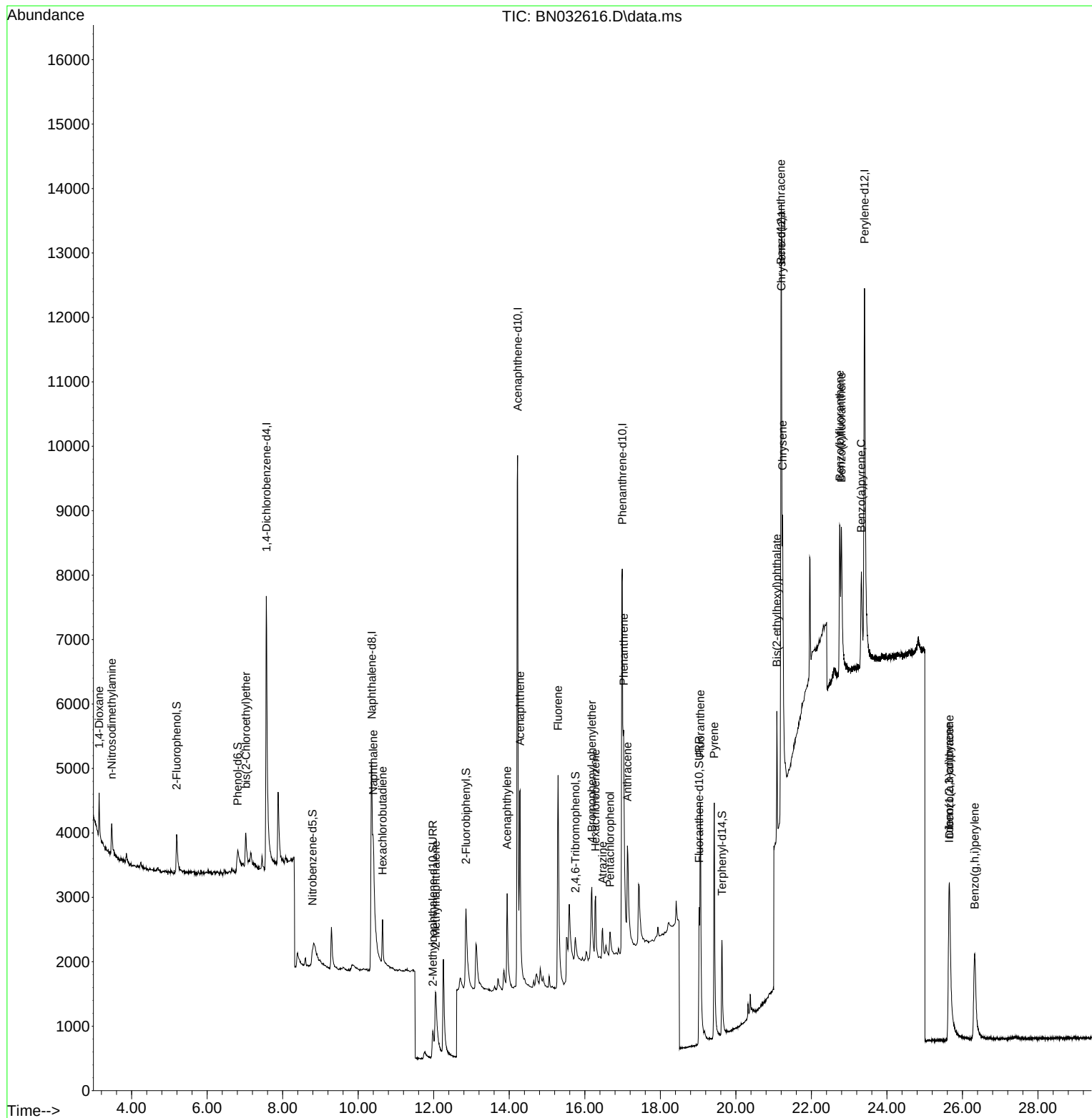
Manual Integrations

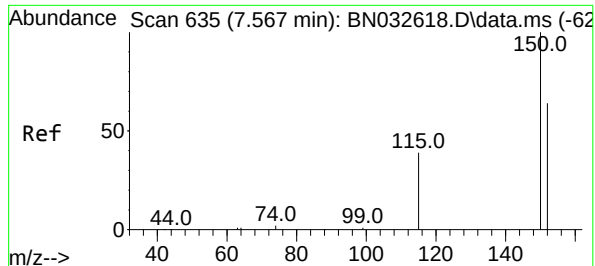
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

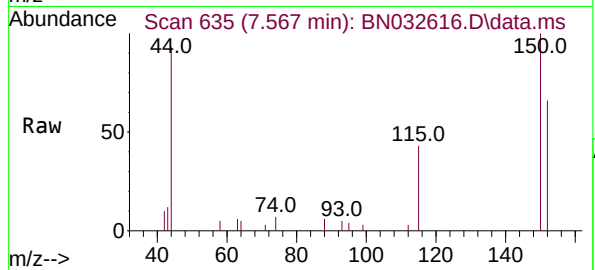
Quant Time: Jul 10 23:37:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

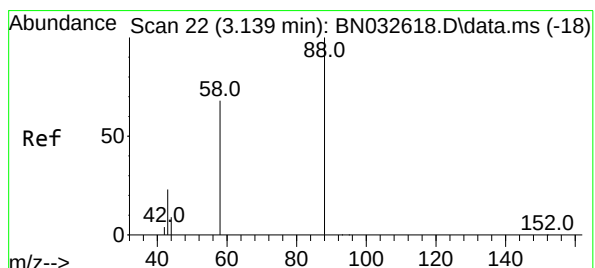
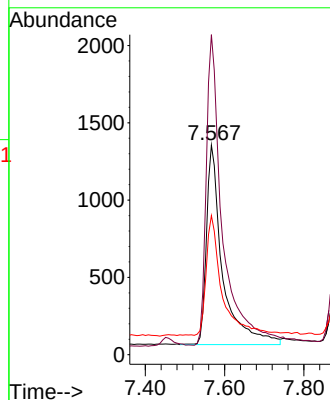
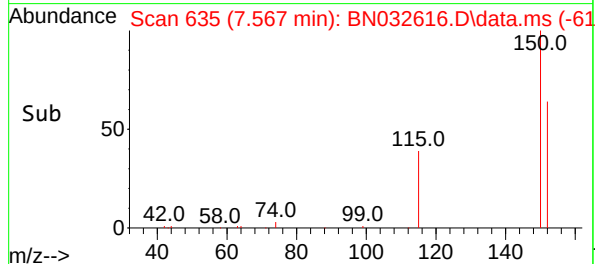
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 364
Ion Ratio Lower Upper
152 100
150 152.7 123.8 185.6
115 66.4 52.8 79.2

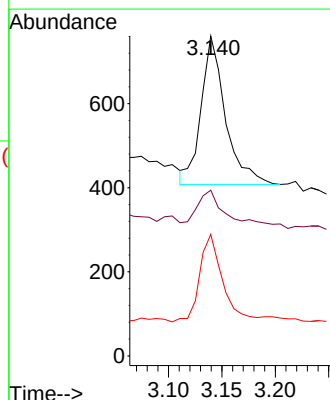
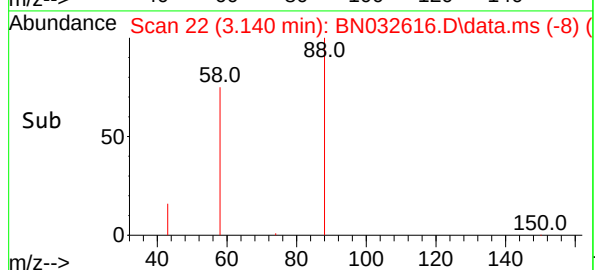
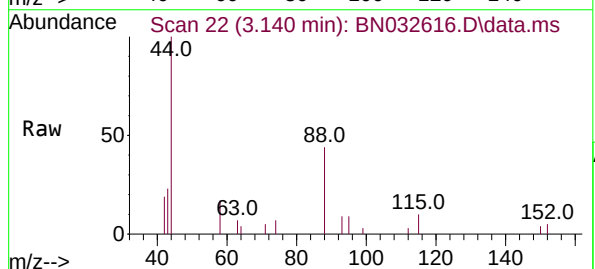
Manual Integrations
APPROVED

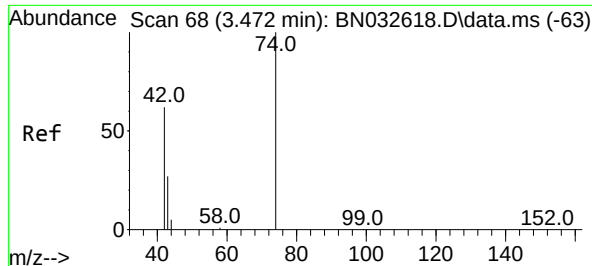
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.124 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

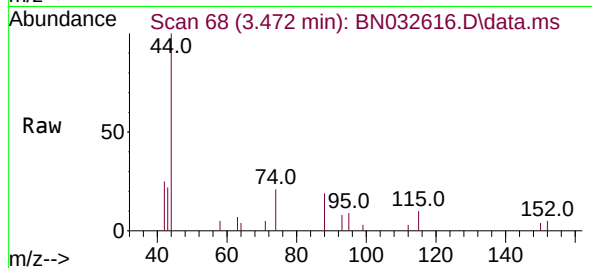
Tgt Ion: 88 Resp: 559
Ion Ratio Lower Upper
88 100
43 33.1 18.4 27.6#
58 55.5 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

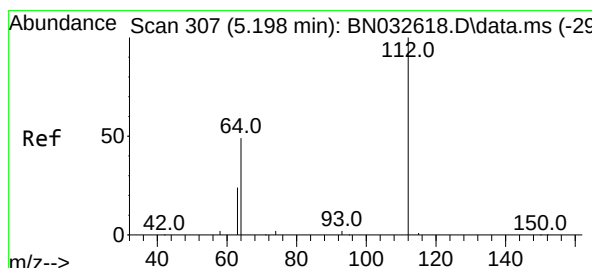
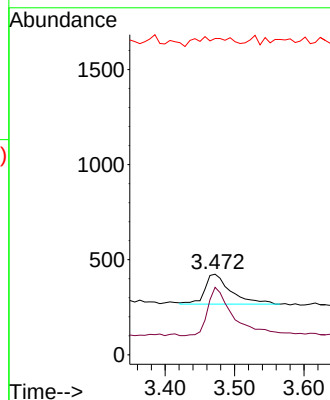
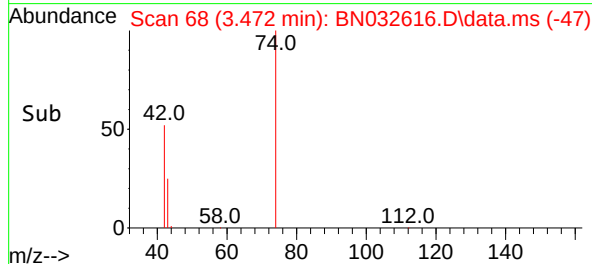
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
74 160.3 126.9 190.3
44 0.0 4.8 7.2

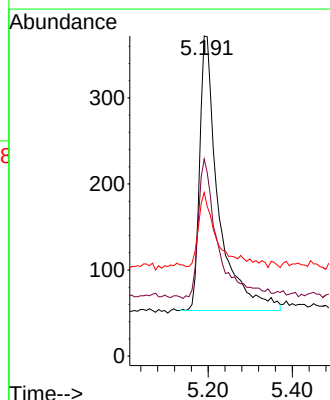
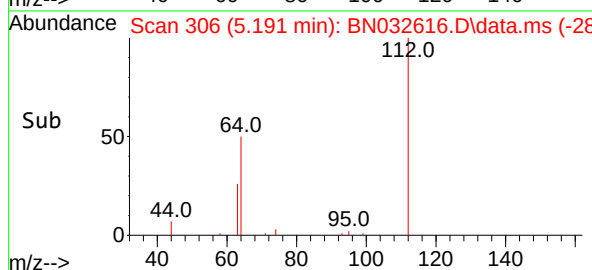
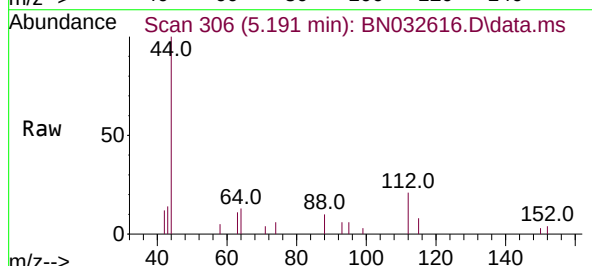
Manual Integrations
APPROVED

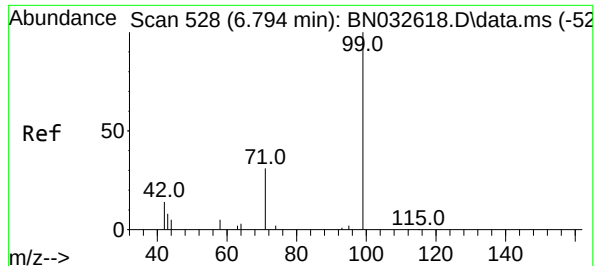
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:112 Resp: 993
Ion Ratio Lower Upper
112 100
64 53.3 40.2 60.4
63 27.8 22.2 33.4





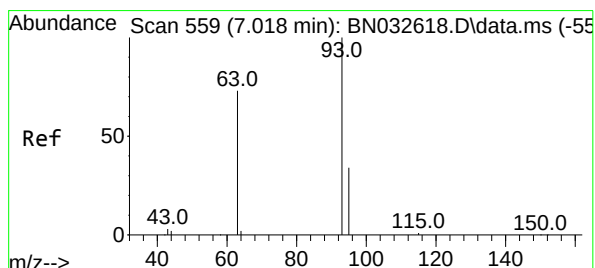
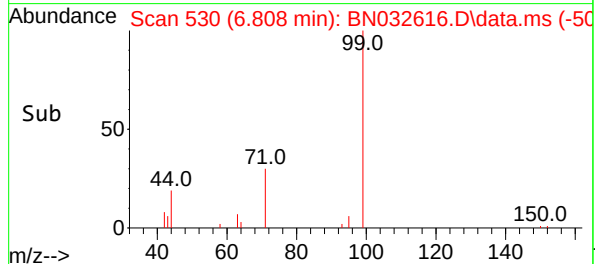
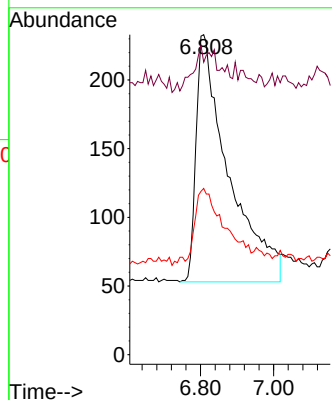
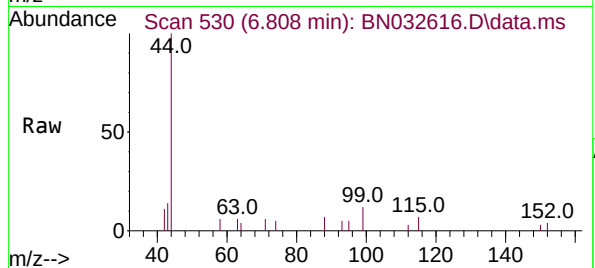
#5
Phenol-d6
Concen: 0.097 ng
RT: 6.808 min Scan# 510
Delta R.T. 0.015 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 110
Ion Ratio Lower Upper
99 100
42 5.5 10.5 15.7
71 26.0 22.3 33.5

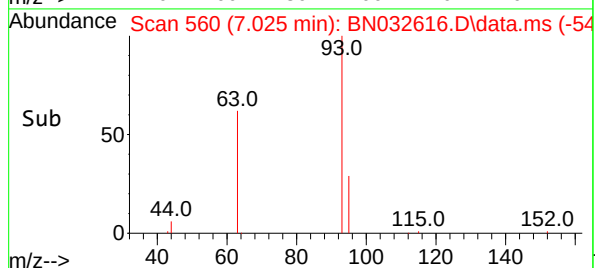
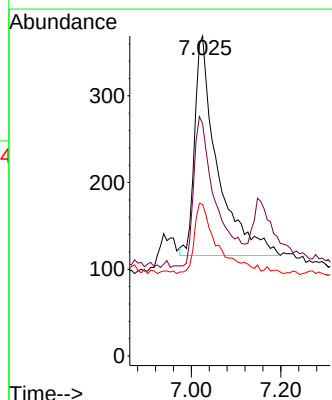
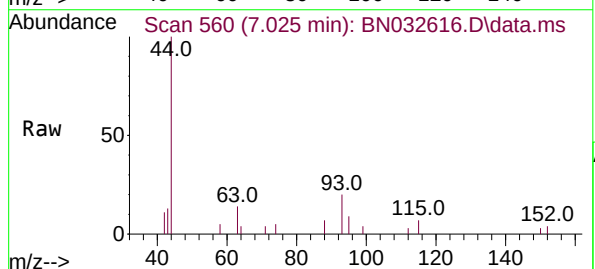
Manual Integrations
APPROVED

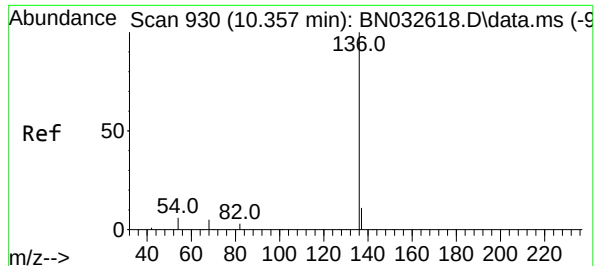
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.093 ng
RT: 7.025 min Scan# 560
Delta R.T. 0.007 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion: 93 Resp: 891
Ion Ratio Lower Upper
93 100
63 65.3 46.4 69.6
95 33.6 25.5 38.3





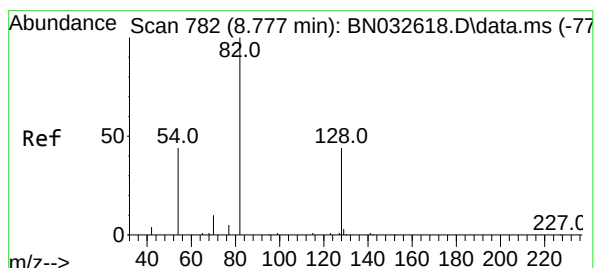
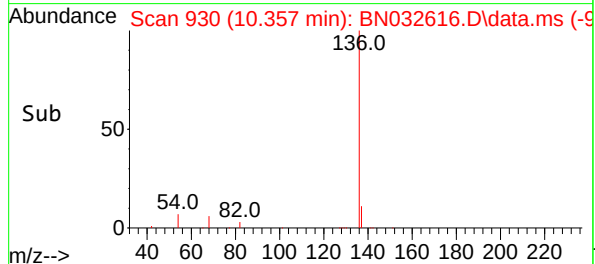
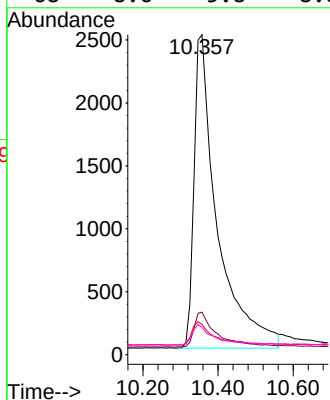
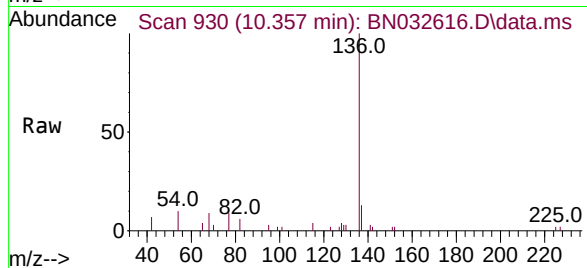
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
136	100		
137	13.3	9.9	14.9
54	9.5	6.5	9.7
68	8.6	5.8	8.8

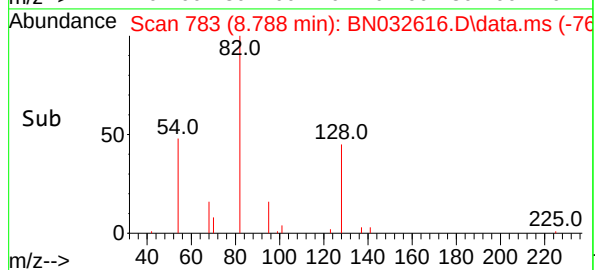
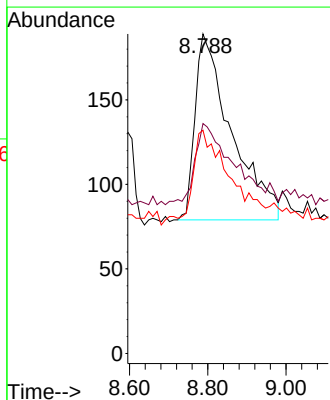
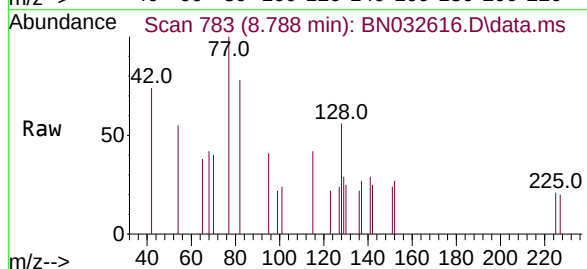
Manual Integrations
APPROVED

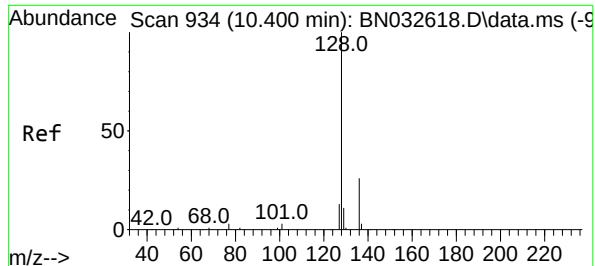
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.089 ng
RT: 8.788 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion	Ratio	Lower	Upper
82	100		
128	72.0	41.7	62.5#
54	69.8	39.5	59.3#





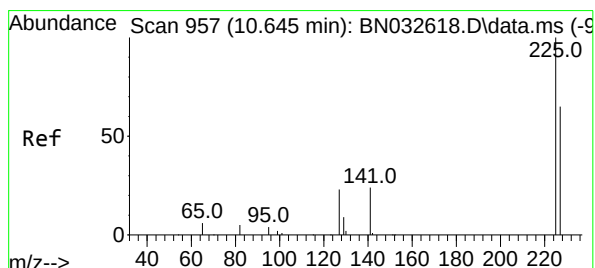
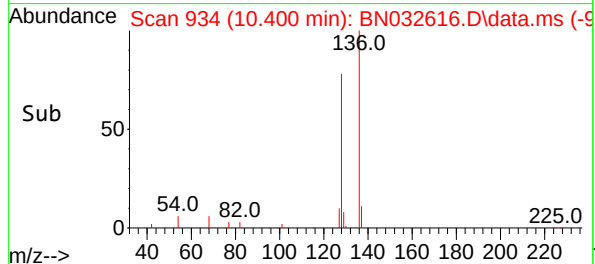
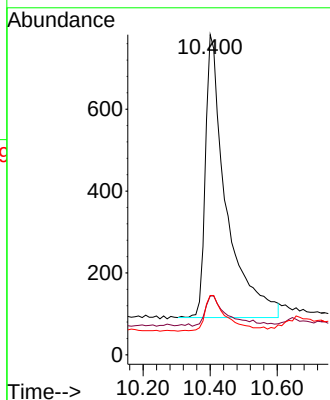
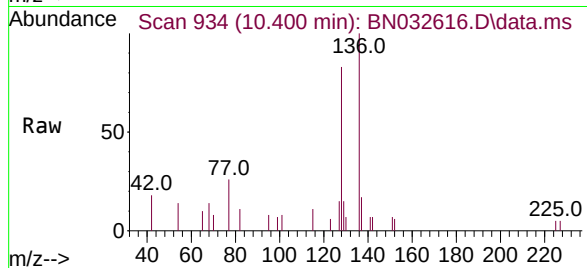
#9
Naphthalene
Concen: 0.101 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 296
Ion Ratio Lower Upper
128 100
129 18.4 9.8 14.8
127 18.5 11.5 17.3

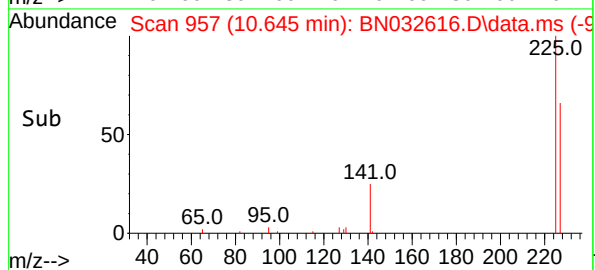
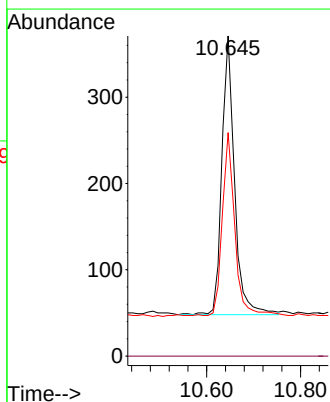
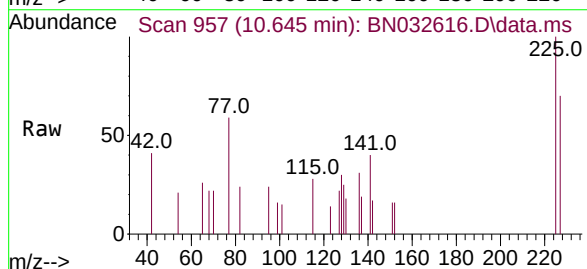
Manual Integrations
APPROVED

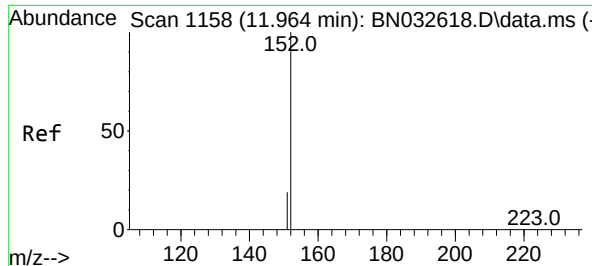
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.108 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

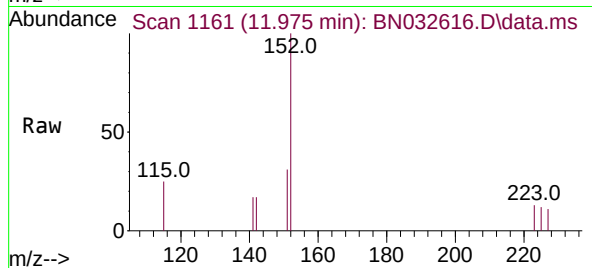
Tgt Ion:225 Resp: 605
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.975 min Scan# 1158
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

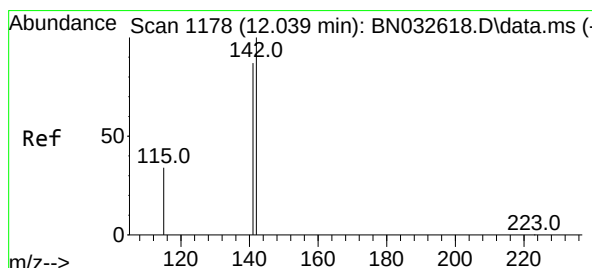
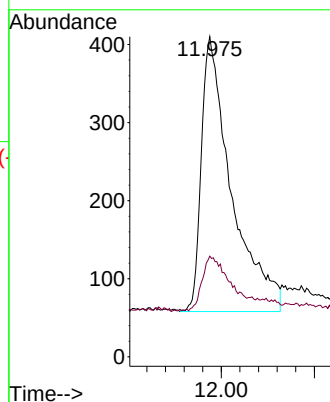
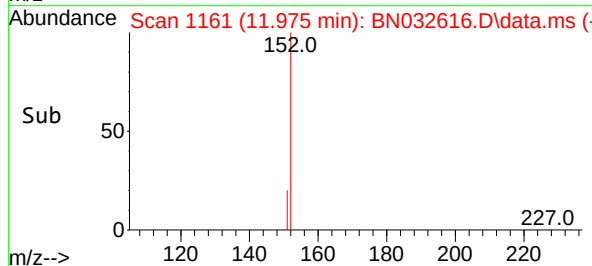
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



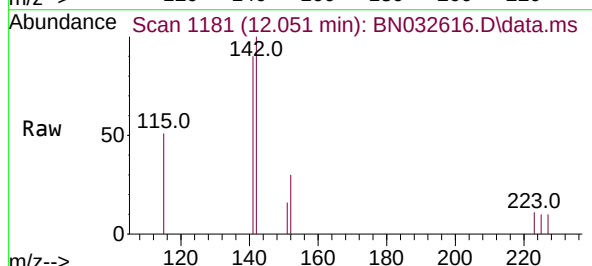
Tgt Ion:152 Resp: 1578
Ion Ratio Lower Upper
152 100
151 17.7 16.2 24.2

Manual Integrations
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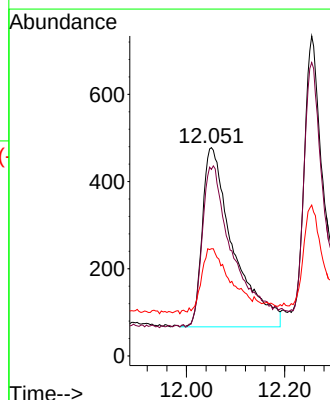
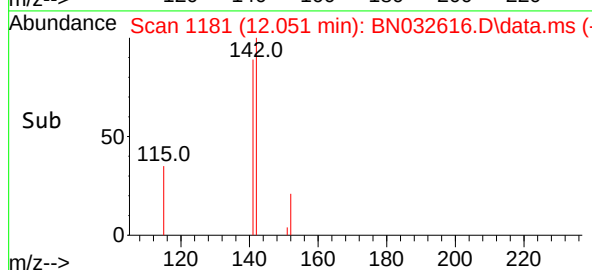
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

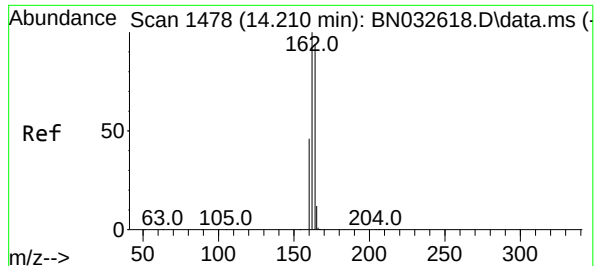


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.051 min Scan# 1181
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



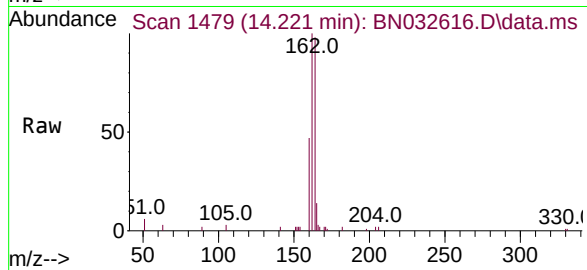
Tgt Ion:142 Resp: 1800
Ion Ratio Lower Upper
142 100
141 89.5 69.3 103.9
115 51.5 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.221 min Scan# 1478
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

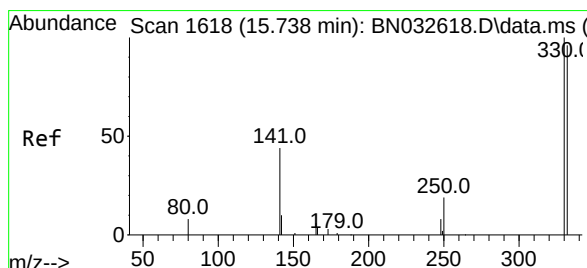
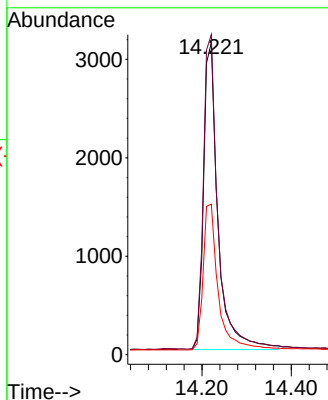
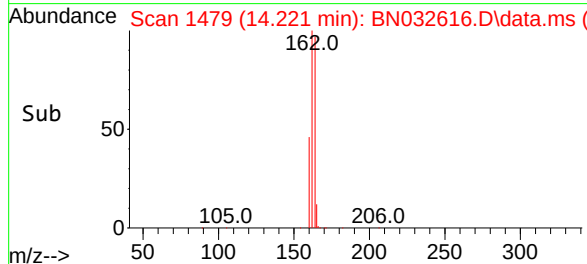
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



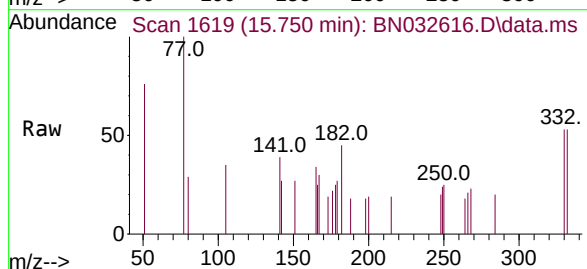
Tgt Ion:164 Resp: 7010
Ion Ratio Lower Upper
164 100
162 102.6 85.0 127.4
160 48.3 39.4 59.2

Manual Integrations
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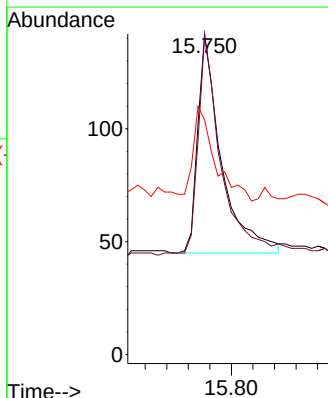
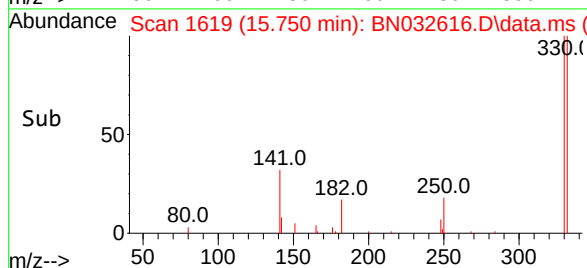
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

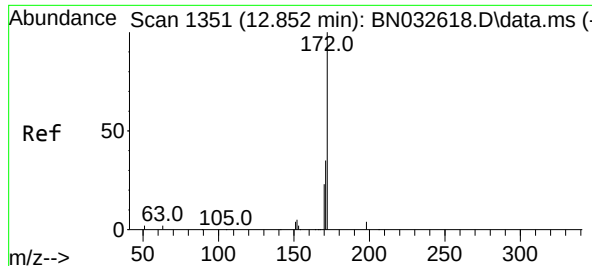


#14
2,4,6-Tribromophenol
Concen: 0.098 ng
RT: 15.750 min Scan# 1619
Delta R.T. 0.013 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



Tgt Ion:330 Resp: 295
Ion Ratio Lower Upper
330 100
332 94.6 77.8 116.8
141 40.3 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.099 ng
RT: 12.852 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

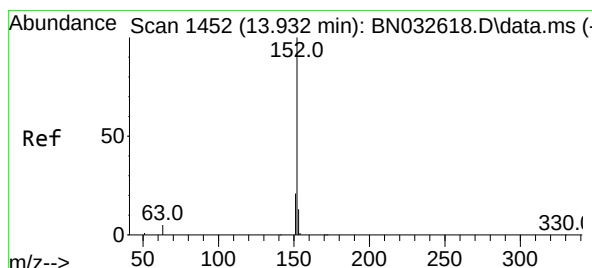
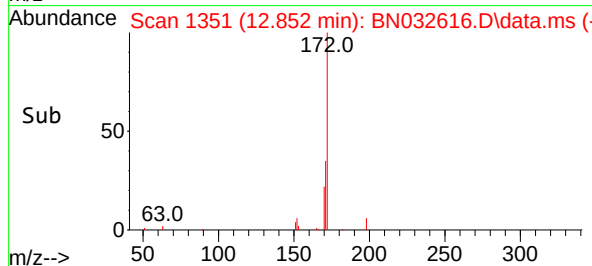
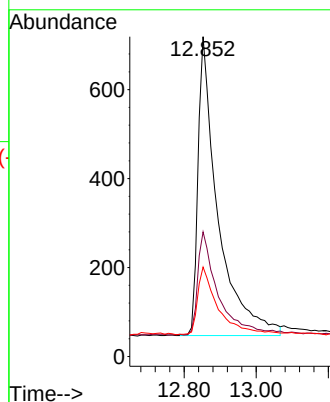
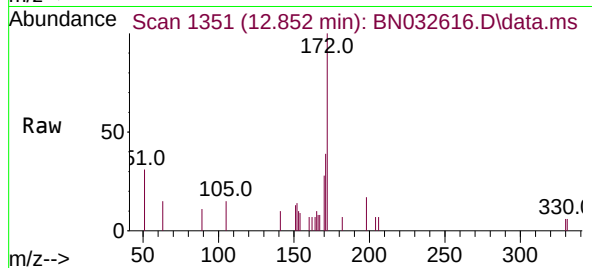
ClientSampleId :

SSTDICC0.1

Tgt Ion:172 Resp: 2578
Ion Ratio Lower Upper
172 100
171 38.9 28.6 43.0
170 28.0 19.0 28.6

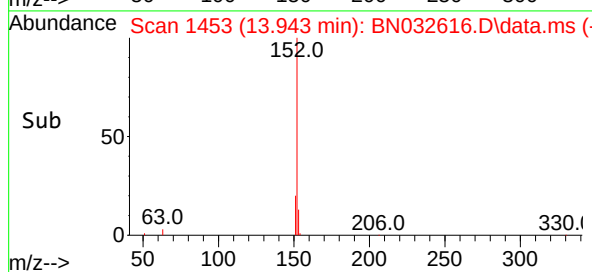
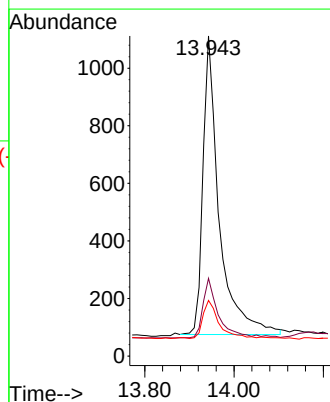
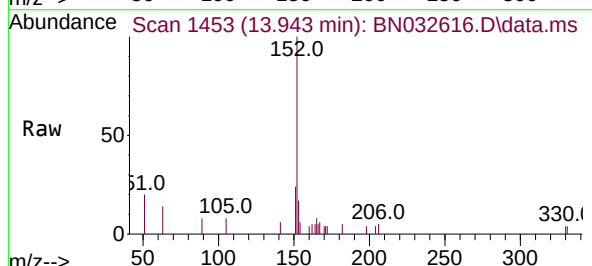
Manual Integrations
APPROVED

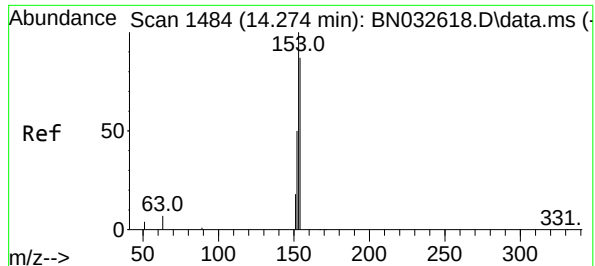
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.092 ng
RT: 13.943 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

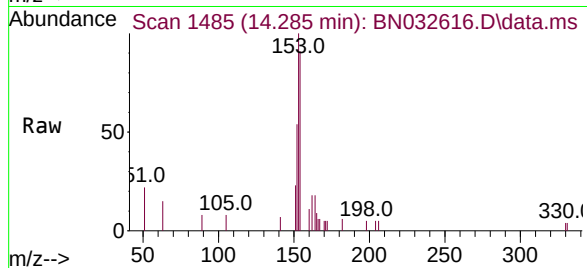
Tgt Ion:152 Resp: 2617
Ion Ratio Lower Upper
152 100
151 19.4 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.097 ng
RT: 14.285 min Scan# 1485
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

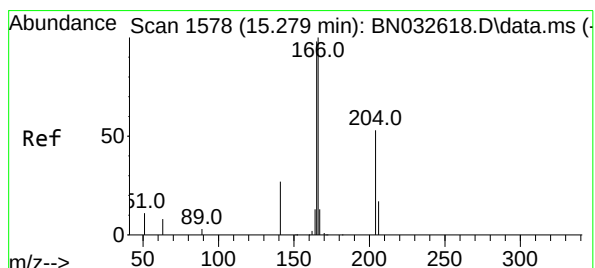
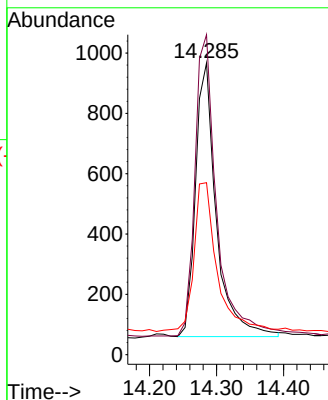
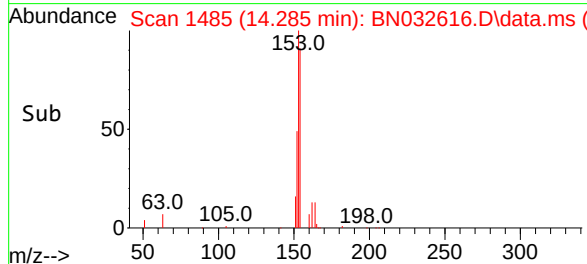
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



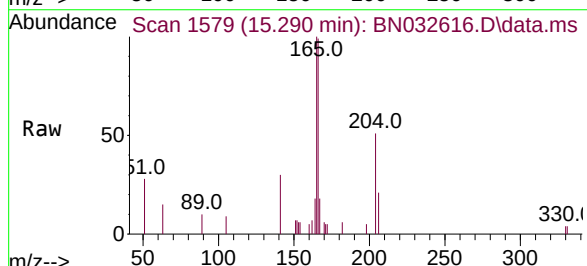
Tgt Ion:154 Resp: 195
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 60.3 45.2 67.8

Manual Integrations
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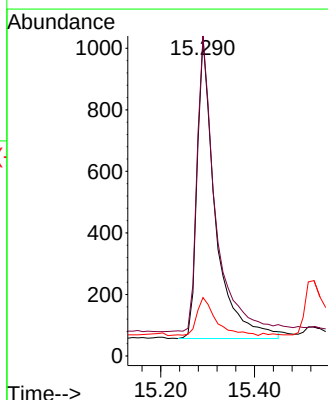
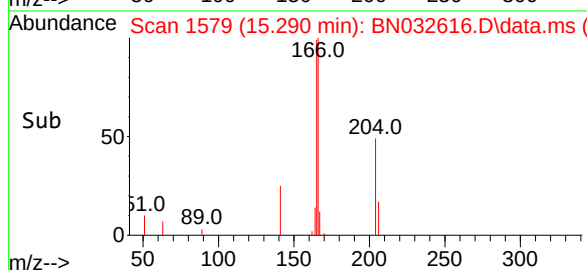
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

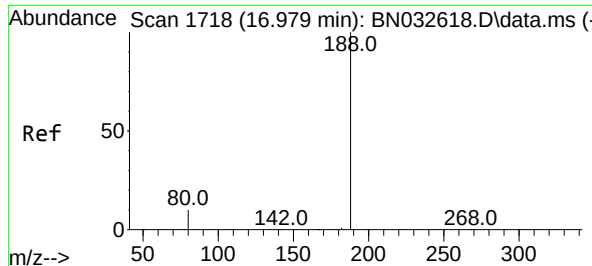


#18
Fluorene
Concen: 0.098 ng
RT: 15.290 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



Tgt Ion:166 Resp: 2636
Ion Ratio Lower Upper
166 100
165 97.8 78.0 117.0
167 12.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.991 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

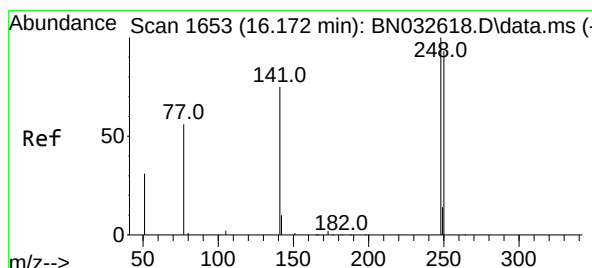
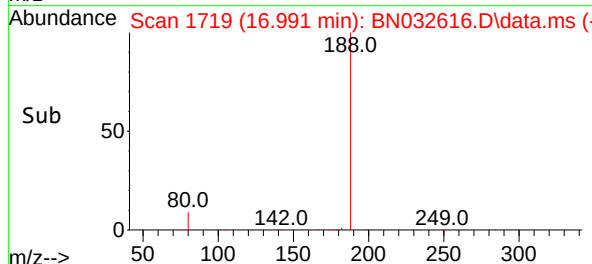
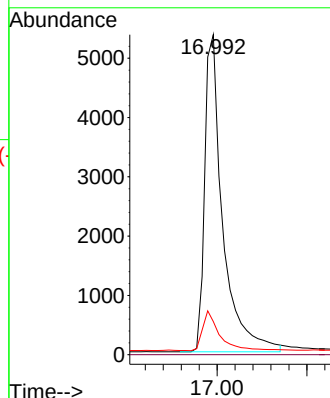
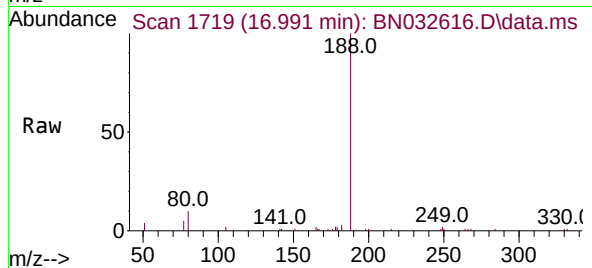
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#21

4-Bromophenyl-phenylether

Concen: 0.100 ng

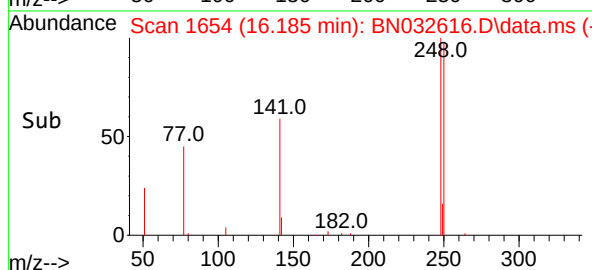
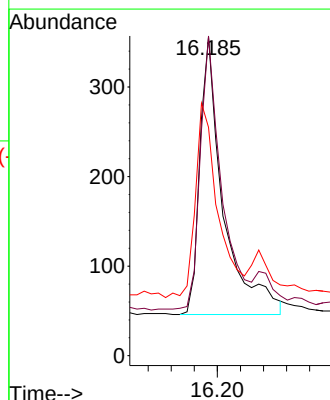
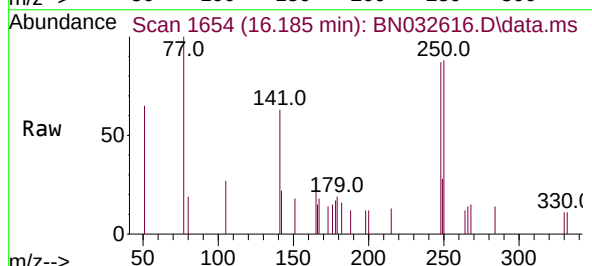
RT: 16.185 min Scan# 1654

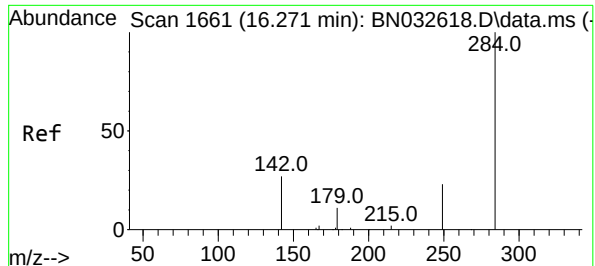
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	75.1	112.7
141	71.6	62.0	93.0





#22

Hexachlorobenzene

Concen: 0.103 ng

RT: 16.284 min Scan# 1662

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

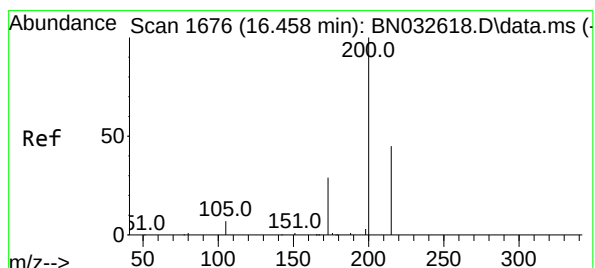
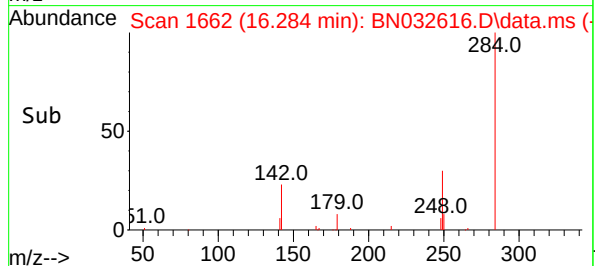
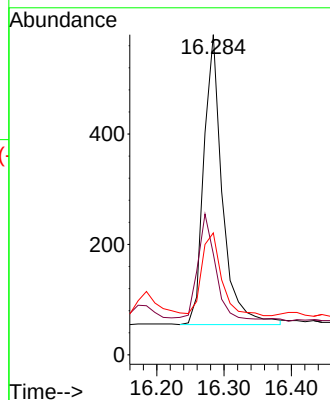
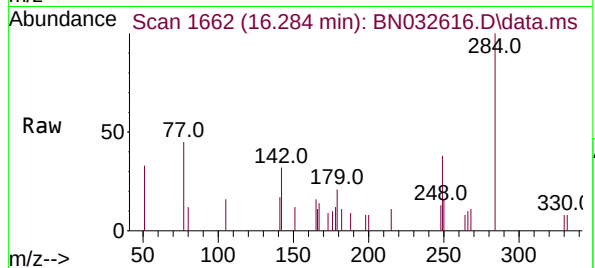
SSTDICC0.1

Tgt Ion:	284	Resp:	100
Ion Ratio	Lower	Upper	
284	100		
142	33.8	29.4	44.0
249	30.4	24.6	36.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#23

Atrazine

Concen: 0.095 ng

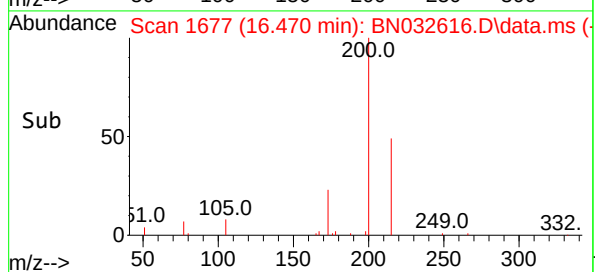
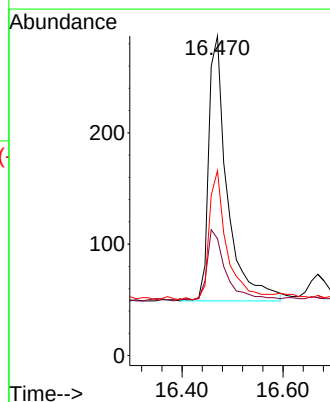
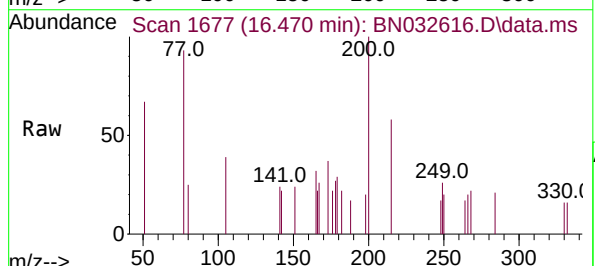
RT: 16.470 min Scan# 1677

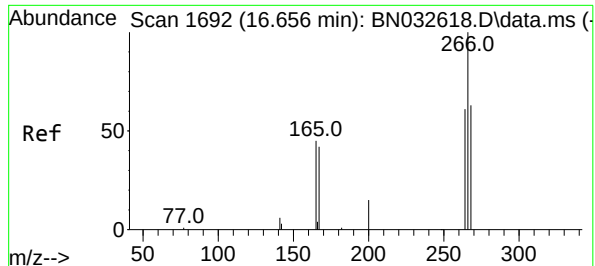
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:	200	Resp:	610
Ion Ratio	Lower	Upper	
200	100		
173	36.6	25.4	38.2
215	57.8	38.2	57.2





#24

Pentachlorophenol

Concen: 0.115 ng

RT: 16.669 min Scan# 1692

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

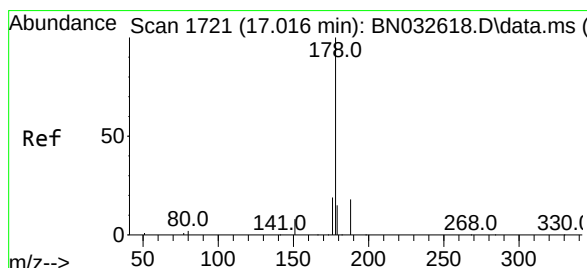
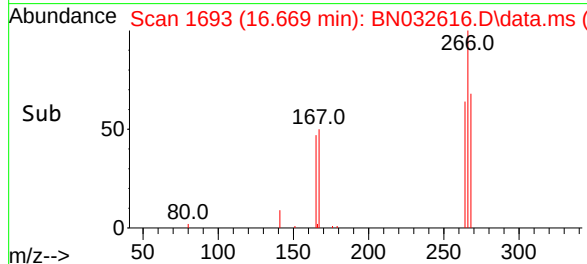
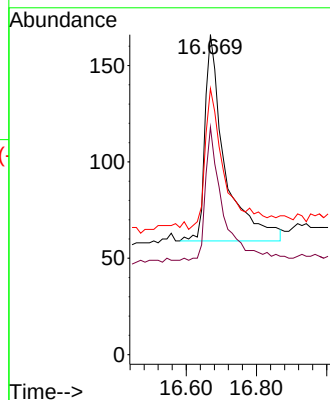
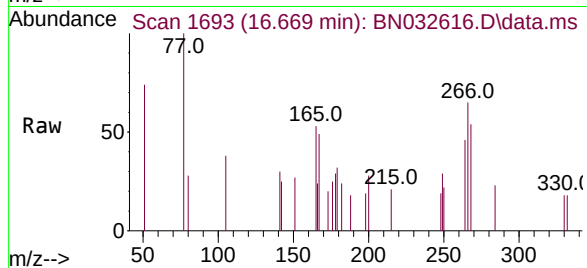
Tgt Ion:	266	Resp:	420
Ion Ratio	Lower	Upper	
266	100		
264	56.7	50.2	75.2
268	68.3	52.8	79.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#25

Phenanthrene

Concen: 0.095 ng

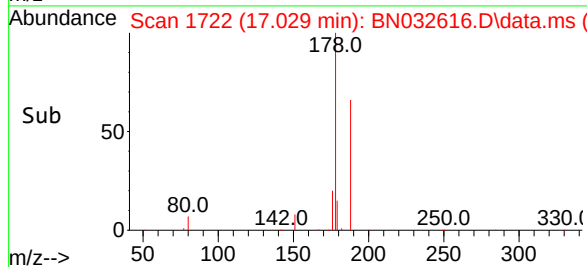
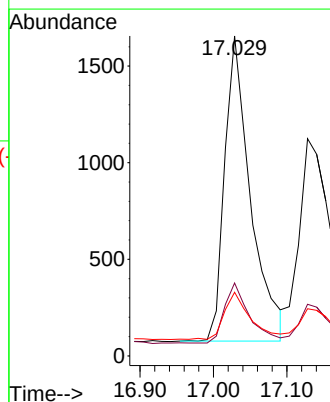
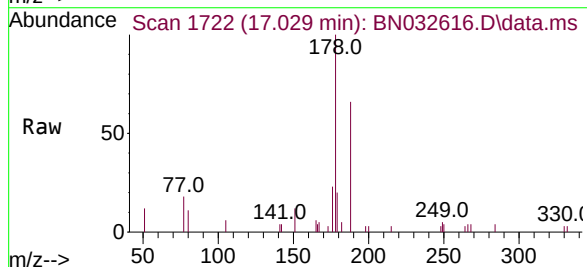
RT: 17.029 min Scan# 1722

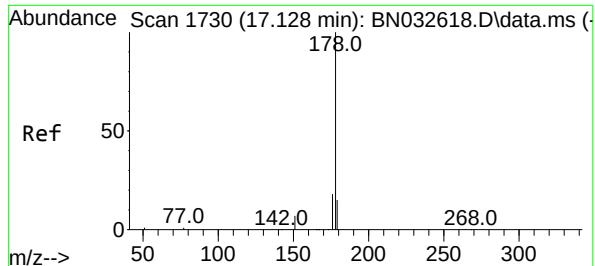
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:	178	Resp:	3858
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.1	22.7
179	15.4	12.2	18.4





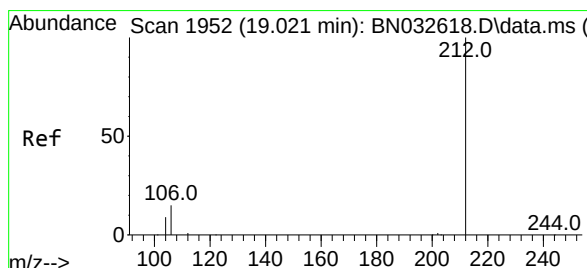
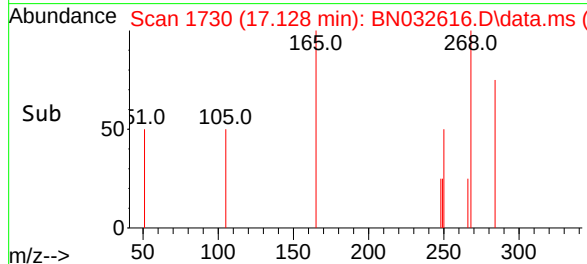
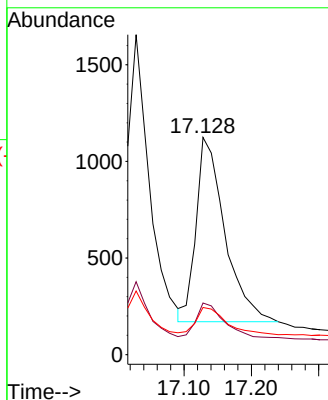
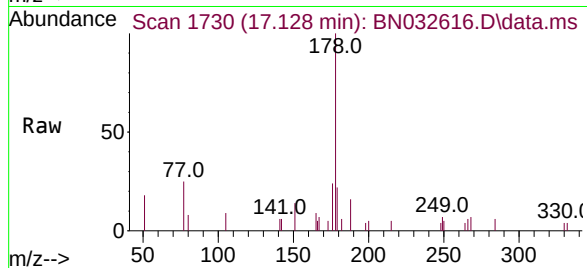
#26
Anthracene
Concen: 0.084 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2830
Ion Ratio Lower Upper
178 100
176 17.8 14.8 22.2
179 15.5 11.8 17.8

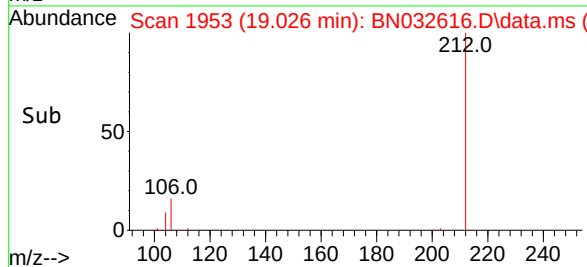
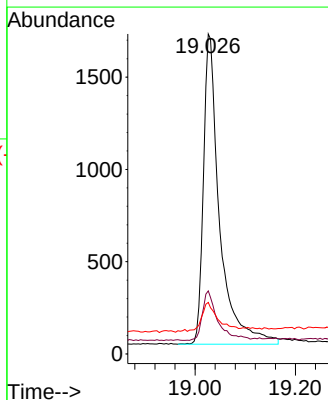
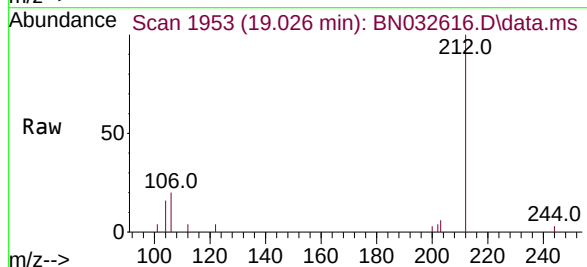
Manual Integrations
APPROVED

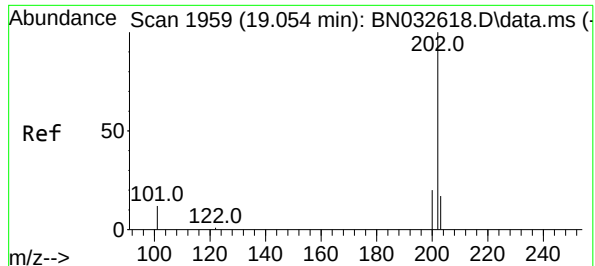
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.026 min Scan# 1953
Delta R.T. 0.005 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

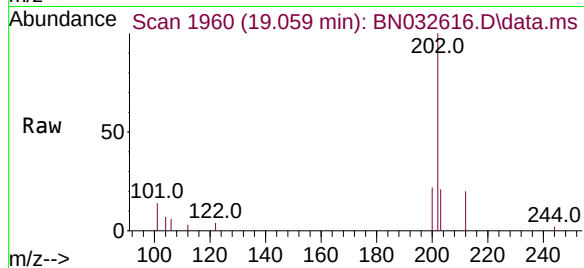
Tgt Ion:212 Resp: 3757
Ion Ratio Lower Upper
212 100
106 15.1 11.9 17.9
104 9.4 6.9 10.3





#28
Fluoranthene
Concen: 0.096 ng
RT: 19.059 min Scan# 1960
Delta R.T. 0.005 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

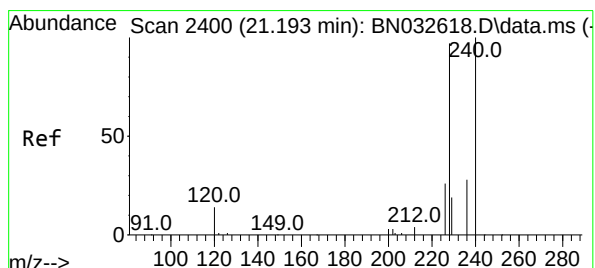
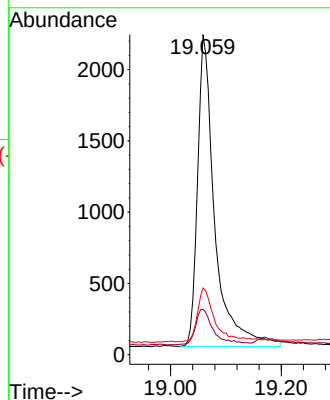
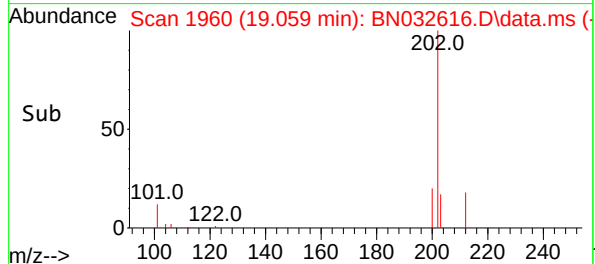
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 4704
Ion Ratio Lower Upper
202 100
101 11.9 9.6 14.4
203 17.7 13.8 20.6

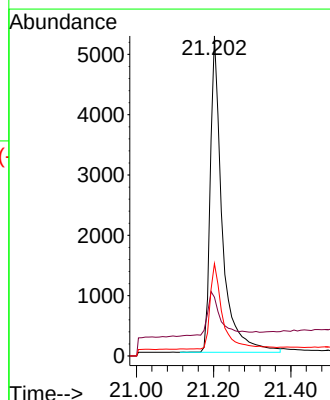
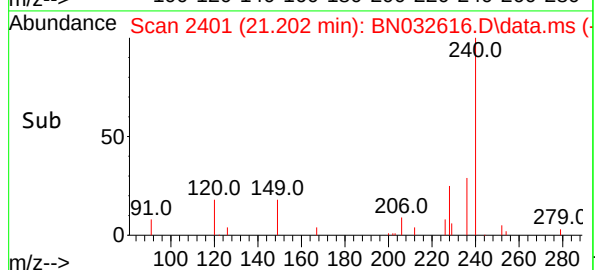
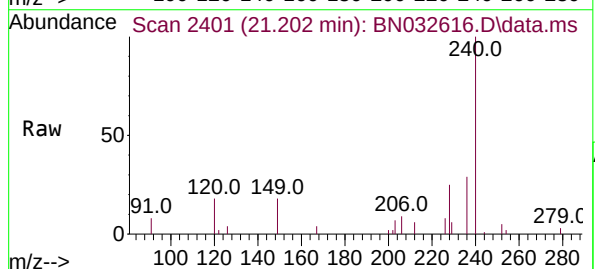
Manual Integrations
APPROVED

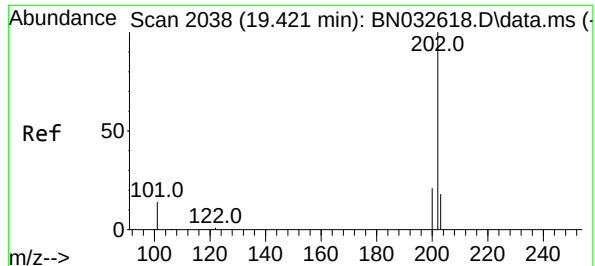
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.202 min Scan# 2401
Delta R.T. 0.009 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:240 Resp: 11292
Ion Ratio Lower Upper
240 100
120 18.4 14.8 22.2
236 28.9 23.3 34.9





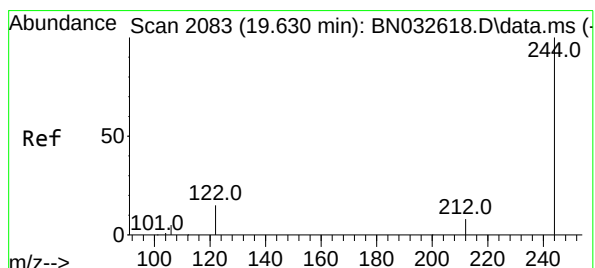
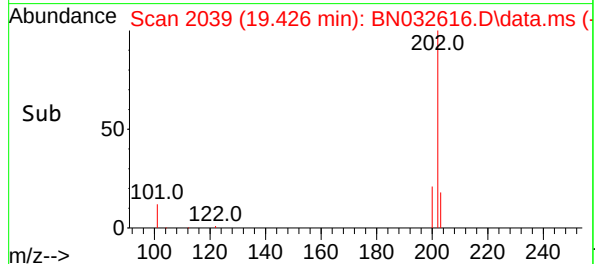
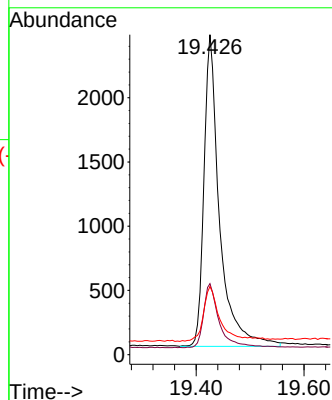
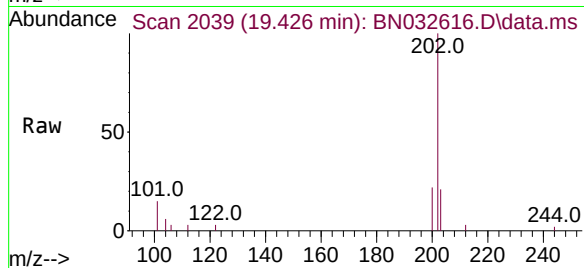
#30
Pyrene
Concen: 0.105 ng
RT: 19.426 min Scan# 2038
Delta R.T. 0.005 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:202 Resp: 485
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 19.6 14.8 22.2

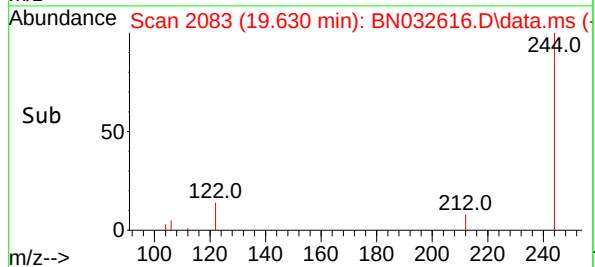
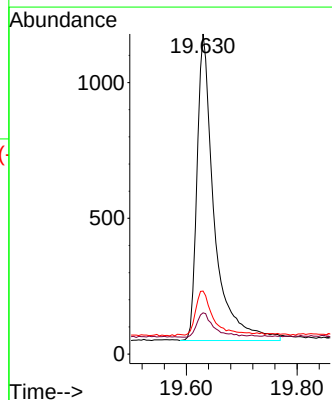
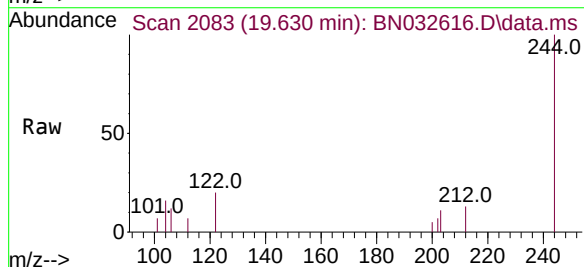
Manual Integrations
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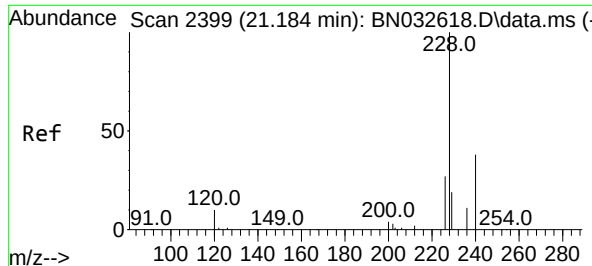
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.630 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:244 Resp: 2431
Ion Ratio Lower Upper
244 100
212 12.9 7.5 11.3#
122 19.7 12.6 19.0#





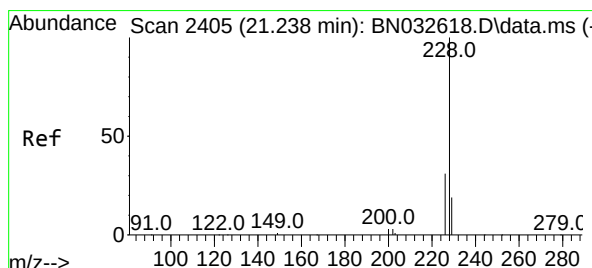
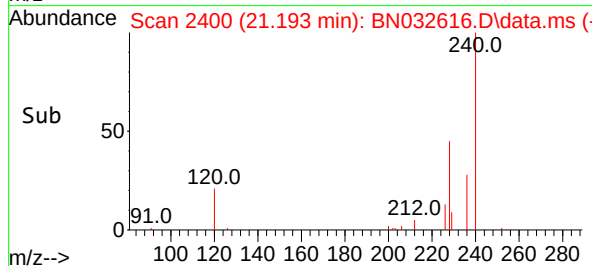
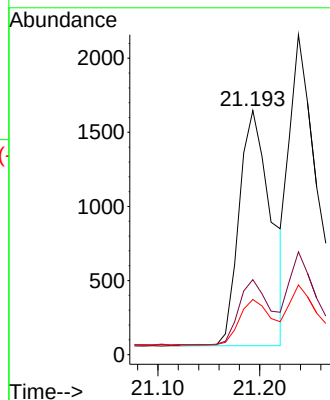
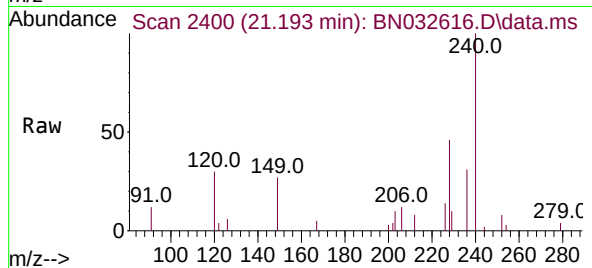
#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.193 min Scan# 2400
Delta R.T. 0.009 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 3454
Ion Ratio Lower Upper
228 100
226 30.7 21.8 32.6
229 22.6 16.0 24.0

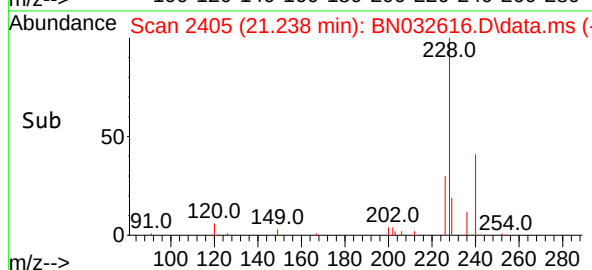
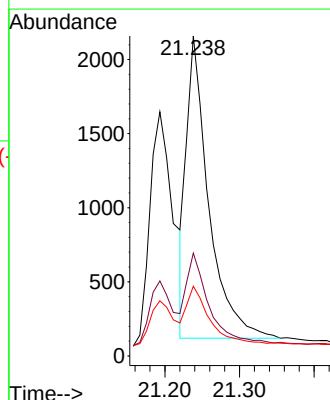
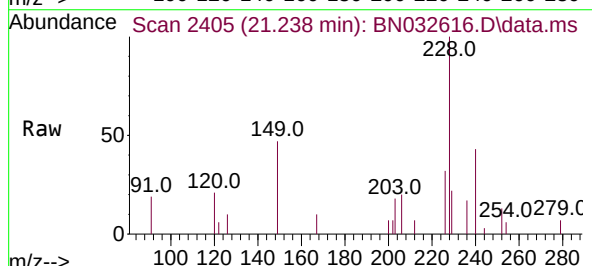
Manual Integrations
APPROVED

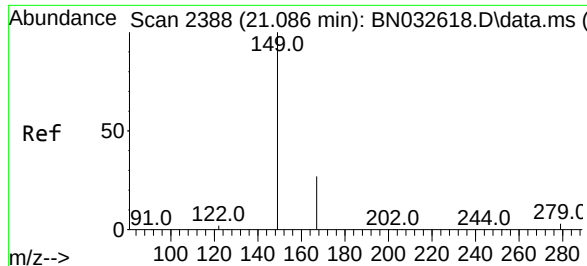
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#33
Chrysene
Concen: 0.099 ng
RT: 21.238 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:228 Resp: 4205
Ion Ratio Lower Upper
228 100
226 32.1 24.2 36.2
229 21.8 16.0 24.0





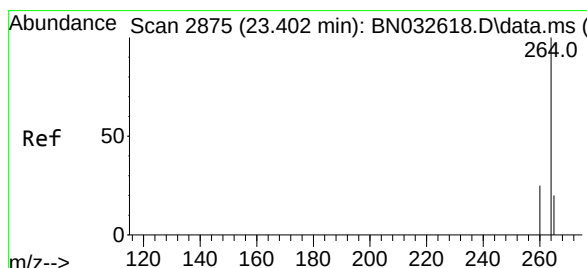
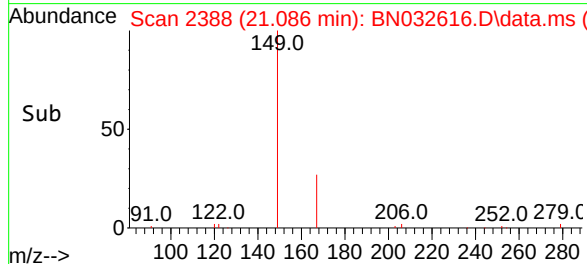
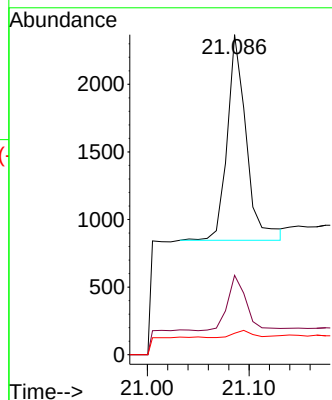
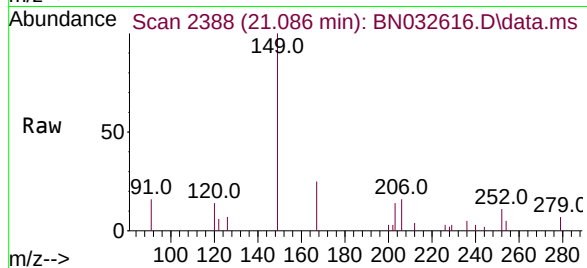
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 21.086 min Scan# 2108
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:149 Resp: 1979
Ion Ratio Lower Upper
149 100
167 26.5 21.4 32.2
279 3.2 2.8 4.2

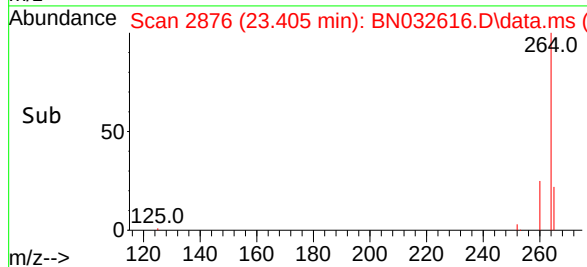
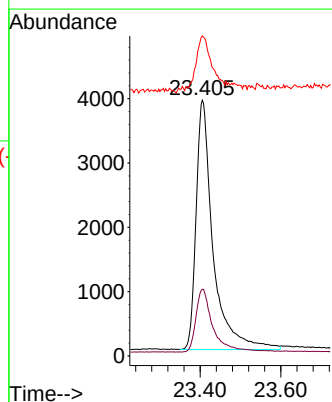
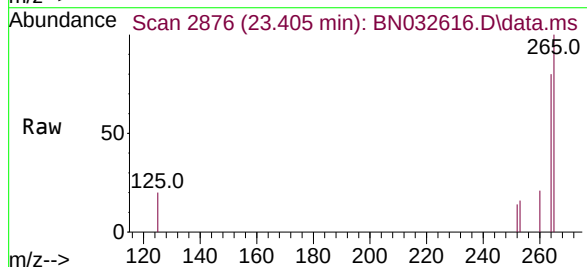
Manual Integrations
APPROVED

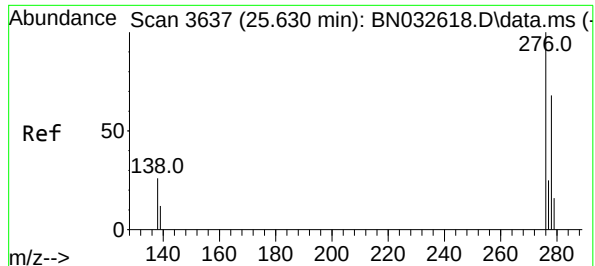
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.405 min Scan# 2876
Delta R.T. 0.003 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:264 Resp: 11367
Ion Ratio Lower Upper
264 100
260 26.1 20.9 31.3
265 125.1 85.4 128.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.098 ng

RT: 25.645 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN032616.D

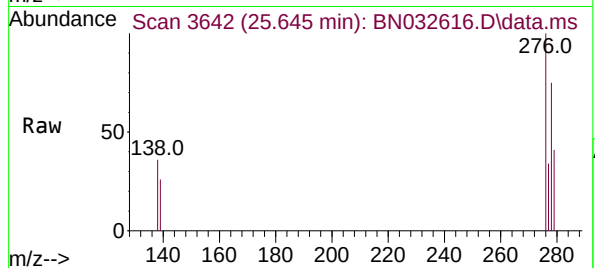
Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 439

Ion Ratio Lower Upper

276 100

138 21.8 21.0 31.4

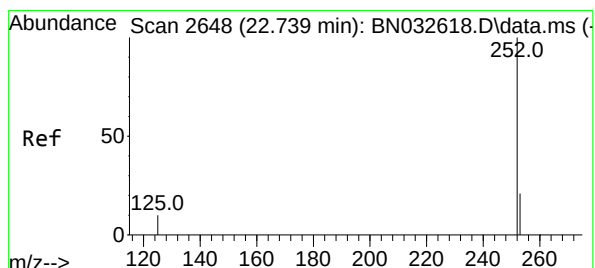
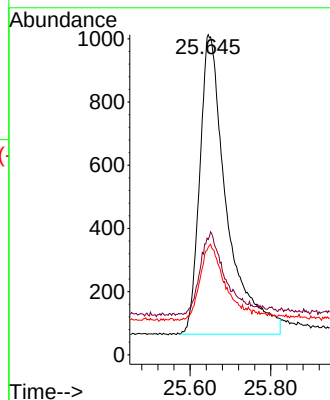
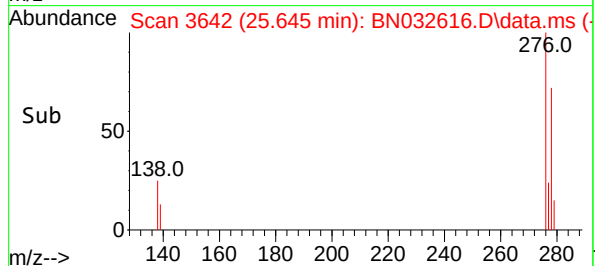
277 22.9 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#37

Benzo(b)fluoranthene

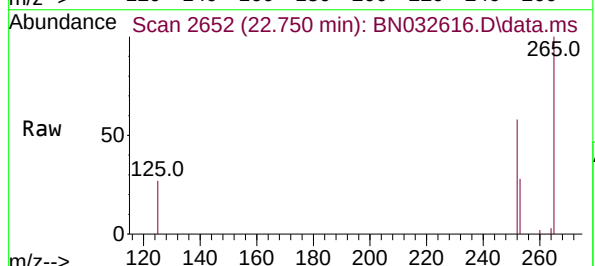
Concen: 0.085 ng

RT: 22.750 min Scan# 2652

Delta R.T. 0.012 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54



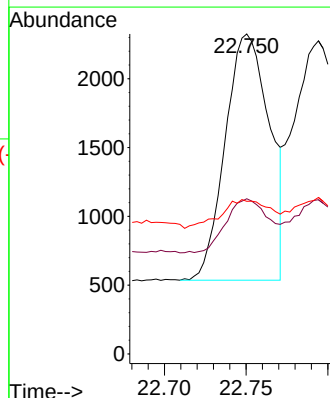
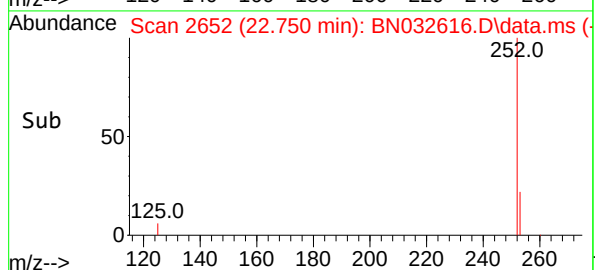
Tgt Ion:252 Resp: 3381

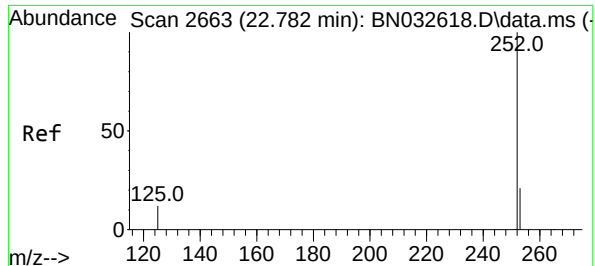
Ion Ratio Lower Upper

252 100

253 48.5 22.3 33.5#

125 47.7 15.4 23.2#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng m

RT: 22.794 min Scan# 2667

Delta R.T. 0.012 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

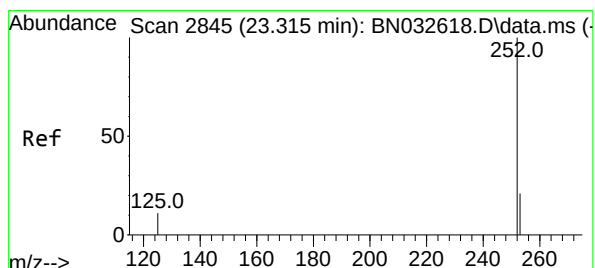
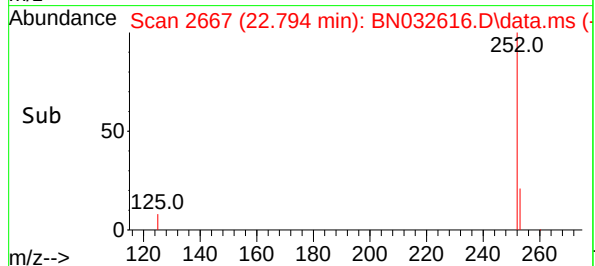
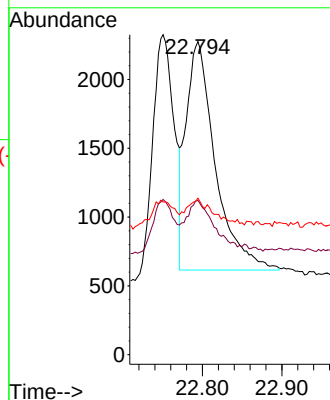
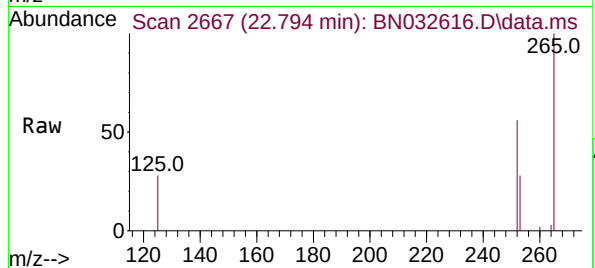
Tgt Ion:252	Resp:	4269
Ion Ratio	Lower	Upper
252	100	
253	49.3	22.6 34.0#
125	50.0	16.2 24.4#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#39

Benzo(a)pyrene

Concen: 0.096 ng

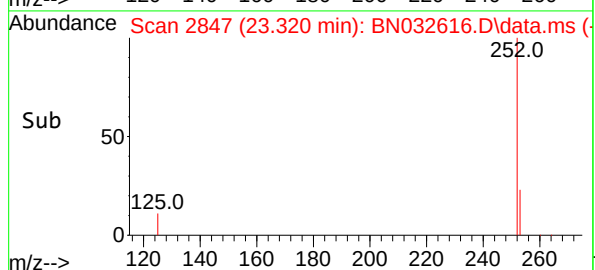
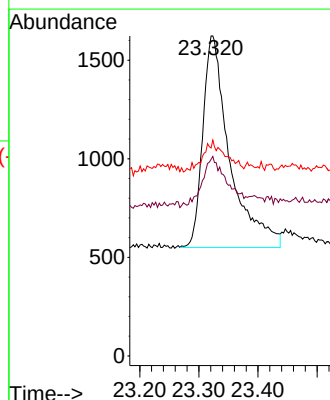
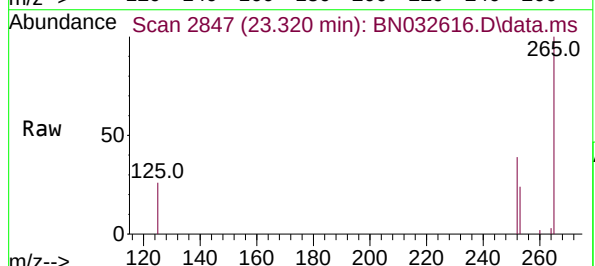
RT: 23.320 min Scan# 2847

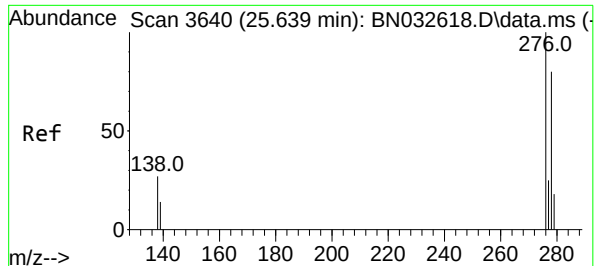
Delta R.T. 0.006 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:252	Resp:	3411
Ion Ratio	Lower	Upper
252	100	
253	61.4	25.8 38.8#
125	65.0	21.4 32.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.654 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:278 Resp: 3352

Ion Ratio Lower Upper

278 100

139 33.0 16.7 25.1

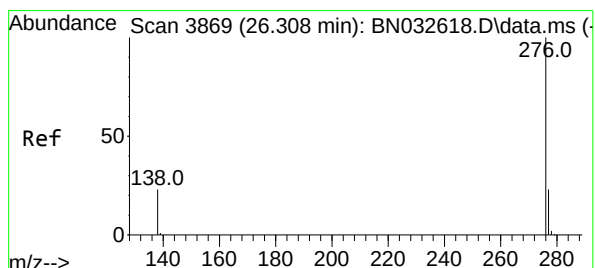
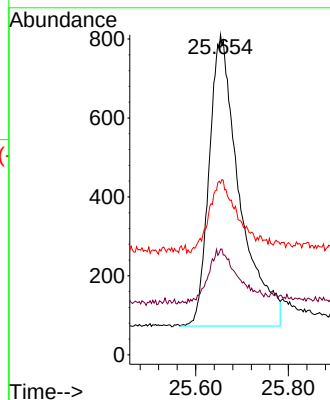
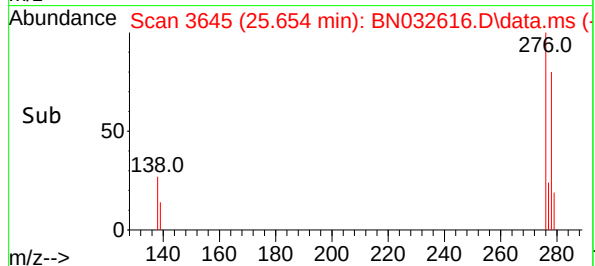
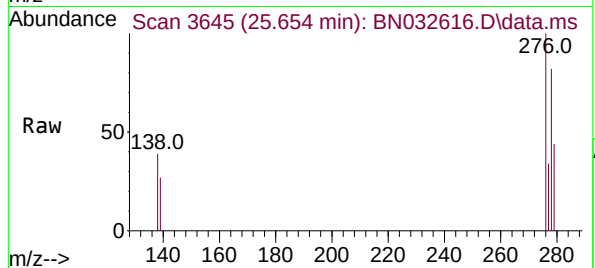
279 53.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#41

Benzo(g,h,i)perylene

Concen: 0.100 ng

RT: 26.323 min Scan# 3874

Delta R.T. 0.015 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

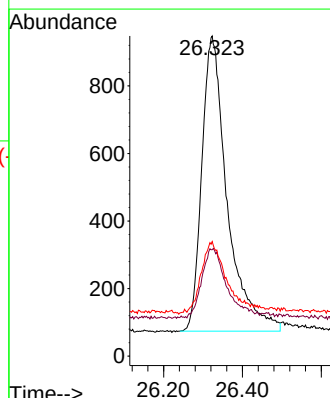
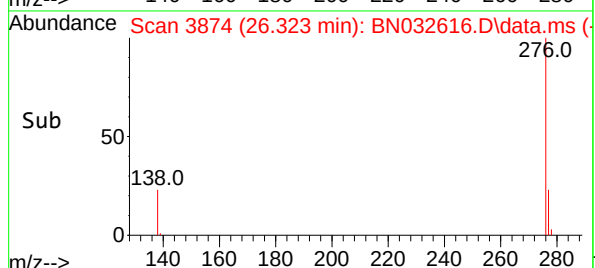
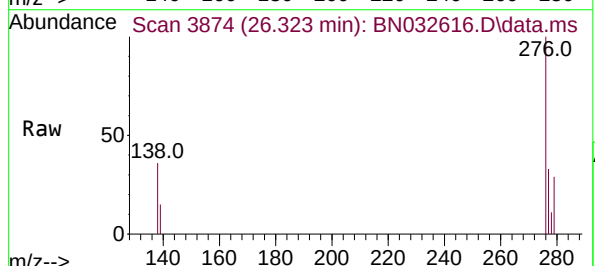
Tgt Ion:276 Resp: 3904

Ion Ratio Lower Upper

276 100

277 33.2 20.2 30.2#

138 35.8 20.5 30.7#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032617.D
 Acq On : 10 Jul 2024 16:30
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:36:36 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.574	152	4107	0.400	ng	0.00
7) Naphthalene-d8	10.368	136	12794	0.400	ng	0.01
13) Acenaphthene-d10	14.221	164	8748	0.400	ng	0.01
19) Phenanthrene-d10	16.991	188	19183	0.400	ng	0.01
29) Chrysene-d12	21.202	240	15620	0.400	ng	0.00
35) Perylene-d12	23.402	264	15078	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.205	112	2011	0.194	ng	0.00
5) Phenol-d6	6.823	99	2262	0.175	ng	0.03
8) Nitrobenzene-d5	8.809	82	1732	0.180	ng	0.03
11) 2-Methylnaphthalene-d10	11.983	152	3683	0.188	ng	0.02
14) 2,4,6-Tribromophenol	15.750	330	655	0.175	ng	0.01
15) 2-Fluorobiphenyl	12.863	172	6071	0.186	ng	0.01
27) Fluoranthene-d10	19.026	212	9463	0.191	ng	0.00
31) Terphenyl-d14	19.635	244	6201	0.194	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	1078	0.212	ng	# 97
3) n-Nitrosodimethylamine	3.479	42	838	0.195	ng	# 99
6) bis(2-Chloroethyl)ether	7.040	93	1728	0.160	ng	95
9) Naphthalene	10.411	128	6872	0.194	ng	# 94
10) Hexachlorobutadiene	10.645	225	1379	0.204	ng	# 100
12) 2-Methylnaphthalene	12.058	142	4254	0.184	ng	96
16) Acenaphthylene	13.943	152	6373	0.179	ng	98
17) Acenaphthene	14.285	154	4760	0.189	ng	100
18) Fluorene	15.290	166	6444	0.191	ng	100
20) 4,6-Dinitro-2-methylph...	15.493	198	269	0.350	ng	# 31
21) 4-Bromophenyl-phenylether	16.185	248	2098	0.186	ng	92
22) Hexachlorobenzene	16.284	284	2435	0.193	ng	97
23) Atrazine	16.470	200	1492	0.180	ng	95
24) Pentachlorophenol	16.669	266	772	0.165	ng	97
25) Phenanthrene	17.029	178	9461	0.180	ng	99
26) Anthracene	17.128	178	7118	0.165	ng	99
28) Fluoranthene	19.059	202	11847	0.187	ng	99
30) Pyrene	19.426	202	12255	0.192	ng	100
32) Benzo(a)anthracene	21.184	228	8415	0.170	ng	98
33) Chrysene	21.238	228	11768	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	5344	0.195	ng	100
36) Indeno(1,2,3-cd)pyrene	25.639	276	10630	0.179	ng	98
37) Benzo(b)fluoranthene	22.744	252	9009	0.172	ng	# 86
38) Benzo(k)fluoranthene	22.785	252	11516m	0.189	ng	
39) Benzo(a)pyrene	23.315	252	8607	0.182	ng	# 80
40) Dibenzo(a,h)anthracene	25.648	278	8413	0.179	ng	# 90
41) Benzo(g,h,i)perylene	26.311	276	9713	0.187	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032617.D
Acq On : 10 Jul 2024 16:30
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

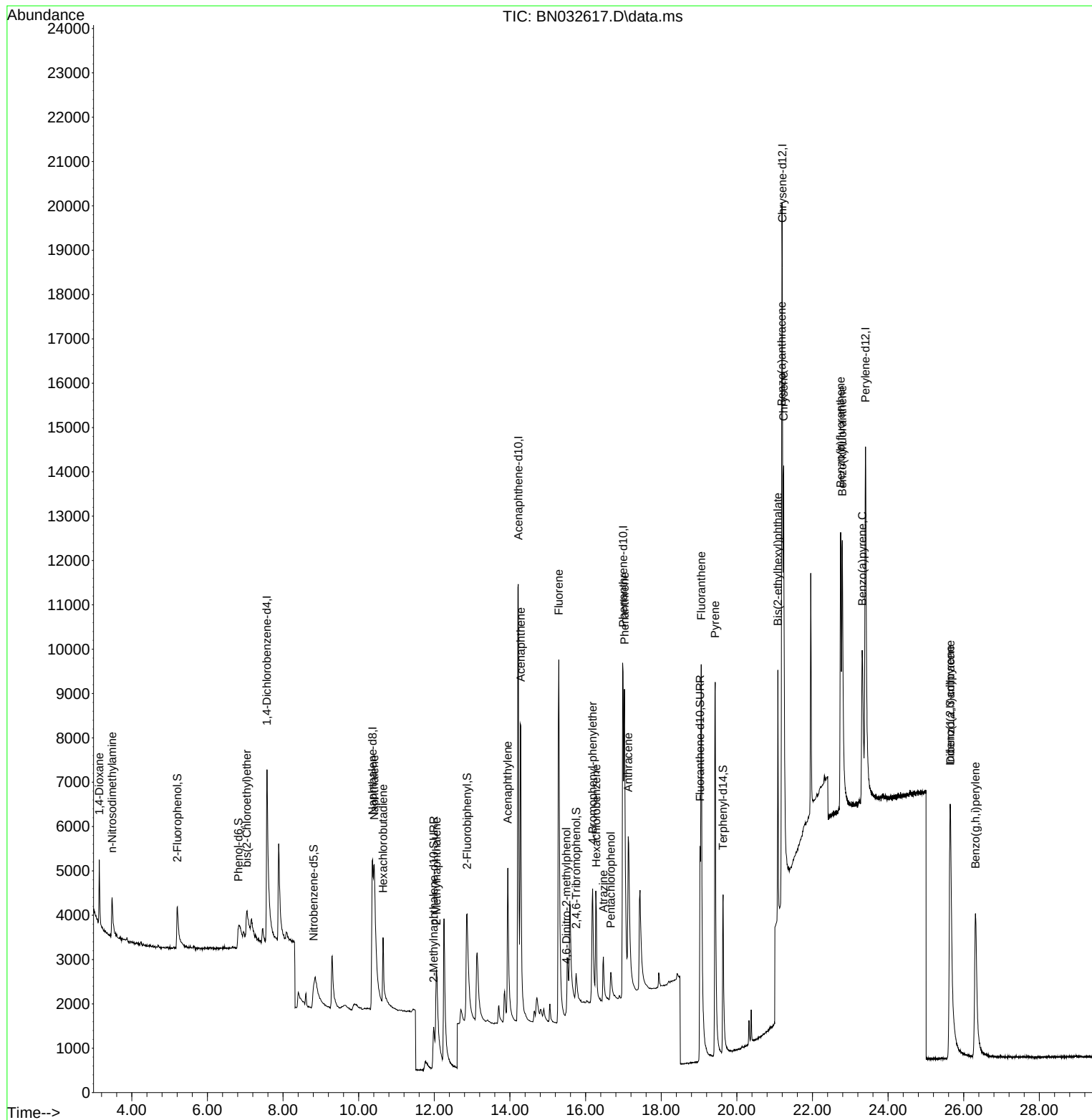
Manual Integrations

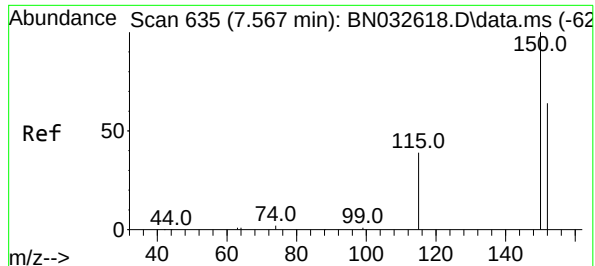
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

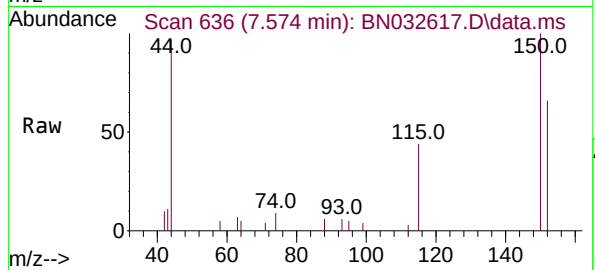
Quant Time: Jul 10 23:36:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.574 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

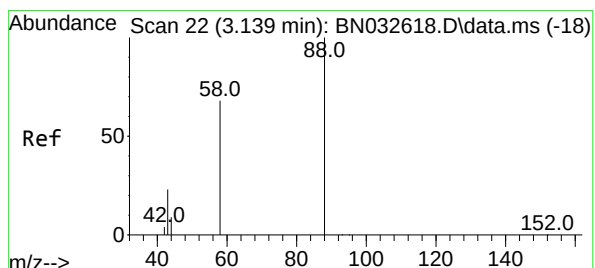
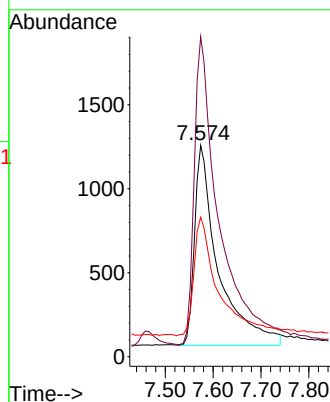
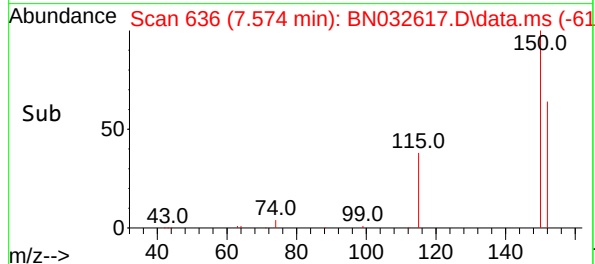
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 410
Ion Ratio Lower Upper
152 100
150 151.4 123.8 185.6
115 66.0 52.8 79.2

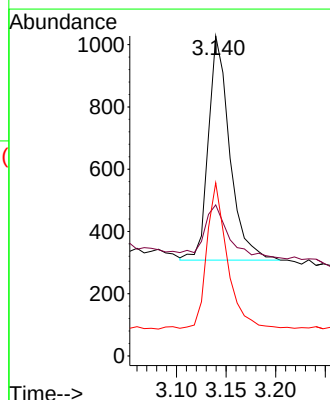
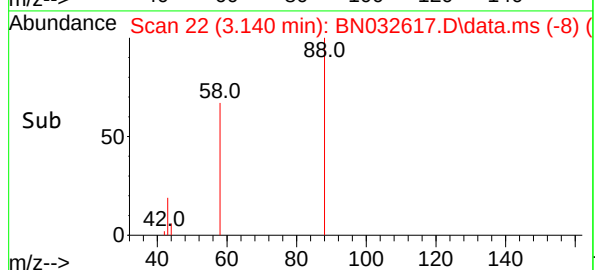
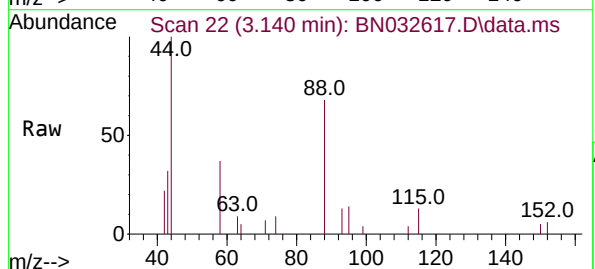
Manual Integrations
APPROVED

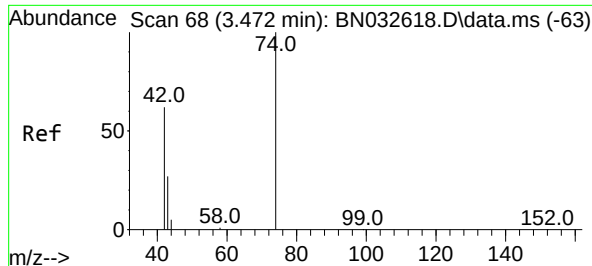
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.212 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion: 88 Resp: 1078
Ion Ratio Lower Upper
88 100
43 28.8 18.4 27.6#
58 61.8 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.479 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

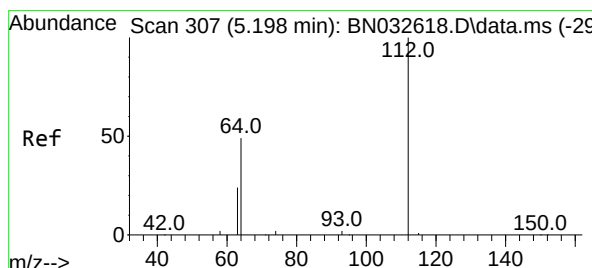
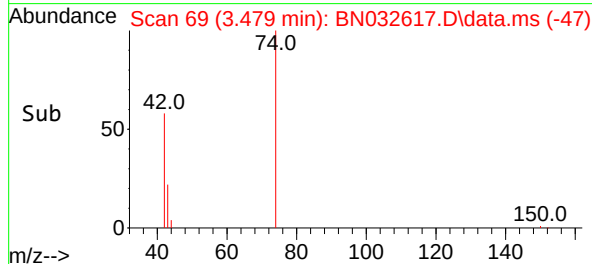
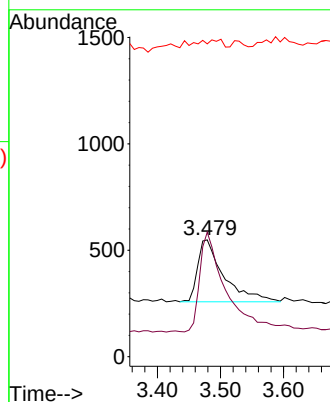
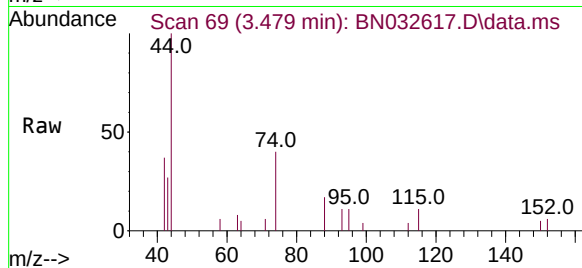
ClientSampleId :

SSTDICC0.2

Tgt Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
74 159.1 126.9 190.3
44 0.0 4.8 7.2

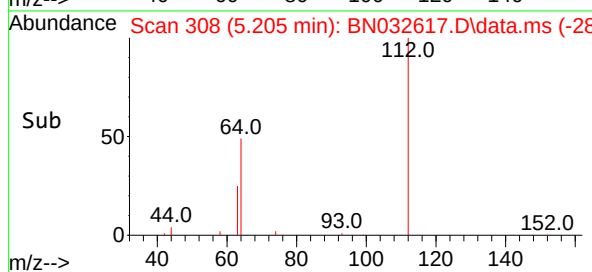
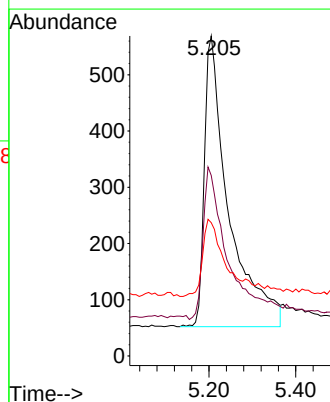
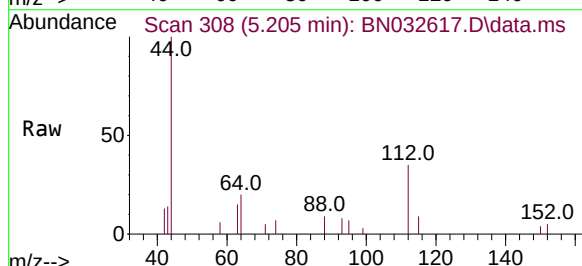
Manual Integrations
APPROVED

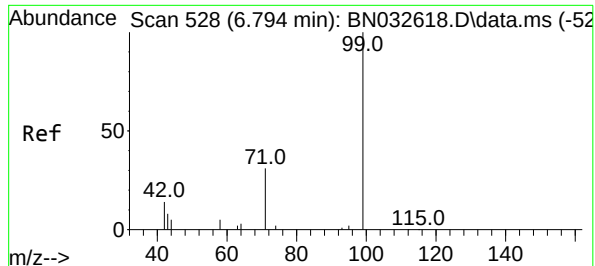
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.194 ng
RT: 5.205 min Scan# 308
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:112 Resp: 2011
Ion Ratio Lower Upper
112 100
64 54.5 40.2 60.4
63 26.2 22.2 33.4





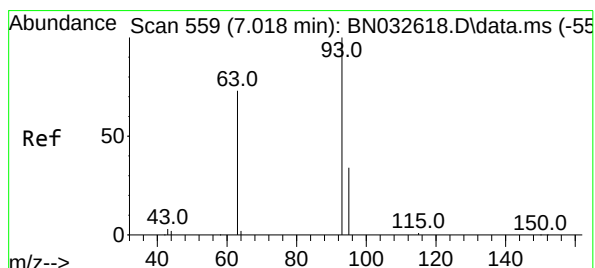
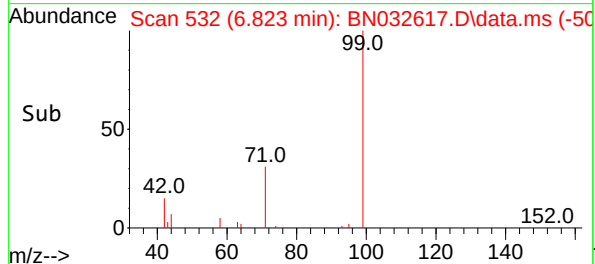
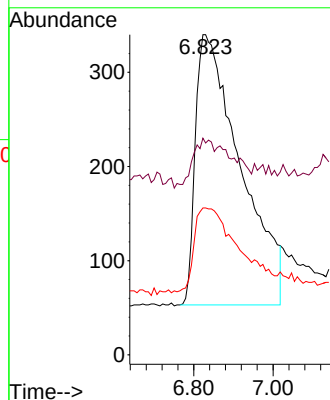
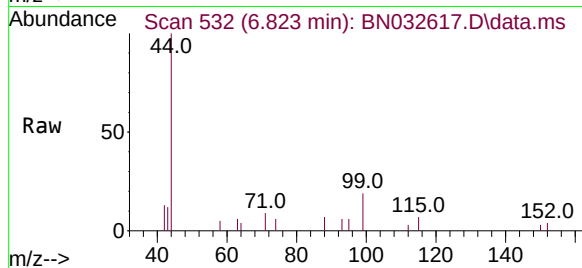
#5
Phenol-d6
Concen: 0.175 ng
RT: 6.823 min Scan# 511
Delta R.T. 0.029 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 2262
Ion Ratio Lower Upper
99 100
42 7.2 10.5 15.7
71 30.9 22.3 33.5

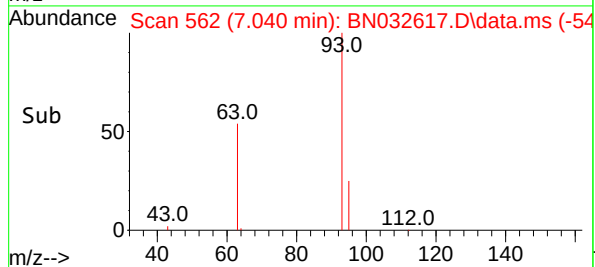
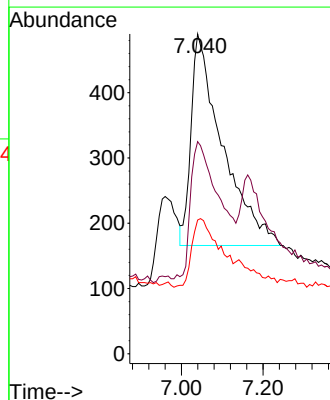
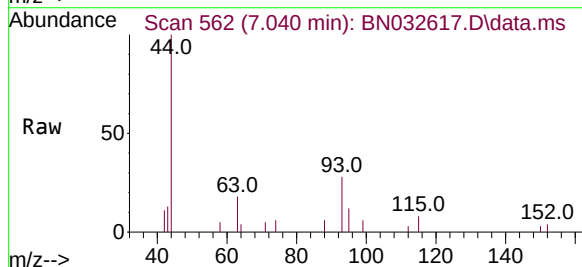
Manual Integrations
APPROVED

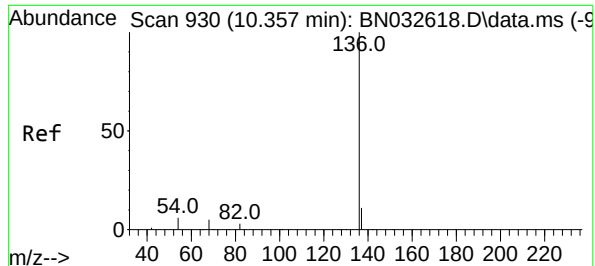
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.160 ng
RT: 7.040 min Scan# 562
Delta R.T. 0.022 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

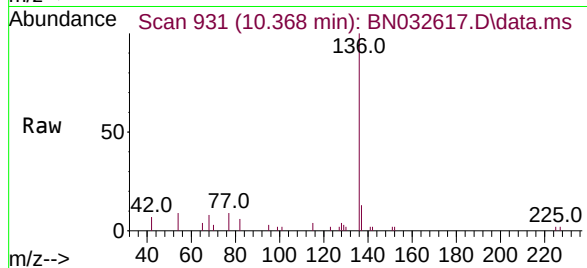
Tgt Ion: 93 Resp: 1728
Ion Ratio Lower Upper
93 100
63 60.8 46.4 69.6
95 35.8 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.368 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

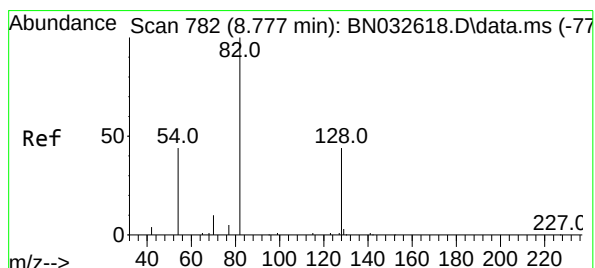
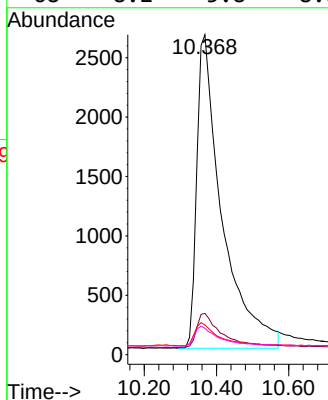
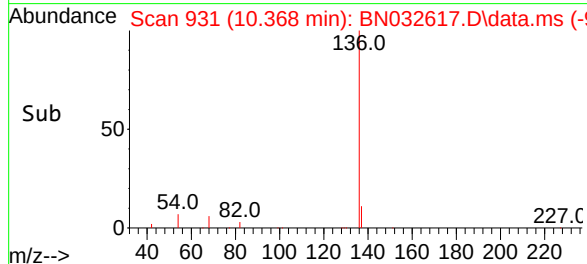
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 136 Resp: 12794
Ion Ratio Lower Upper
136 100
137 12.9 9.9 14.9
54 9.3 6.5 9.7
68 8.2 5.8 8.8

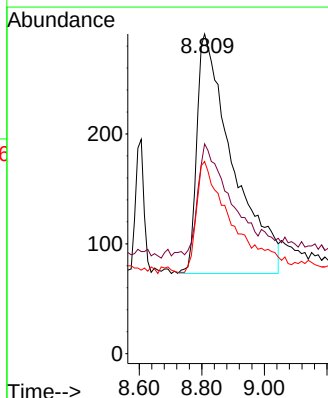
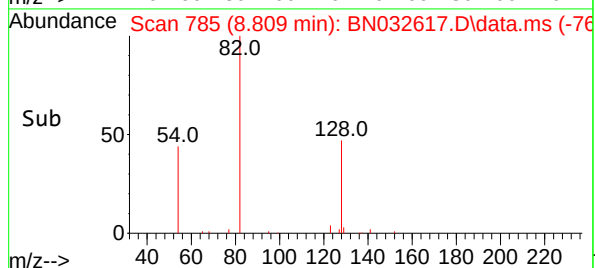
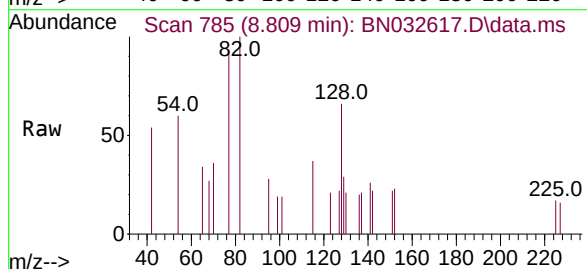
Manual Integrations
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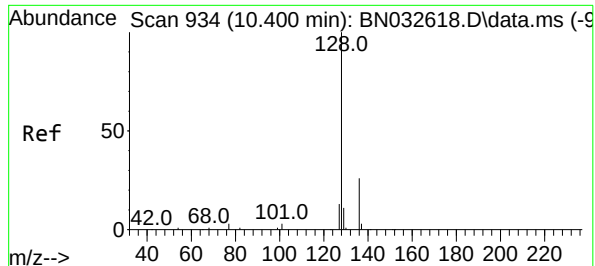
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.180 ng
RT: 8.809 min Scan# 785
Delta R.T. 0.032 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion: 82 Resp: 1732
Ion Ratio Lower Upper
82 100
128 65.6 41.7 62.5#
54 60.1 39.5 59.3#





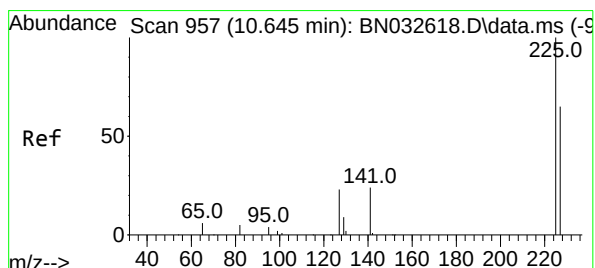
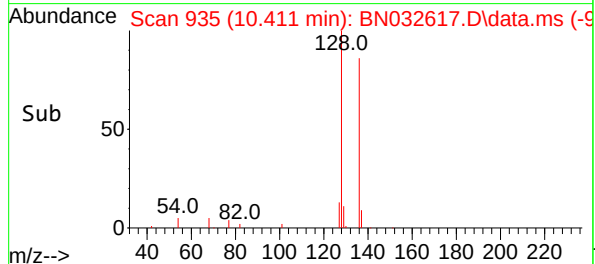
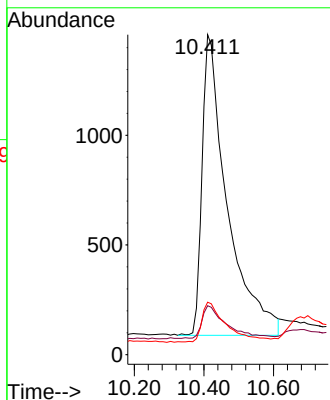
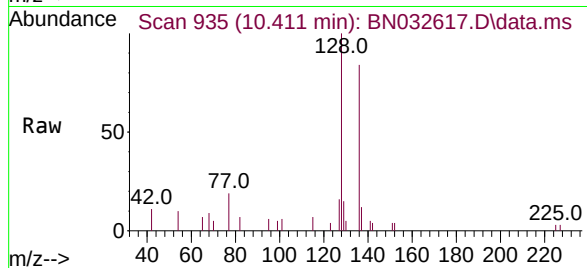
#9
Naphthalene
Concen: 0.194 ng
RT: 10.411 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 6872
Ion Ratio Lower Upper
128 100
129 15.3 9.8 14.8
127 16.4 11.5 17.3

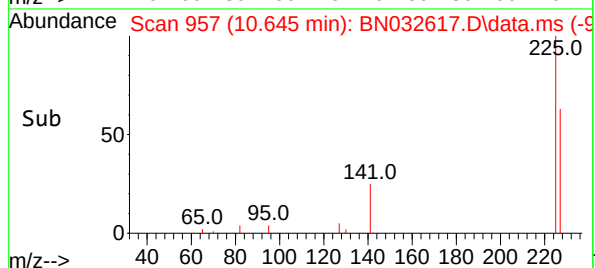
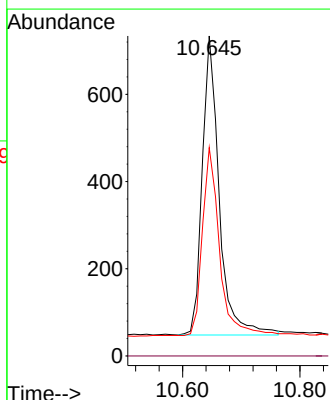
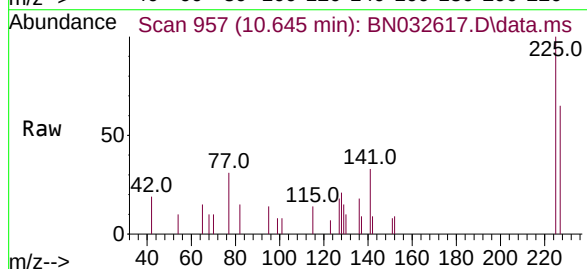
Manual Integrations
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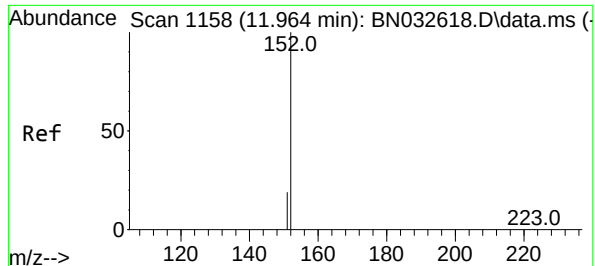
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.204 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

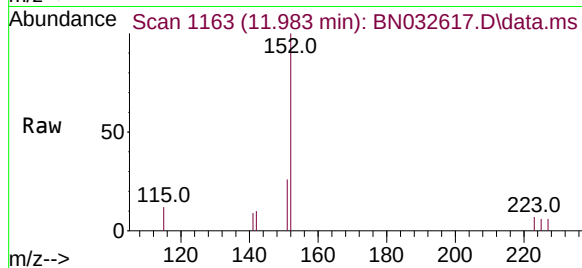
Tgt Ion:225 Resp: 1379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.983 min Scan# 1163
Delta R.T. 0.019 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

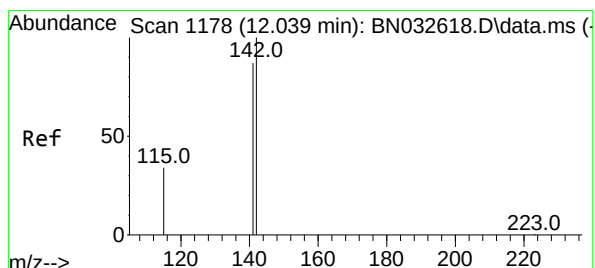
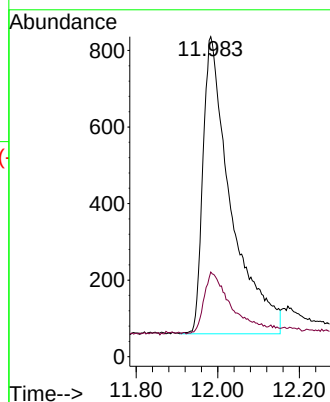
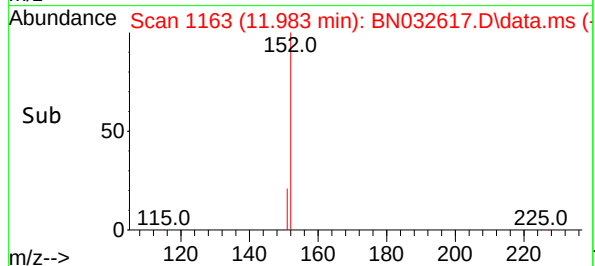
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



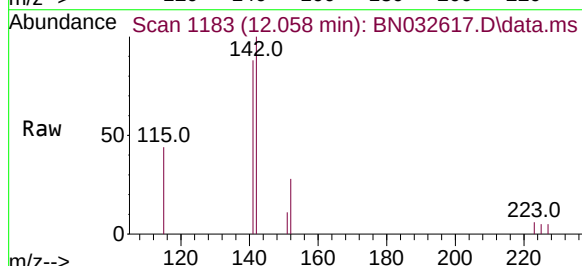
Tgt Ion:152 Resp: 368
Ion Ratio Lower Upper
152 100
151 20.0 16.2 24.2

Manual Integrations
APPROVED

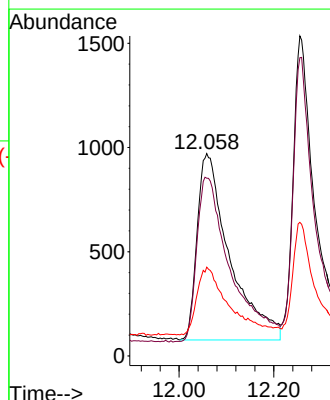
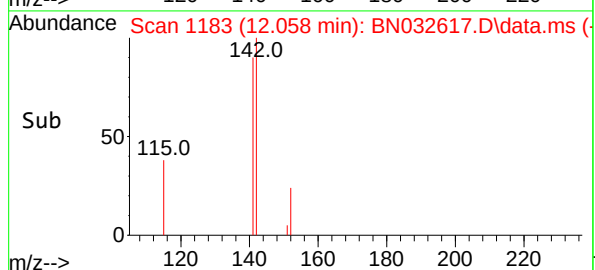
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

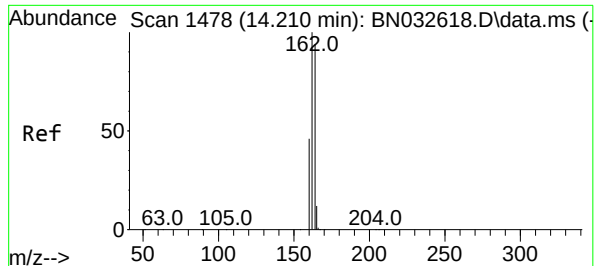


#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 12.058 min Scan# 1183
Delta R.T. 0.019 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30



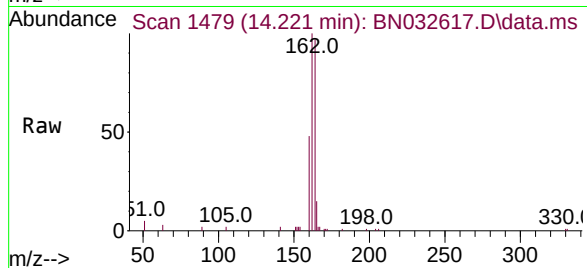
Tgt Ion:142 Resp: 4254
Ion Ratio Lower Upper
142 100
141 87.8 69.3 103.9
115 43.9 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.221 min Scan# 1479
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

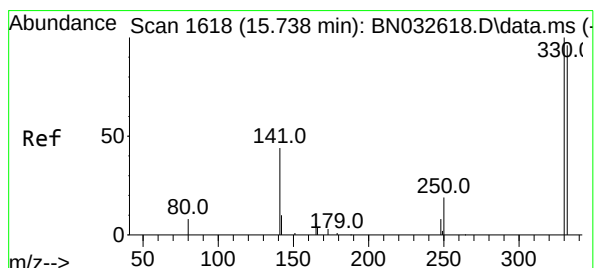
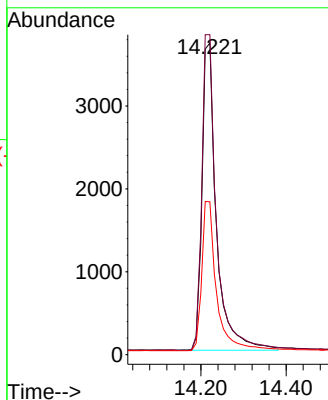
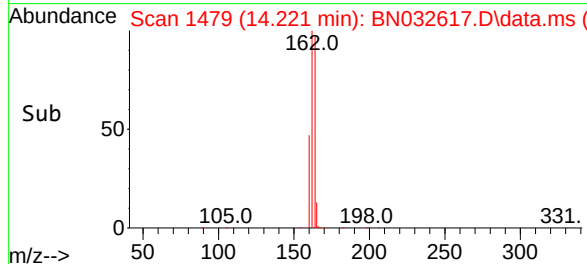
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



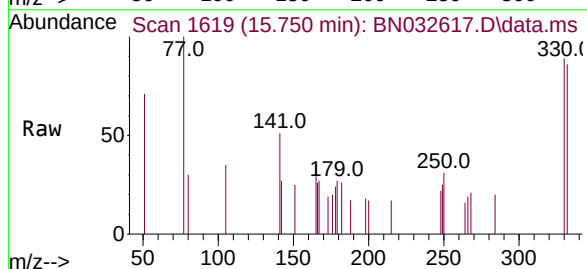
Tgt Ion:164 Resp: 874
Ion Ratio Lower Upper
164 100
162 102.7 85.0 127.4
160 49.1 39.4 59.2

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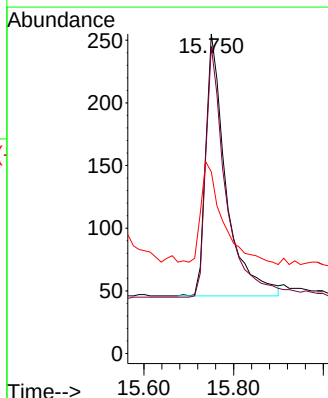
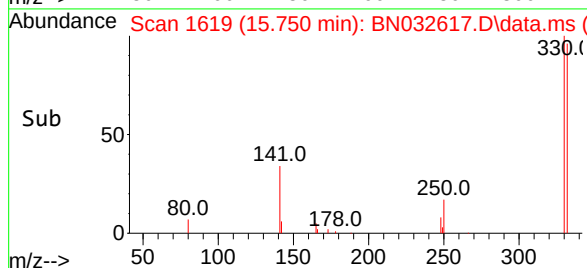
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

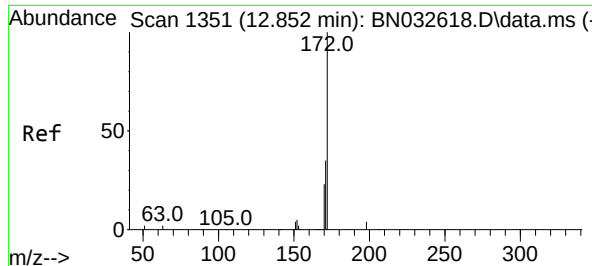


#14
2,4,6-Tribromophenol
Concen: 0.175 ng
RT: 15.750 min Scan# 1619
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30



Tgt Ion:330 Resp: 655
Ion Ratio Lower Upper
330 100
332 94.8 77.8 116.8
141 42.6 34.2 51.2





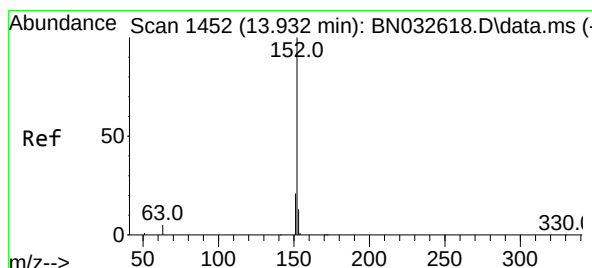
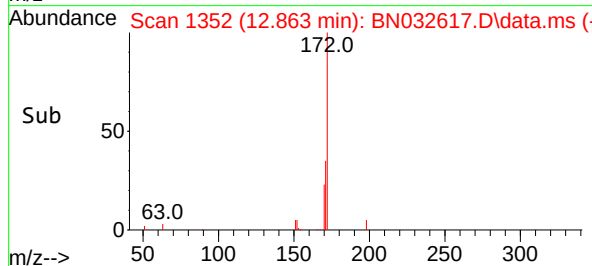
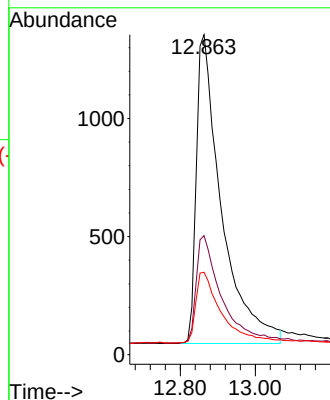
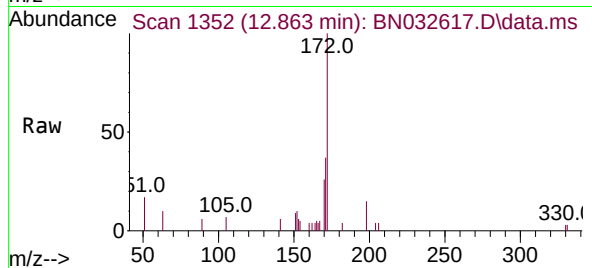
#15
2-Fluorobiphenyl
Concen: 0.186 ng
RT: 12.863 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 607
Ion Ratio Lower Upper
172 100
171 37.2 28.6 43.0
170 25.8 19.0 28.6

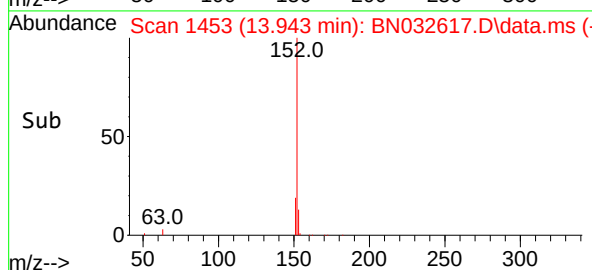
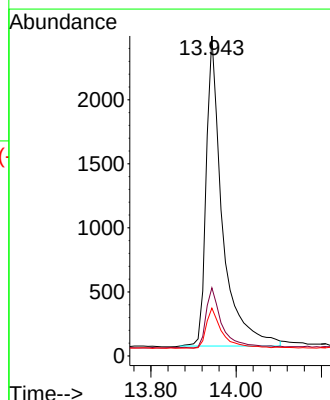
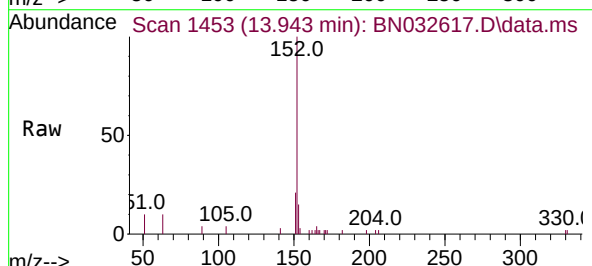
Manual Integrations
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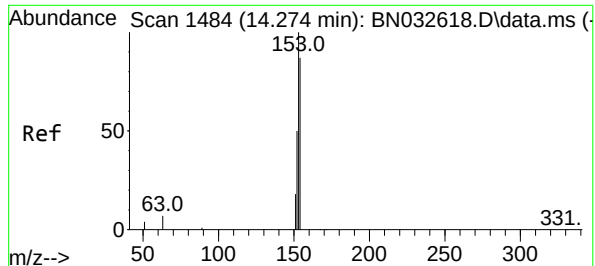
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.179 ng
RT: 13.943 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

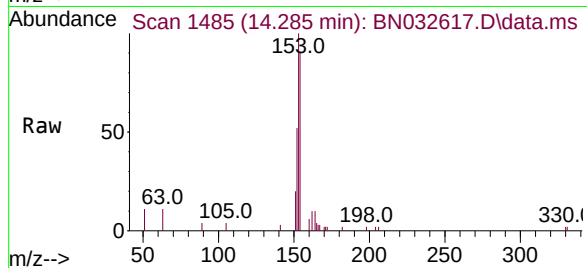
Tgt Ion:152 Resp: 6373
Ion Ratio Lower Upper
152 100
151 19.3 16.0 24.0
153 12.6 10.6 15.8





#17
Acenaphthene
Concen: 0.189 ng
RT: 14.285 min Scan# 1485
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

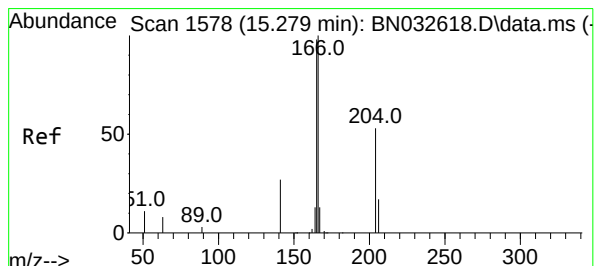
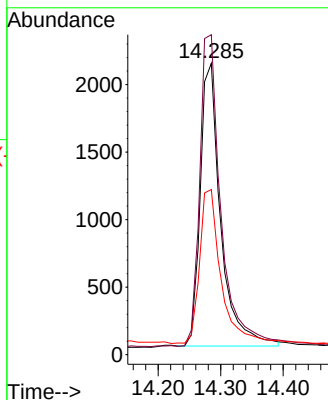
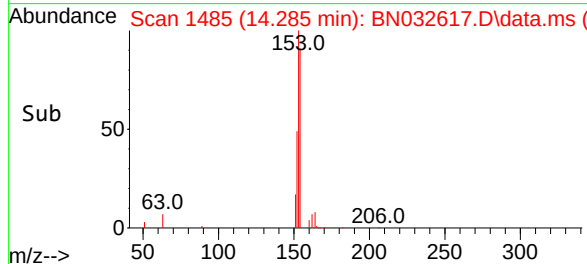
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 4760
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 56.8 45.2 67.8

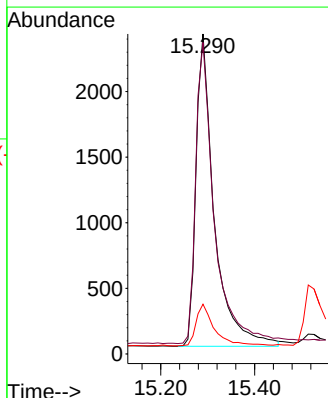
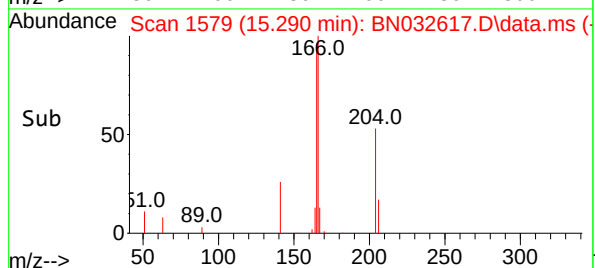
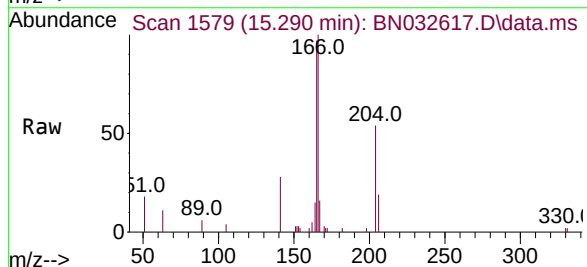
Manual Integrations
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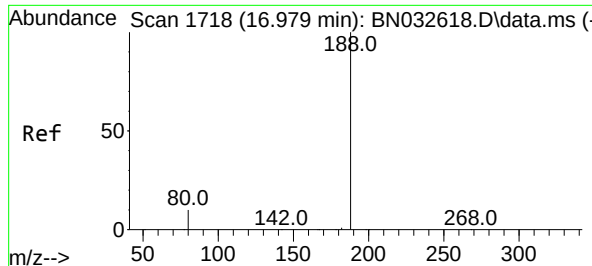
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.191 ng
RT: 15.290 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:166 Resp: 6444
Ion Ratio Lower Upper
166 100
165 97.3 78.0 117.0
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.991 min Scan# 1718

Delta R.T. 0.013 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

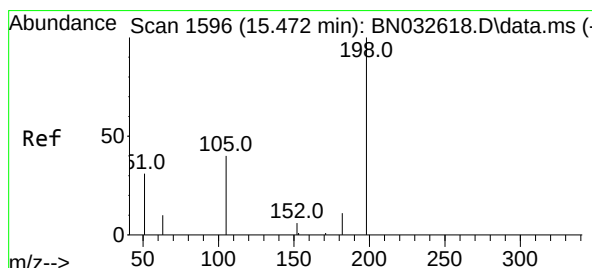
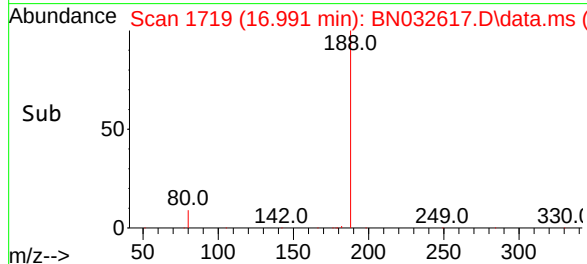
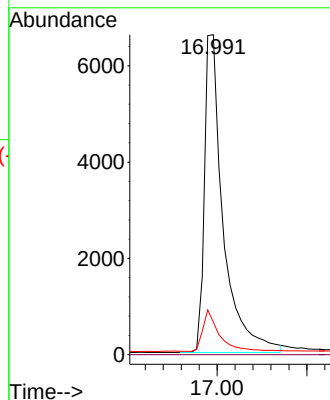
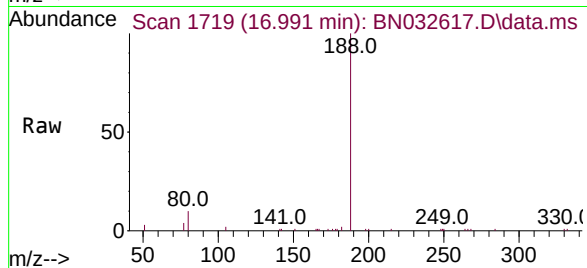
SSTDICC0.2

Tgt Ion:188	Resp:	1918
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.2	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.350 ng

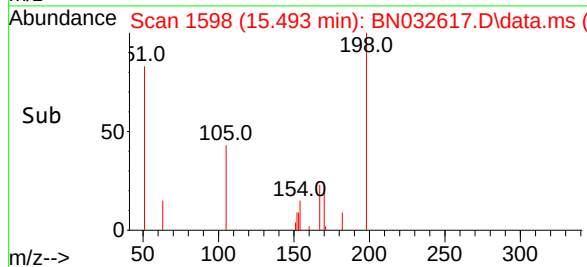
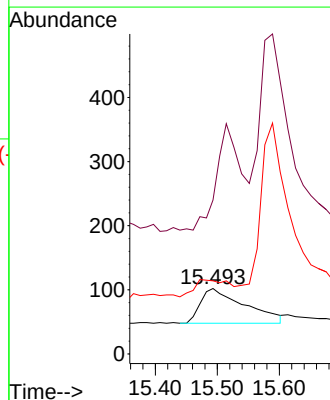
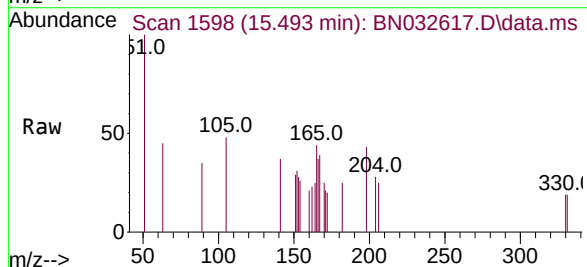
RT: 15.493 min Scan# 1598

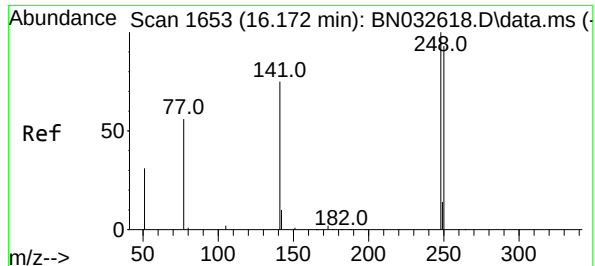
Delta R.T. 0.021 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:198	Resp:	269
Ion Ratio	Lower	Upper
198	100	
51	235.3	105.7
105	111.8	63.0





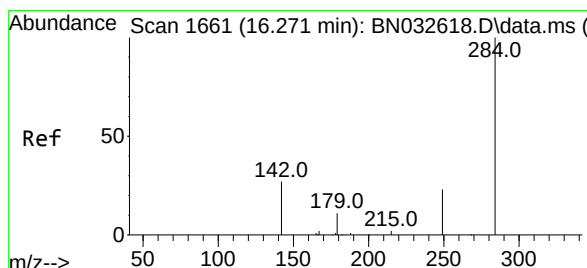
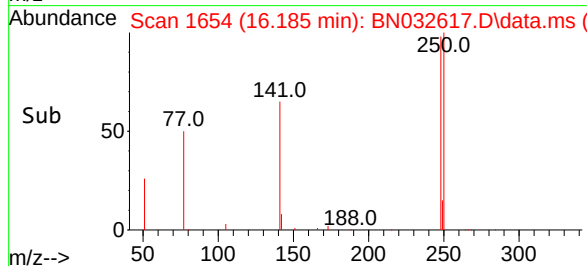
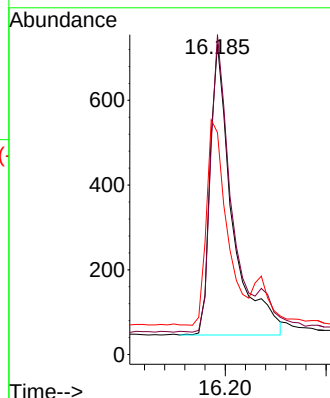
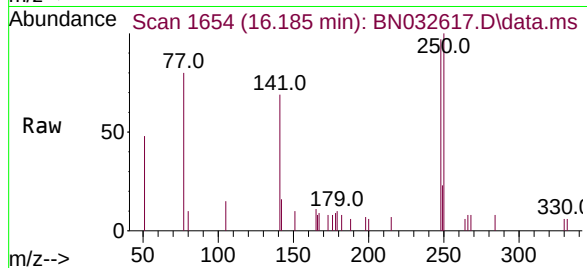
#21
4-Bromophenyl-phenylether
Concen: 0.186 ng
RT: 16.185 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2098
Ion Ratio Lower Upper
248 100
250 103.0 75.1 112.7
141 71.5 62.0 93.0

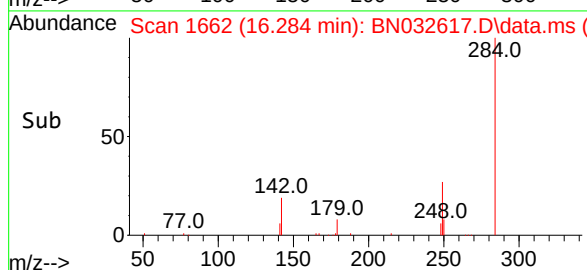
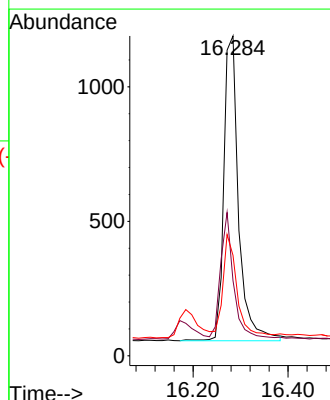
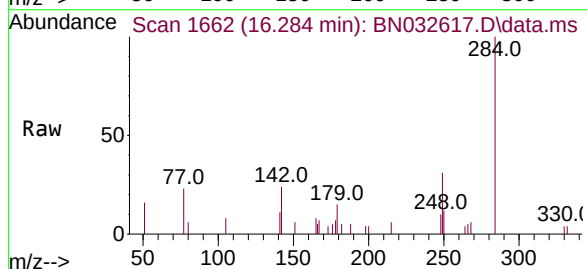
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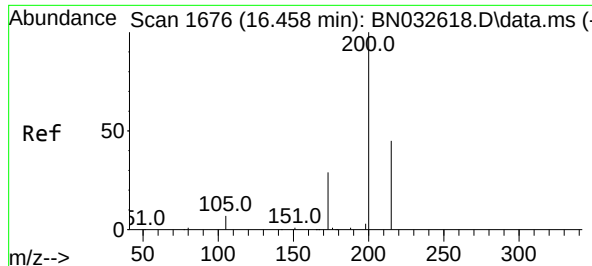
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.193 ng
RT: 16.284 min Scan# 1662
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:284 Resp: 2435
Ion Ratio Lower Upper
284 100
142 34.8 29.4 44.0
249 29.4 24.6 36.8





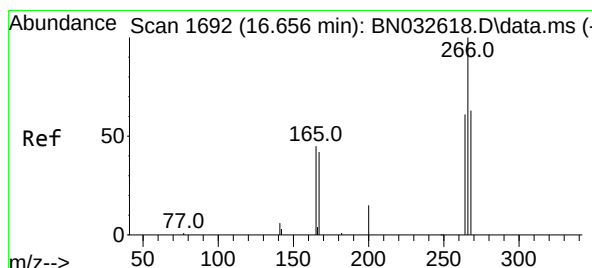
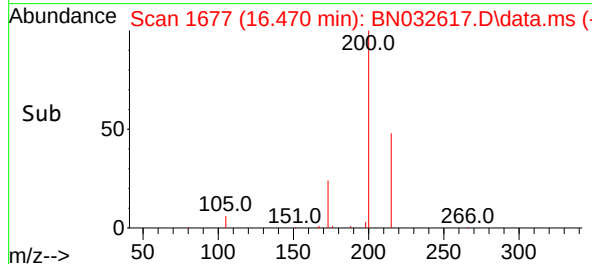
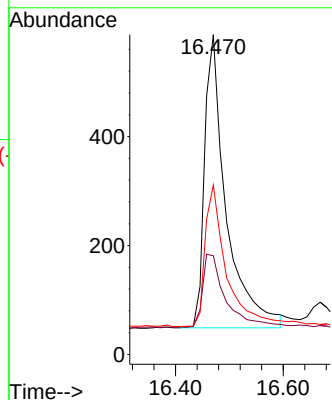
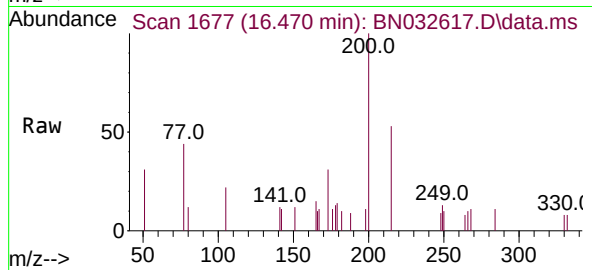
#23
Atrazine
Concen: 0.180 ng
RT: 16.470 min Scan# 1677
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 149
Ion Ratio Lower Upper
200 100
173 30.8 25.4 38.2
215 53.0 38.2 57.2

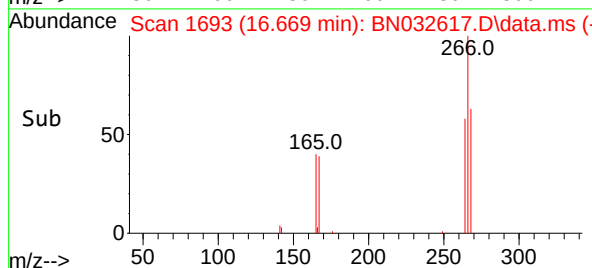
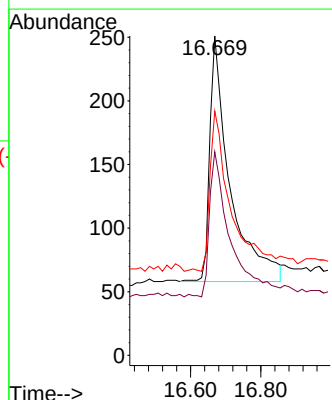
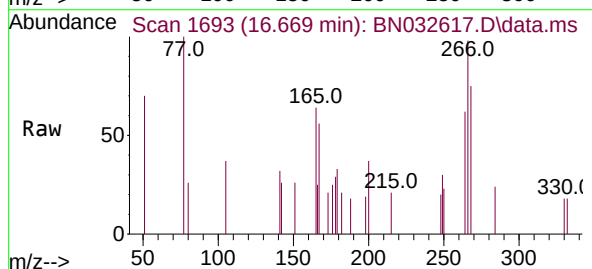
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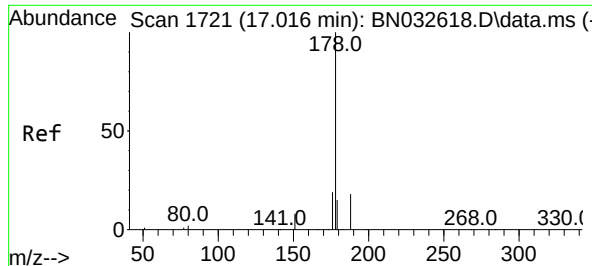
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.165 ng
RT: 16.669 min Scan# 1693
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:266 Resp: 772
Ion Ratio Lower Upper
266 100
264 59.5 50.2 75.2
268 68.0 52.8 79.2





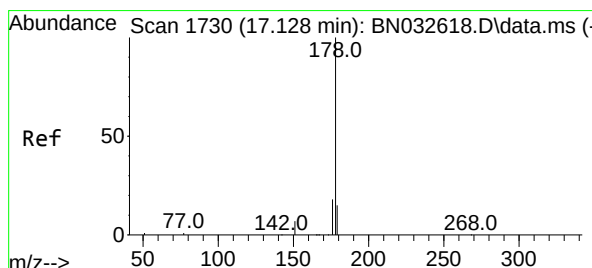
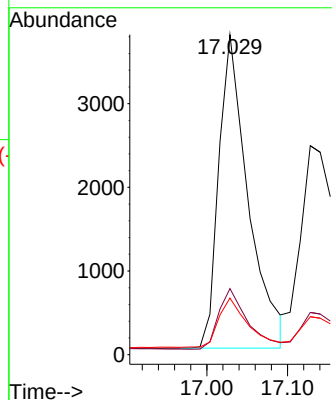
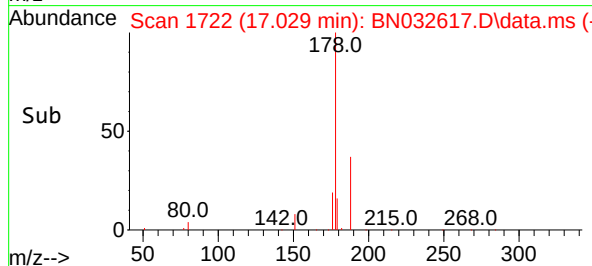
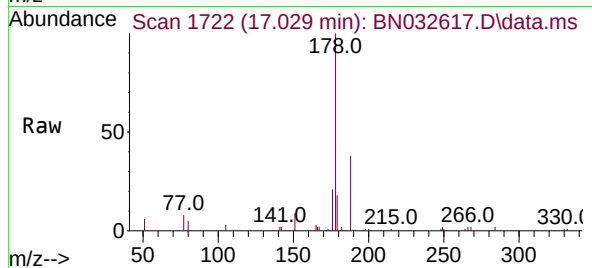
#25
Phenanthrene
Concen: 0.180 ng
RT: 17.029 min Scan# 1721
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 946
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.7 12.2 18.4

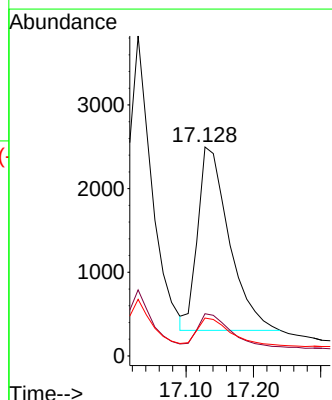
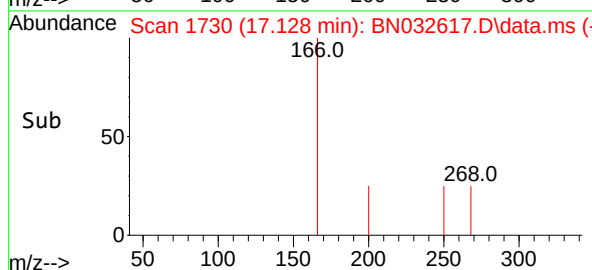
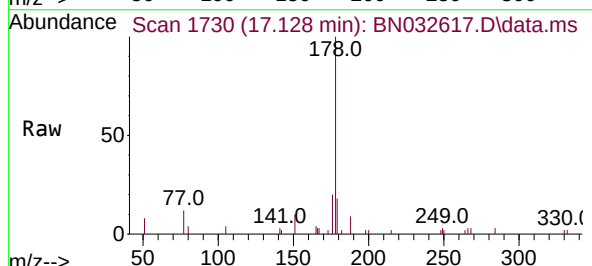
Manual Integrations
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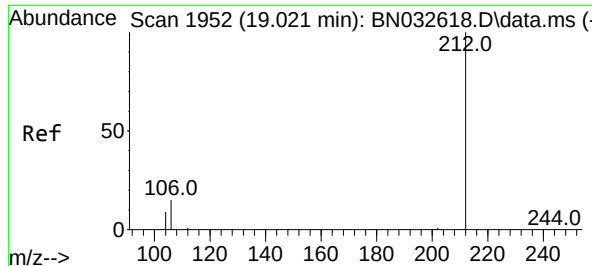
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.165 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:178 Resp: 7118
Ion Ratio Lower Upper
178 100
176 18.2 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.191 ng

RT: 19.026 min Scan# 1952

Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

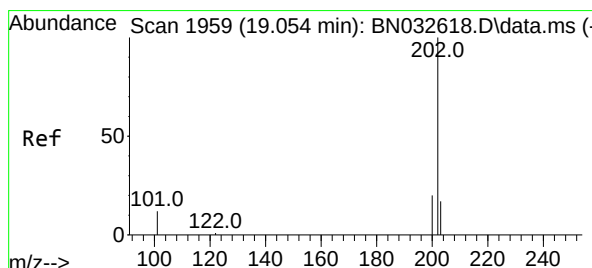
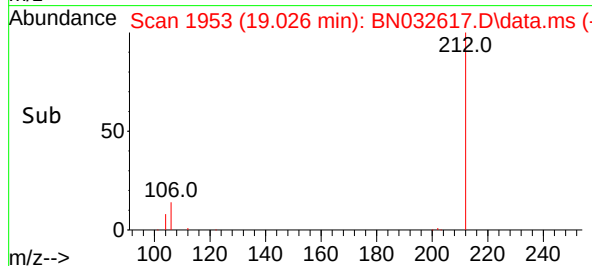
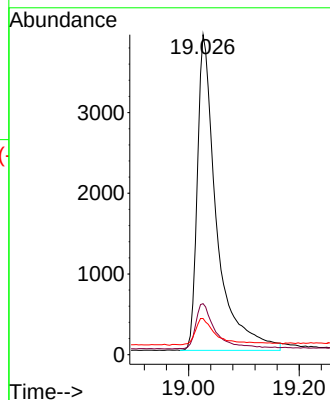
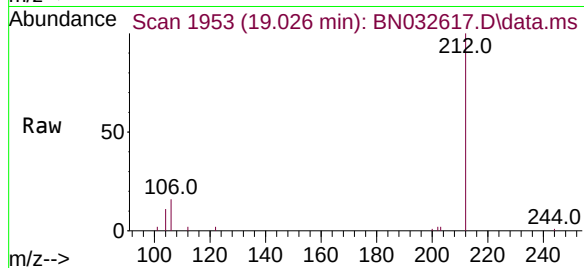
SSTDIC0.2

Tgt Ion:	212	Resp:	946
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.9	17.9
104	9.2	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.187 ng

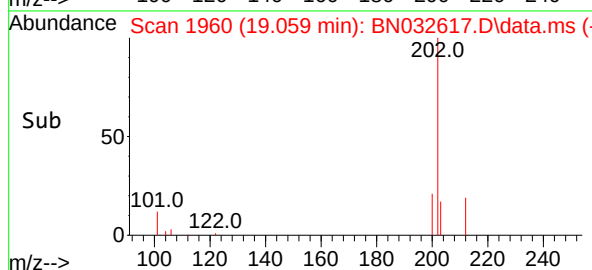
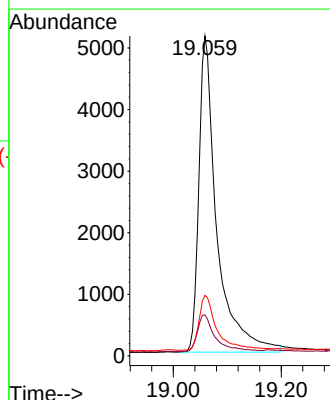
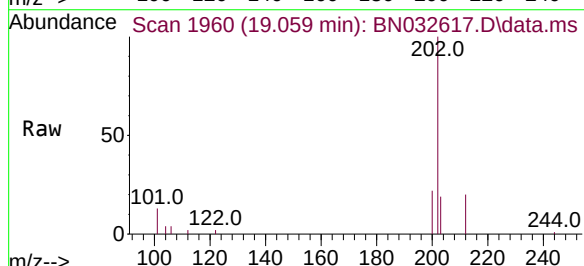
RT: 19.059 min Scan# 1960

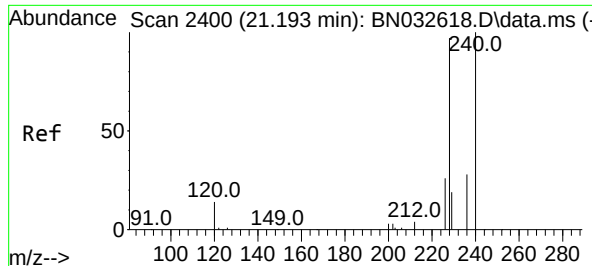
Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:	202	Resp:	11847
Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.6	14.4
203	17.5	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.202 min Scan# 2401

Delta R.T. 0.009 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

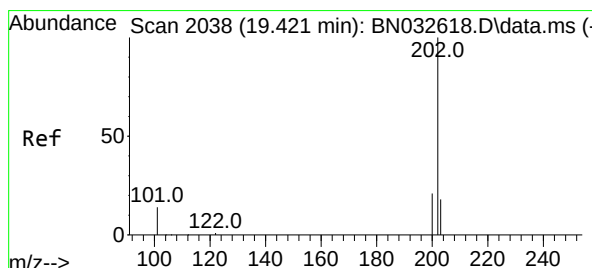
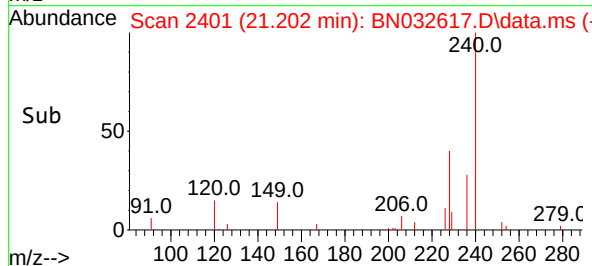
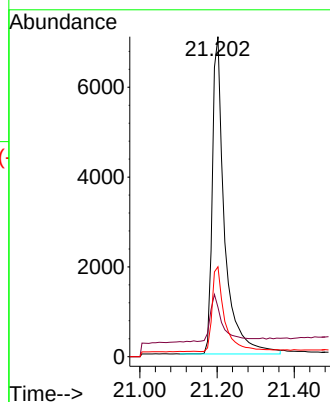
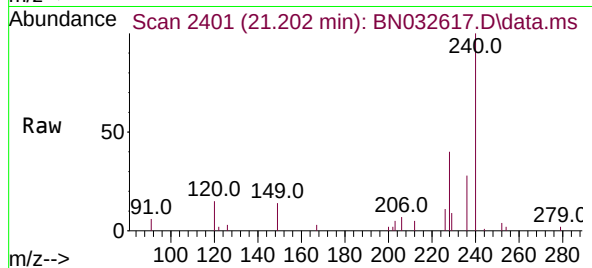
SSTDICC0.2

Tgt Ion:240	Resp:	15620
Ion Ratio	Lower	Upper
240	100	
120	15.4	14.8 22.2
236	28.1	23.3 34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.192 ng

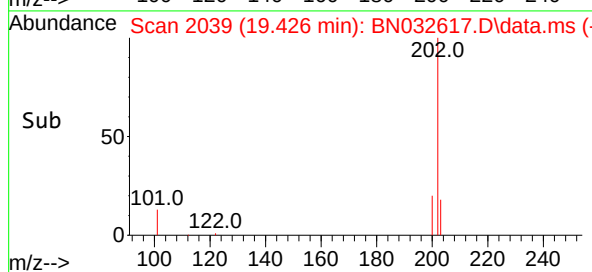
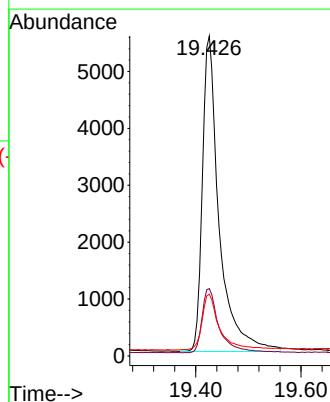
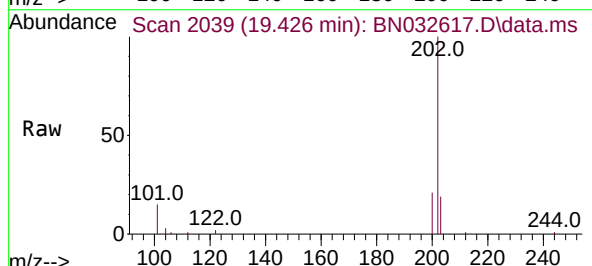
RT: 19.426 min Scan# 2039

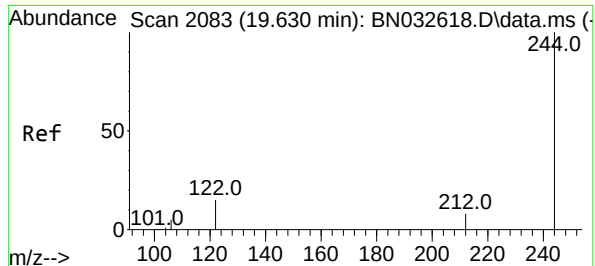
Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:202	Resp:	12255
Ion Ratio	Lower	Upper
202	100	
200	20.8	16.6 25.0
203	18.6	14.8 22.2





#31
Terphenyl-d14
Concen: 0.194 ng
RT: 19.635 min Scan# 2083
Delta R.T. 0.005 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

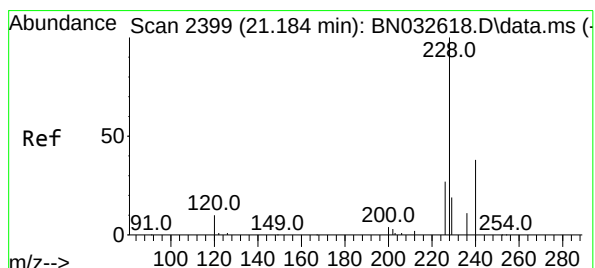
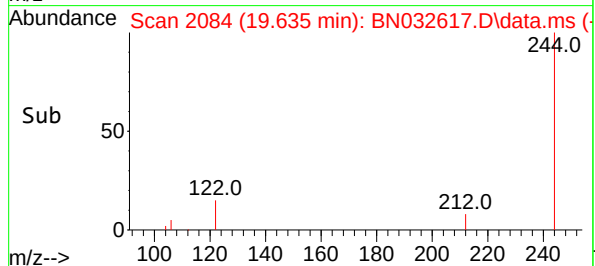
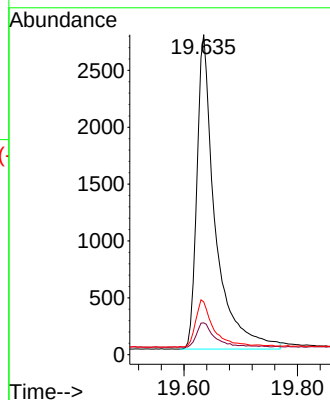
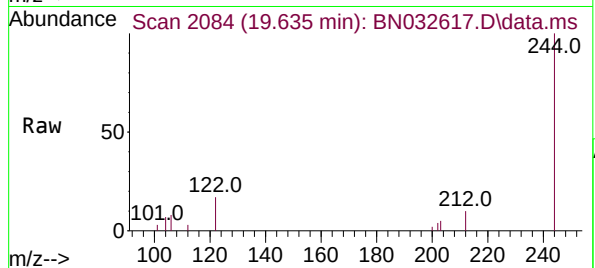
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	16.5	12.6	19.0

Manual Integrations

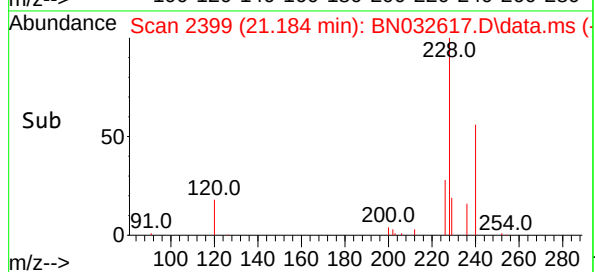
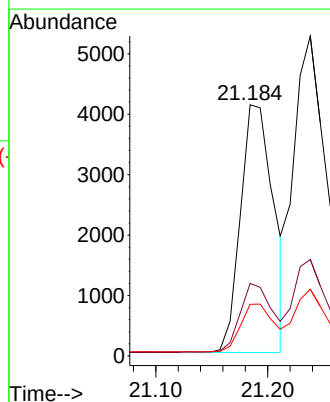
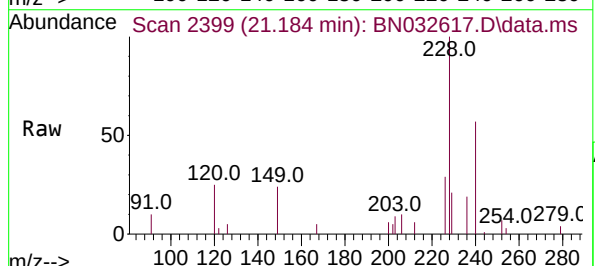
APPROVED

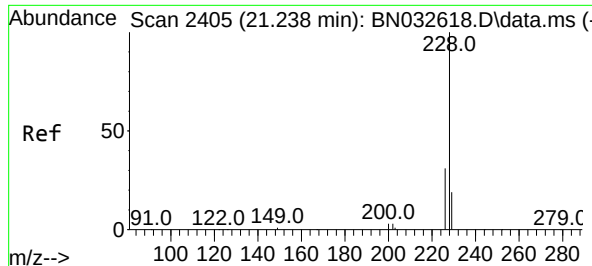
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.170 ng
RT: 21.184 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.6
229	20.6	16.0	24.0





#33

Chrysene

Concen: 0.200 ng

RT: 21.238 min Scan# 2405

Delta R.T. 0.000 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 1176

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

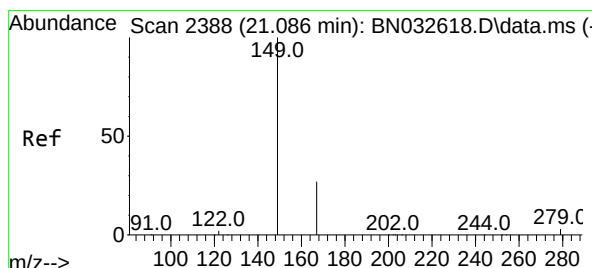
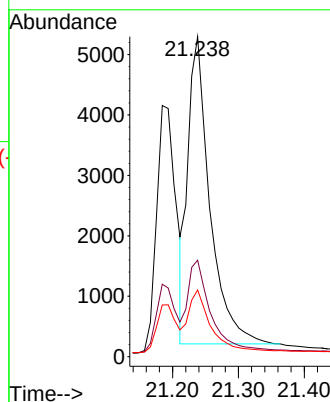
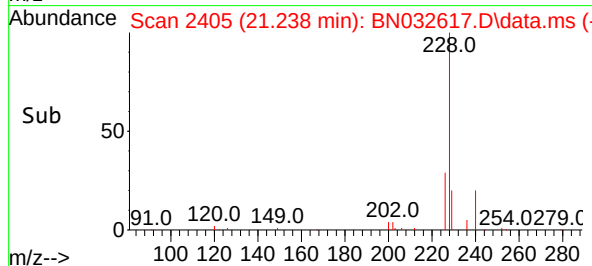
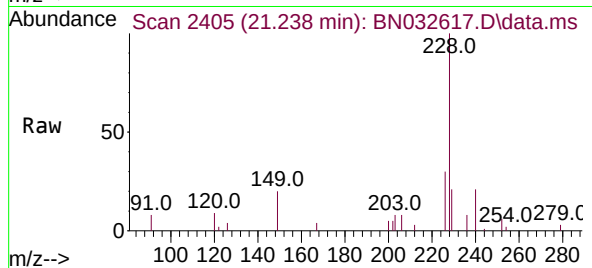
229 20.8 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.195 ng

RT: 21.086 min Scan# 2388

Delta R.T. 0.000 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

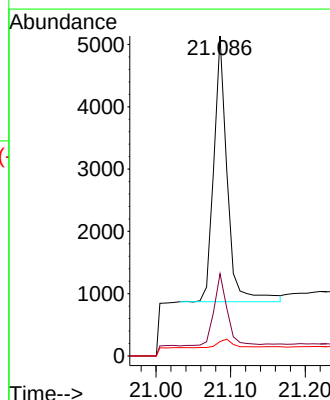
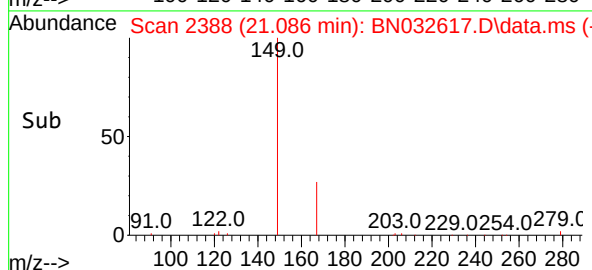
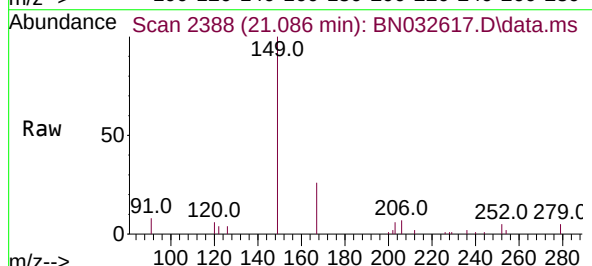
Tgt Ion:149 Resp: 5344

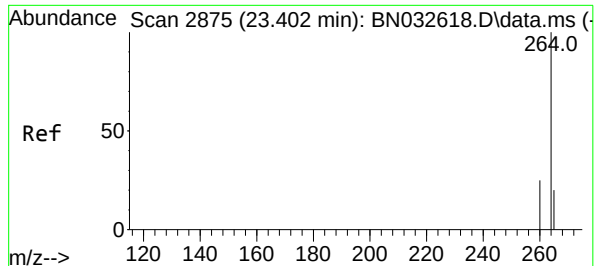
Ion Ratio Lower Upper

149 100

167 27.0 21.4 32.2

279 3.8 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN032617.D

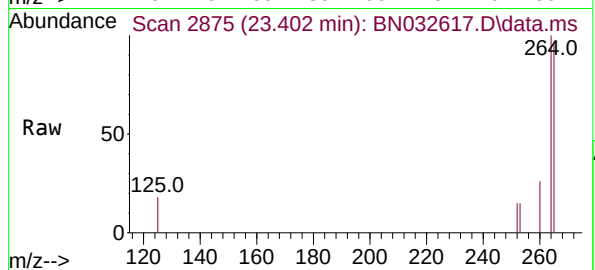
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:264 Resp: 15078

Ion Ratio Lower Upper

264 100

260 25.9 20.9 31.3

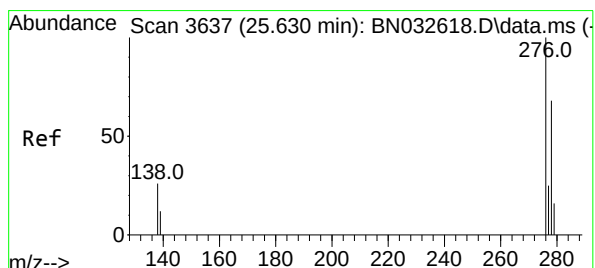
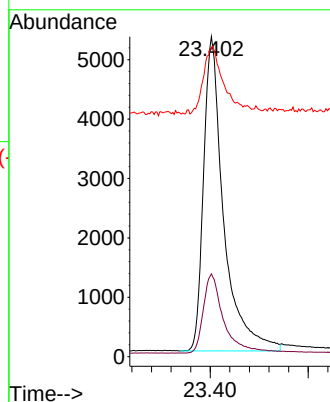
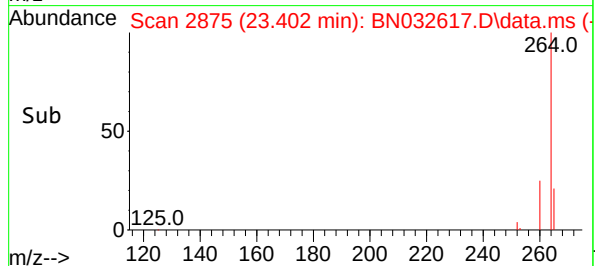
265 96.4 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.179 ng

RT: 25.639 min Scan# 3640

Delta R.T. 0.009 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

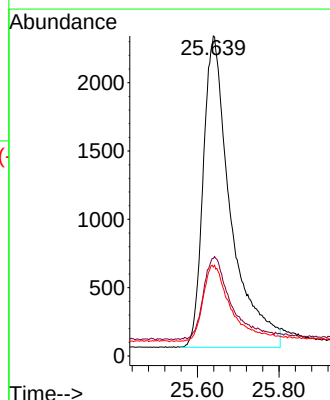
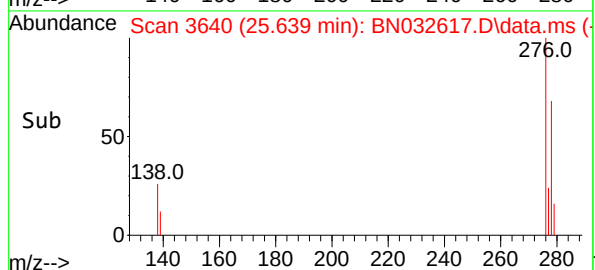
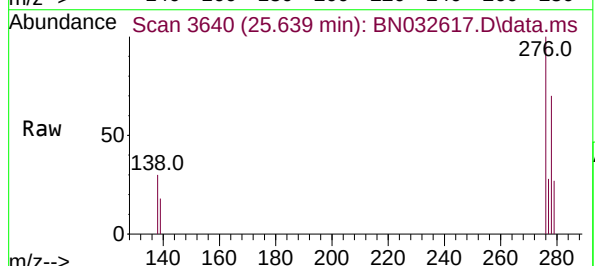
Tgt Ion:276 Resp: 10630

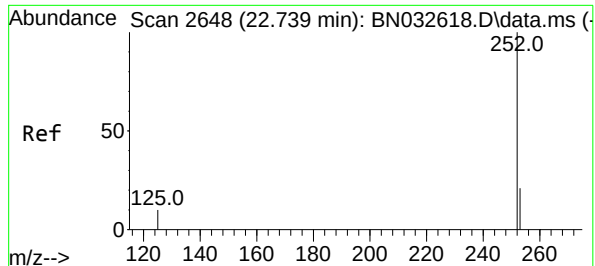
Ion Ratio Lower Upper

276 100

138 25.1 21.0 31.4

277 24.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.172 ng

RT: 22.744 min Scan# 2650

Delta R.T. 0.006 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

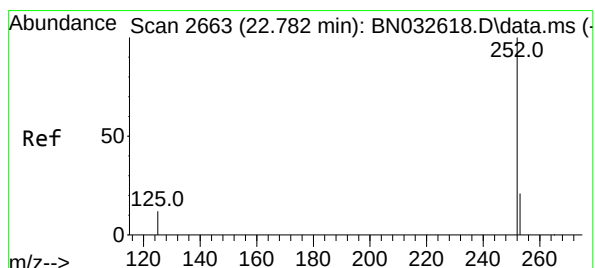
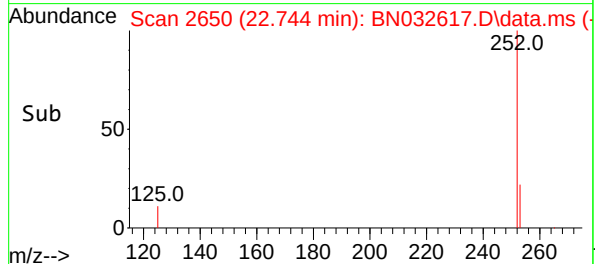
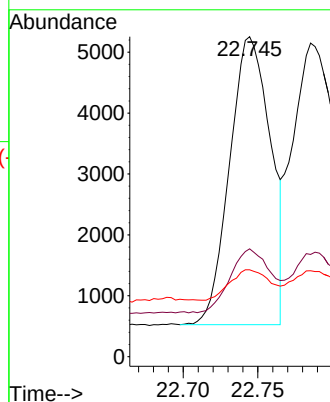
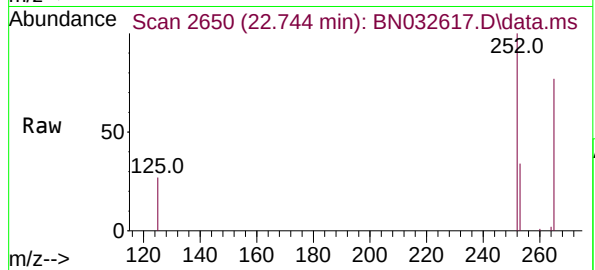
Tgt Ion:	252	Resp:	9009
Ion Ratio	Lower	Upper	
252	100		
253	33.7	22.3	33.5
125	27.2	15.4	23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.189 ng m

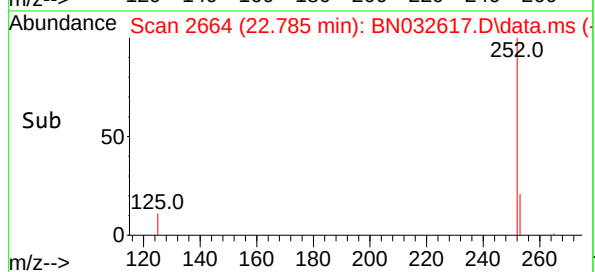
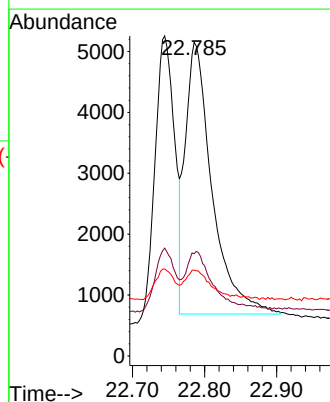
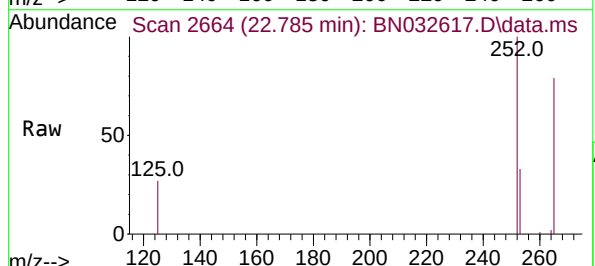
RT: 22.785 min Scan# 2664

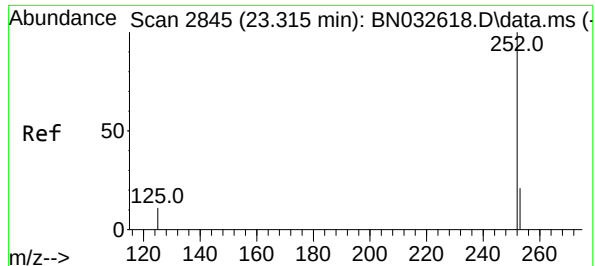
Delta R.T. 0.003 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:	252	Resp:	11516
Ion Ratio	Lower	Upper	
252	100		
253	32.6	22.6	34.0
125	27.4	16.2	24.4





#39

Benzo(a)pyrene

Concen: 0.182 ng

RT: 23.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

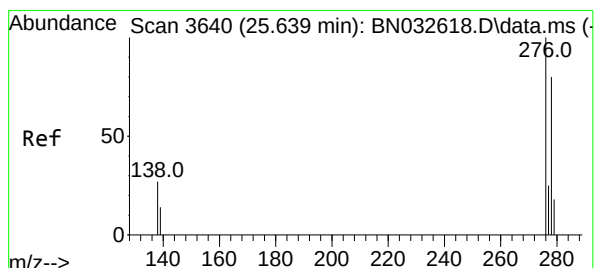
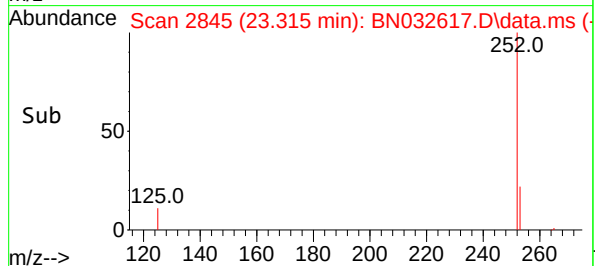
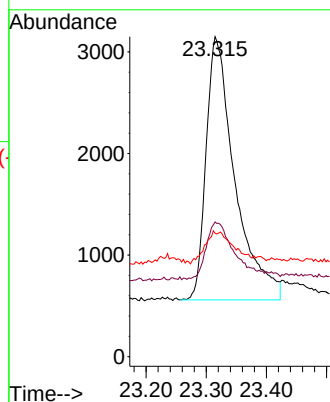
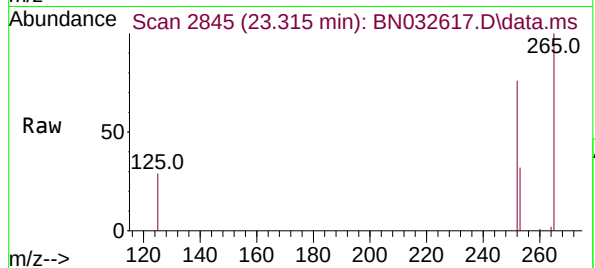
Tgt Ion:	252	Resp:	860
Ion Ratio	Lower	Upper	
252	100		
253	42.1	25.8	38.8
125	38.6	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.179 ng

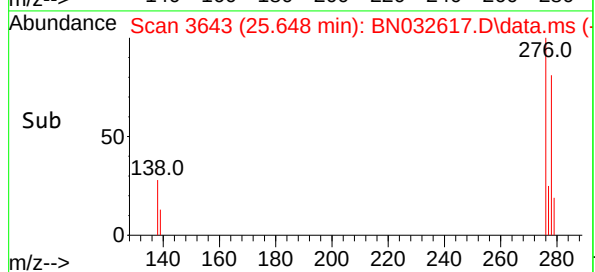
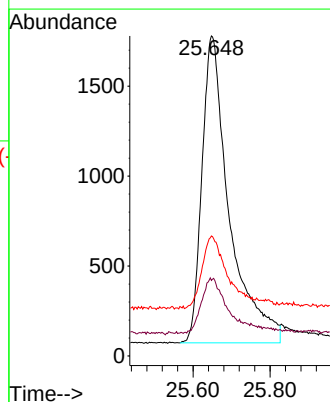
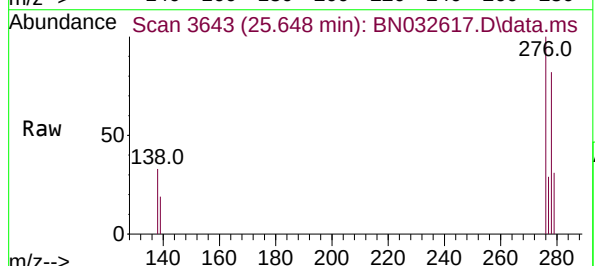
RT: 25.648 min Scan# 3643

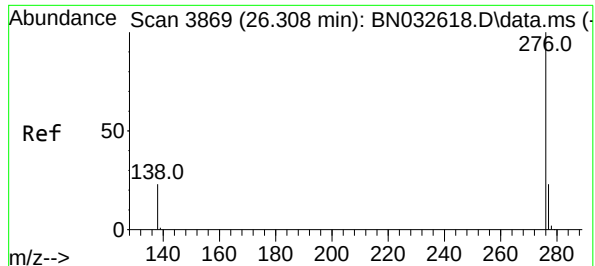
Delta R.T. 0.009 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:	278	Resp:	8413
Ion Ratio	Lower	Upper	
278	100		
139	23.6	16.7	25.1
279	37.5	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.187 ng

RT: 26.311 min Scan# 3869

Delta R.T. 0.003 min

Lab File: BN032617.D

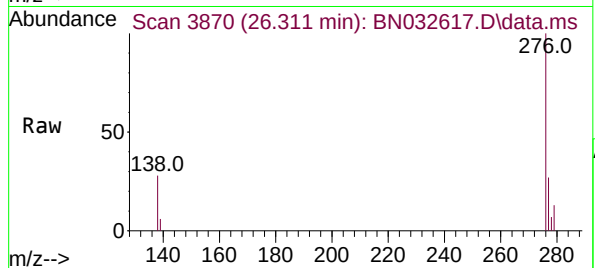
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 971

Ion Ratio Lower Upper

276 100

277 27.2 20.2 30.2

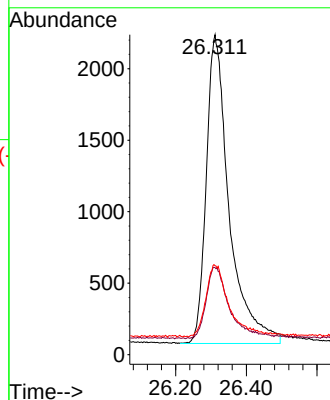
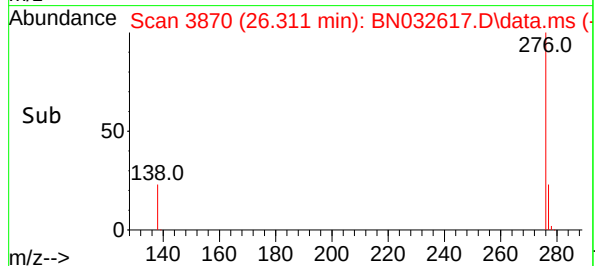
138 27.8 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032618.D
 Acq On : 10 Jul 2024 17:07
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:38:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4288	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	13064	0.400	ng	0.00
13) Acenaphthene-d10	14.210	164	8572	0.400	ng	0.00
19) Phenanthrene-d10	16.979	188	18433	0.400	ng	0.00
29) Chrysene-d12	21.193	240	13897	0.400	ng	0.00
35) Perylene-d12	23.402	264	13224	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.198	112	4452	0.410	ng	0.00
5) Phenol-d6	6.794	99	5394	0.401	ng	0.00
8) Nitrobenzene-d5	8.777	82	3803	0.387	ng	0.00
11) 2-Methylnaphthalene-d10	11.964	152	7803	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.738	330	1311	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.852	172	12732	0.399	ng	0.00
27) Fluoranthene-d10	19.021	212	18167	0.381	ng	0.00
31) Terphenyl-d14	19.630	244	11761	0.413	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.139	88	2122	0.399	ng	96
3) n-Nitrosodimethylamine	3.472	42	1806	0.402	ng	100
6) bis(2-Chloroethyl)ether	7.018	93	4542	0.403	ng	100
9) Naphthalene	10.400	128	14410	0.398	ng	100
10) Hexachlorobutadiene	10.645	225	2799	0.405	ng	# 100
12) 2-Methylnaphthalene	12.039	142	9112	0.385	ng	100
16) Acenaphthylene	13.932	152	12817	0.368	ng	100
17) Acenaphthene	14.274	154	9790	0.396	ng	100
18) Fluorene	15.279	166	13059	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.472	198	630	0.444	ng	100
21) 4-Bromophenyl-phenylether	16.172	248	4253	0.393	ng	100
22) Hexachlorobenzene	16.271	284	4764	0.393	ng	100
23) Atrazine	16.458	200	2857	0.358	ng	100
24) Pentachlorophenol	16.656	266	1497	0.332	ng	100
25) Phenanthrene	17.016	178	19494	0.387	ng	100
26) Anthracene	17.128	178	14546	0.351	ng	100
28) Fluoranthene	19.054	202	23033	0.378	ng	100
30) Pyrene	19.421	202	23516	0.414	ng	100
32) Benzo(a)anthracene	21.184	228	16645	0.379	ng	100
33) Chrysene	21.238	228	21522	0.412	ng	100
34) Bis(2-ethylhexyl)phtha...	21.086	149	8395	0.345	ng	100
36) Indeno(1,2,3-cd)pyrene	25.630	276	20282	0.389	ng	100
37) Benzo(b)fluoranthene	22.739	252	17364	0.377	ng	100
38) Benzo(k)fluoranthene	22.782	252	20987m	0.393	ng	
39) Benzo(a)pyrene	23.315	252	15908	0.383	ng	100
40) Dibenzo(a,h)anthracene	25.639	278	16066	0.390	ng	100
41) Benzo(g,h,i)perylene	26.308	276	18226	0.400	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032618.D
 Acq On : 10 Jul 2024 17:07
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Quant Time: Jul 10 23:38:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

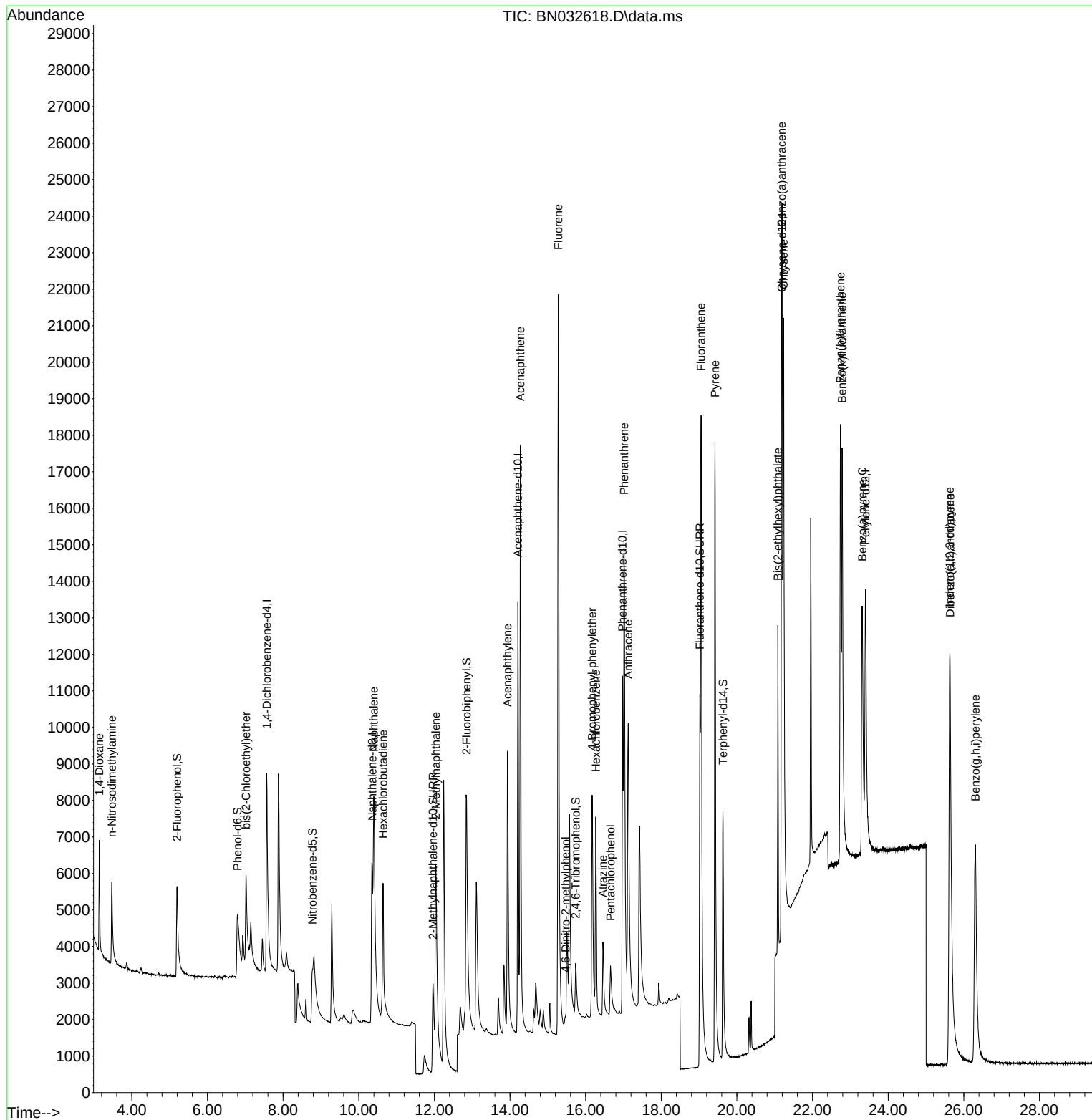
Response via : Initial Calibration

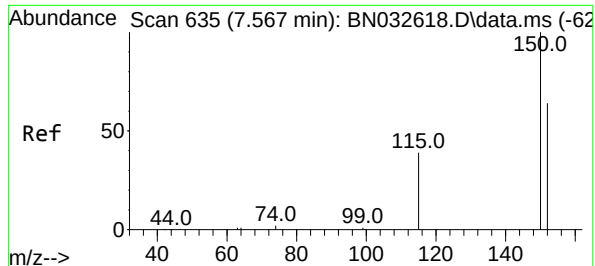
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

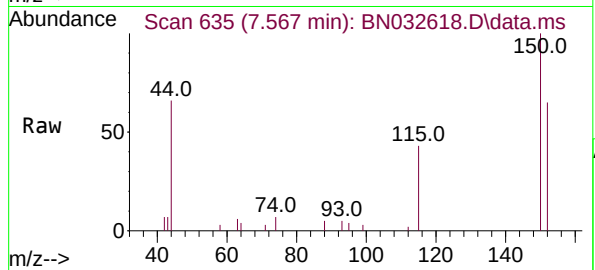
Supervised By :mohammad ahmed 07/11/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

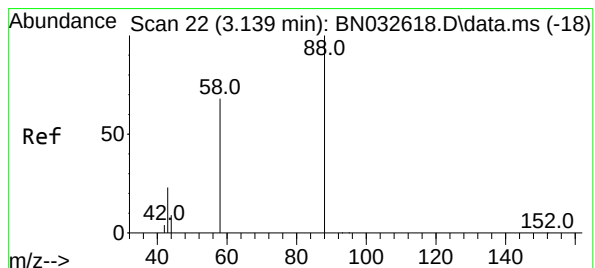
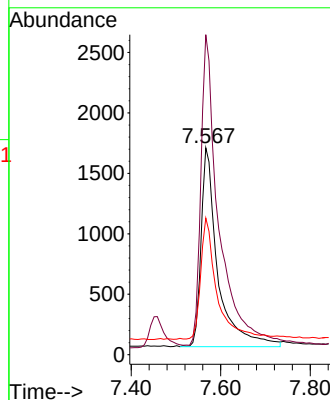
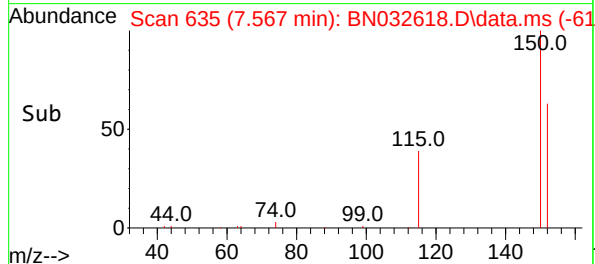
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 428
Ion Ratio Lower Upper
152 100
150 154.7 123.8 185.6
115 66.0 52.8 79.2

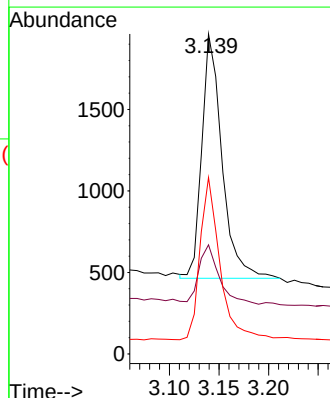
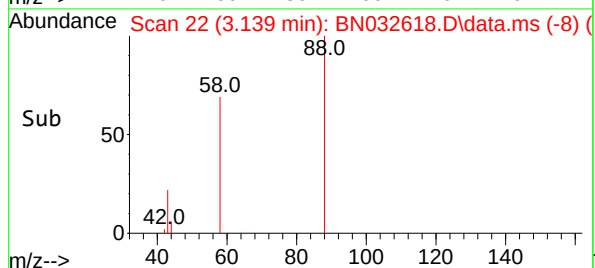
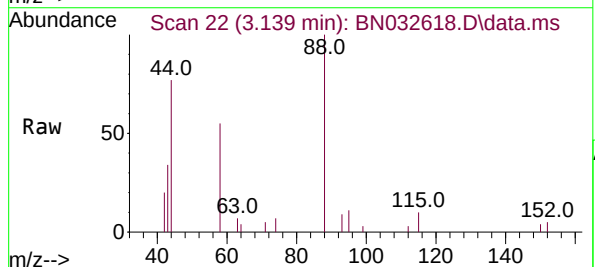
Manual Integrations
APPROVED

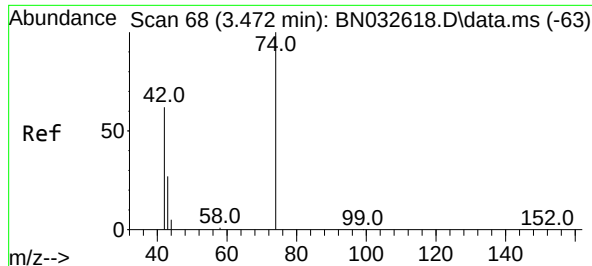
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion: 88 Resp: 2122
Ion Ratio Lower Upper
88 100
43 24.6 18.4 27.6
58 65.2 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.402 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

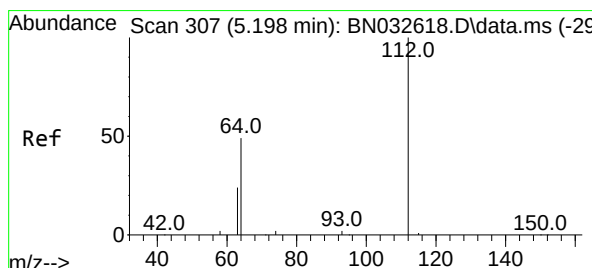
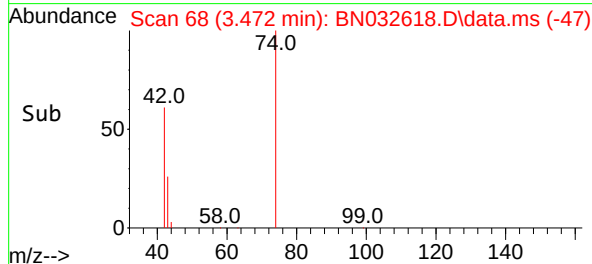
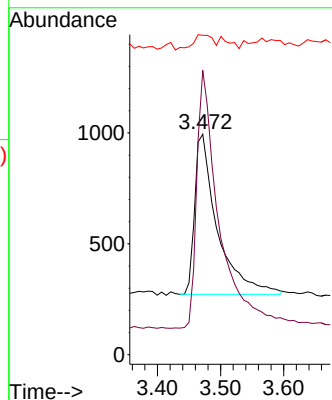
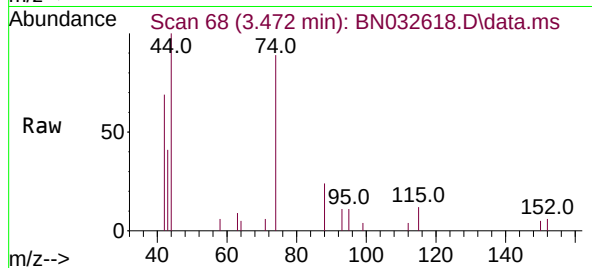
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	42	Resp:	1800
Ion Ratio	Lower	Upper	
42	100		
74	158.6	126.9	190.3
44	6.0	4.8	7.2

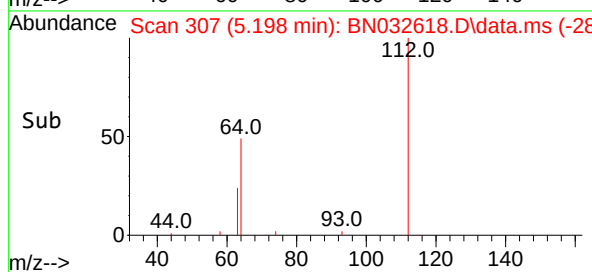
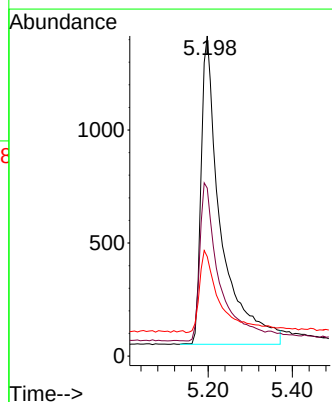
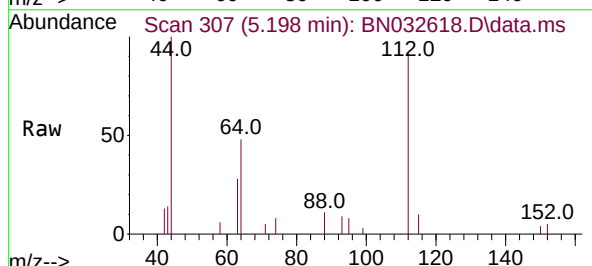
Manual Integrations
APPROVED

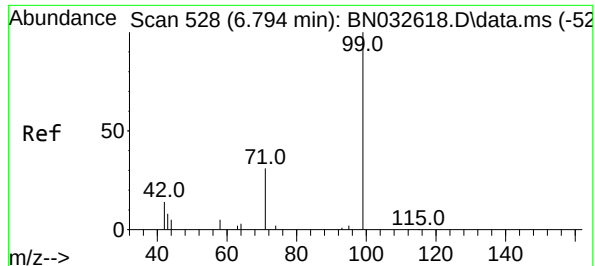
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.410 ng
RT: 5.198 min Scan# 307
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:	112	Resp:	4452
Ion Ratio	Lower	Upper	
112	100		
64	50.3	40.2	60.4
63	27.8	22.2	33.4





#5
Phenol-d6
Concen: 0.401 ng
RT: 6.794 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

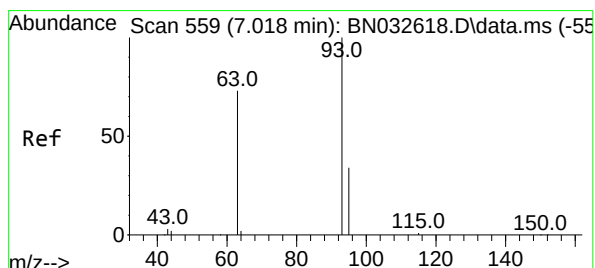
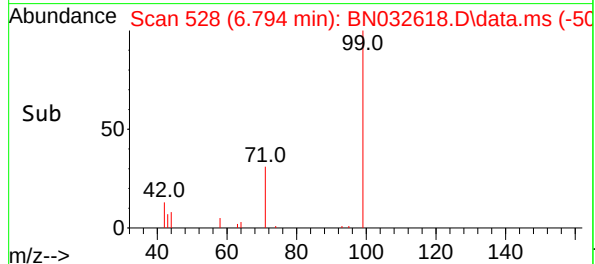
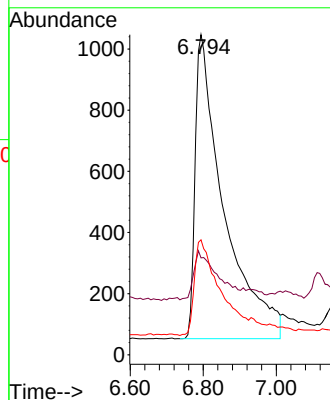
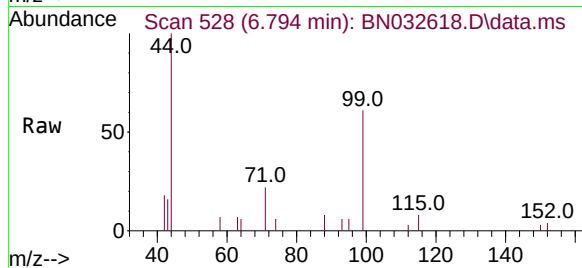
SSTDICCC0.4

Tgt Ion:	99	Ratio	100	Lower	Upper
99	100				
42	13.3		10.5	15.7	
71	28.3		22.3	33.5	

Manual Integrations
APPROVED

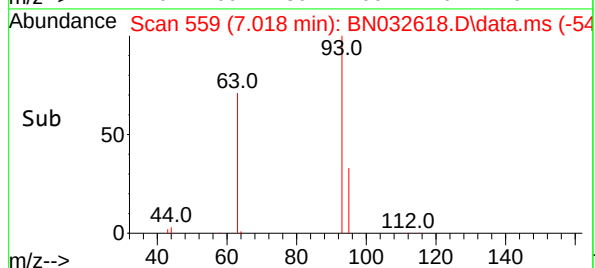
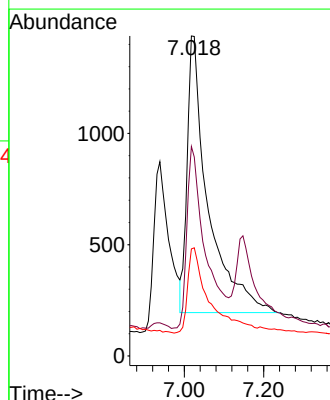
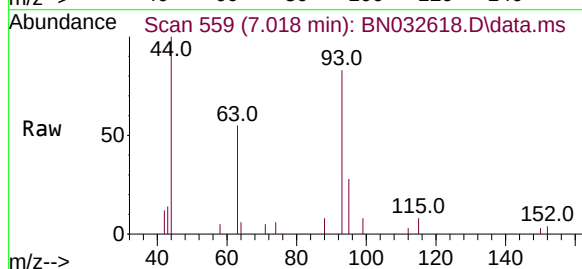
Reviewed By :Yogesh Patel 07/11/2024

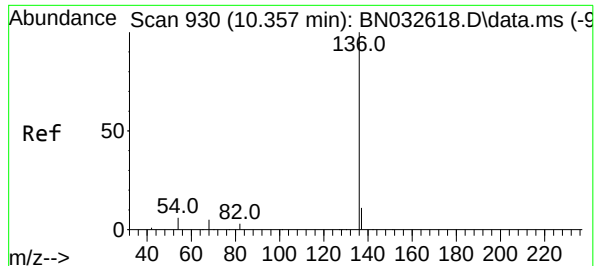
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.018 min Scan# 559
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:	93	Ratio	100	Lower	Upper
93	100				
63	58.0		46.4	69.6	
95	31.9		25.5	38.3	





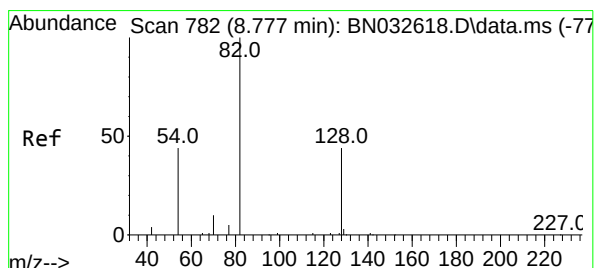
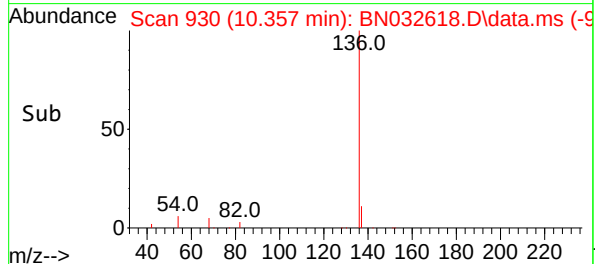
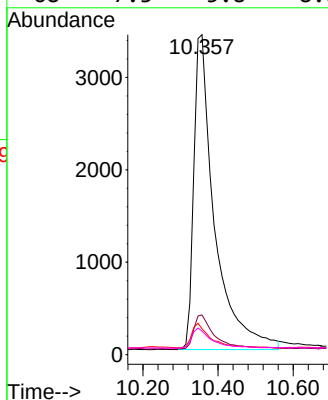
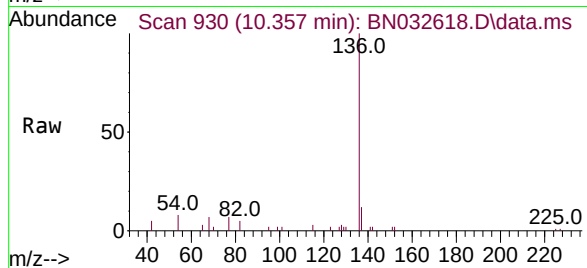
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.9	14.9
54	8.1	6.5	9.7
68	7.3	5.8	8.8

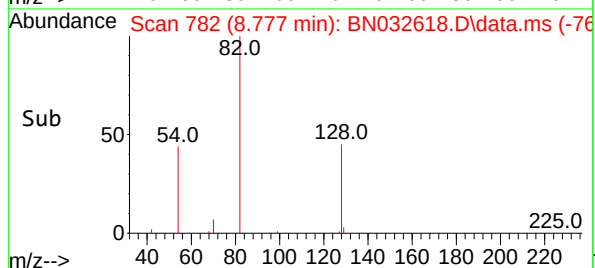
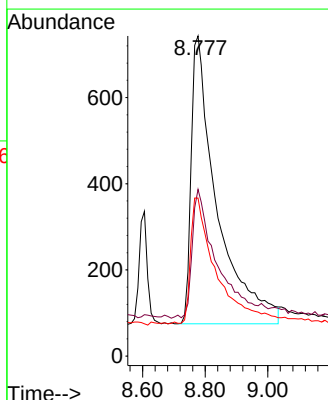
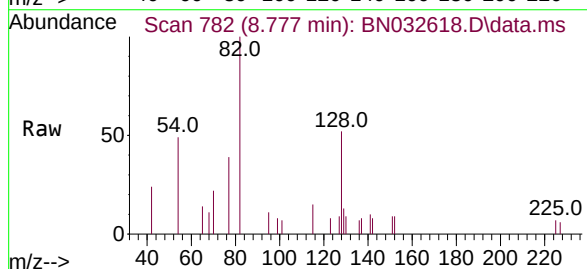
Manual Integrations
APPROVED

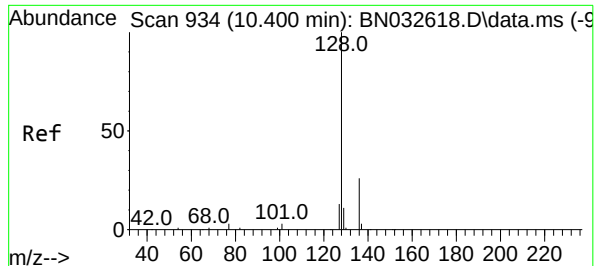
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.777 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion	Ratio	Lower	Upper
82	100		
128	52.1	41.7	62.5
54	49.4	39.5	59.3





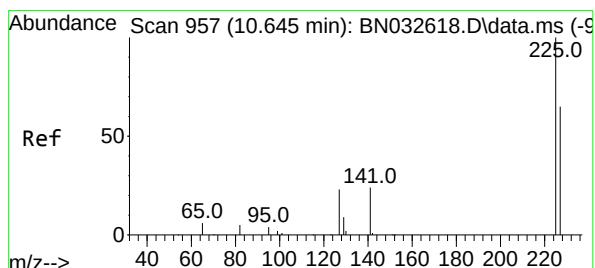
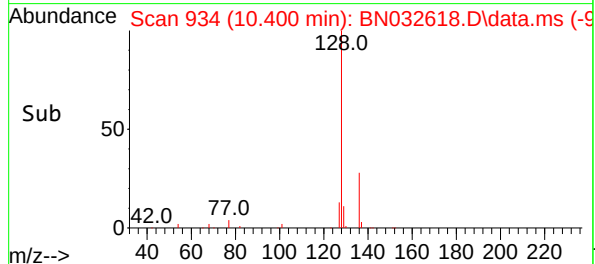
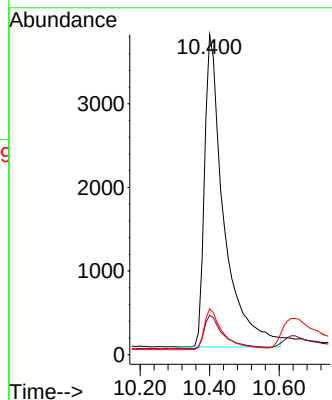
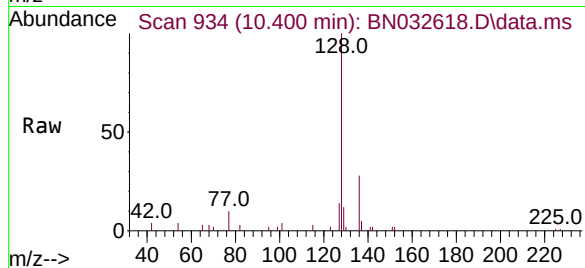
#9
Naphthalene
Concen: 0.398 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 14410
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.8
127 14.4 11.5 17.3

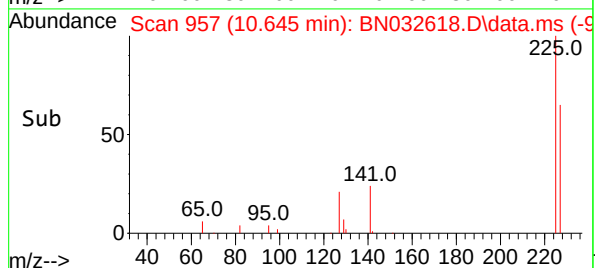
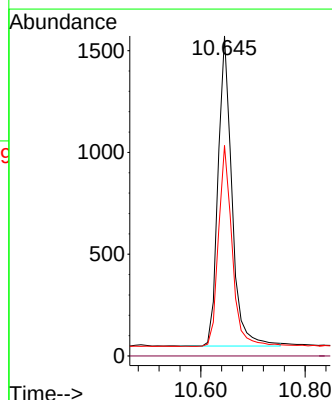
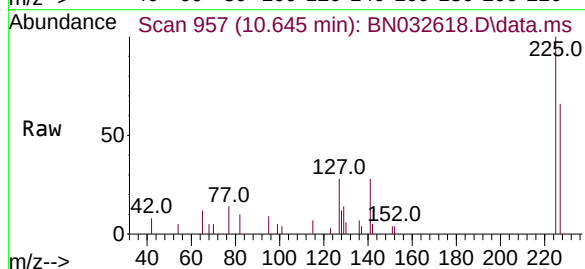
Manual Integrations
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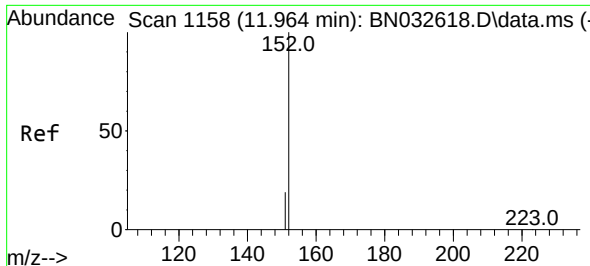
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

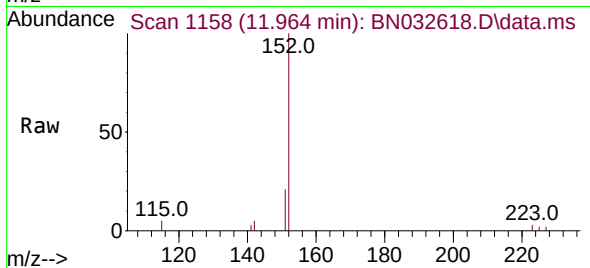
Tgt Ion:225 Resp: 2799
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 11.964 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

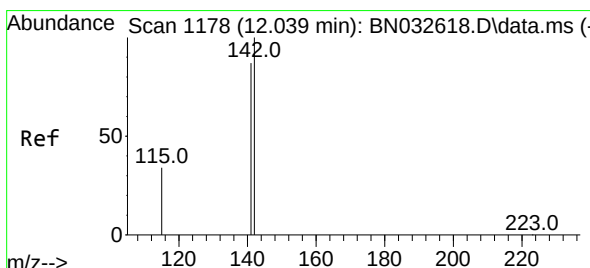
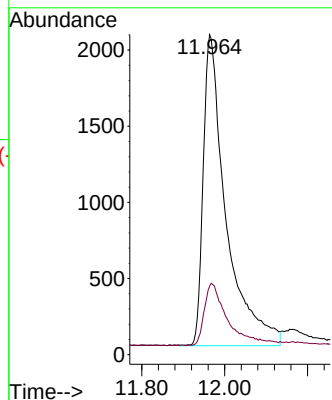
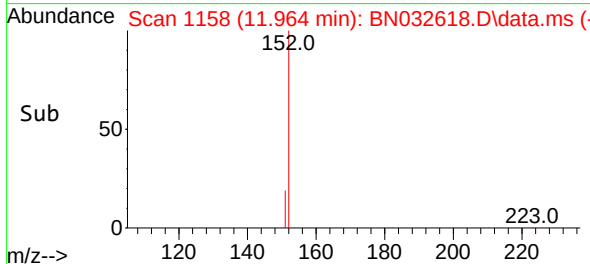
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 780
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2

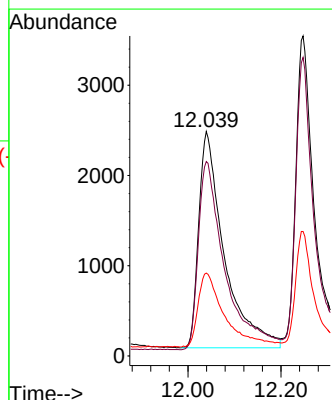
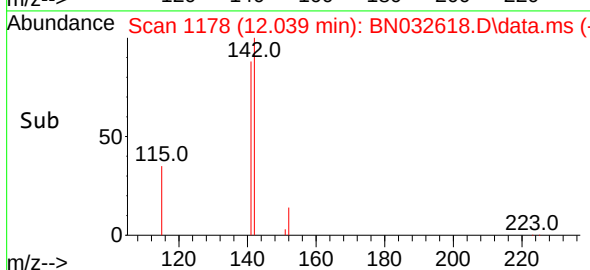
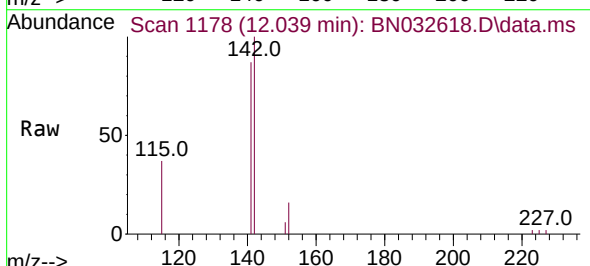
Manual Integrations
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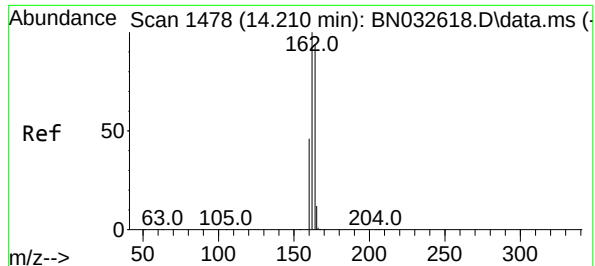
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.039 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

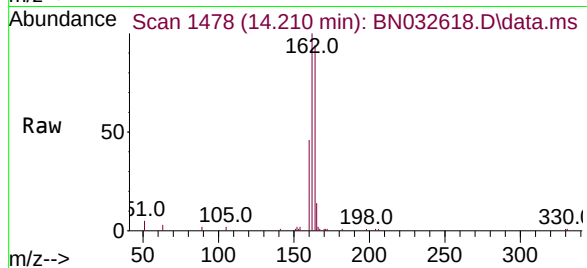
Tgt Ion:142 Resp: 9112
Ion Ratio Lower Upper
142 100
141 86.6 69.3 103.9
115 36.9 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

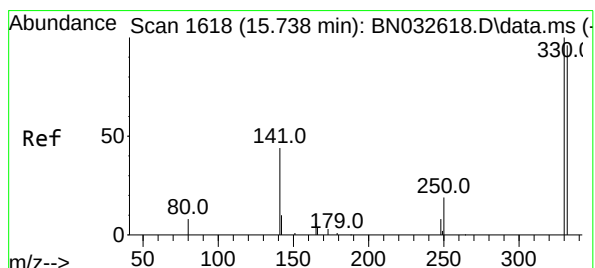
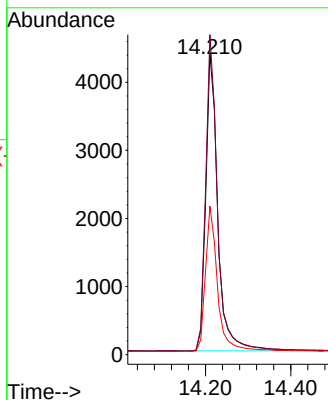
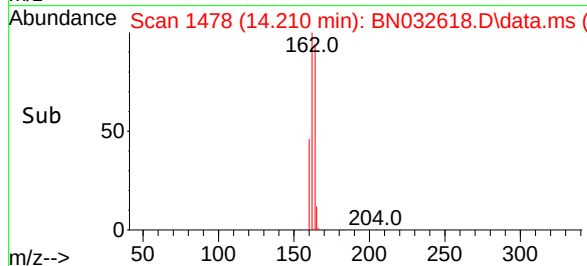
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



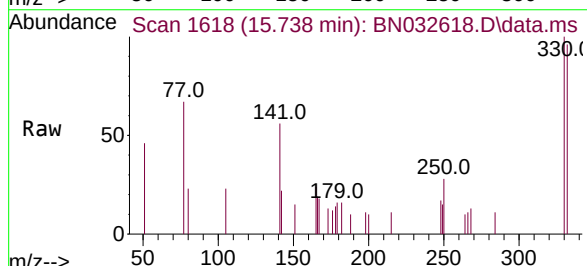
Tgt Ion:164 Resp: 857
Ion Ratio Lower Upper
164 100
162 106.2 85.0 127.4
160 49.3 39.4 59.2

Manual Integrations
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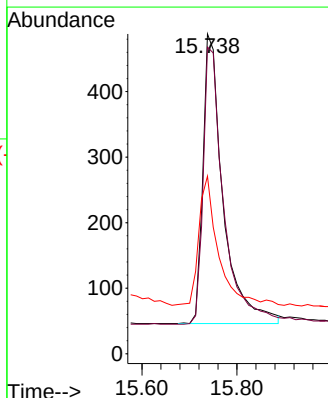
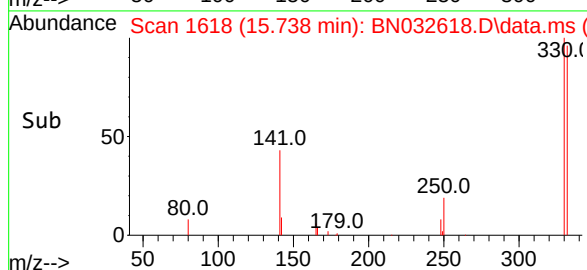
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

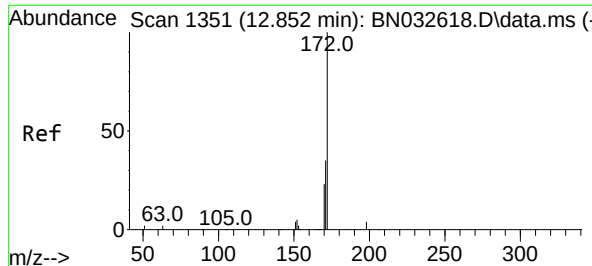


#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.738 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07



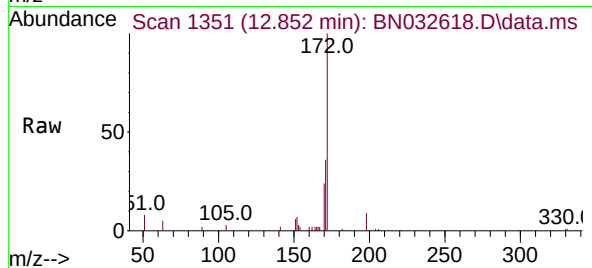
Tgt Ion:330 Resp: 1311
Ion Ratio Lower Upper
330 100
332 97.3 77.8 116.8
141 42.7 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.852 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

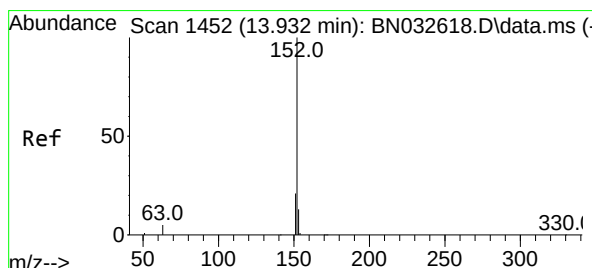
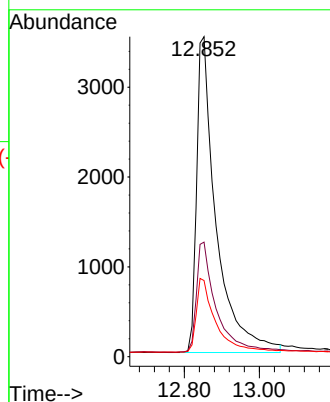
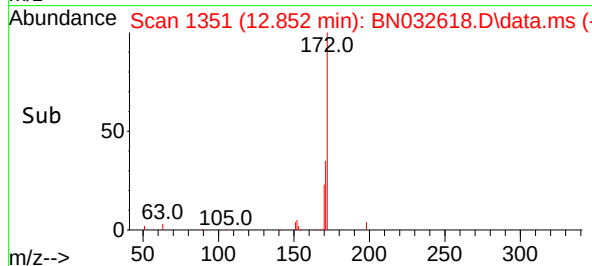
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:172 Resp: 1273
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 23.8 19.0 28.6

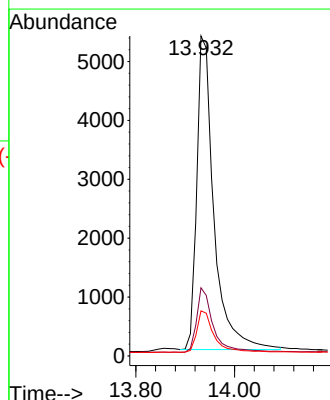
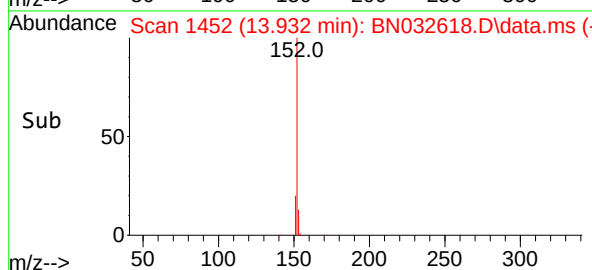
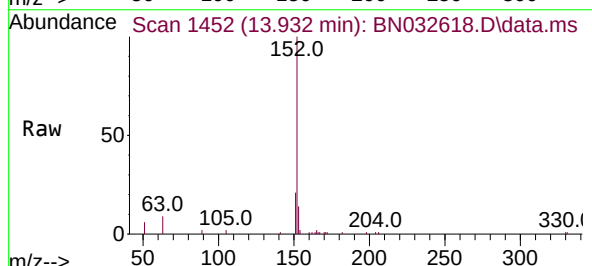
Manual Integrations
APPROVED

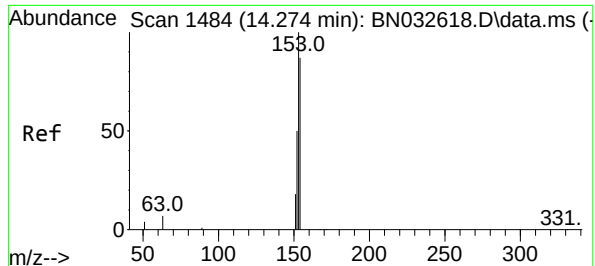
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.368 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

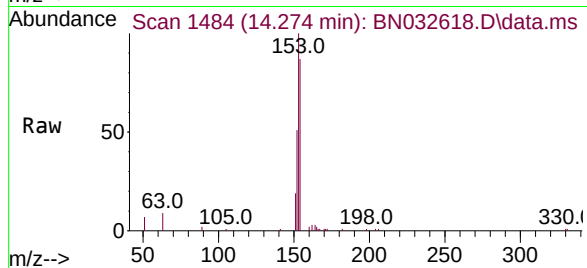
Tgt Ion:152 Resp: 12817
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.2 10.6 15.8





#17
Acenaphthene
Concen: 0.396 ng
RT: 14.274 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

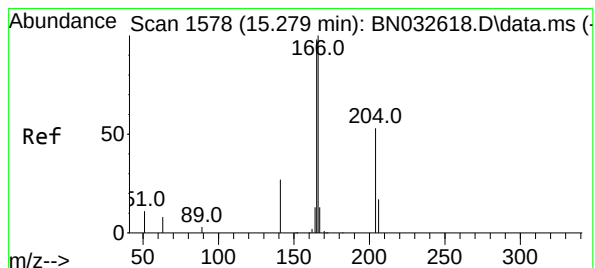
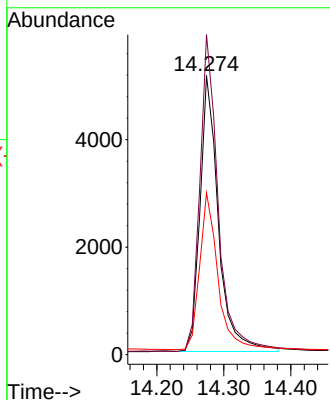
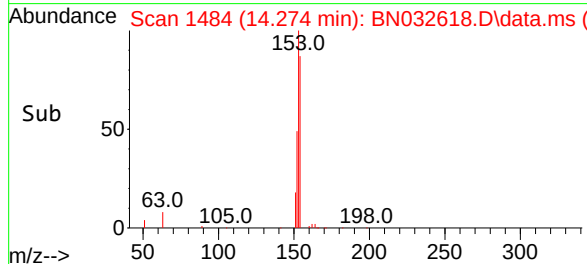
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:154 Resp: 9790
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 56.5 45.2 67.8

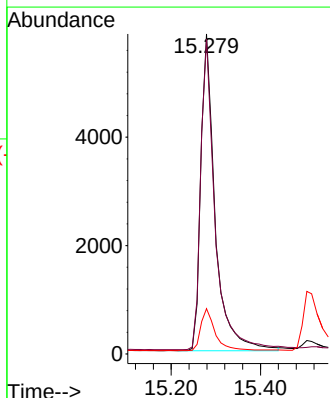
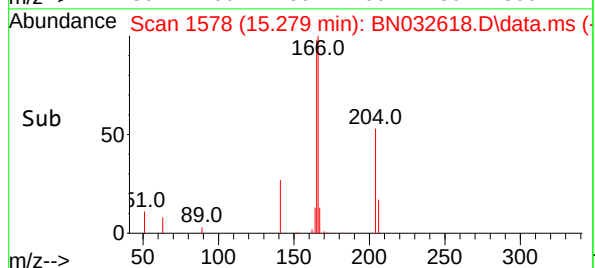
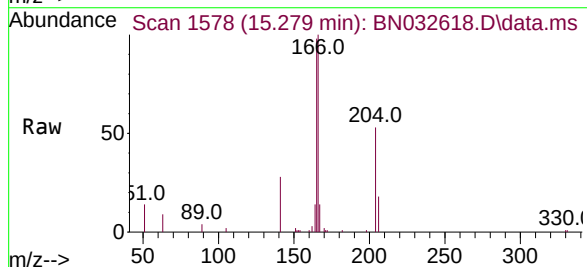
Manual Integrations
APPROVED

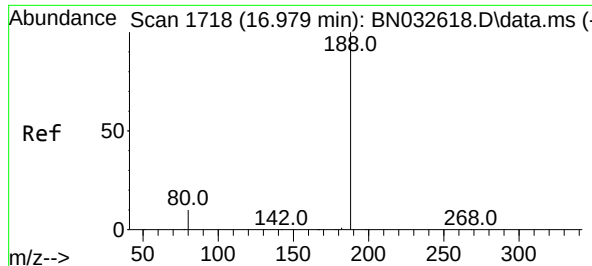
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.395 ng
RT: 15.279 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:166 Resp: 13059
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.979 min Scan# 1718

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

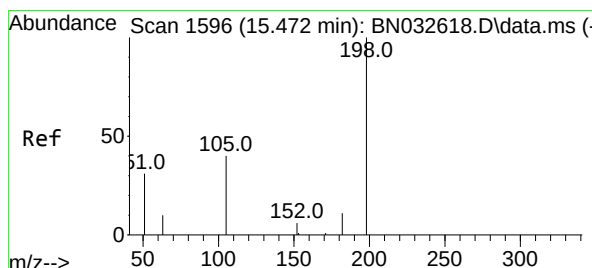
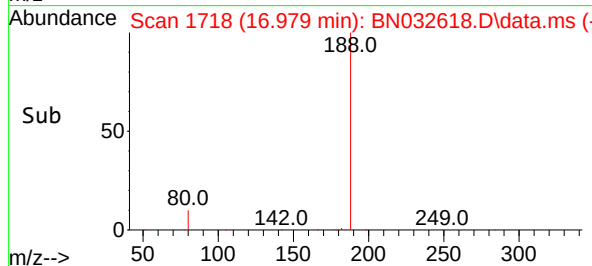
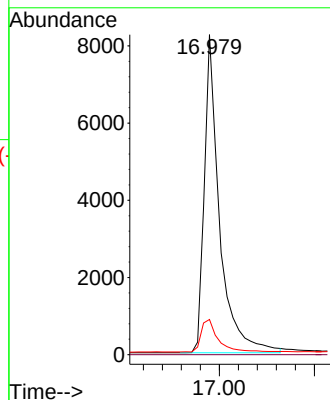
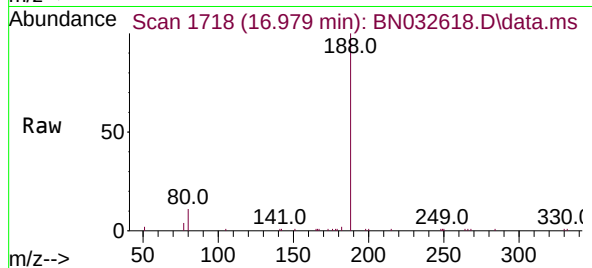
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.8	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.444 ng

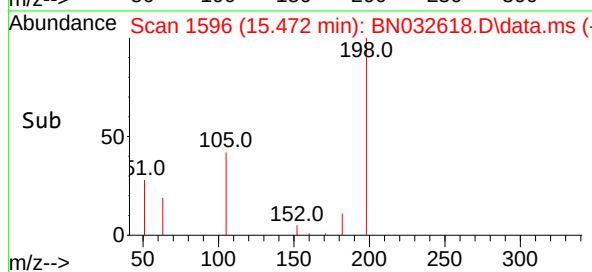
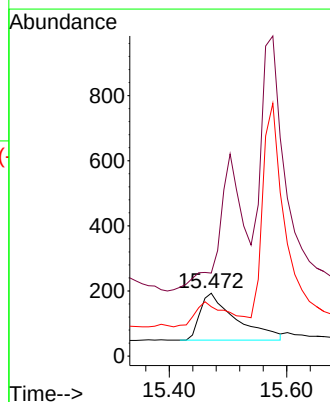
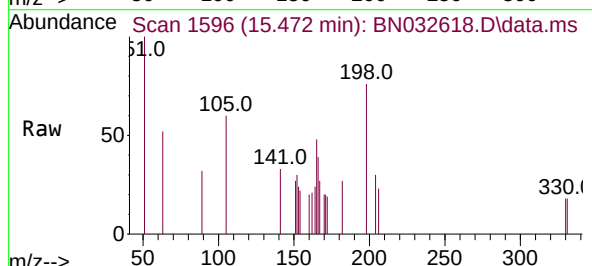
RT: 15.472 min Scan# 1596

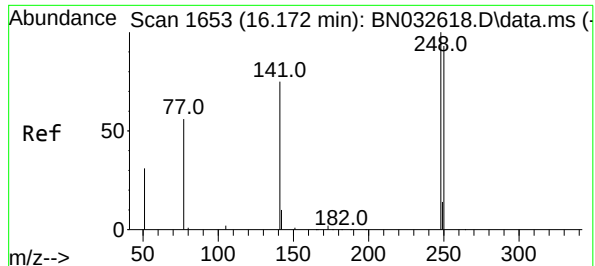
Delta R.T. -0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion	Ratio	Lower	Upper
198	100		
51	132.1	105.7	158.5
105	78.8	63.0	94.6





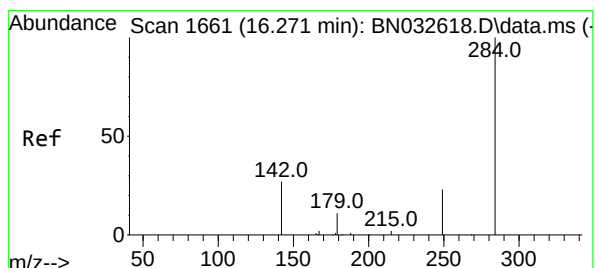
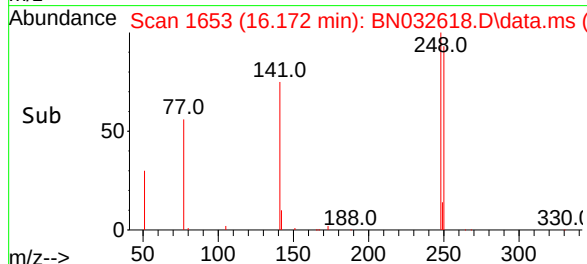
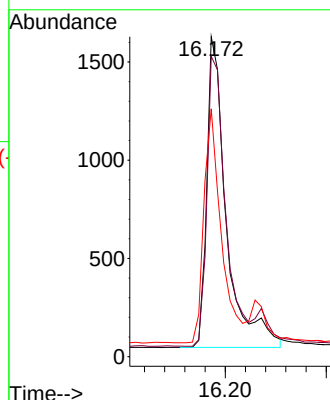
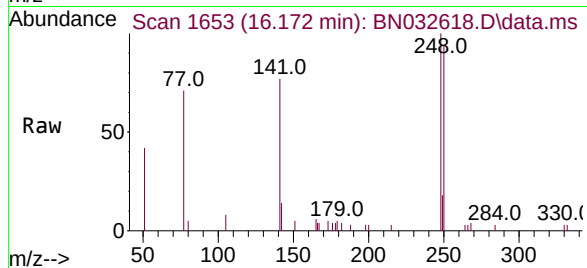
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.172 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 425
Ion Ratio Lower Upper
248 100
250 93.9 75.1 112.7
141 77.5 62.0 93.0

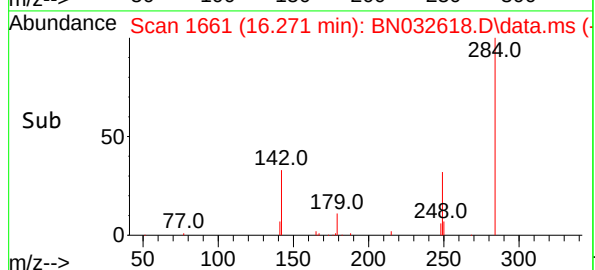
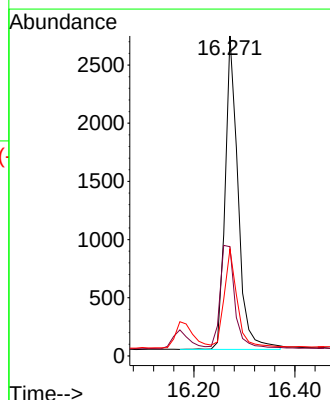
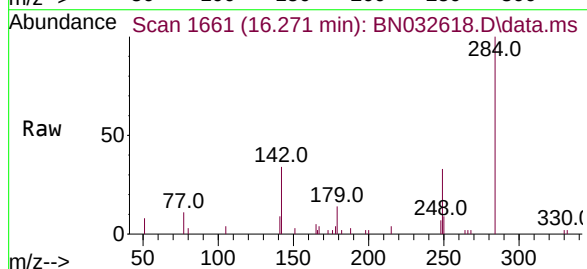
Manual Integrations
APPROVED

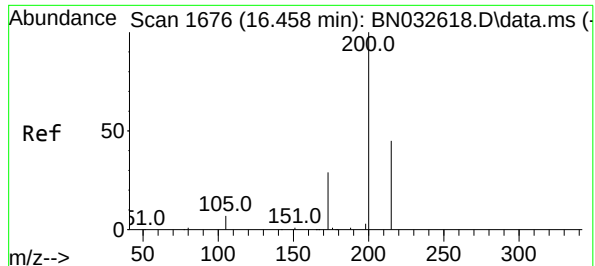
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.271 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:284 Resp: 4764
Ion Ratio Lower Upper
284 100
142 36.7 29.4 44.0
249 30.7 24.6 36.8





#23

Atrazine

Concen: 0.358 ng

RT: 16.458 min Scan# 1676

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

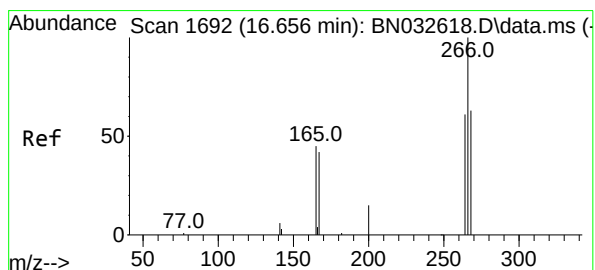
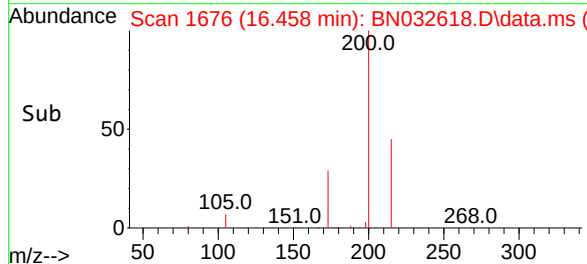
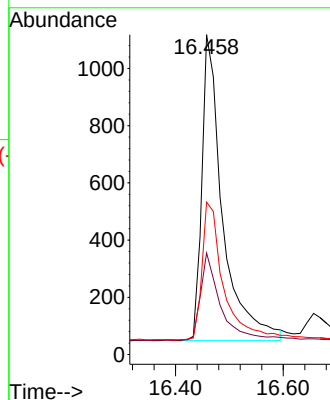
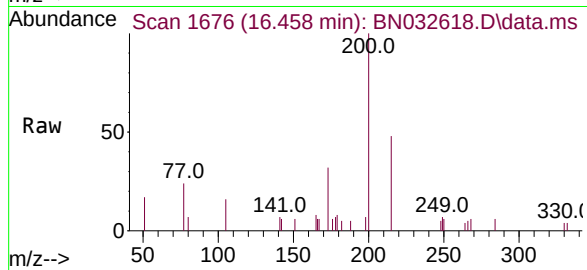
SSTDICCC0.4

Tgt Ion:	200	Resp:	285
Ion Ratio	Lower	Upper	
200	100		
173	31.8	25.4	38.2
215	47.7	38.2	57.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#24

Pentachlorophenol

Concen: 0.332 ng

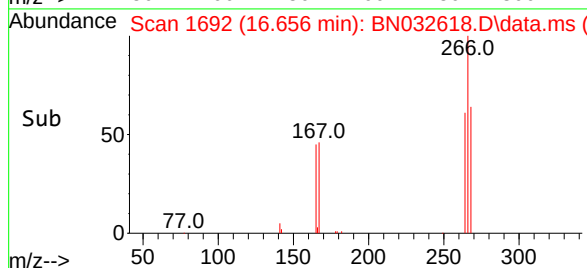
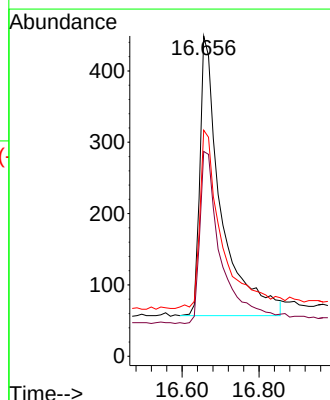
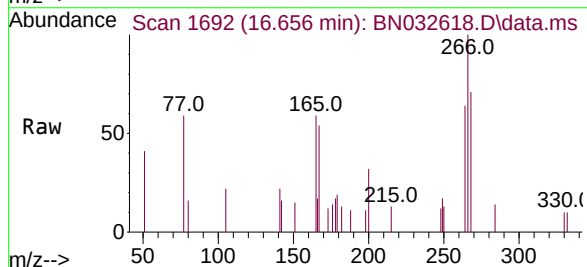
RT: 16.656 min Scan# 1692

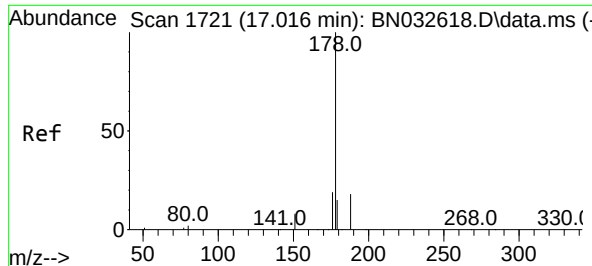
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	266	Resp:	1497
Ion Ratio	Lower	Upper	
266	100		
264	62.6	50.2	75.2
268	66.1	52.8	79.2





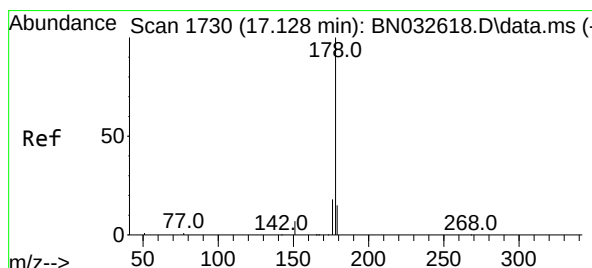
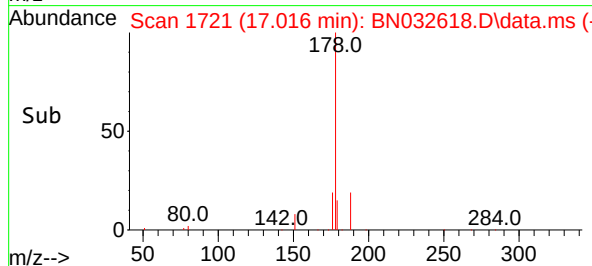
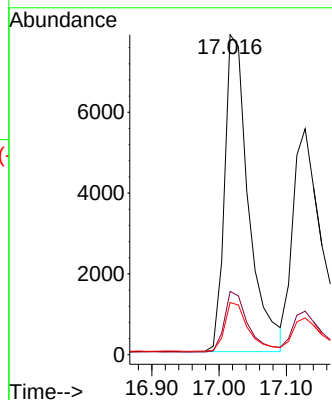
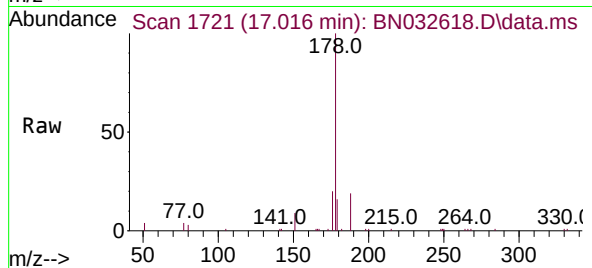
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.016 min Scan# 1721
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 19494
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.3 12.2 18.4

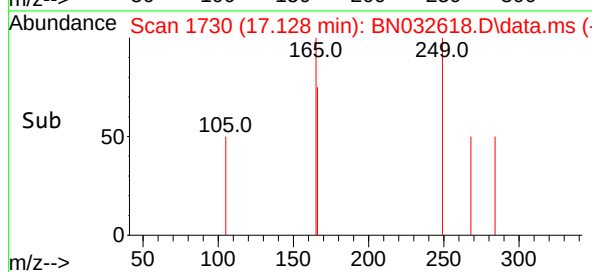
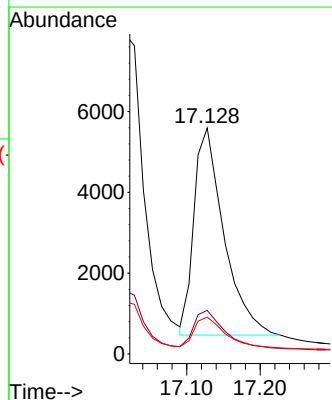
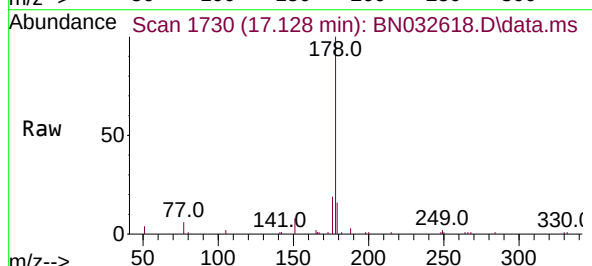
Manual Integrations
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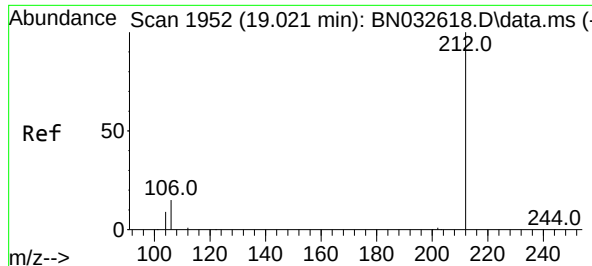
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.351 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:178 Resp: 14546
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.381 ng

RT: 19.021 min Scan# 1952

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

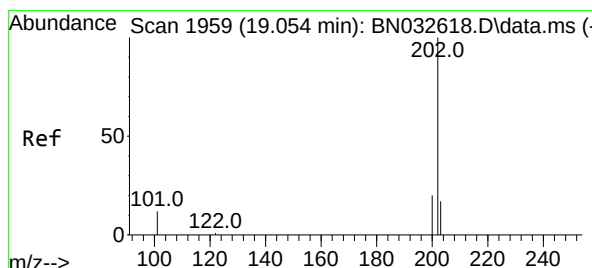
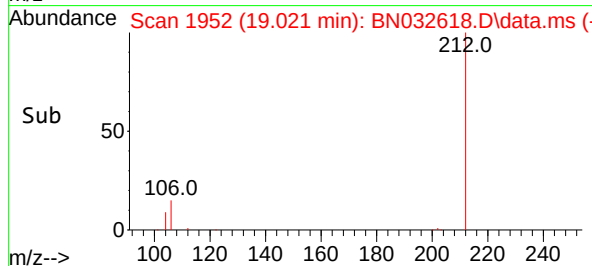
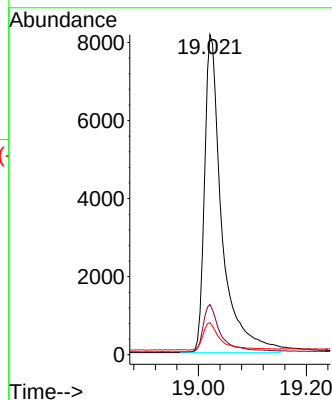
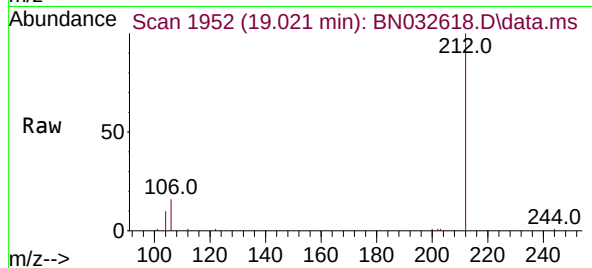
SSTDICCC0.4

Tgt Ion:	212	Resp:	1816
Ion Ratio	Lower	Upper	
212	100		
106	14.9	11.9	17.9
104	8.6	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.378 ng

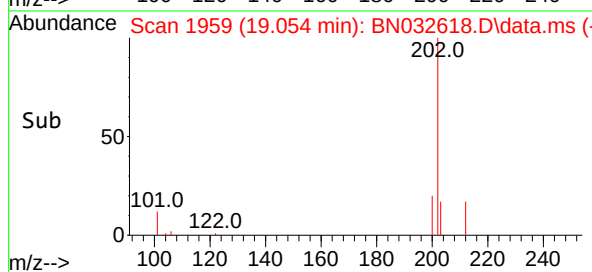
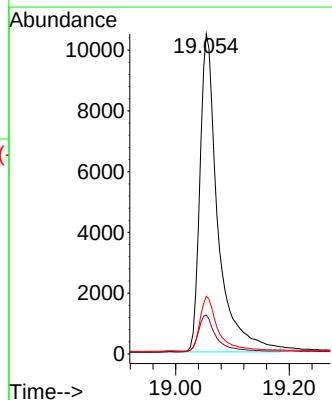
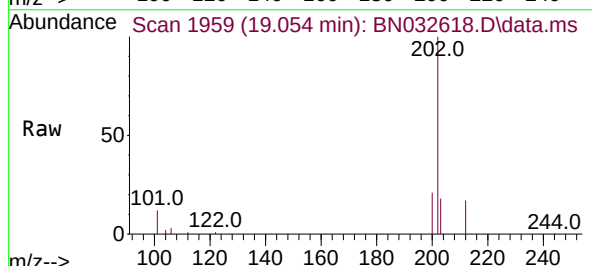
RT: 19.054 min Scan# 1959

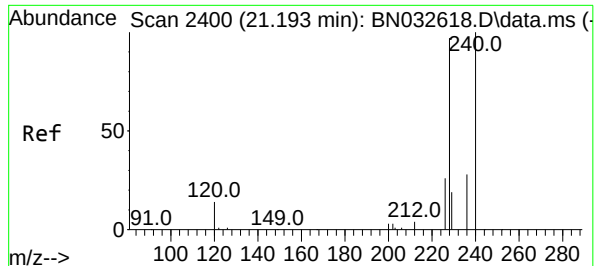
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	202	Resp:	23033
Ion Ratio	Lower	Upper	
202	100		
101	12.0	9.6	14.4
203	17.2	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.193 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

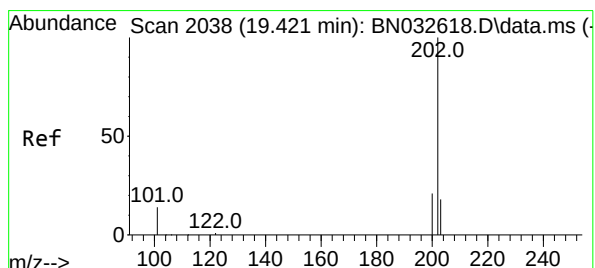
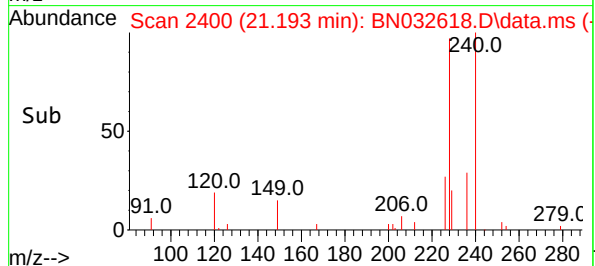
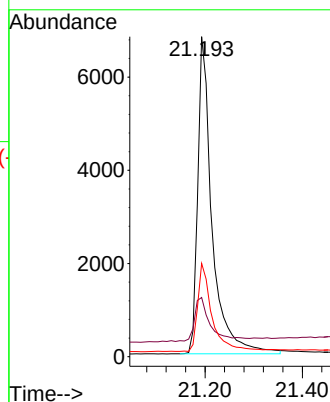
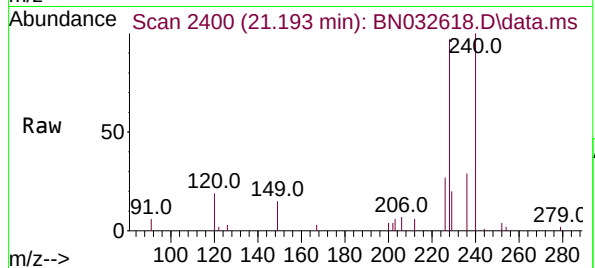
SSTDICCC0.4

Tgt Ion:	240	Resp:	1389
Ion Ratio	Lower	Upper	
240	100		
120	18.5	14.8	22.2
236	29.1	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.414 ng

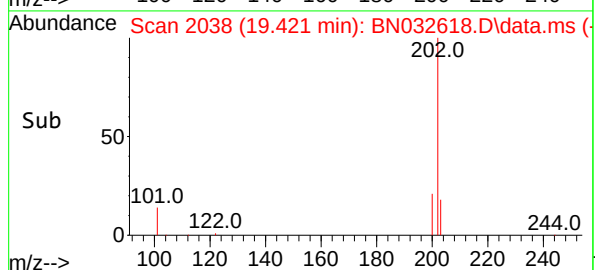
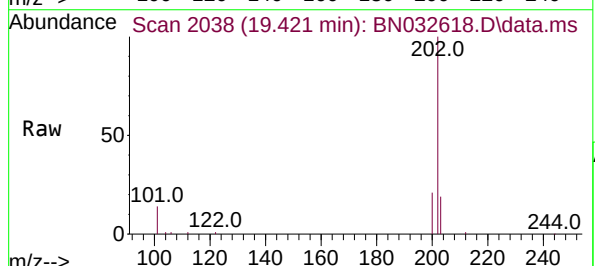
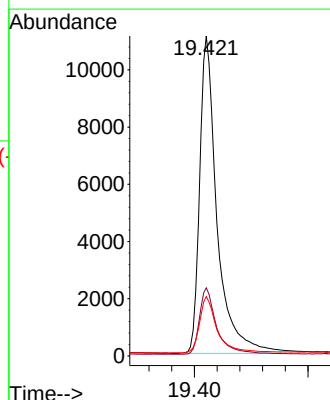
RT: 19.421 min Scan# 2038

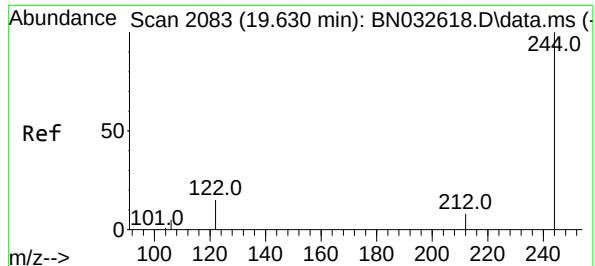
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	202	Resp:	23516
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	18.4	14.8	22.2





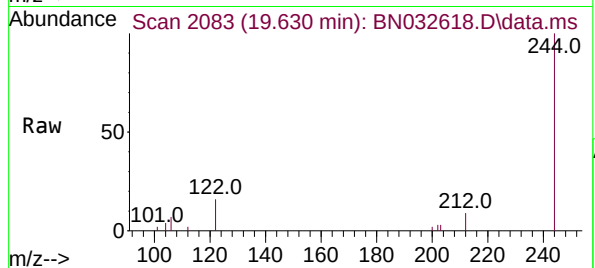
#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.630 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

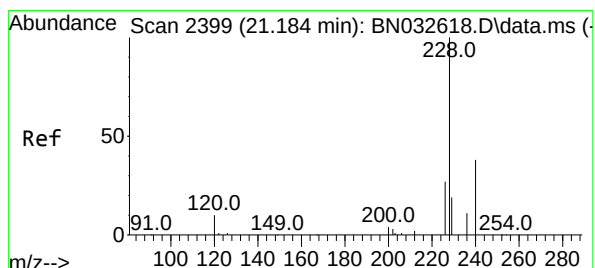
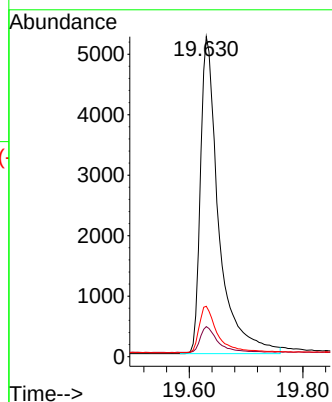
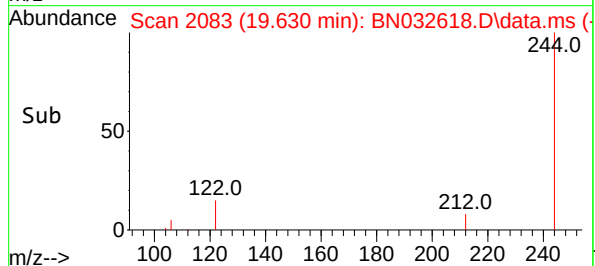
SSTDICCC0.4



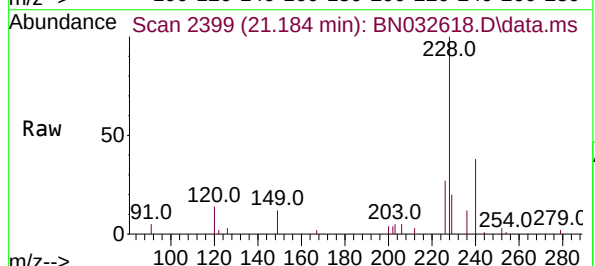
Tgt Ion:244 Resp: 1176
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 15.8 12.6 19.0

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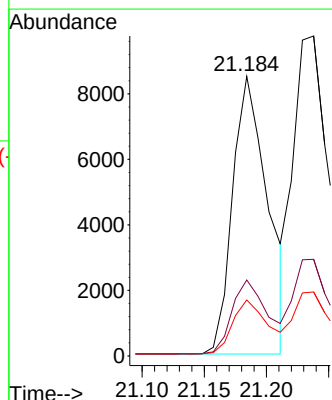
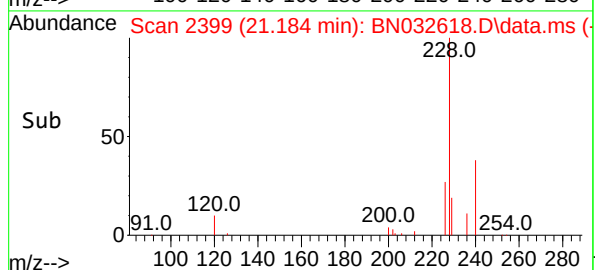
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

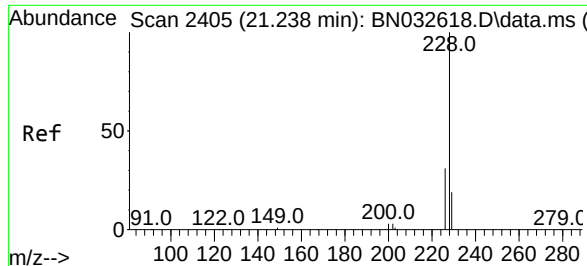


#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.184 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07



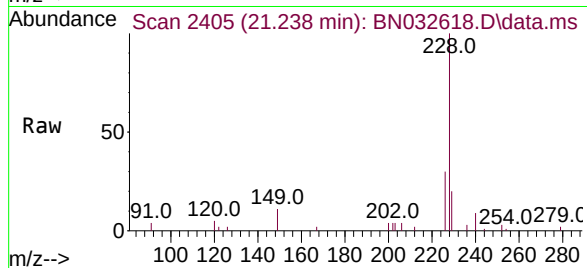
Tgt Ion:228 Resp: 16645
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.6
229 20.0 16.0 24.0





#33
Chrysene
Concen: 0.412 ng
RT: 21.238 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

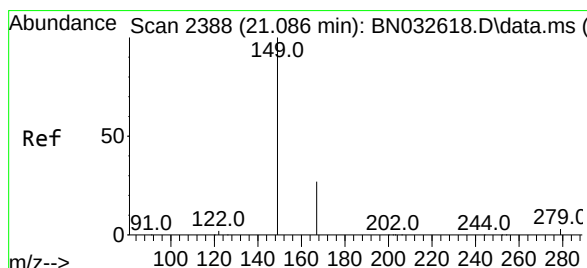
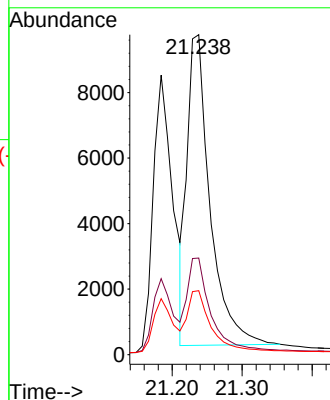
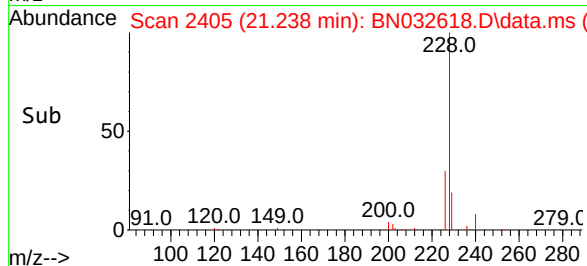
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 228 Resp: 2152
Ion Ratio Lower Upper
228 100
226 30.2 24.2 36.2
229 20.0 16.0 24.0

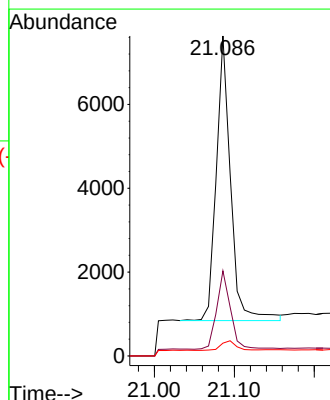
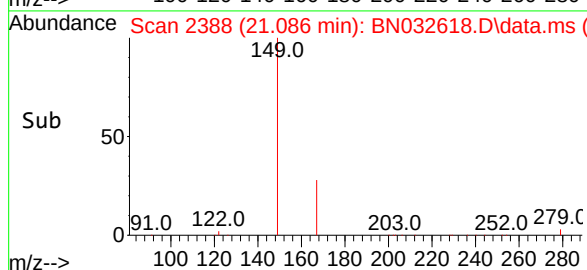
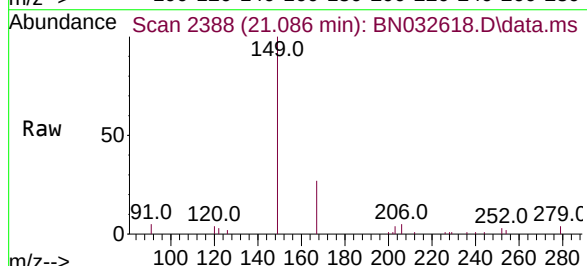
Manual Integrations
APPROVED

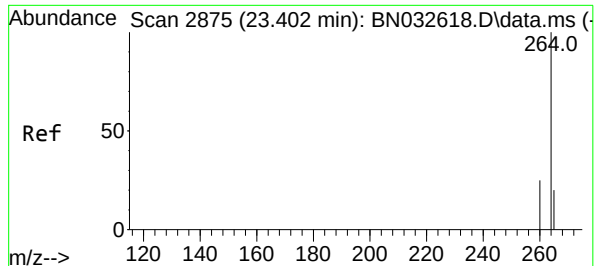
Reviewed By : Yogesh Patel 07/11/2024
Supervised By : mohammad ahmed 07/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.345 ng
RT: 21.086 min Scan# 2388
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

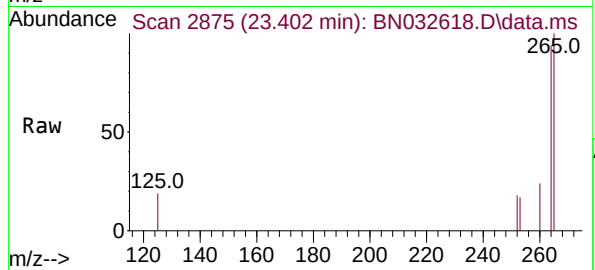
Tgt Ion: 149 Resp: 8395
Ion Ratio Lower Upper
149 100
167 26.8 21.4 32.2
279 3.5 2.8 4.2





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.402 min Scan# 2875
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

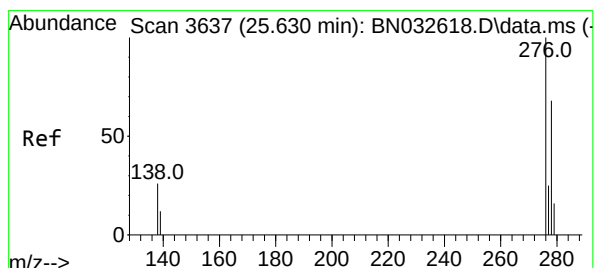
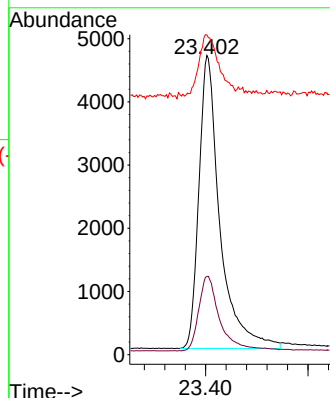
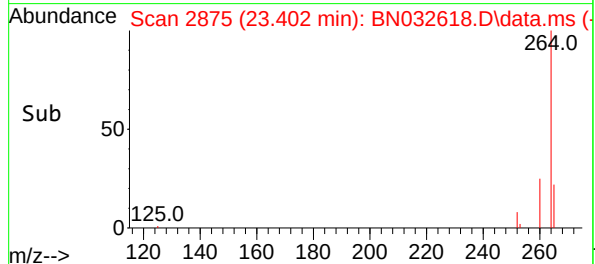
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:264 Resp: 13224
Ion Ratio Lower Upper
264 100
260 26.1 20.9 31.3
265 106.8 85.4 128.2

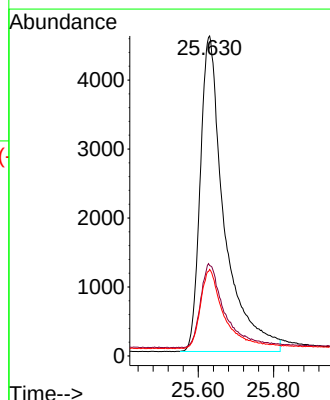
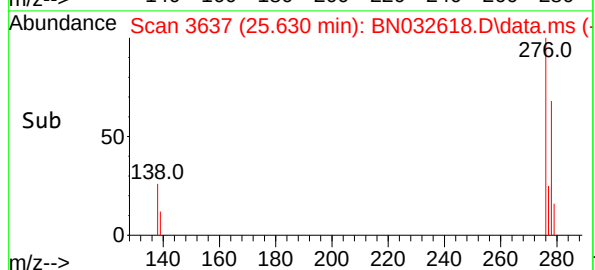
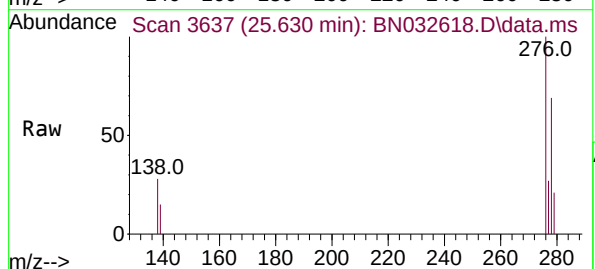
Manual Integrations
APPROVED

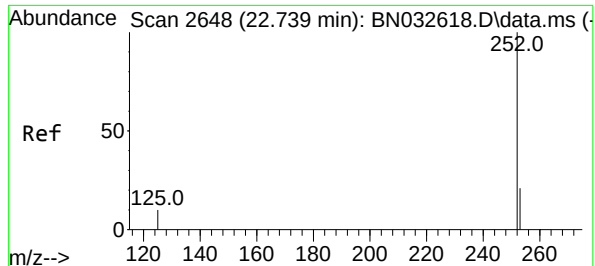
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.630 min Scan# 3637
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:276 Resp: 20282
Ion Ratio Lower Upper
276 100
138 26.4 21.0 31.4
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.739 min Scan# 2648

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

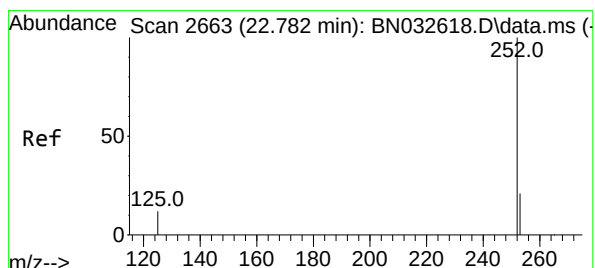
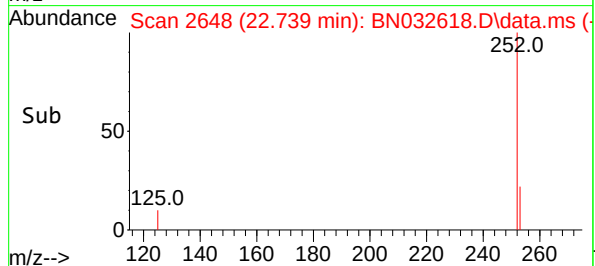
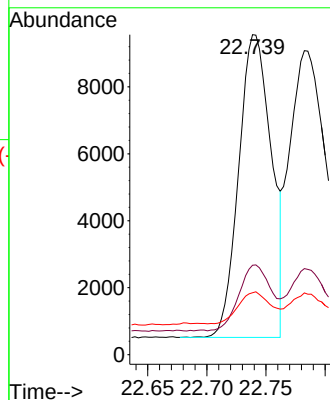
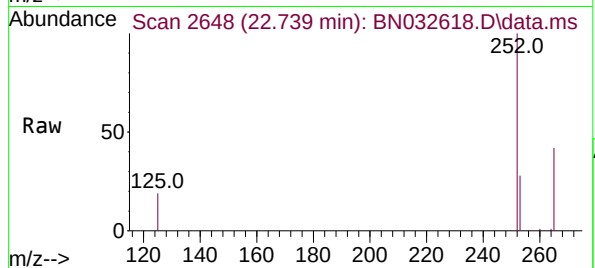
Tgt Ion:	252	Resp:	17364
Ion Ratio	Lower	Upper	
252	100		
253	27.9	22.3	33.5
125	19.3	15.4	23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.393 ng m

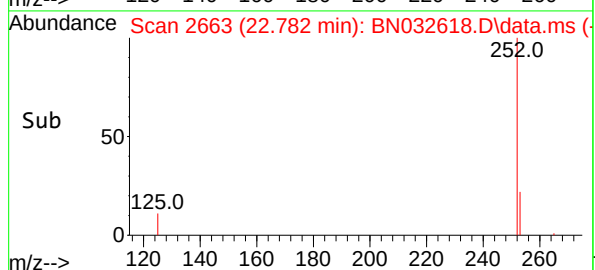
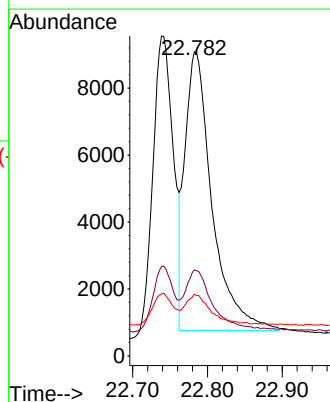
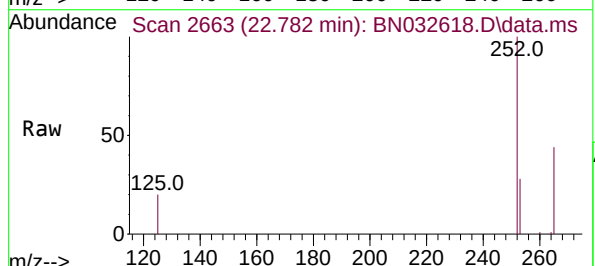
RT: 22.782 min Scan# 2663

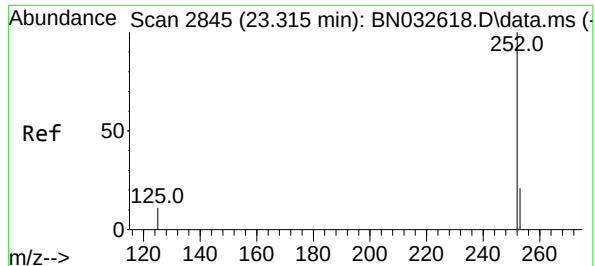
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	252	Resp:	20987
Ion Ratio	Lower	Upper	
252	100		
253	28.3	22.6	34.0
125	20.3	16.2	24.4





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

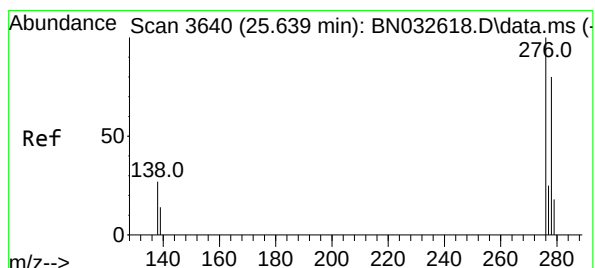
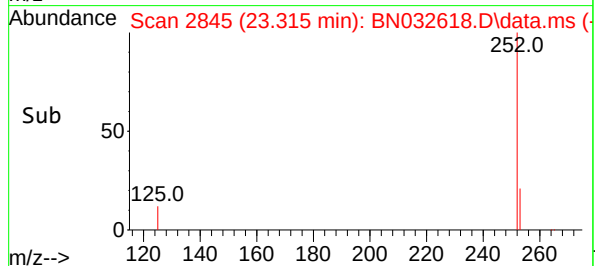
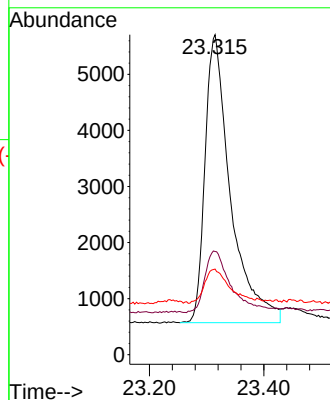
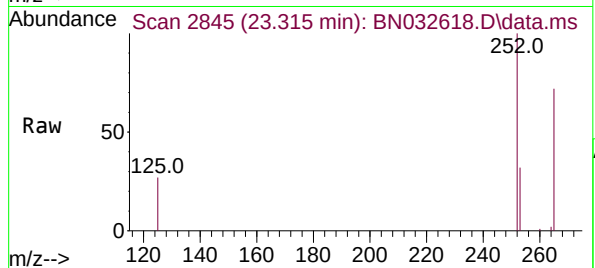
SSTDICCC0.4

Tgt Ion:	252	Resp:	1590
Ion Ratio	Lower	Upper	
252	100		
253	32.3	25.8	38.8
125	26.8	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

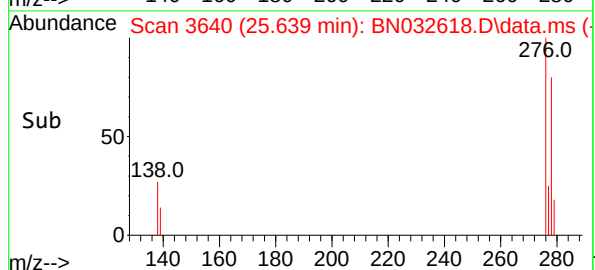
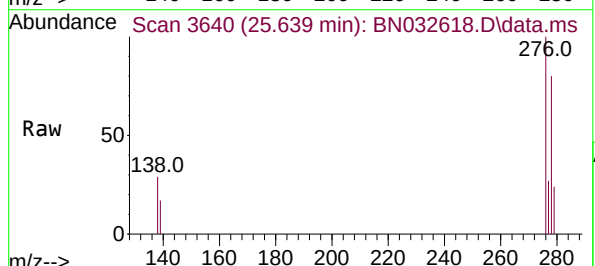
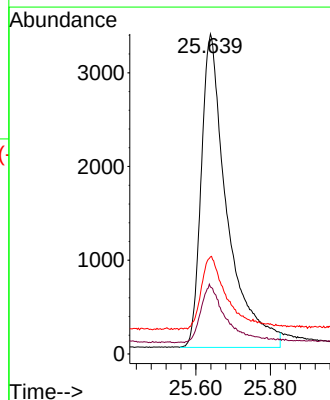
RT: 25.639 min Scan# 3640

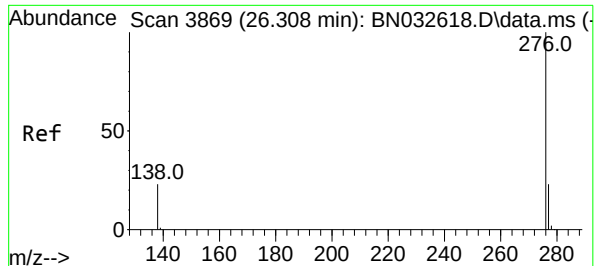
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	278	Resp:	16066
Ion Ratio	Lower	Upper	
278	100		
139	20.9	16.7	25.1
279	30.4	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.400 ng

RT: 26.308 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN032618.D

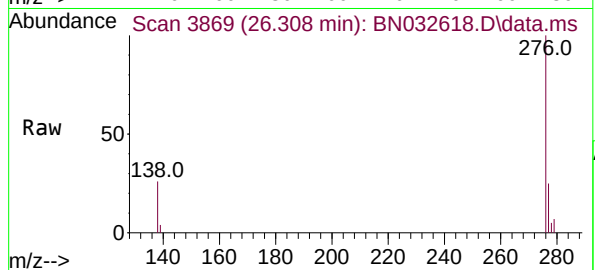
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 18220

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

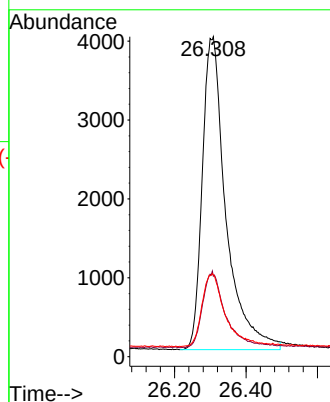
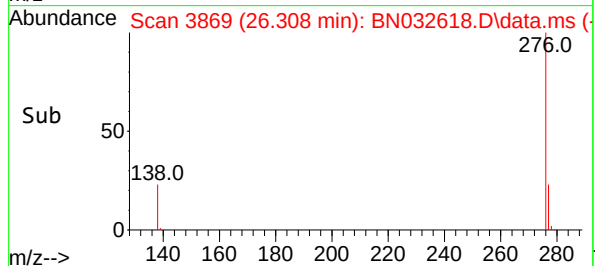
138 25.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032619.D
 Acq On : 10 Jul 2024 17:43
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:40:20 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4635	0.400	ng	0.00
7) Naphthalene-d8	10.346	136	14500	0.400	ng	-0.01
13) Acenaphthene-d10	14.210	164	9475	0.400	ng	0.00
19) Phenanthrene-d10	16.966	188	19967	0.400	ng	#-0.01
29) Chrysene-d12	21.184	240	16320	0.400	ng	0.00
35) Perylene-d12	23.396	264	15017	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	9673	0.825	ng	0.00
5) Phenol-d6	6.779	99	12023	0.826	ng	-0.01
8) Nitrobenzene-d5	8.745	82	9600	0.879	ng	-0.03
11) 2-Methylnaphthalene-d10	11.945	152	19054	0.859	ng	-0.02
14) 2,4,6-Tribromophenol	15.725	330	3306	0.816	ng	-0.01
15) 2-Fluorobiphenyl	12.831	172	30471	0.864	ng	-0.02
27) Fluoranthene-d10	19.017	212	43978	0.851	ng	0.00
31) Terphenyl-d14	19.621	244	28910	0.864	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.139	88	4771	0.831	ng	96
3) n-Nitrosodimethylamine	3.464	42	4090	0.843	ng	# 99
6) bis(2-Chloroethyl)ether	7.018	93	11666	0.959	ng	100
9) Naphthalene	10.389	128	34029	0.847	ng	97
10) Hexachlorobutadiene	10.645	225	6444	0.840	ng	# 100
12) 2-Methylnaphthalene	12.020	142	22729	0.866	ng	98
16) Acenaphthylene	13.932	152	32507	0.843	ng	99
17) Acenaphthene	14.274	154	23704	0.868	ng	100
18) Fluorene	15.268	166	31718	0.869	ng	100
20) 4,6-Dinitro-2-methylph...	15.429	198	2104	0.776	ng	# 59
21) 4-Bromophenyl-phenylether	16.172	248	9798	0.835	ng	# 82
22) Hexachlorobenzene	16.271	284	11066	0.842	ng	99
23) Atrazine	16.458	200	7258	0.840	ng	# 93
24) Pentachlorophenol	16.644	266	3701	0.758	ng	99
25) Phenanthrene	17.016	178	47797	0.876	ng	100
26) Anthracene	17.115	178	38441	0.856	ng	100
28) Fluoranthene	19.044	202	56641	0.858	ng	100
30) Pyrene	19.411	202	57854	0.868	ng	99
32) Benzo(a)anthracene	21.175	228	44118	0.855	ng	99
33) Chrysene	21.220	228	52128	0.850	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	22699	0.795	ng	100
36) Indeno(1,2,3-cd)pyrene	25.610	276	50286	0.850	ng	99
37) Benzo(b)fluoranthene	22.730	252	46371	0.887	ng	# 91
38) Benzo(k)fluoranthene	22.774	252	53162m	0.877	ng	
39) Benzo(a)pyrene	23.300	252	40915	0.867	ng	# 86
40) Dibenzo(a,h)anthracene	25.618	278	39748	0.850	ng	94
41) Benzo(g,h,i)perylene	26.291	276	43816	0.846	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032619.D
Acq On : 10 Jul 2024 17:43
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

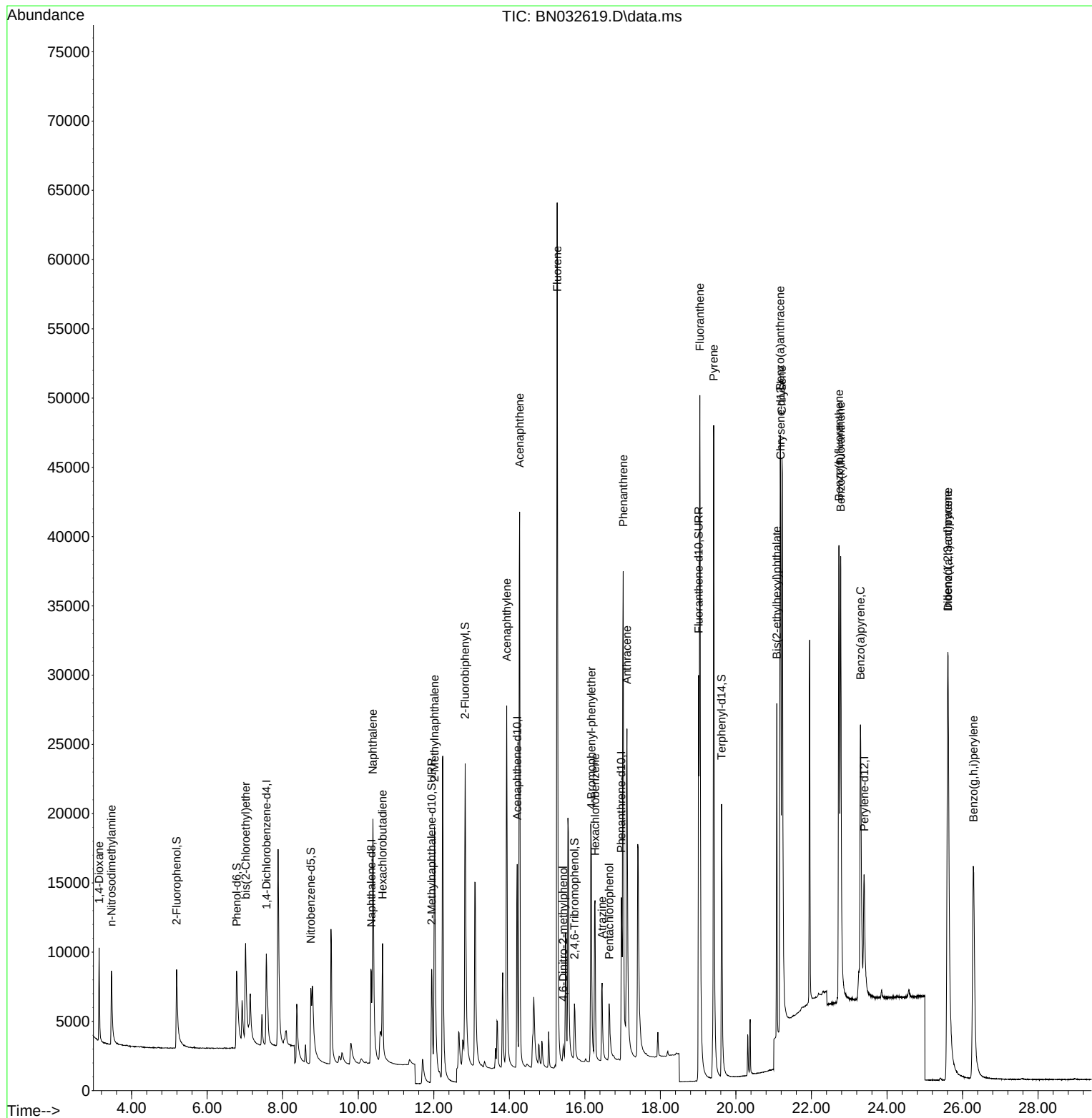
Manual Integrations

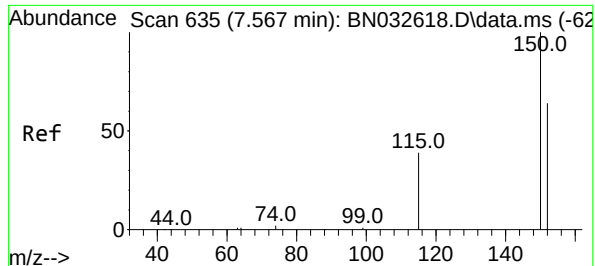
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

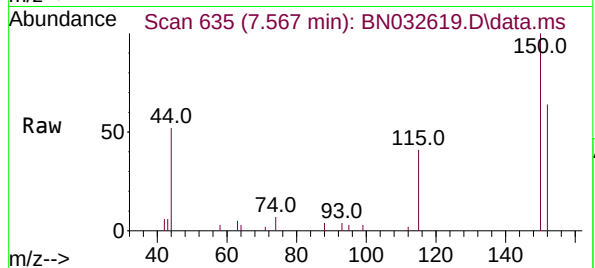
Quant Time: Jul 10 23:40:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

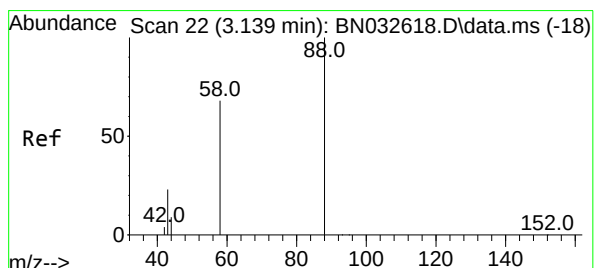
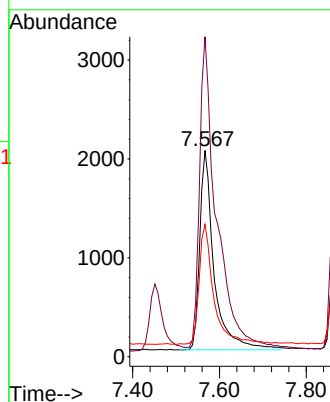
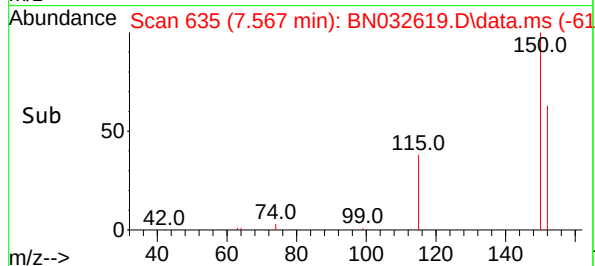
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 463
Ion Ratio Lower Upper
152 100
150 155.2 123.8 185.6
115 64.2 52.8 79.2

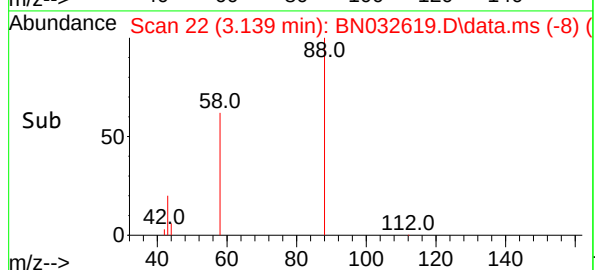
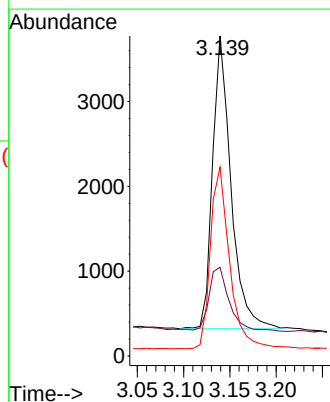
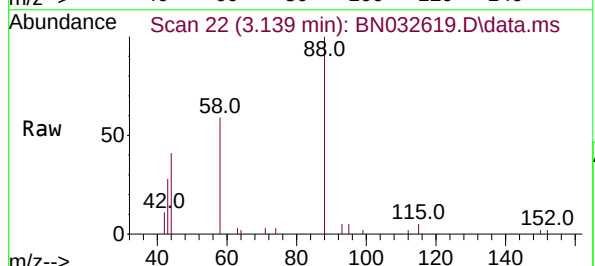
Manual Integrations
APPROVED

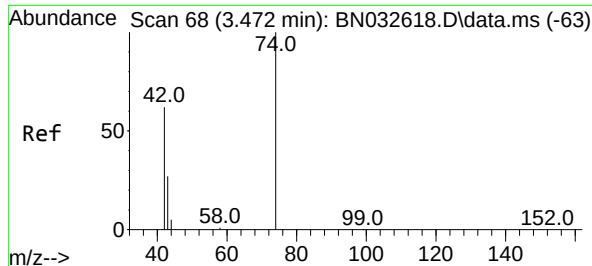
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.831 ng
RT: 3.139 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion: 88 Resp: 4771
Ion Ratio Lower Upper
88 100
43 24.2 18.4 27.6
58 64.9 49.2 73.8





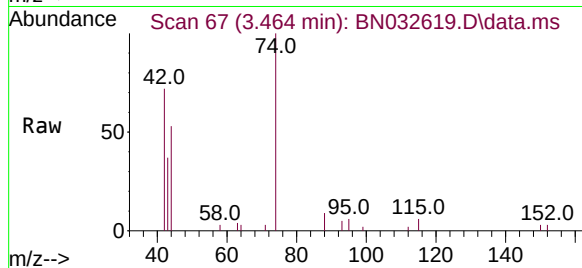
#3
n-Nitrosodimethylamine
Concen: 0.843 ng
RT: 3.464 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

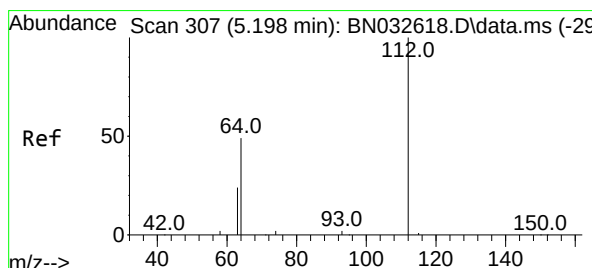
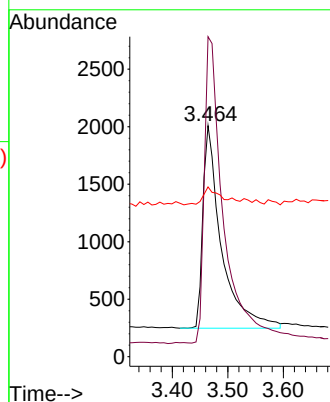
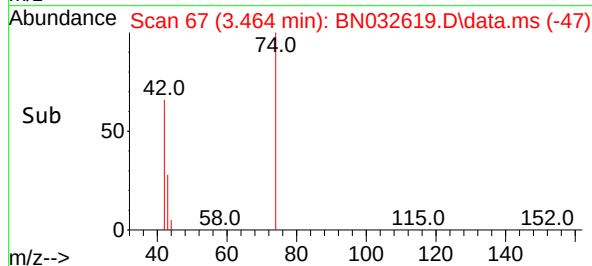


Tgt Ion: 42 Resp: 4090
Ion Ratio Lower Upper
42 100
74 158.0 126.9 190.3
44 7.6 4.8 7.2

Manual Integrations
APPROVED

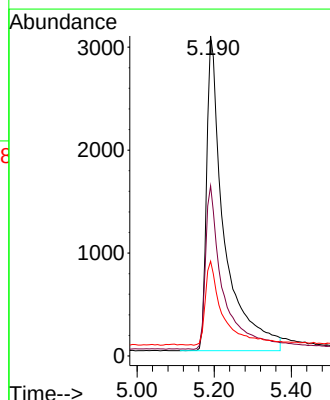
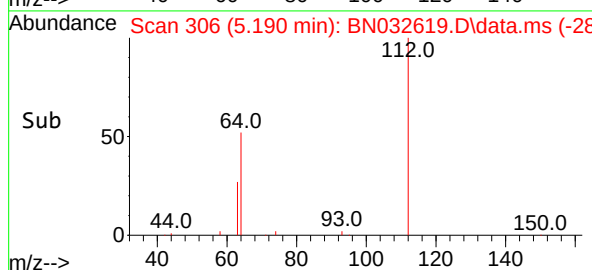
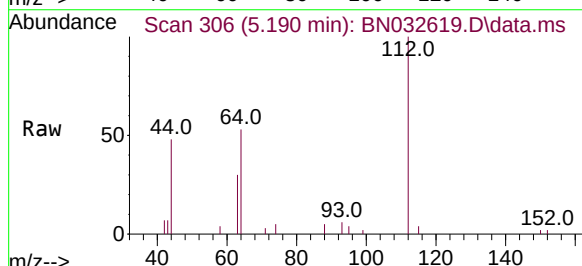
Reviewed By :Yogesh Patel 07/11/2024

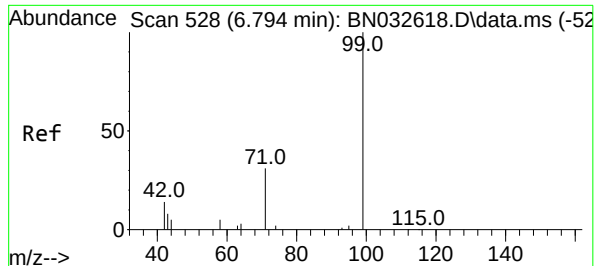
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.825 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:112 Resp: 9673
Ion Ratio Lower Upper
112 100
64 51.6 40.2 60.4
63 26.4 22.2 33.4





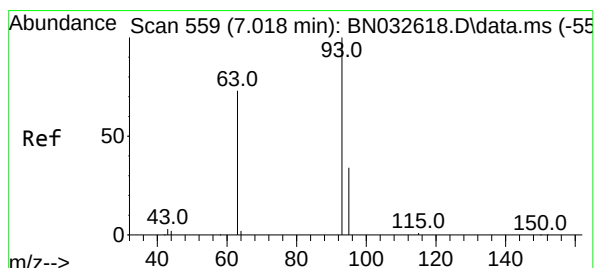
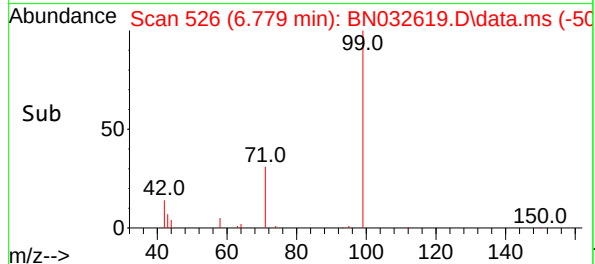
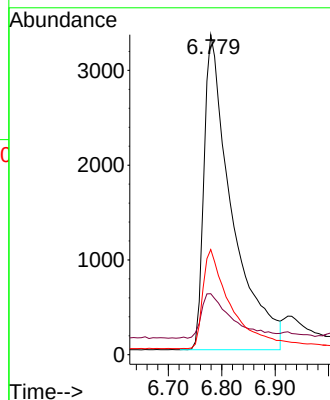
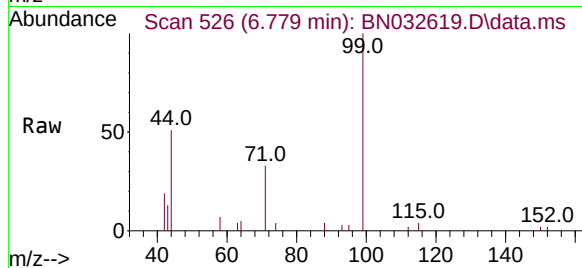
#5
Phenol-d6
Concen: 0.826 ng
RT: 6.779 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 1202
Ion Ratio Lower Upper
99 100
42 15.5 10.5 15.7
71 34.2 22.3 33.5

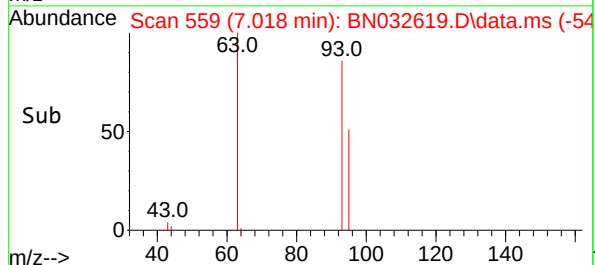
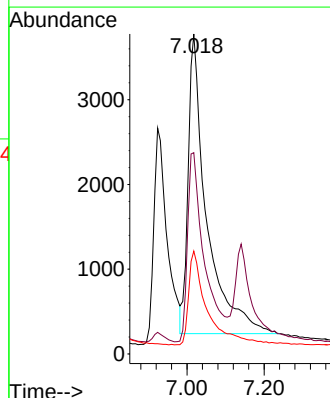
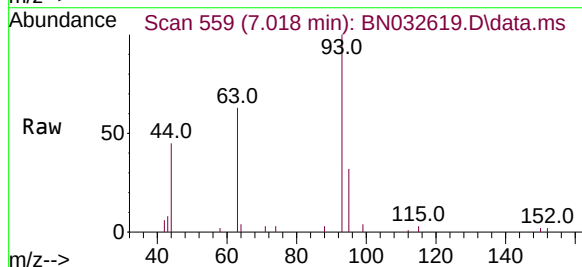
Manual Integrations
APPROVED

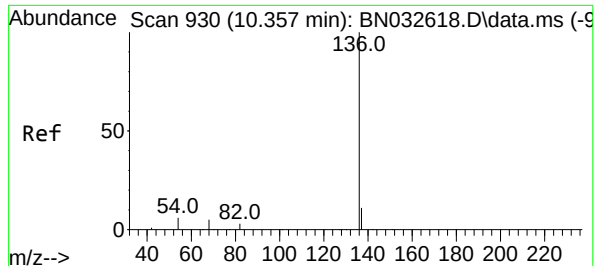
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.959 ng
RT: 7.018 min Scan# 559
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion: 93 Resp: 11666
Ion Ratio Lower Upper
93 100
63 57.8 46.4 69.6
95 31.8 25.5 38.3





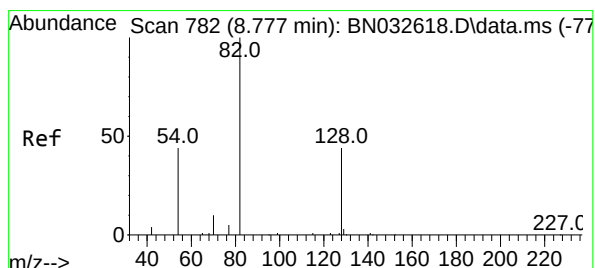
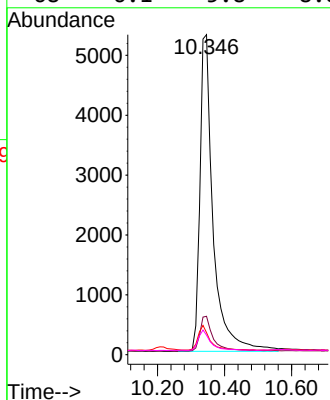
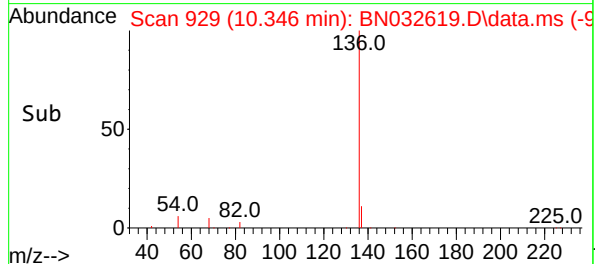
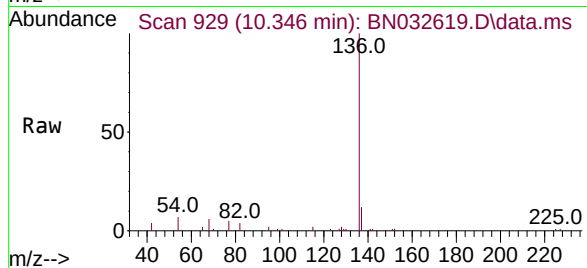
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.346 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.9	14.9
54	6.9	6.5	9.7
68	6.1	5.8	8.8

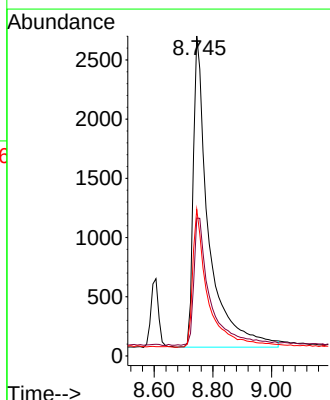
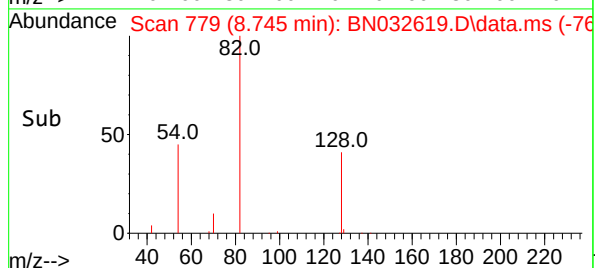
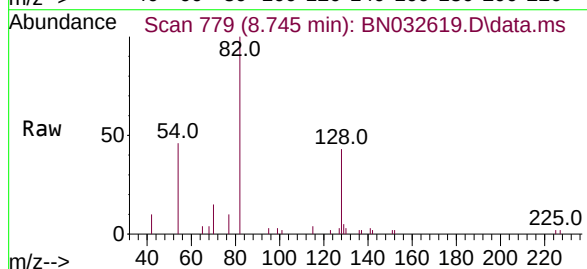
Manual Integrations
APPROVED

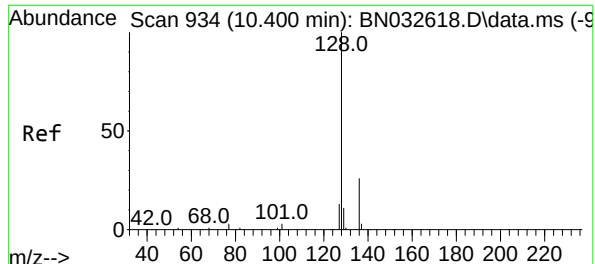
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.879 ng
RT: 8.745 min Scan# 779
Delta R.T. -0.032 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.1	41.7	62.5
54	45.8	39.5	59.3





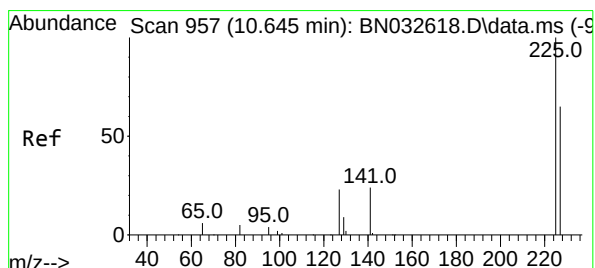
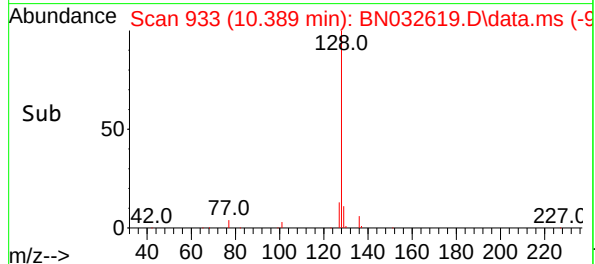
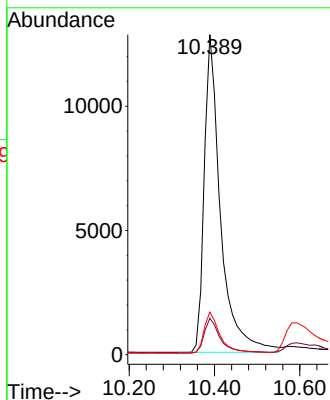
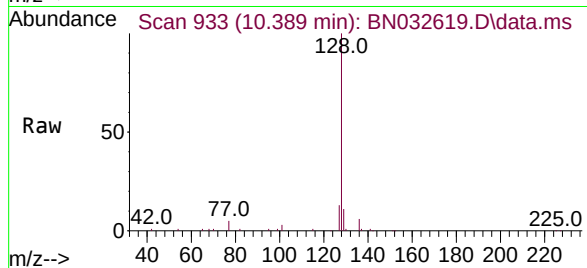
#9
Naphthalene
Concen: 0.847 ng
RT: 10.389 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 34029
Ion Ratio Lower Upper
128 100
129 11.3 9.8 14.8
127 13.3 11.5 17.3

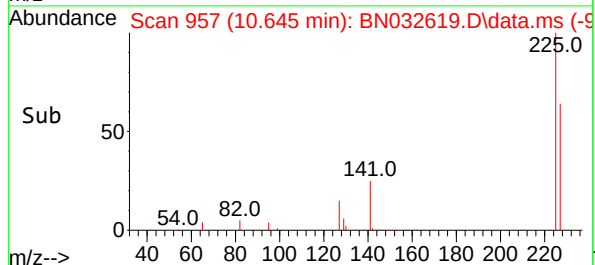
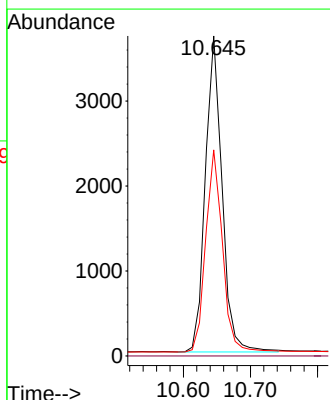
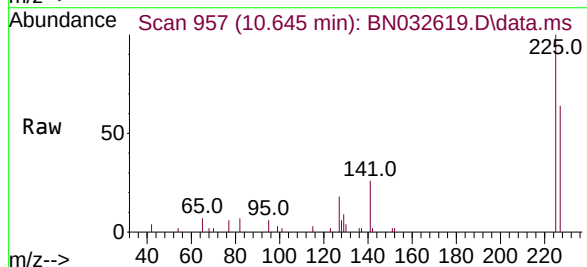
Manual Integrations
APPROVED

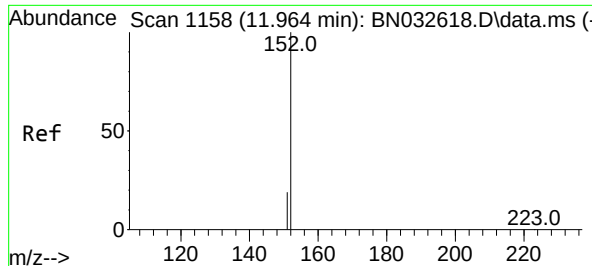
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.840 ng
RT: 10.645 min Scan# 957
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

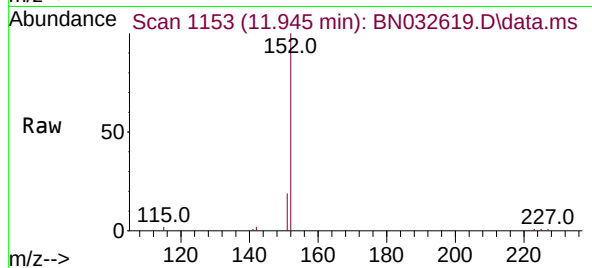
Tgt Ion:225 Resp: 6444
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.859 ng
RT: 11.945 min Scan# 1153
Delta R.T. -0.019 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

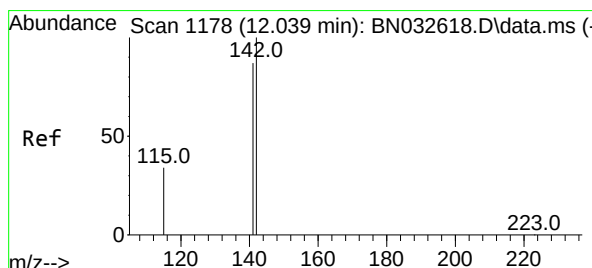
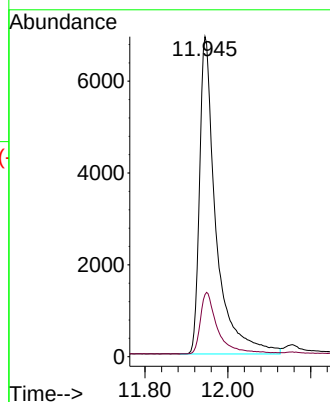
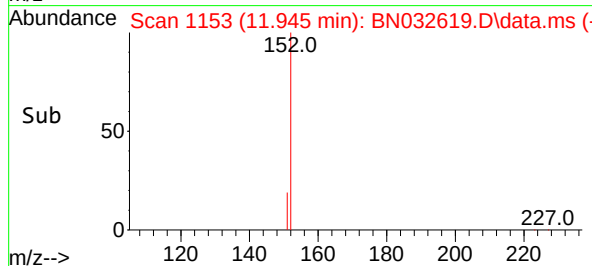
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 19054
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

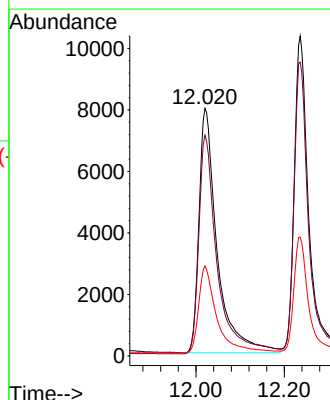
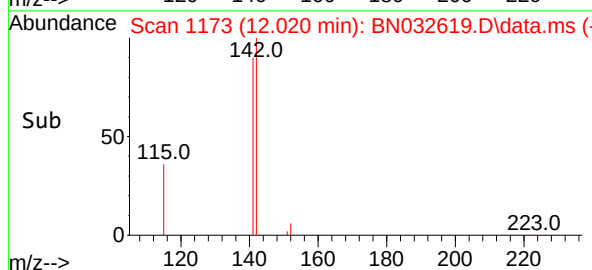
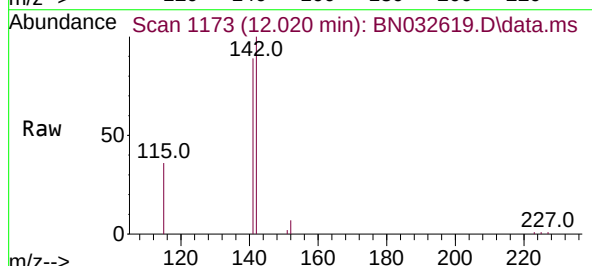
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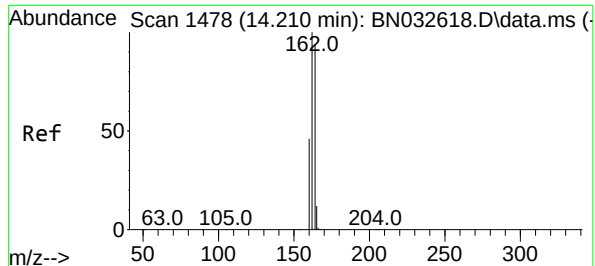
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 0.866 ng
RT: 12.020 min Scan# 1173
Delta R.T. -0.019 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

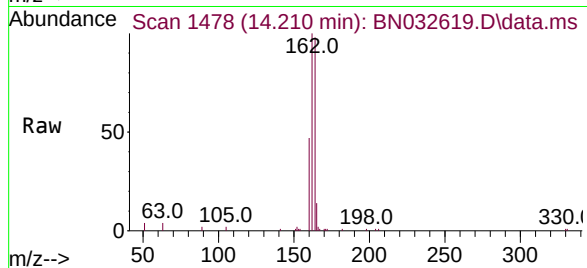
Tgt Ion:142 Resp: 22729
Ion Ratio Lower Upper
142 100
141 89.1 69.3 103.9
115 36.3 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

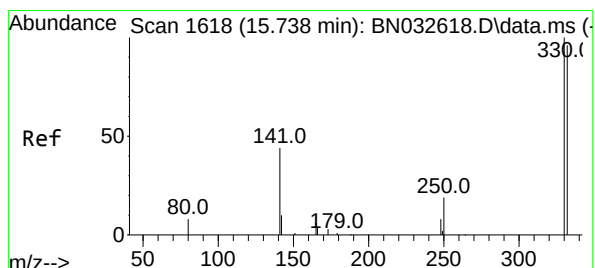
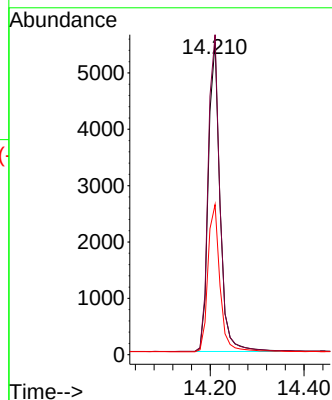
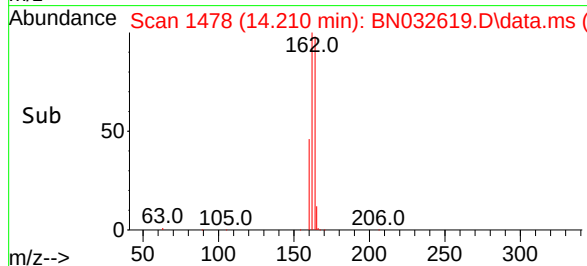
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



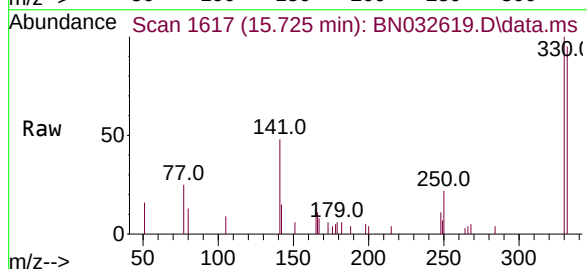
Tgt Ion:164 Resp: 947
Ion Ratio Lower Upper
164 100
162 102.4 85.0 127.4
160 48.0 39.4 59.2

Manual Integrations
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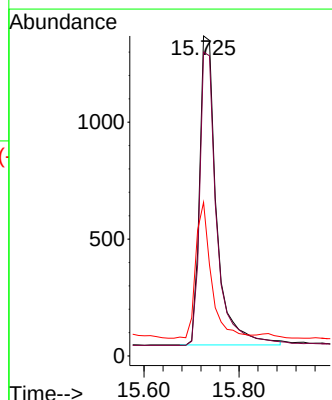
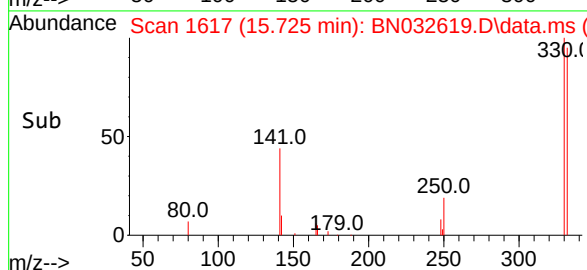
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

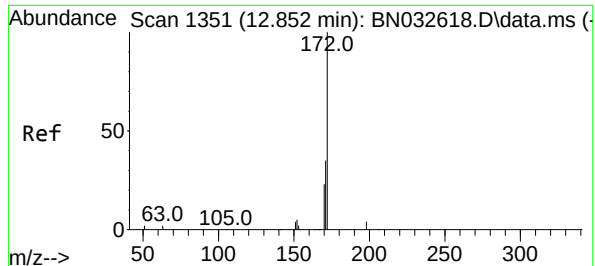


#14
2,4,6-Tribromophenol
Concen: 0.816 ng
RT: 15.725 min Scan# 1617
Delta R.T. -0.013 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43



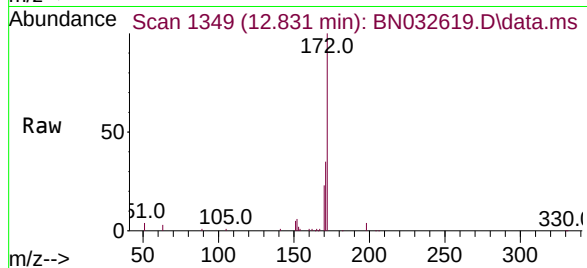
Tgt Ion:330 Resp: 3306
Ion Ratio Lower Upper
330 100
332 95.1 77.8 116.8
141 40.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.864 ng
RT: 12.831 min Scan# 1349
Delta R.T. -0.021 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

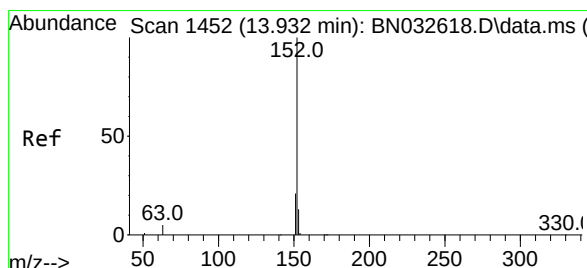
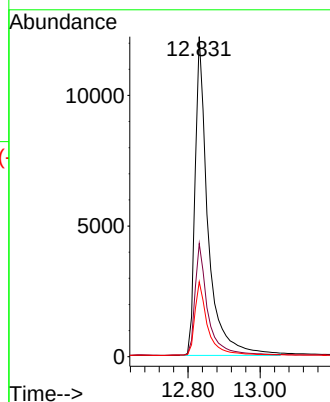
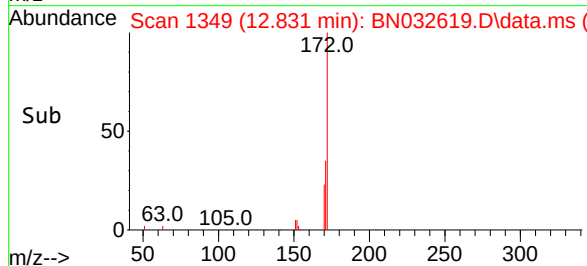
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:172 Resp: 3047
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.4 19.0 28.6

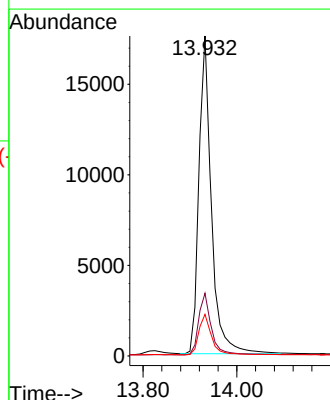
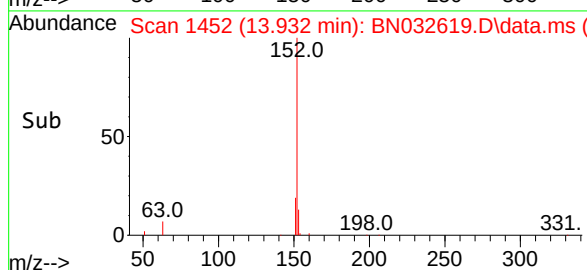
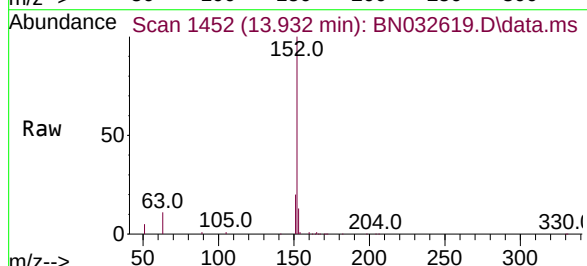
Manual Integrations
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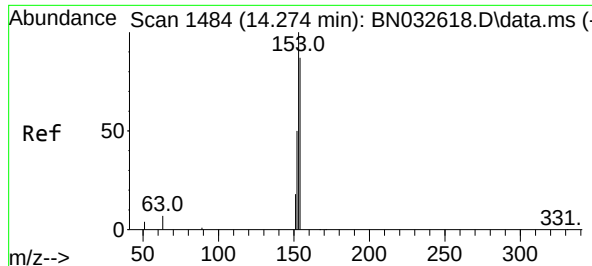
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.843 ng
RT: 13.932 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

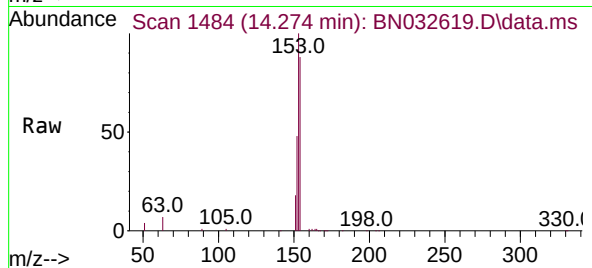
Tgt Ion:152 Resp: 32507
Ion Ratio Lower Upper
152 100
151 19.7 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.868 ng
RT: 14.274 min Scan# 1484
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

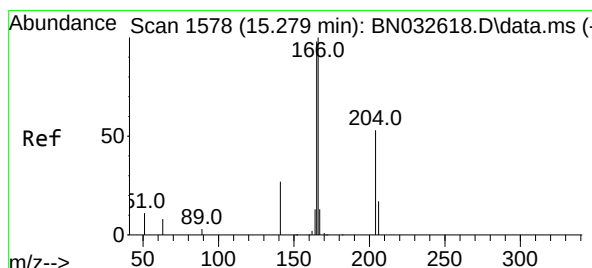
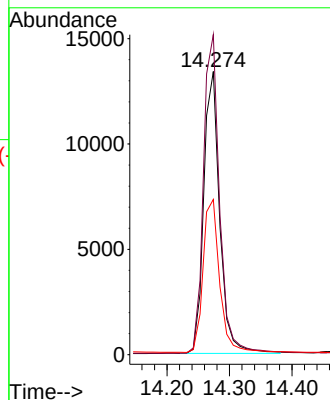
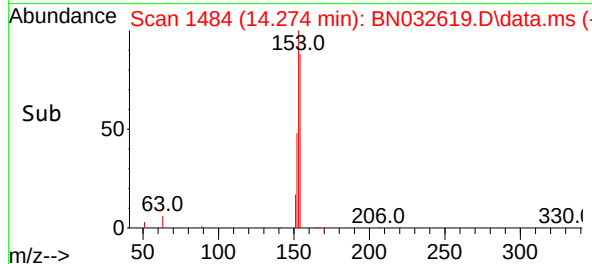
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:154 Resp: 23704
Ion Ratio Lower Upper
154 100
153 114.4 91.8 137.8
152 56.2 45.2 67.8

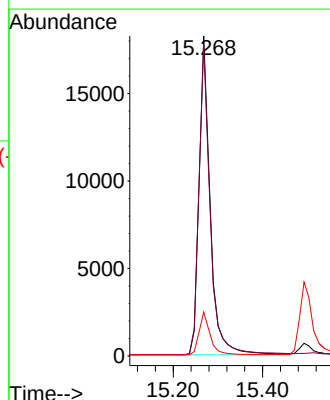
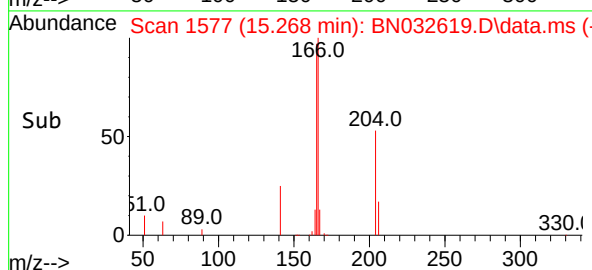
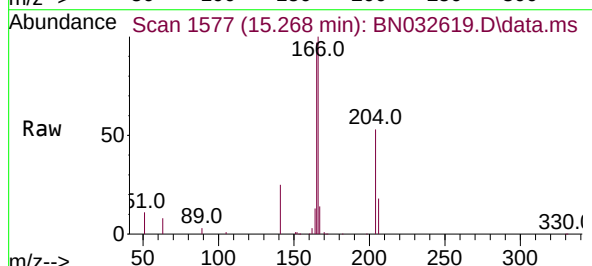
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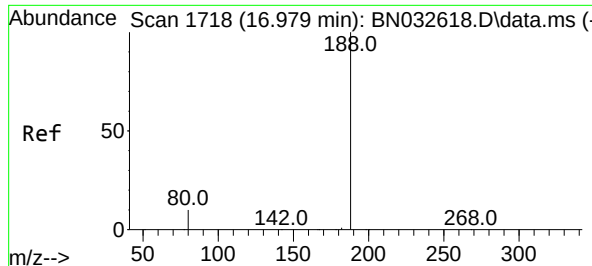
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.869 ng
RT: 15.268 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:166 Resp: 31718
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.966 min Scan# 11

Delta R.T. -0.013 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:188 Resp: 1996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

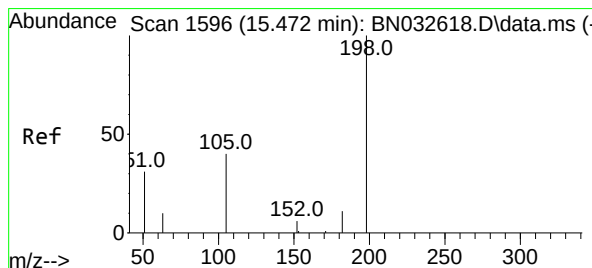
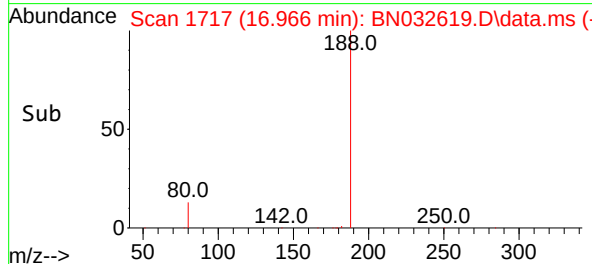
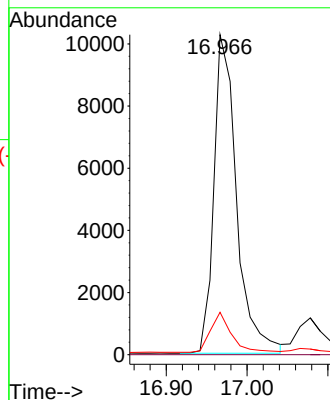
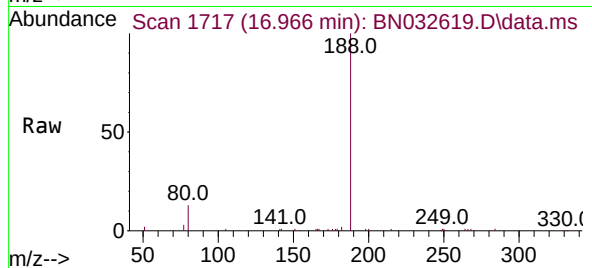
80 13.2 8.8 13.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.776 ng

RT: 15.429 min Scan# 1592

Delta R.T. -0.043 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

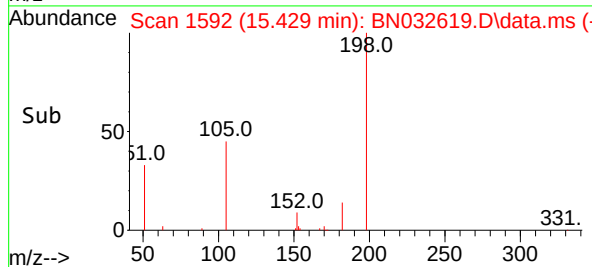
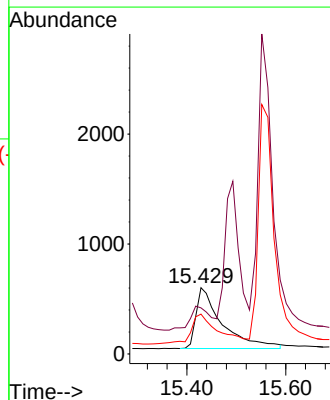
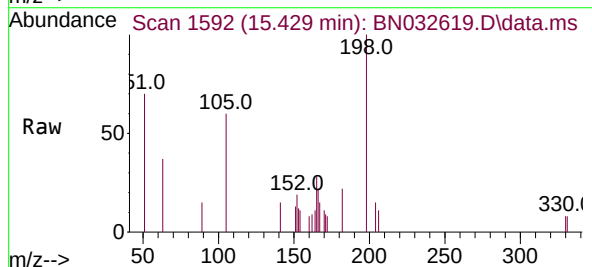
Tgt Ion:198 Resp: 2104

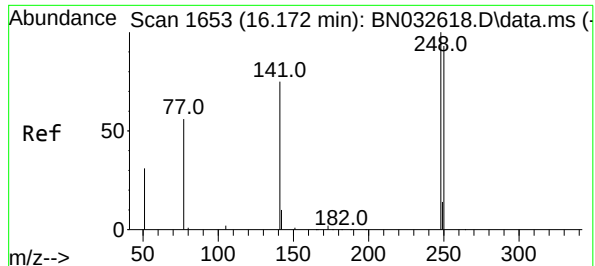
Ion Ratio Lower Upper

198 100

51 69.7 105.7 158.5#

105 60.0 63.0 94.6#





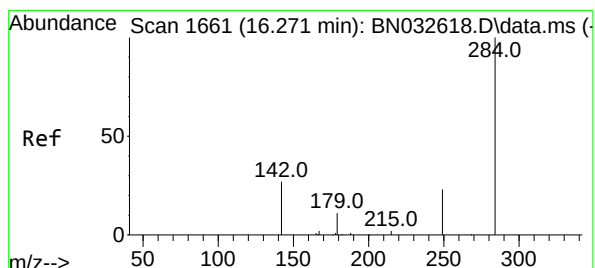
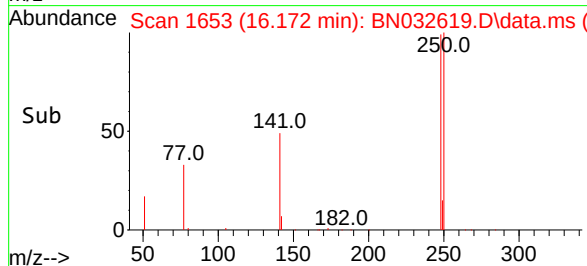
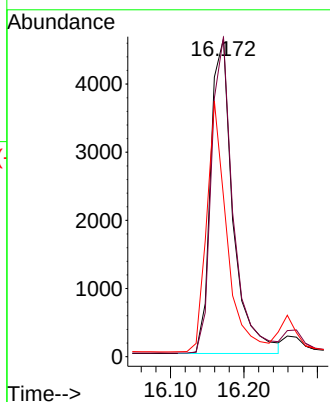
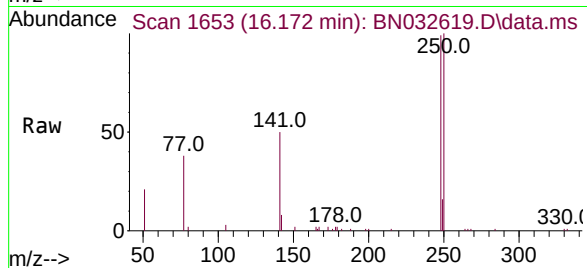
#21
4-Bromophenyl-phenylether
Concen: 0.835 ng
RT: 16.172 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 9798
Ion Ratio Lower Upper
248 100
250 100.7 75.1 112.7
141 50.3 62.0 93.0

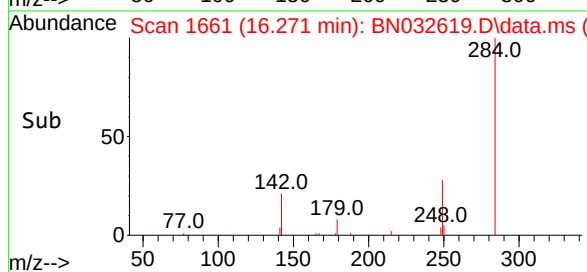
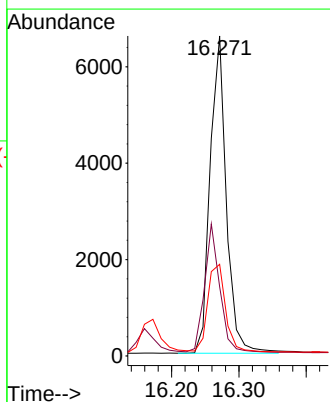
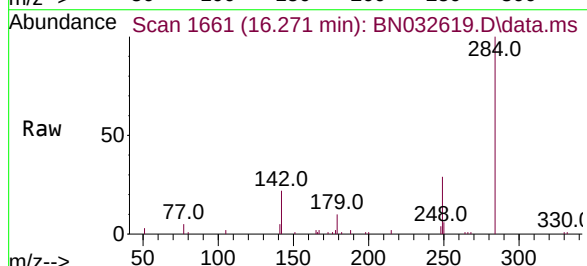
Manual Integrations
APPROVED

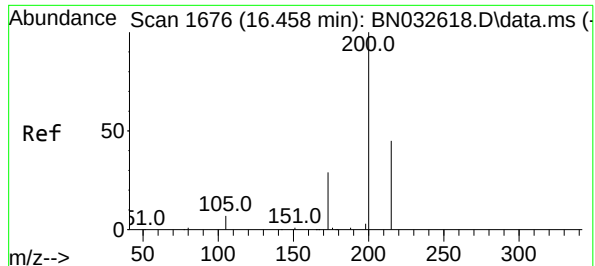
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.842 ng
RT: 16.271 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

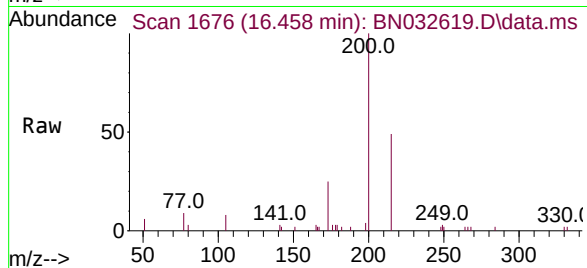
Tgt Ion:284 Resp: 11066
Ion Ratio Lower Upper
284 100
142 37.7 29.4 44.0
249 30.5 24.6 36.8





#23
Atrazine
Concen: 0.840 ng
RT: 16.458 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

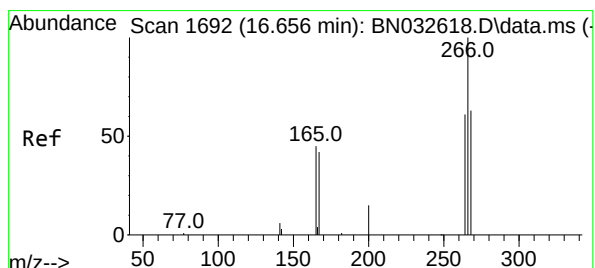
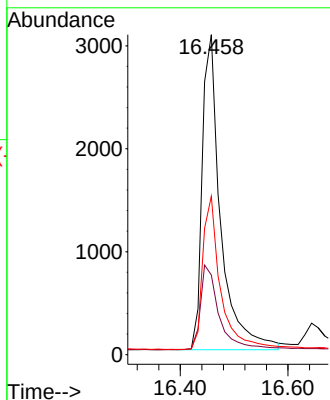
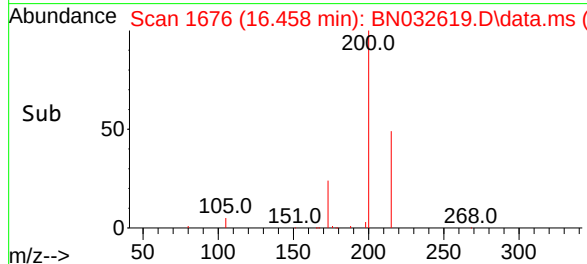
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:200 Resp: 725
Ion Ratio Lower Upper
200 100
173 24.9 25.4 38.2
215 49.5 38.2 57.2

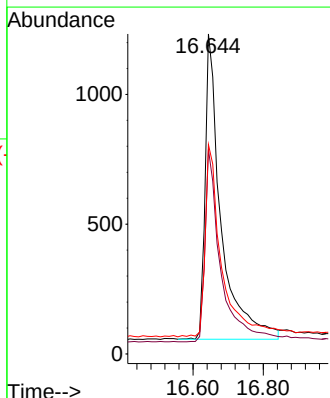
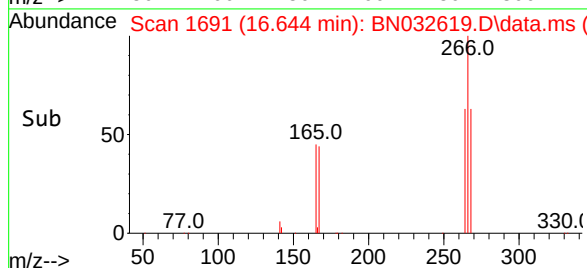
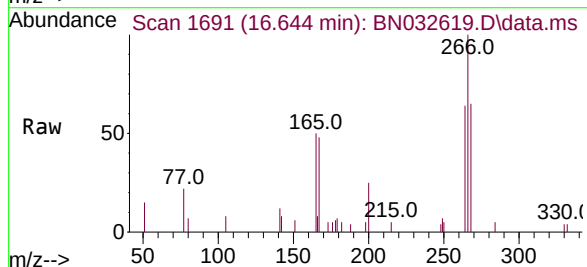
Manual Integrations
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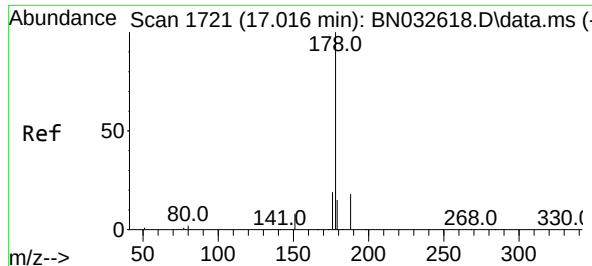
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.758 ng
RT: 16.644 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:266 Resp: 3701
Ion Ratio Lower Upper
266 100
264 62.3 50.2 75.2
268 65.5 52.8 79.2





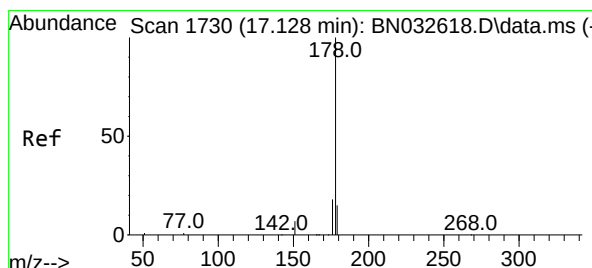
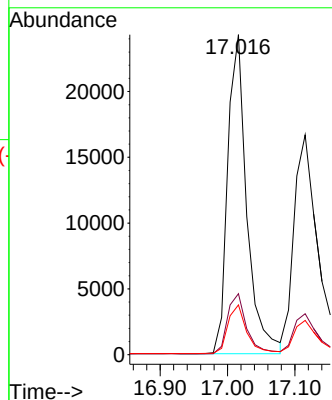
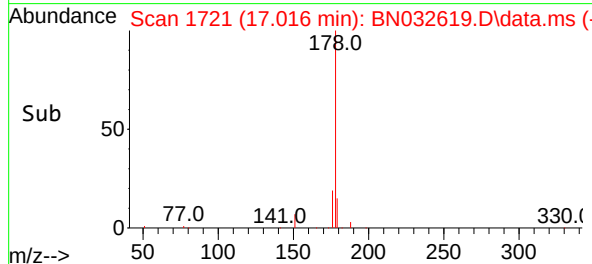
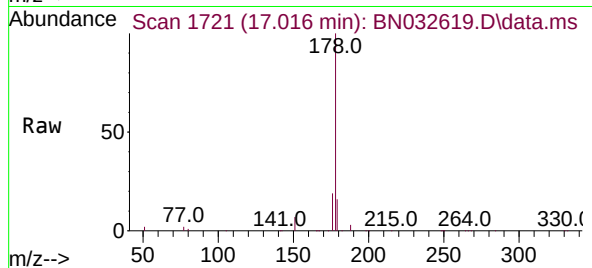
#25
Phenanthrene
Concen: 0.876 ng
RT: 17.016 min Scan# 1720
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 4779
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.2 12.2 18.4

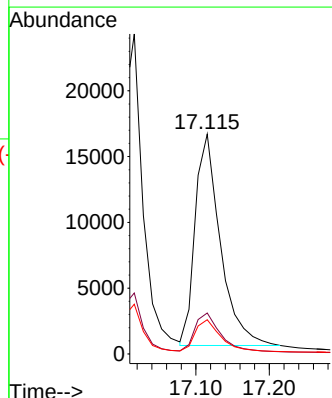
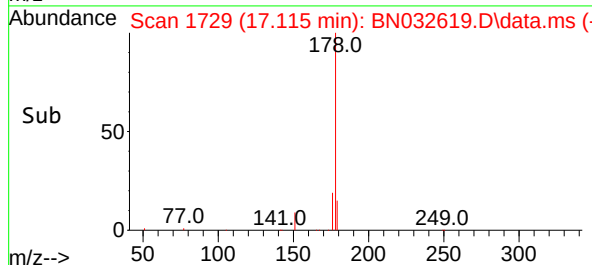
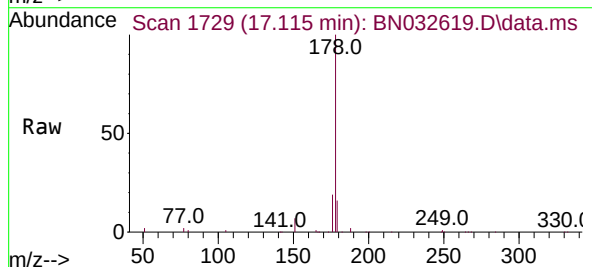
Manual Integrations
APPROVED

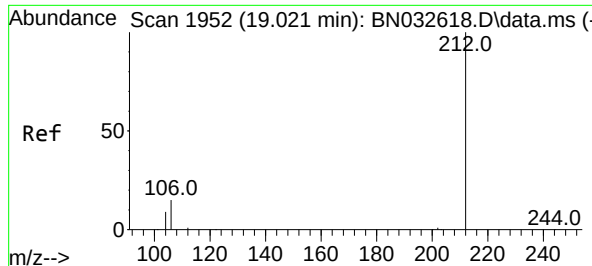
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.856 ng
RT: 17.115 min Scan# 1729
Delta R.T. -0.013 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:178 Resp: 38441
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.851 ng

RT: 19.017 min Scan# 1951

Delta R.T. -0.005 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

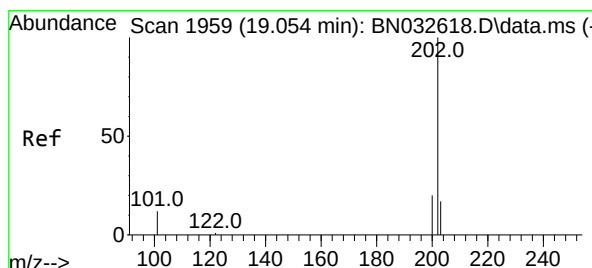
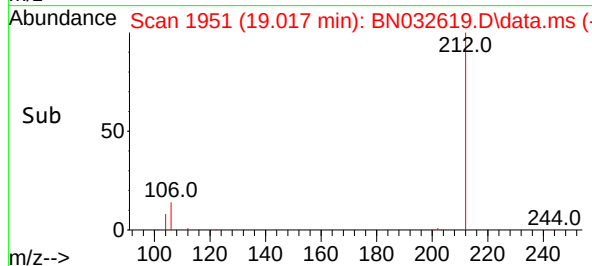
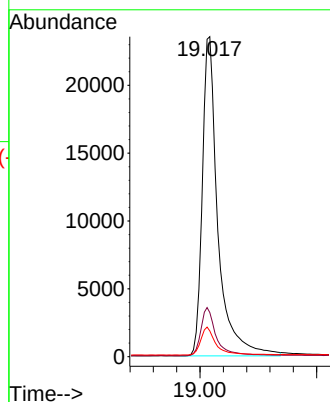
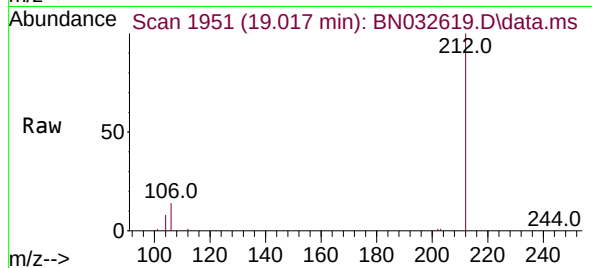
Tgt Ion:	212	Resp:	43978
Ion Ratio	Lower	Upper	
212	100		
106	14.8	11.9	17.9
104	8.6	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.858 ng

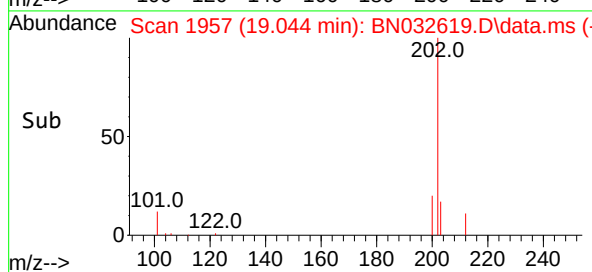
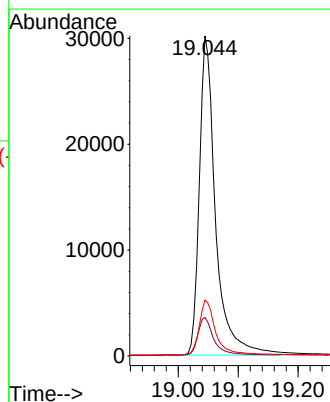
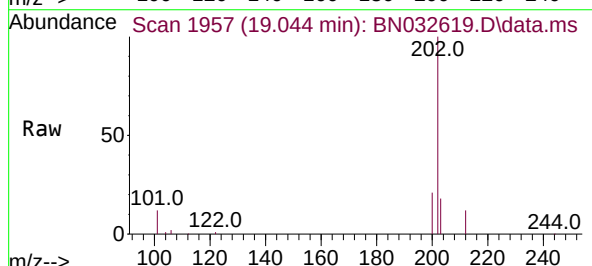
RT: 19.044 min Scan# 1957

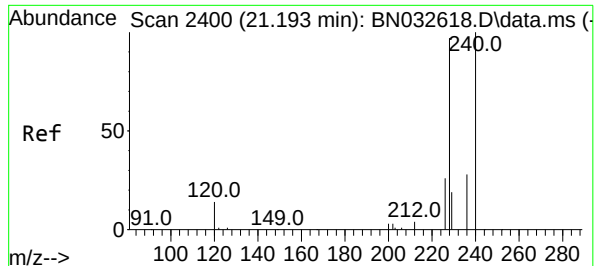
Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	202	Resp:	56641
Ion Ratio	Lower	Upper	
202	100		
101	11.7	9.6	14.4
203	17.2	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

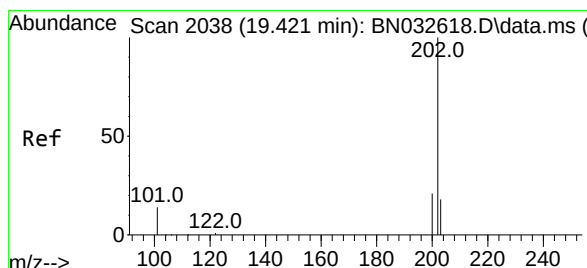
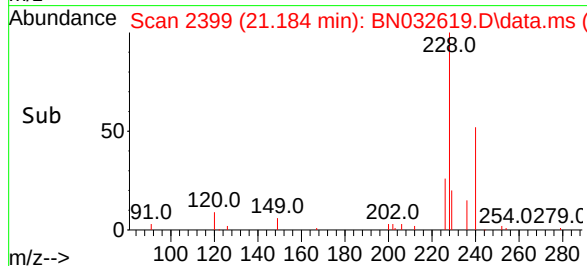
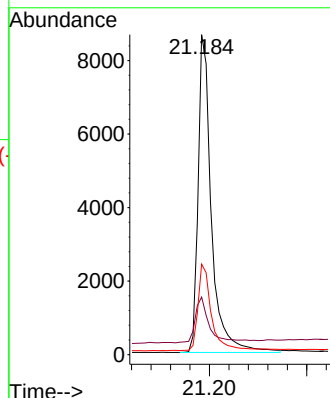
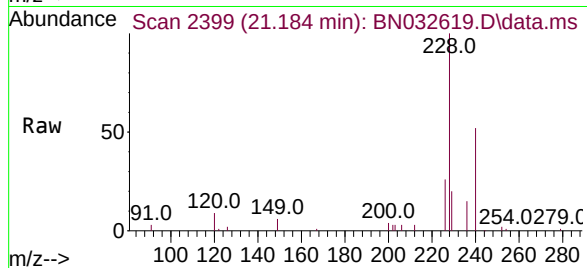
ClientSampleId :

SSTDICC0.8

Tgt Ion:	240	Resp:	16320
Ion Ratio	Lower	Upper	
240	100		
120	18.0	14.8	22.2
236	28.3	23.3	34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.868 ng

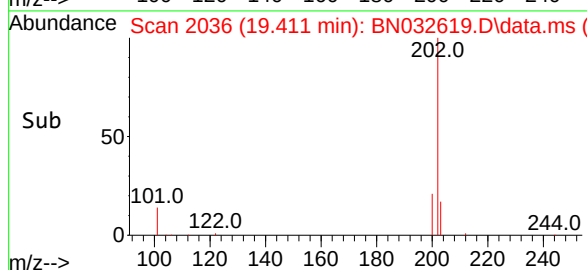
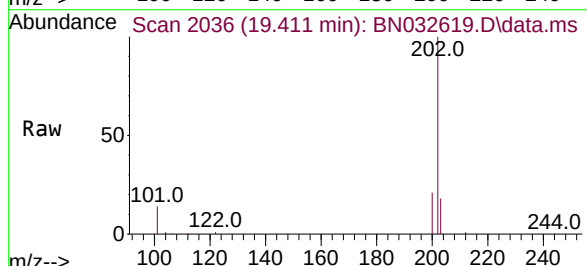
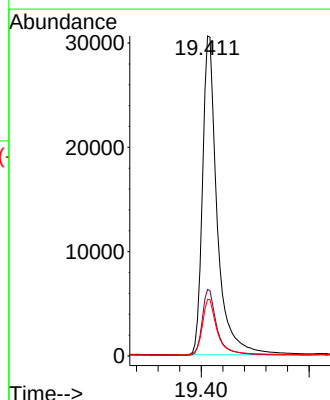
RT: 19.411 min Scan# 2036

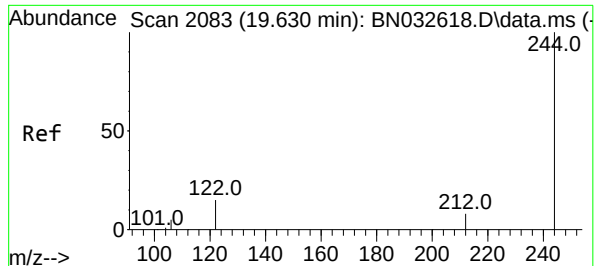
Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

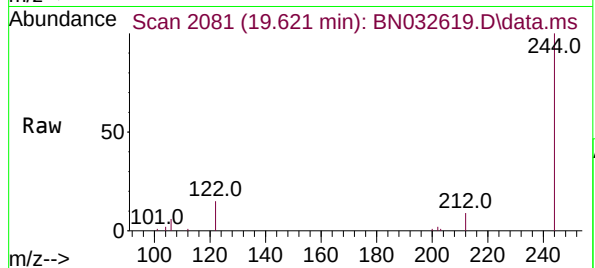
Tgt Ion:	202	Resp:	57854
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	17.9	14.8	22.2





#31
Terphenyl-d14
Concen: 0.864 ng
RT: 19.621 min Scan# 2081
Delta R.T. -0.009 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

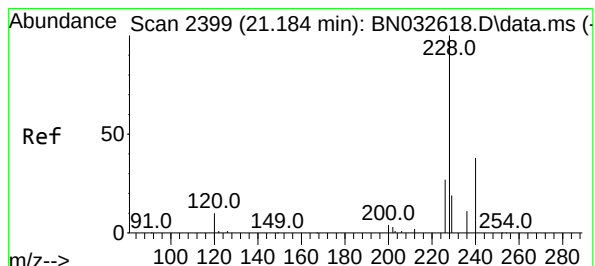
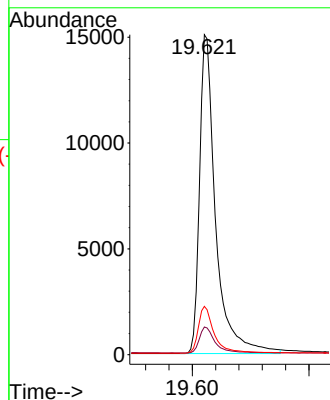
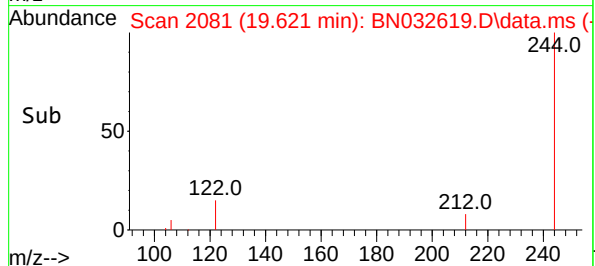
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:244 Resp: 28910
Ion Ratio Lower Upper
244 100
212 8.6 7.5 11.3
122 15.1 12.6 19.0

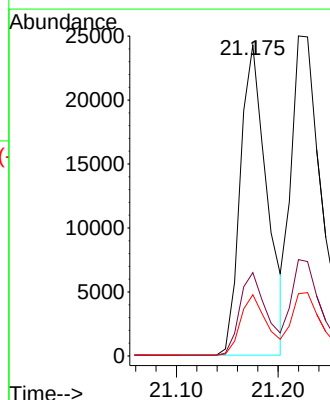
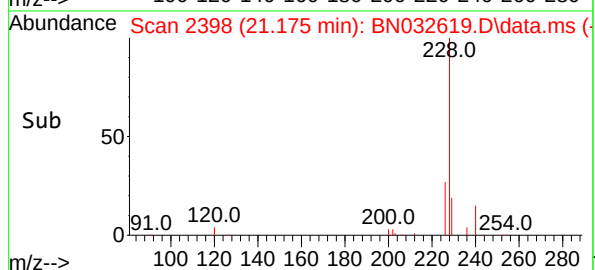
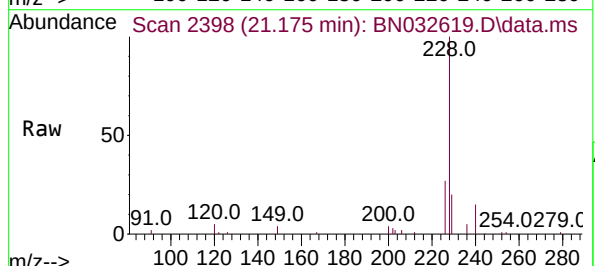
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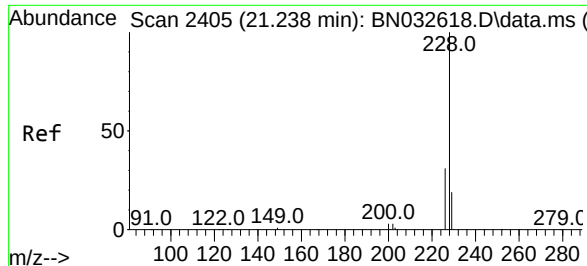
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.855 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.009 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:228 Resp: 44118
Ion Ratio Lower Upper
228 100
226 26.8 21.8 32.6
229 19.7 16.0 24.0





#33

Chrysene

Concen: 0.850 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

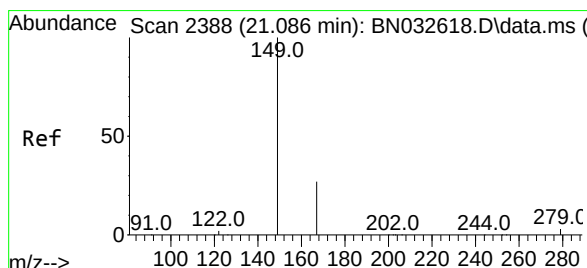
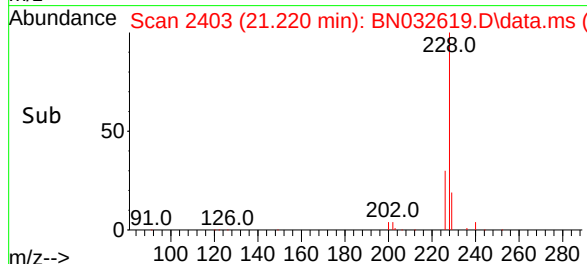
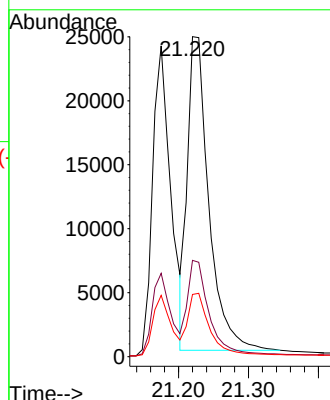
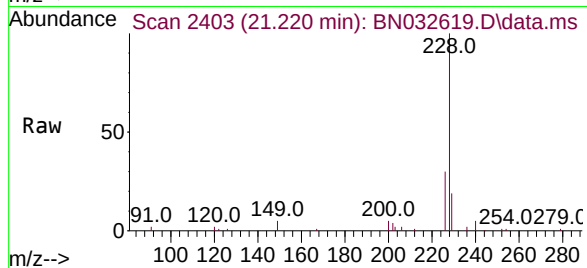
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.2	36.2
229	19.4	16.0	24.0

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.795 ng

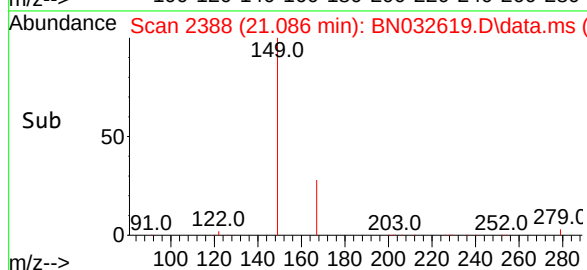
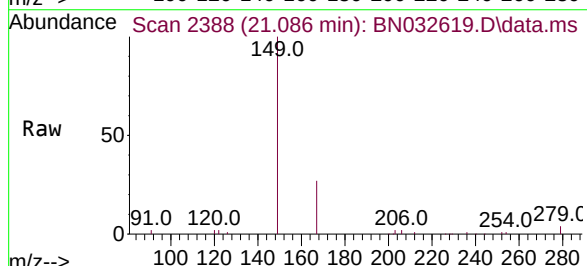
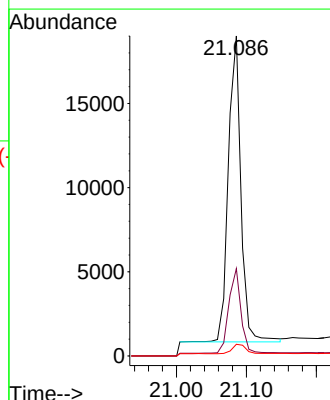
RT: 21.086 min Scan# 2388

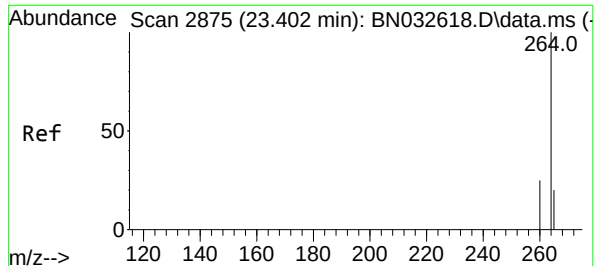
Delta R.T. -0.000 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.2
279	3.4	2.8	4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.396 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

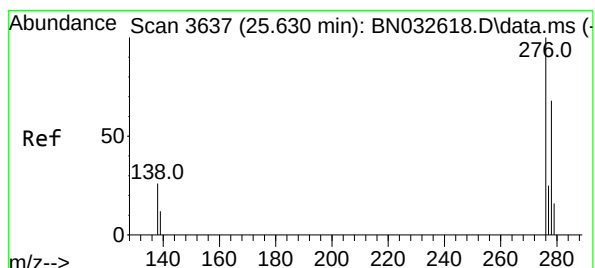
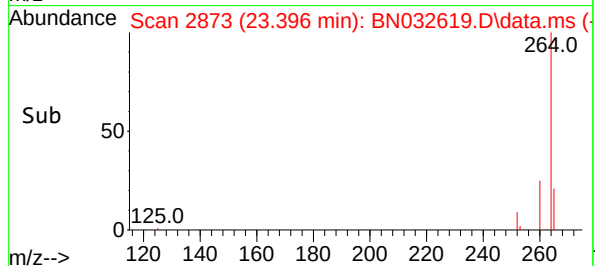
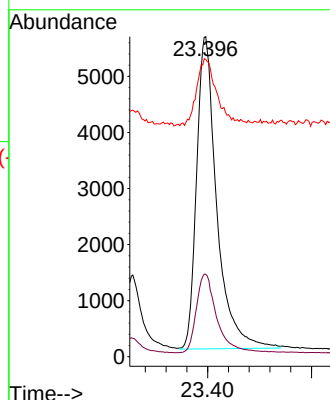
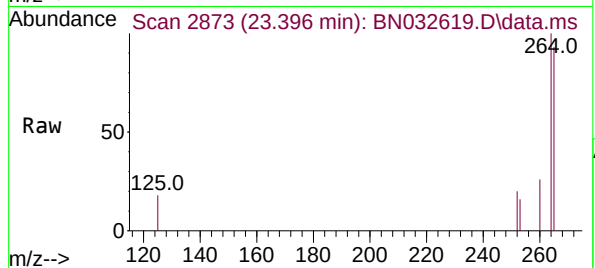
Tgt Ion:	264	Resp:	1501
Ion Ratio	Lower	Upper	
264	100		
260	25.8	20.9	31.3
265	92.9	85.4	128.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.850 ng

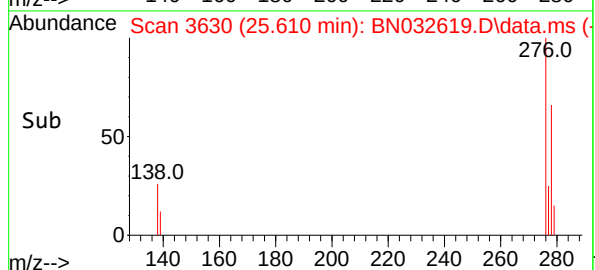
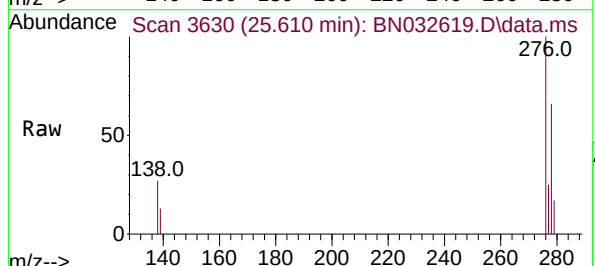
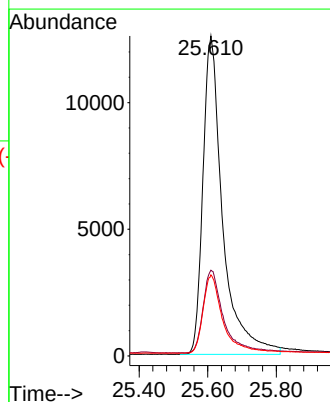
RT: 25.610 min Scan# 3630

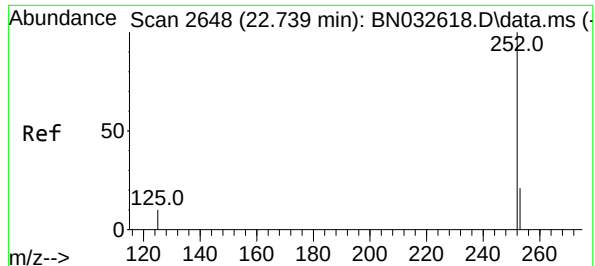
Delta R.T. -0.021 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	276	Resp:	50286
Ion Ratio	Lower	Upper	
276	100		
138	26.6	21.0	31.4
277	24.5	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.887 ng

RT: 22.730 min Scan# 2648

Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

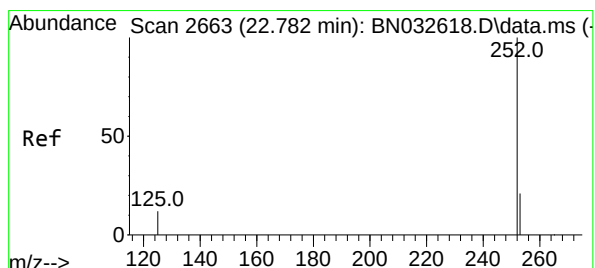
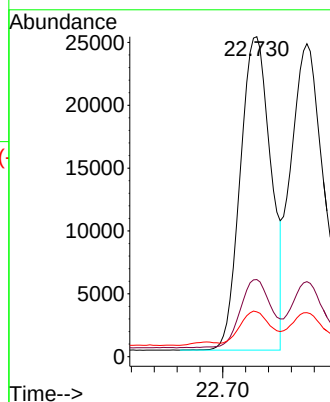
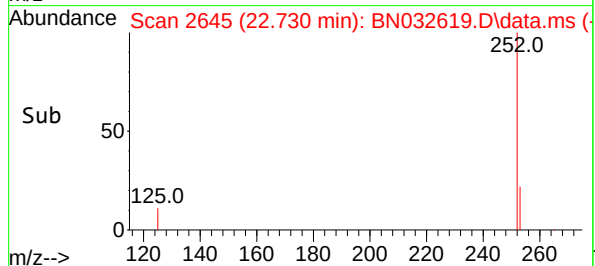
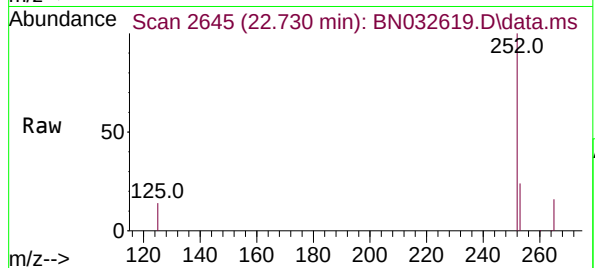
Tgt Ion:252 Resp: 4637

Ion	Ratio	Lower	Upper
252	100		
253	24.1	22.3	33.5
125	14.0	15.4	23.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.877 ng m

RT: 22.774 min Scan# 2660

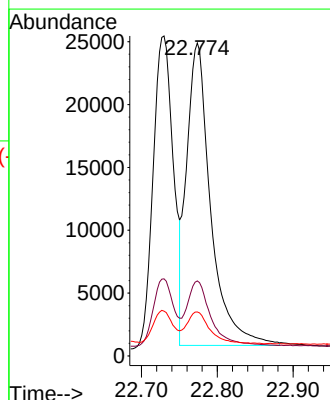
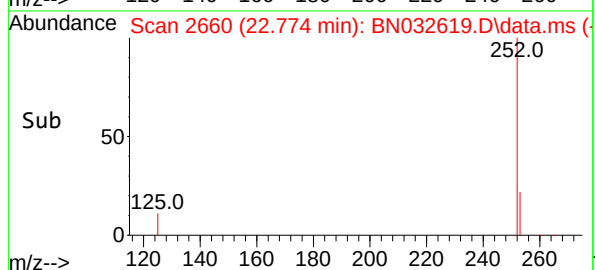
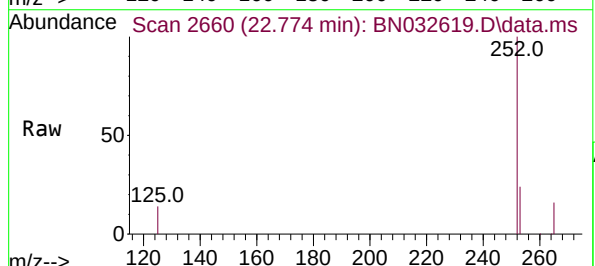
Delta R.T. -0.009 min

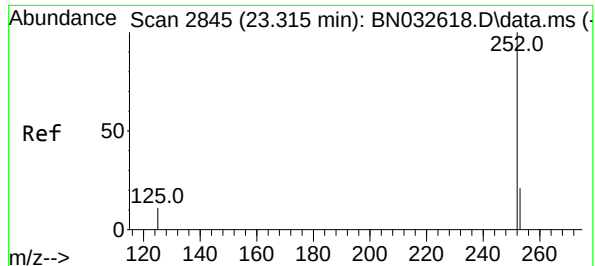
Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:252 Resp: 53162

Ion	Ratio	Lower	Upper
252	100		
253	24.0	22.6	34.0
125	14.0	16.2	24.4





#39

Benzo(a)pyrene

Concen: 0.867 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

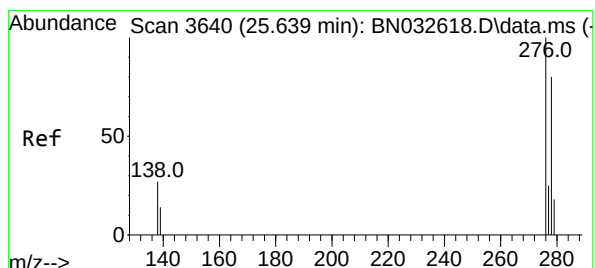
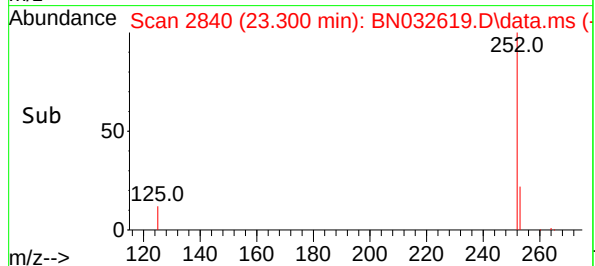
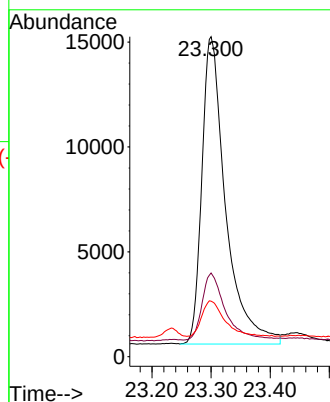
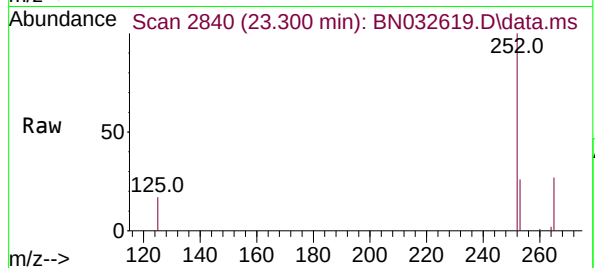
SSTDIC0.8

Tgt Ion:	252	Resp:	4091
Ion Ratio	Lower	Upper	
252	100		
253	26.2	25.8	38.8
125	17.4	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.850 ng

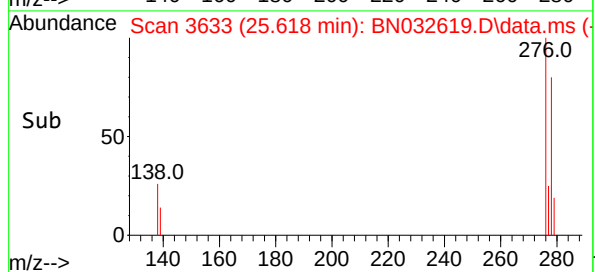
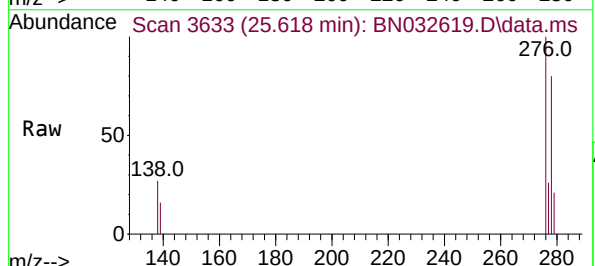
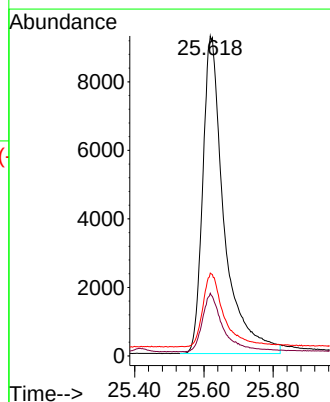
RT: 25.618 min Scan# 3633

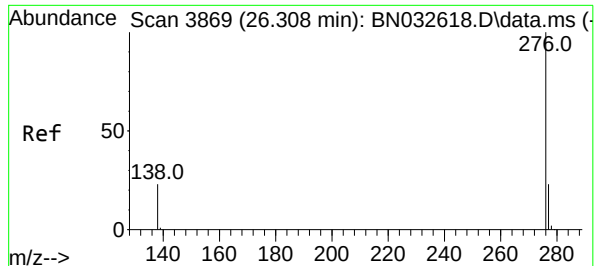
Delta R.T. -0.021 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	278	Resp:	39748
Ion Ratio	Lower	Upper	
278	100		
139	19.6	16.7	25.1
279	25.9	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.846 ng

RT: 26.291 min Scan# 3863

Delta R.T. -0.018 min

Lab File: BN032619.D

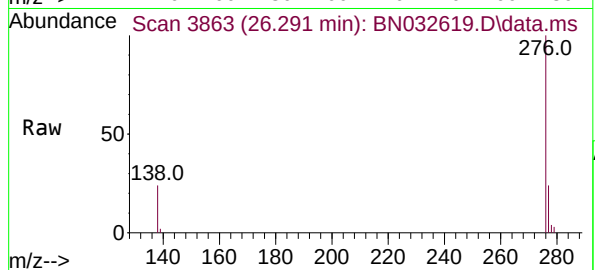
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 43810

Ion Ratio Lower Upper

276 100

277 24.4 20.2 30.2

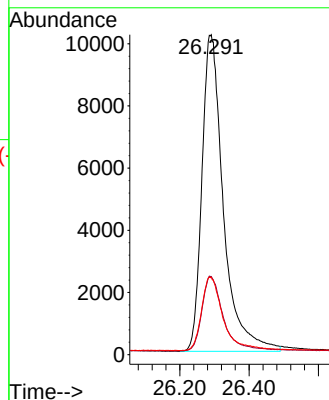
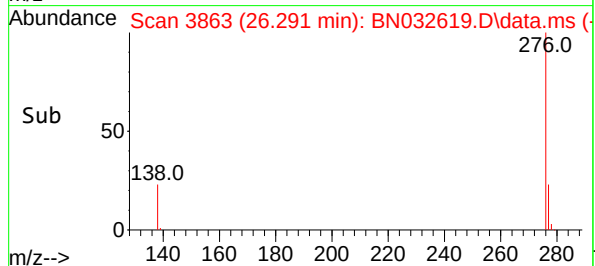
138 24.3 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032620.D
Acq On : 10 Jul 2024 18:19
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:41:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4922	0.400	ng	0.00
7) Naphthalene-d8	10.336	136	15658	0.400	ng	-0.02
13) Acenaphthene-d10	14.210	164	10493	0.400	ng	0.00
19) Phenanthrene-d10	16.967	188	22082	0.400	ng	-0.01
29) Chrysene-d12	21.184	240	19069	0.400	ng	# 0.00
35) Perylene-d12	23.393	264	17498	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	19869	1.596	ng	-0.01
5) Phenol-d6	6.765	99	26204	1.696	ng	-0.03
8) Nitrobenzene-d5	8.734	82	20562	1.744	ng	-0.04
11) 2-Methylnaphthalene-d10	11.937	152	40719	1.700	ng	-0.03
14) 2,4,6-Tribromophenol	15.725	330	7668	1.710	ng	-0.01
15) 2-Fluorobiphenyl	12.820	172	64920	1.662	ng	-0.03
27) Fluoranthene-d10	19.007	212	96873	1.696	ng	-0.01
31) Terphenyl-d14	19.616	244	64126	1.641	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.139	88	9373	1.537	ng	97
3) n-Nitrosodimethylamine	3.457	42	8428	1.635	ng	# 98
6) bis(2-Chloroethyl)ether	7.011	93	20757	1.606	ng	# 82
9) Naphthalene	10.378	128	71828	1.657	ng	97
10) Hexachlorobutadiene	10.645	225	13268	1.601	ng	# 99
12) 2-Methylnaphthalene	12.013	142	49169	1.735	ng	97
16) Acenaphthylene	13.932	152	74066	1.735	ng	99
17) Acenaphthene	14.263	154	50852	1.681	ng	99
18) Fluorene	15.268	166	68627	1.698	ng	100
20) 4,6-Dinitro-2-methylph...	15.407	198	5743m	1.497	ng	
21) 4-Bromophenyl-phenylether	16.160	248	21545	1.661	ng	# 90
22) Hexachlorobenzene	16.259	284	24018	1.653	ng	99
23) Atrazine	16.445	200	16618	1.739	ng	97
24) Pentachlorophenol	16.644	266	8802	1.630	ng	98
25) Phenanthrene	17.004	178	103504	1.715	ng	100
26) Anthracene	17.103	178	90439	1.821	ng	99
28) Fluoranthene	19.040	202	126342	1.730	ng	100
30) Pyrene	19.412	202	127819	1.641	ng	99
32) Benzo(a)anthracene	21.166	228	101931	1.691	ng	99
33) Chrysene	21.220	228	120202	1.677	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	54241	1.625	ng	99
36) Indeno(1,2,3-cd)pyrene	25.598	276	114048	1.653	ng	99
37) Benzo(b)fluoranthene	22.724	252	109636	1.799	ng	# 87
38) Benzo(k)fluoranthene	22.768	252	117877	1.670	ng	# 86
39) Benzo(a)pyrene	23.294	252	94036	1.711	ng	# 80
40) Dibenzo(a,h)anthracene	25.604	278	90541	1.662	ng	91
41) Benzo(g,h,i)perylene	26.279	276	97579	1.617	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032620.D
Acq On : 10 Jul 2024 18:19
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

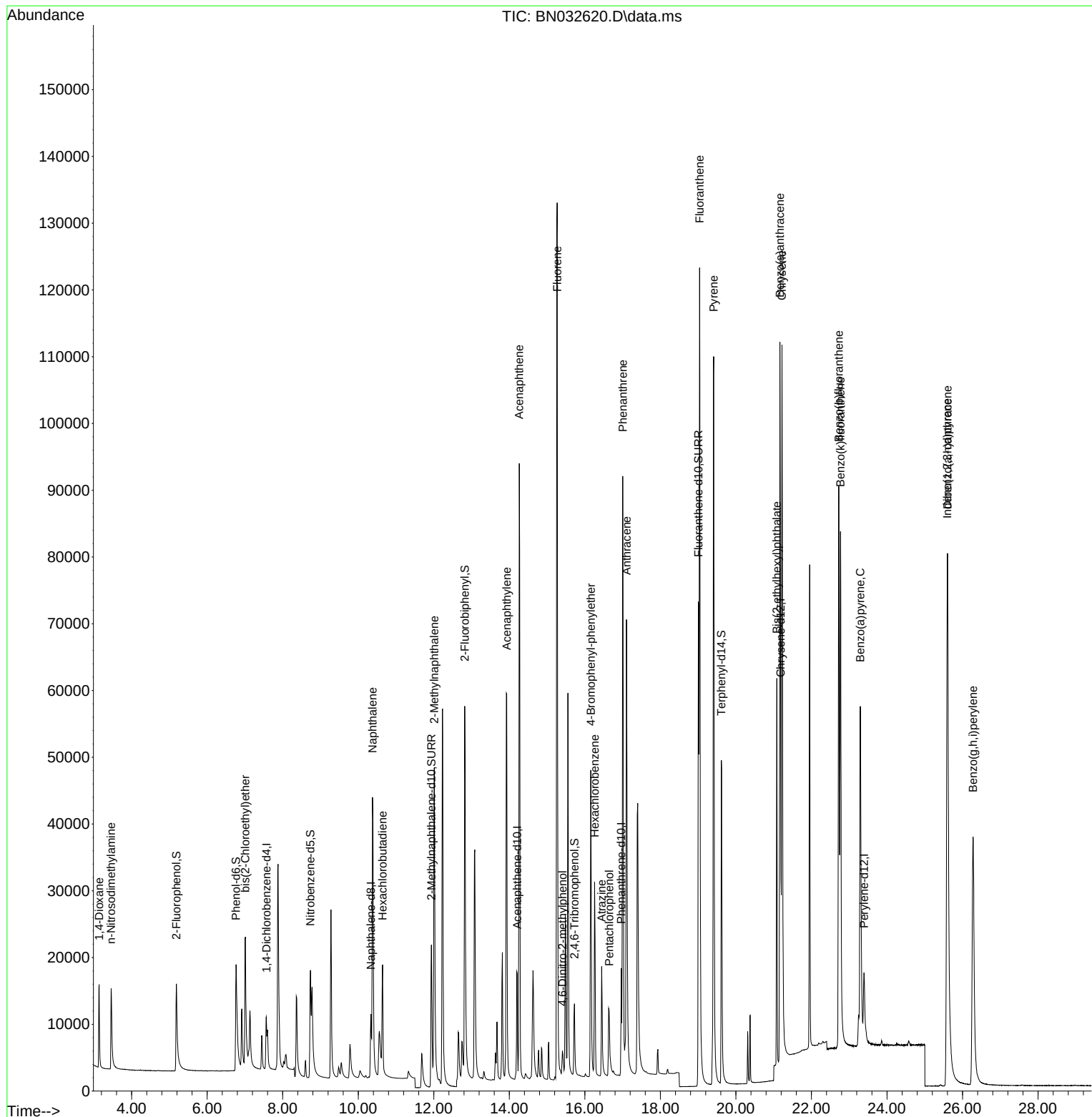
Manual Integrations

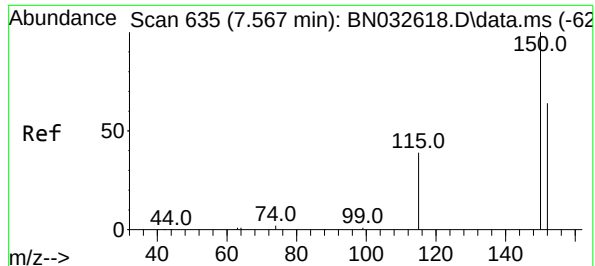
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

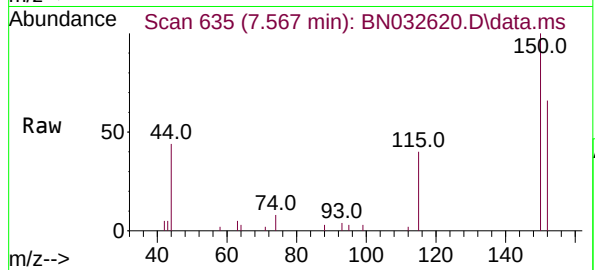
Quant Time: Jul 10 23:41:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

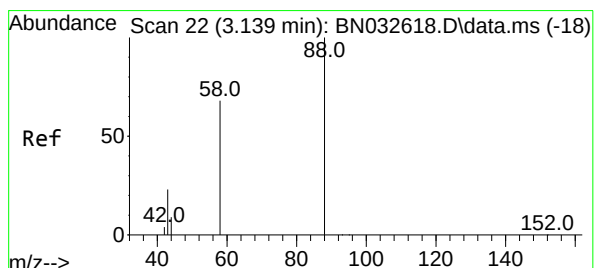
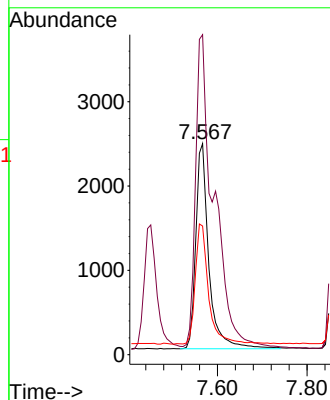
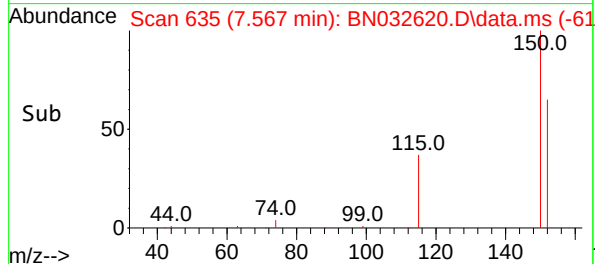
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 152 Resp: 492
Ion Ratio Lower Upper
152 100
150 151.7 123.8 185.6
115 61.0 52.8 79.2

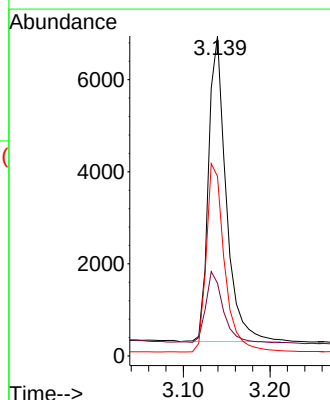
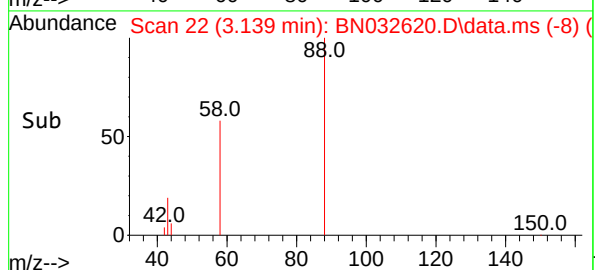
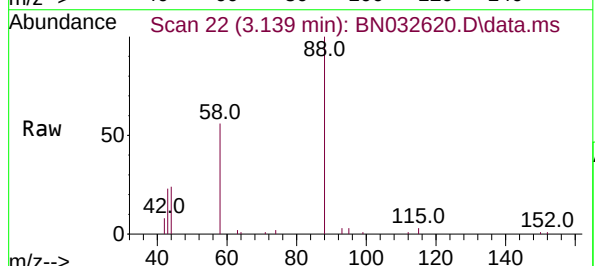
Manual Integrations
APPROVED

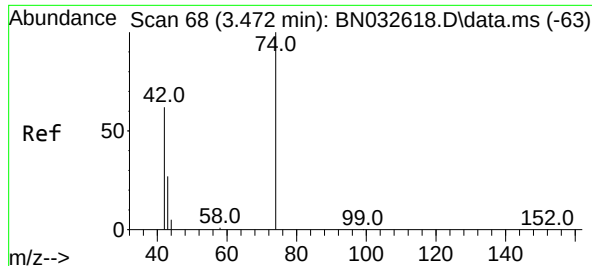
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 1.537 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 88 Resp: 9373
Ion Ratio Lower Upper
88 100
43 22.9 18.4 27.6
58 64.1 49.2 73.8





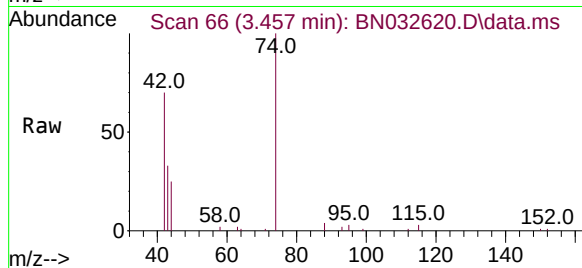
#3
n-Nitrosodimethylamine
Concen: 1.635 ng
RT: 3.457 min Scan# 60
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

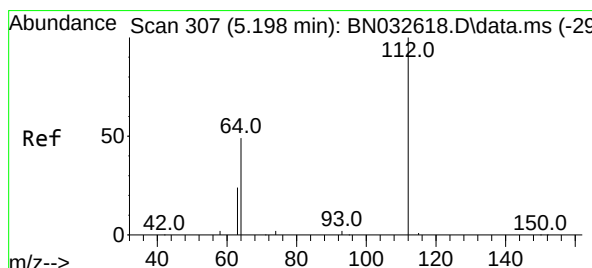
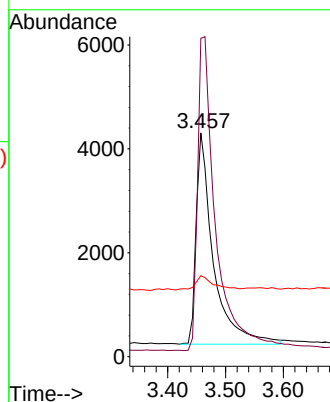
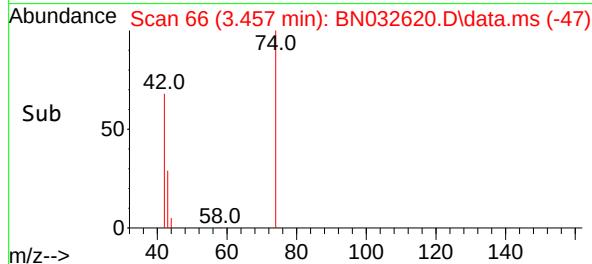
SSTDICC1.6



Tgt Ion: 42 Resp: 842
Ion Ratio Lower Upper
42 100
74 156.7 126.9 190.3
44 7.3 4.8 7.2

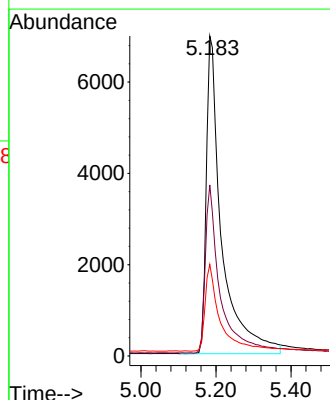
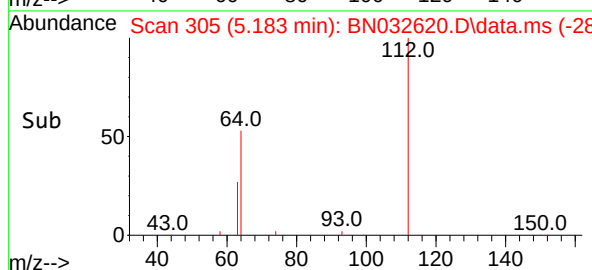
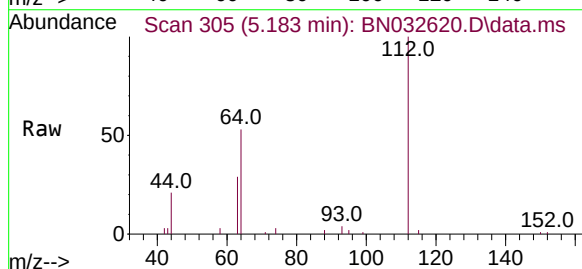
Manual Integrations
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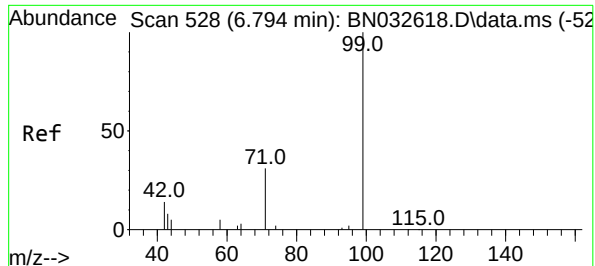
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 1.596 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:112 Resp: 19869
Ion Ratio Lower Upper
112 100
64 51.2 40.2 60.4
63 26.6 22.2 33.4





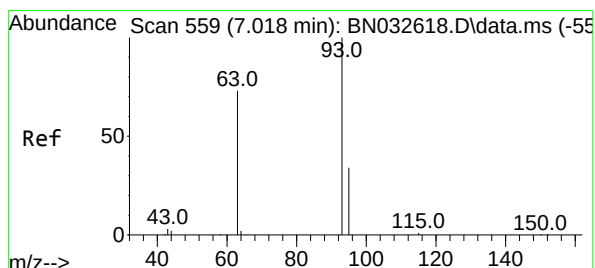
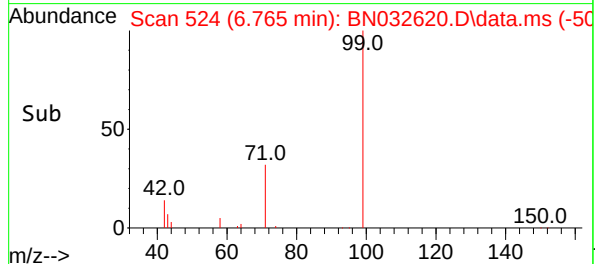
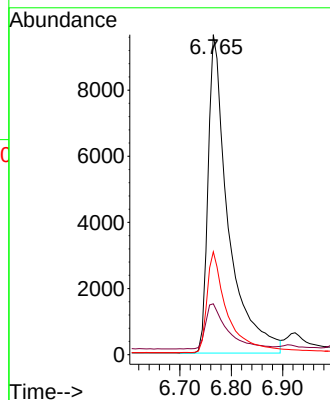
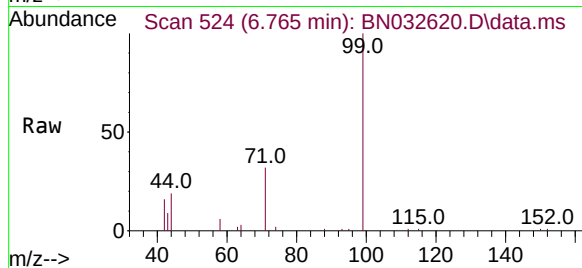
#5
Phenol-d6
Concen: 1.696 ng
RT: 6.765 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 26204
Ion Ratio Lower Upper
99 100
42 15.3 10.5 15.7
71 33.2 22.3 33.5

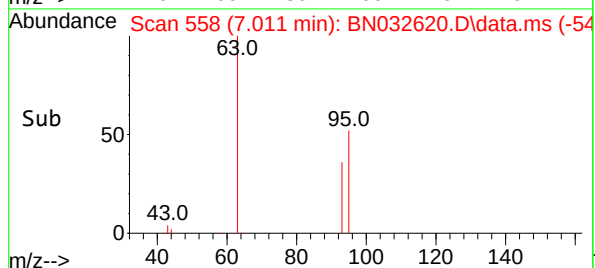
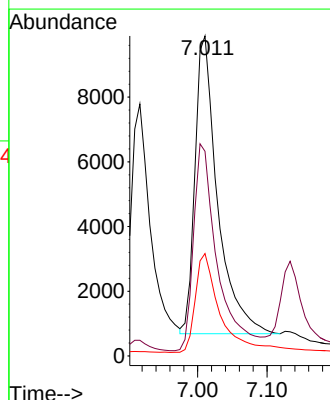
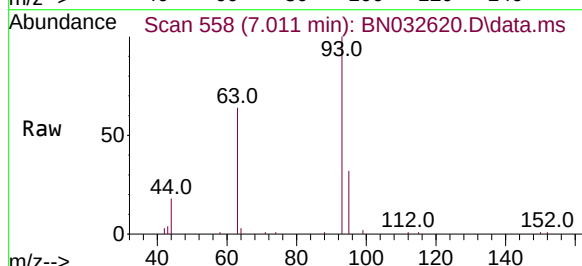
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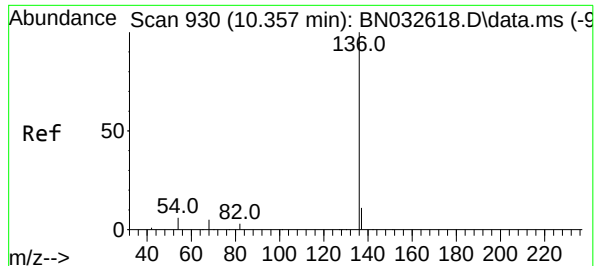
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 1.606 ng
RT: 7.011 min Scan# 558
Delta R.T. -0.007 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 93 Resp: 20757
Ion Ratio Lower Upper
93 100
63 73.2 46.4 69.6#
95 38.9 25.5 38.3#





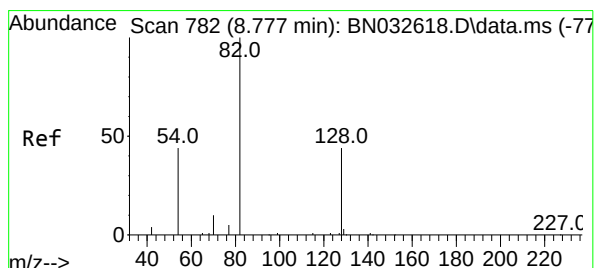
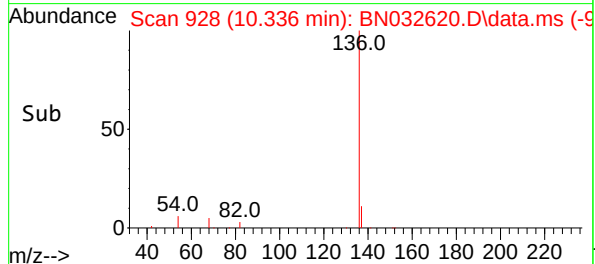
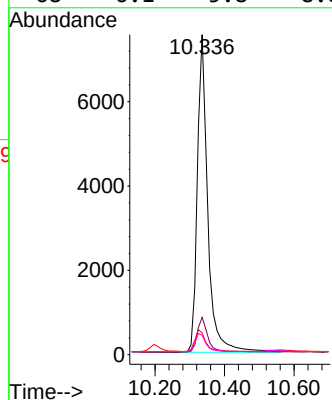
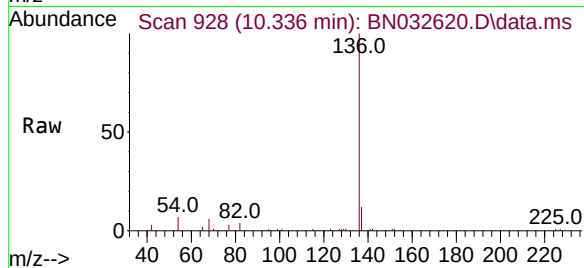
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.336 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 1565
Ion Ratio Lower Upper
136 100
137 11.6 9.9 14.9
54 6.8 6.5 9.7
68 6.1 5.8 8.8

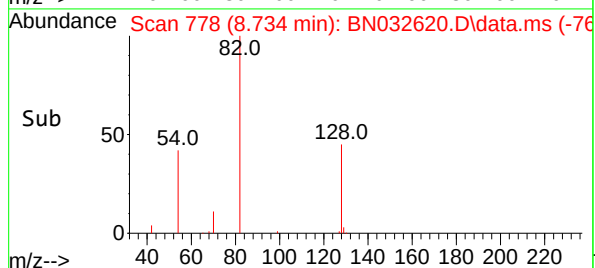
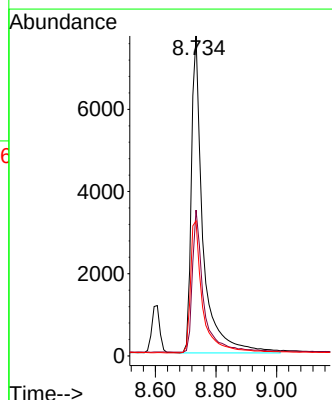
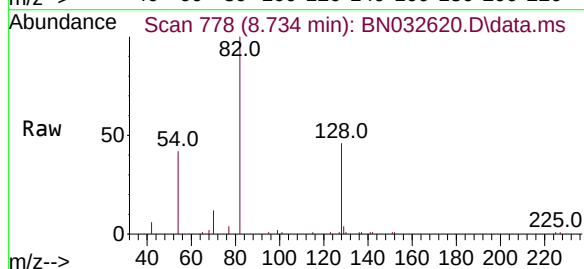
Manual Integrations
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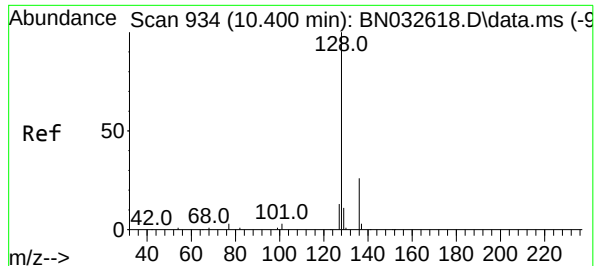
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 1.744 ng
RT: 8.734 min Scan# 778
Delta R.T. -0.043 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 82 Resp: 20562
Ion Ratio Lower Upper
82 100
128 45.6 41.7 62.5
54 42.2 39.5 59.3





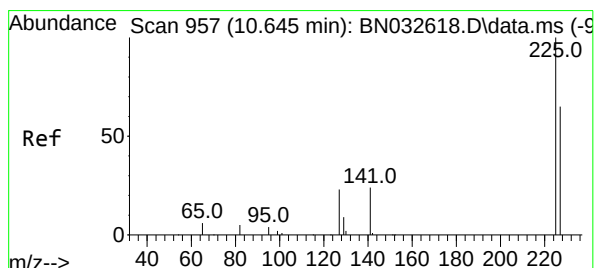
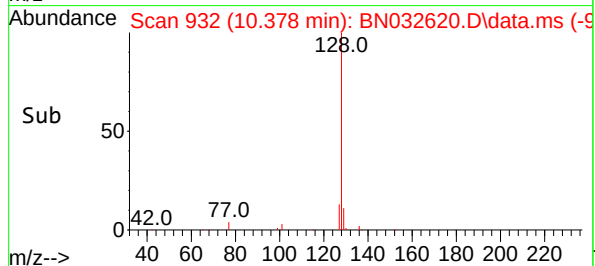
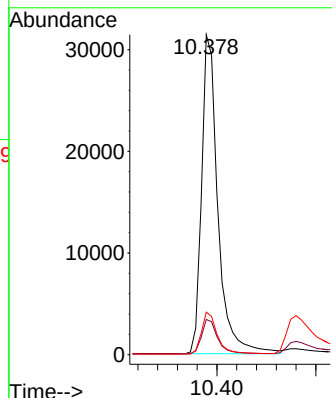
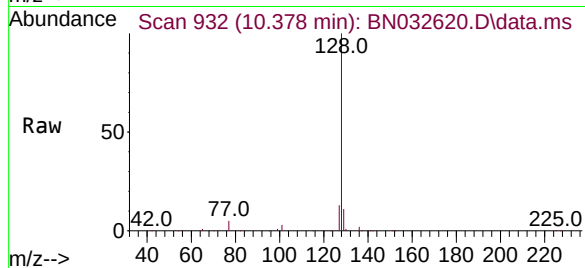
#9
Naphthalene
Concen: 1.657 ng
RT: 10.378 min Scan# 912
Delta R.T. -0.021 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 71828
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.8
127 13.3 11.5 17.3

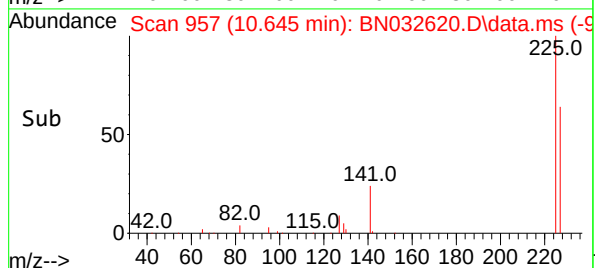
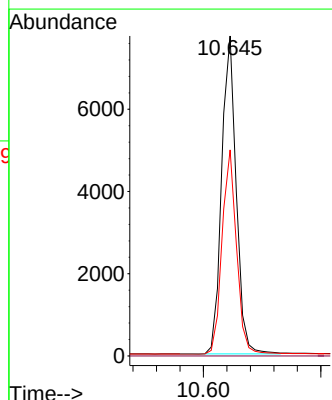
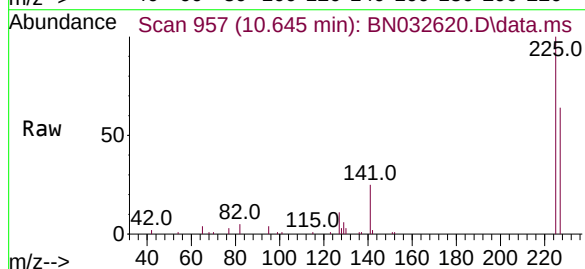
Manual Integrations
APPROVED

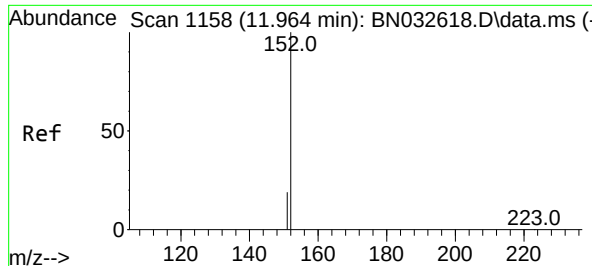
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 1.601 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

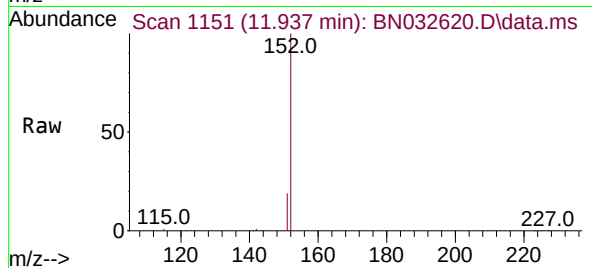
Tgt Ion:225 Resp: 13268
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 1.700 ng
RT: 11.937 min Scan# 1151
Delta R.T. -0.026 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

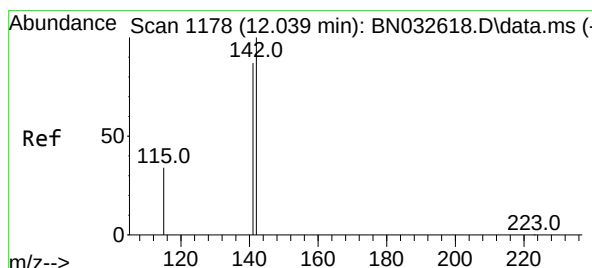
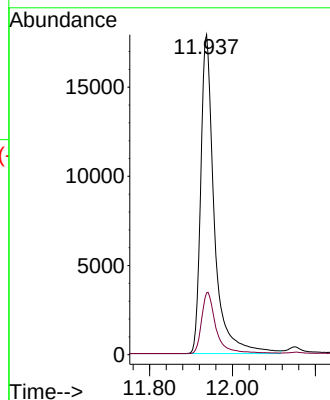
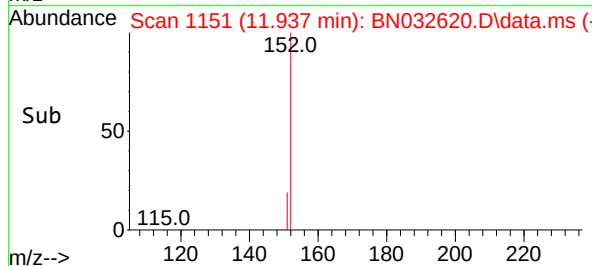
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 40719
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

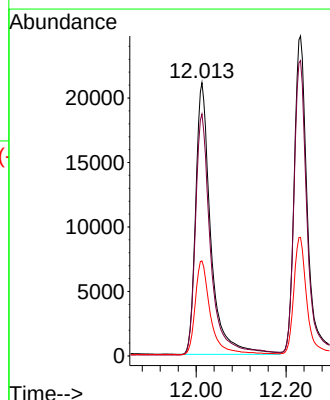
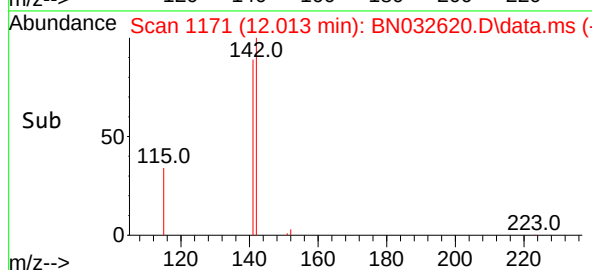
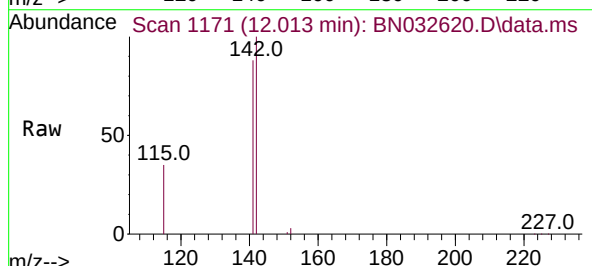
Manual Integrations
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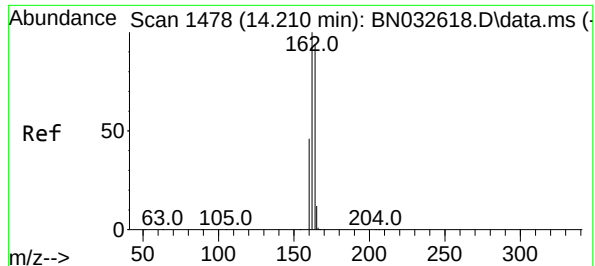
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 1.735 ng
RT: 12.013 min Scan# 1171
Delta R.T. -0.026 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

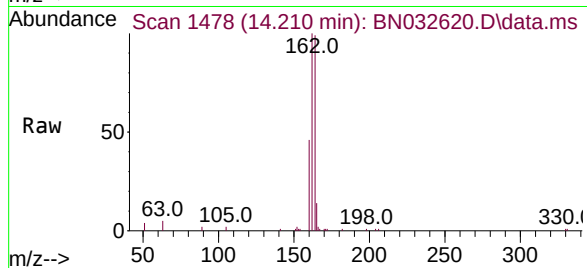
Tgt Ion:142 Resp: 49169
Ion Ratio Lower Upper
142 100
141 88.5 69.3 103.9
115 34.8 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

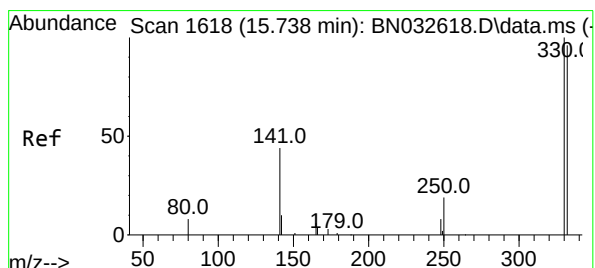
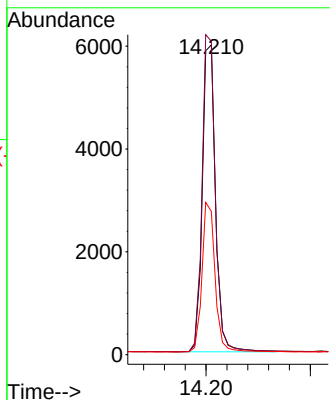
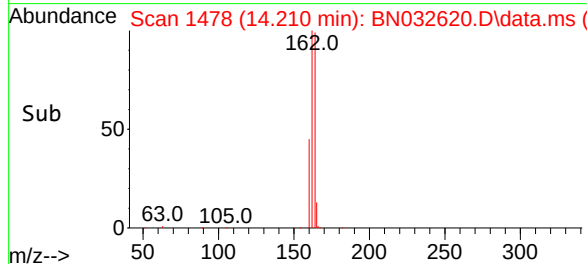
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



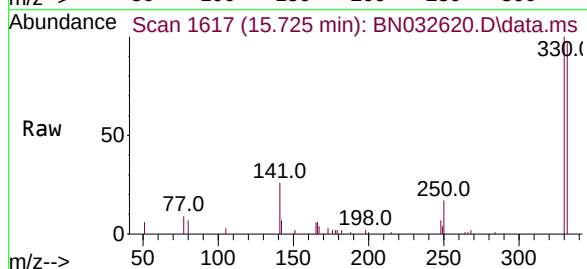
Tgt Ion:164 Resp: 1049
Ion Ratio Lower Upper
164 100
162 101.2 85.0 127.4
160 46.3 39.4 59.2

Manual Integrations
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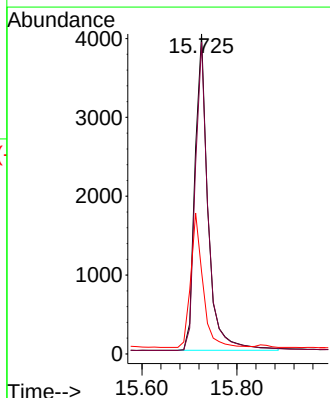
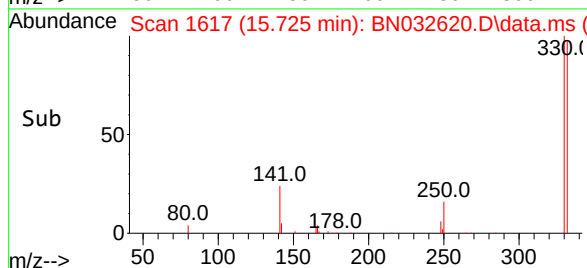
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

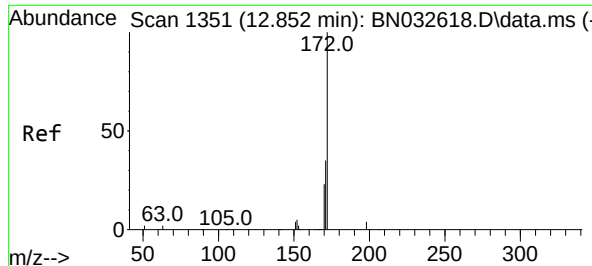


#14
2,4,6-Tribromophenol
Concen: 1.710 ng
RT: 15.725 min Scan# 1617
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19



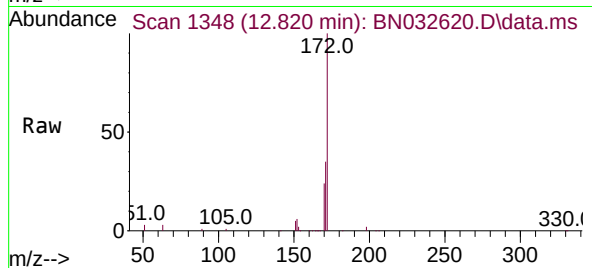
Tgt Ion:330 Resp: 7668
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.8
141 39.6 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 1.662 ng
RT: 12.820 min Scan# 1348
Delta R.T. -0.032 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

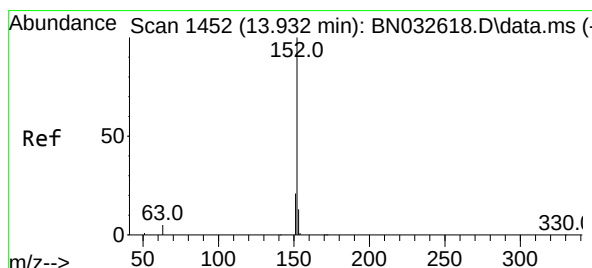
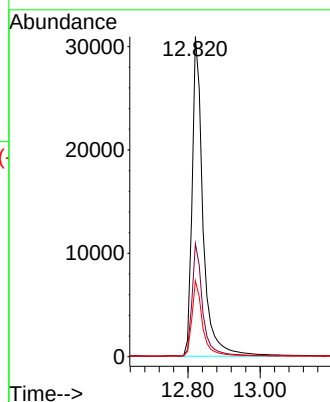
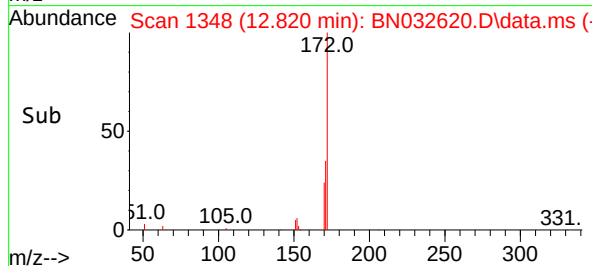
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:172 Resp: 64920
Ion Ratio Lower Upper
172 100
171 35.4 28.6 43.0
170 23.7 19.0 28.6

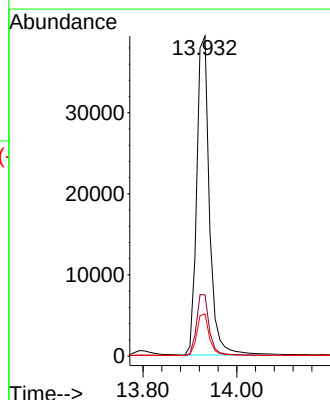
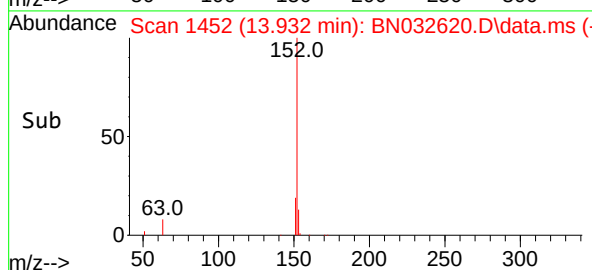
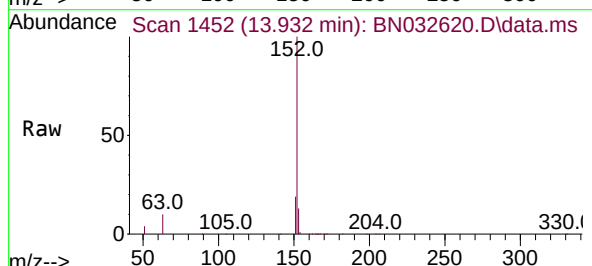
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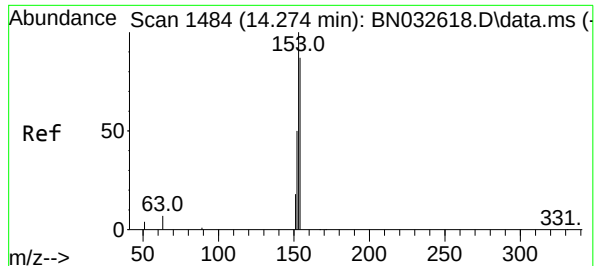
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 1.735 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

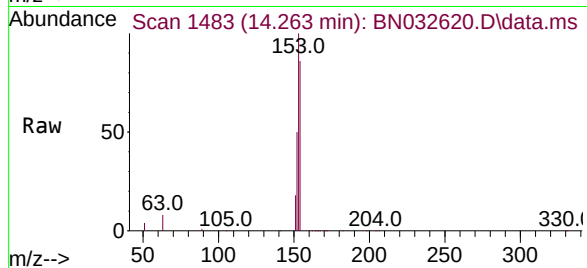
Tgt Ion:152 Resp: 74066
Ion Ratio Lower Upper
152 100
151 19.5 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 1.681 ng
RT: 14.263 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

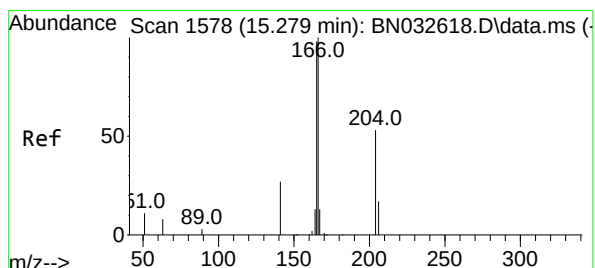
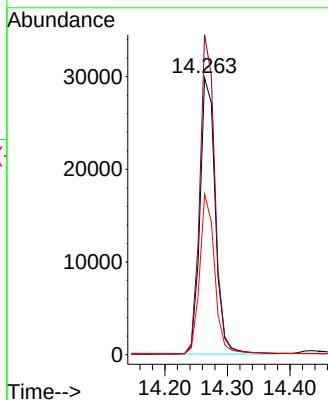
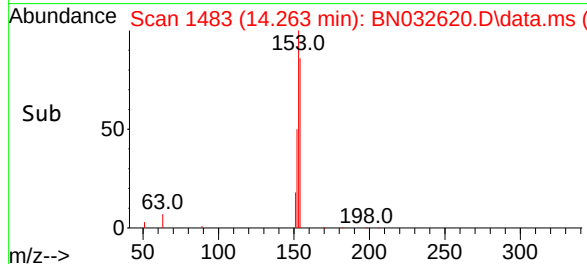
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:154 Resp: 50852
Ion Ratio Lower Upper
154 100
153 113.7 91.8 137.8
152 56.0 45.2 67.8

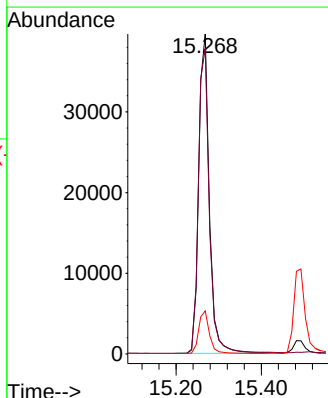
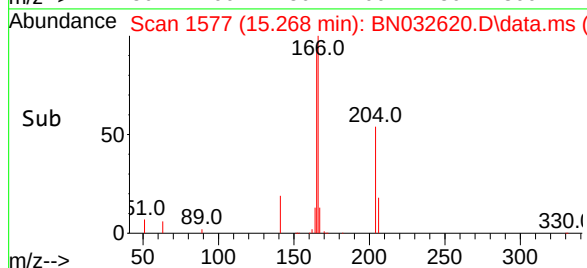
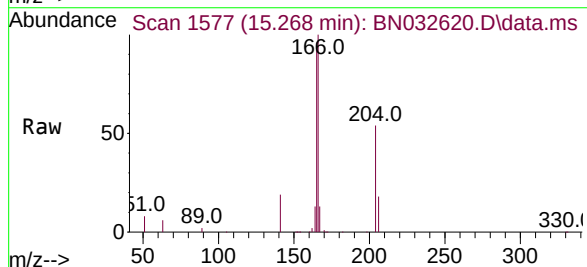
Manual Integrations
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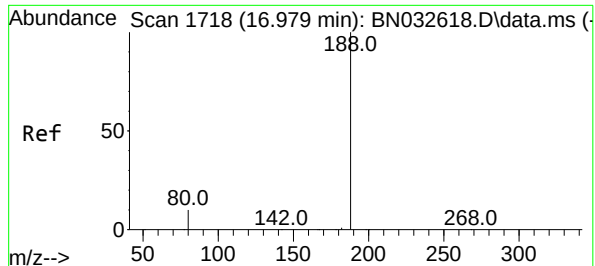
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 1.698 ng
RT: 15.268 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:166 Resp: 68627
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:188 Resp: 2208

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

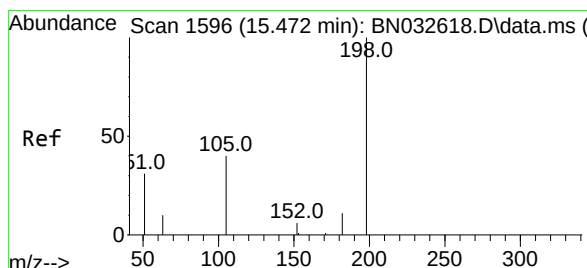
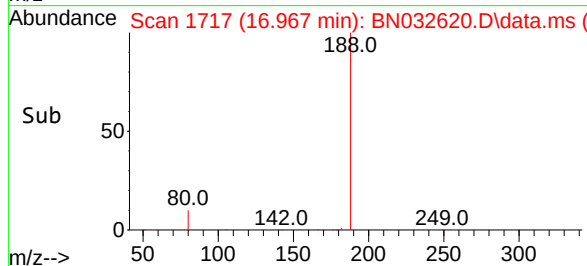
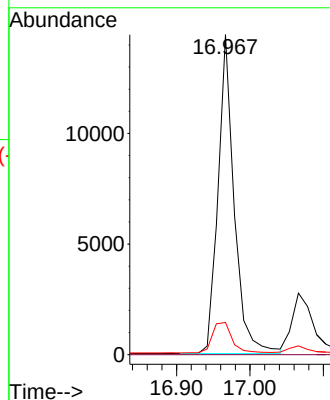
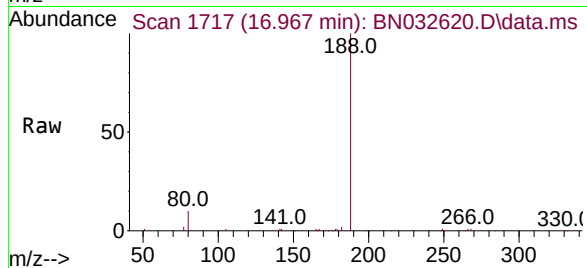
80 10.1 8.8 13.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 1.497 ng m

RT: 15.407 min Scan# 1590

Delta R.T. -0.065 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

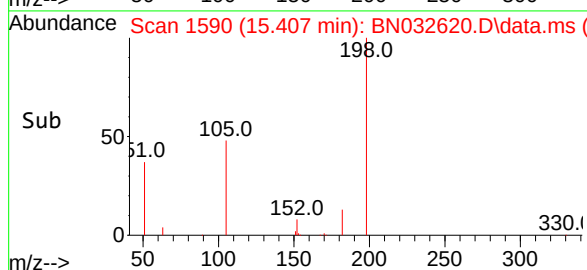
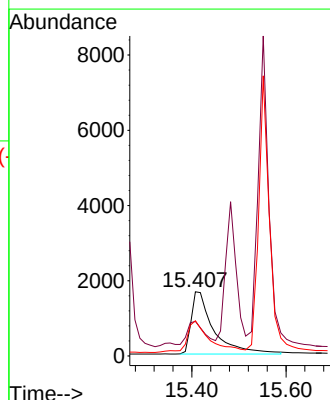
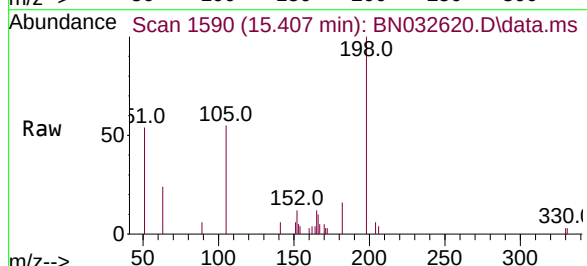
Tgt Ion:198 Resp: 5743

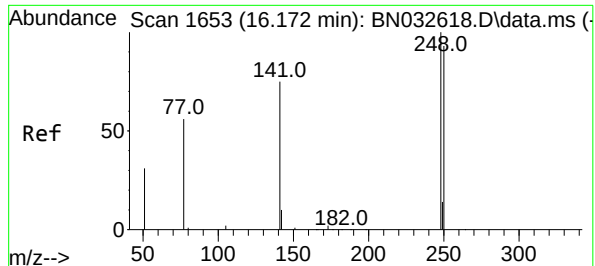
Ion Ratio Lower Upper

198 100

51 53.9 105.7 158.5#

105 54.8 63.0 94.6#





#21
4-Bromophenyl-phenylether
Concen: 1.661 ng
RT: 16.160 min Scan# 1653
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

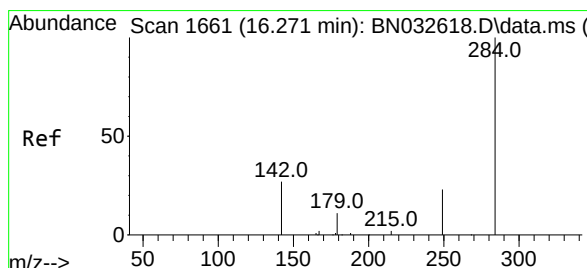
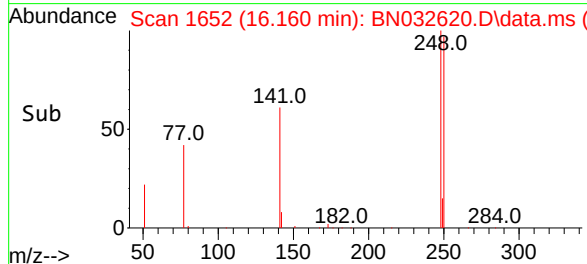
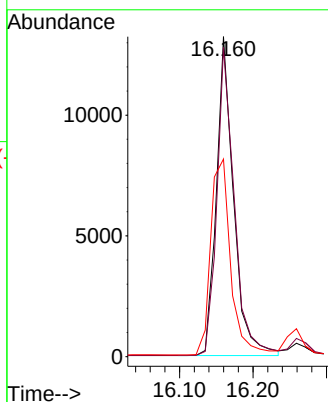
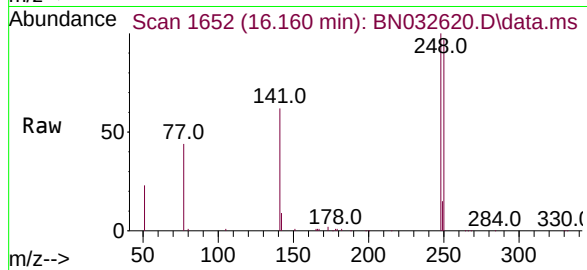
ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.6	75.1	112.7
141	61.8	62.0	93.0

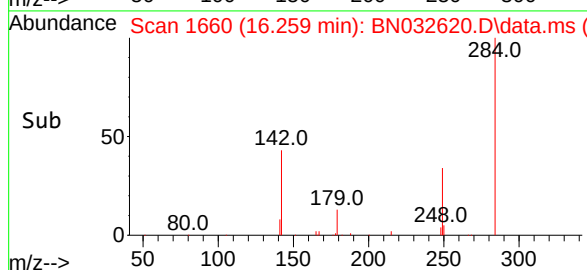
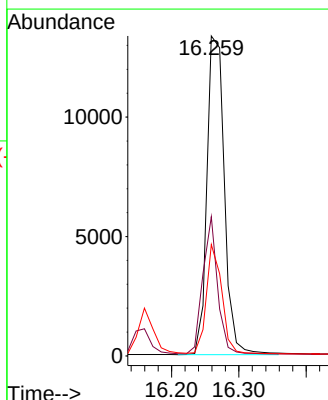
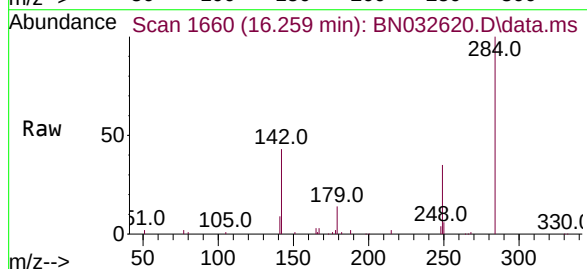
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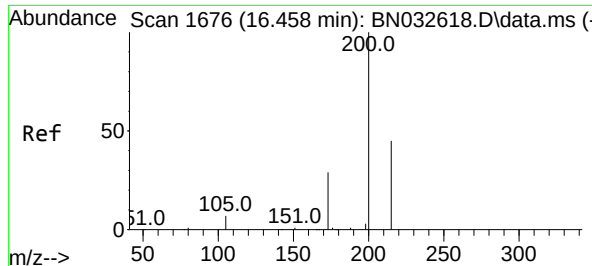
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 1.653 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.4	44.0
249	30.4	24.6	36.8





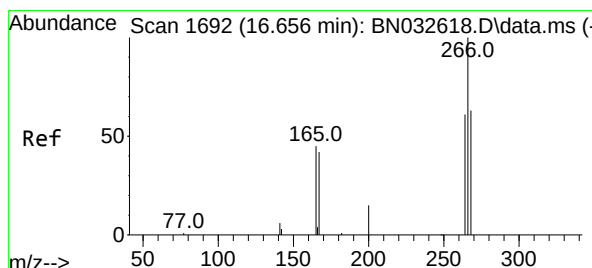
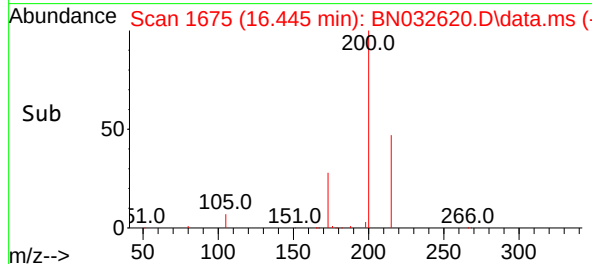
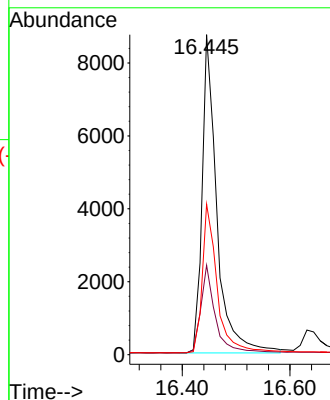
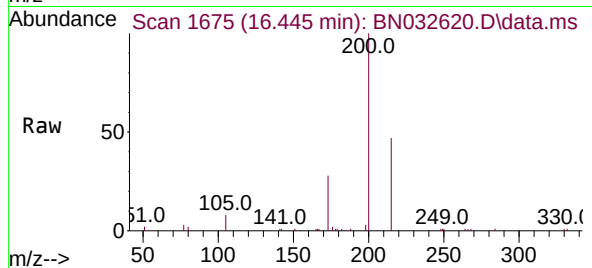
#23
Atrazine
Concen: 1.739 ng
RT: 16.445 min Scan# 16618
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 16618
Ion Ratio Lower Upper
200 100
173 28.0 25.4 38.2
215 47.0 38.2 57.2

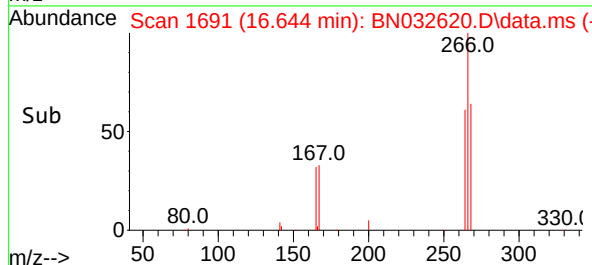
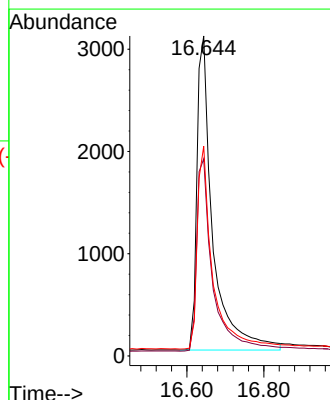
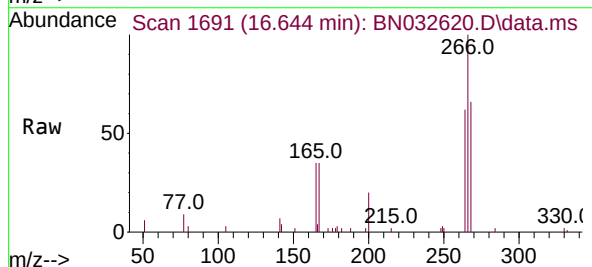
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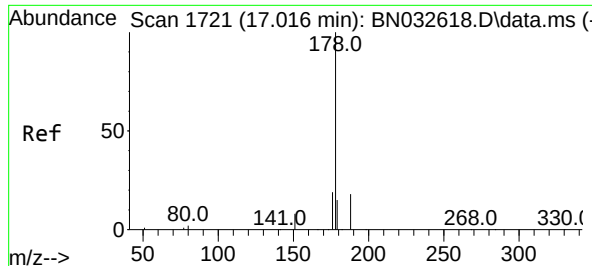
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 1.630 ng
RT: 16.644 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:266 Resp: 8802
Ion Ratio Lower Upper
266 100
264 62.5 50.2 75.2
268 63.6 52.8 79.2





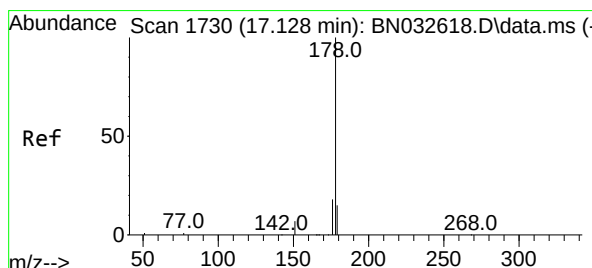
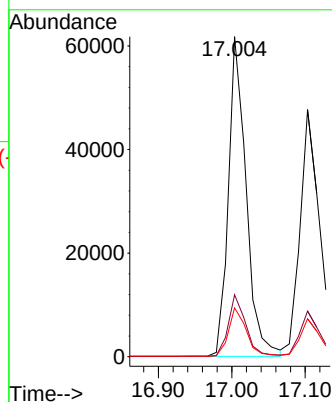
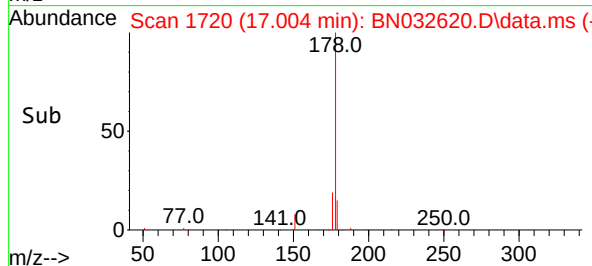
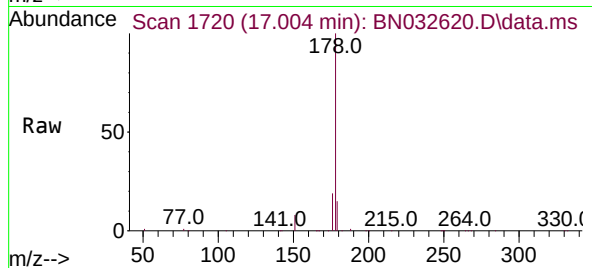
#25
Phenanthrene
Concen: 1.715 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 103504
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.2 12.2 18.4

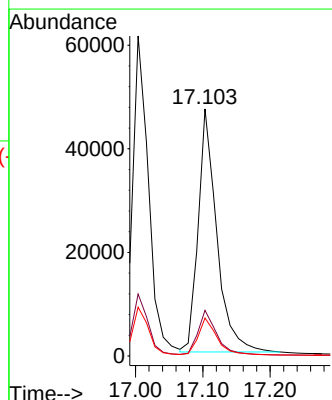
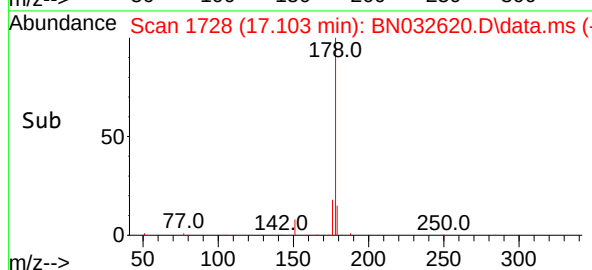
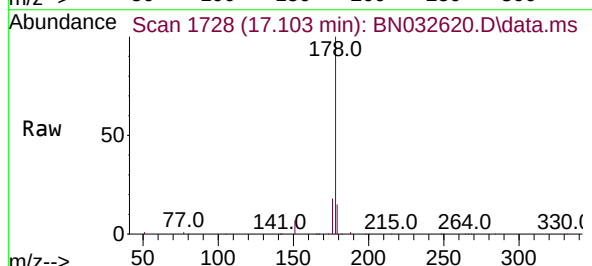
Manual Integrations
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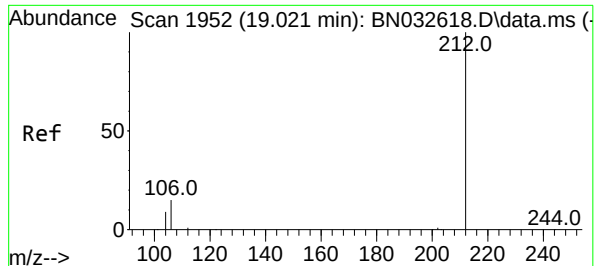
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 1.821 ng
RT: 17.103 min Scan# 1728
Delta R.T. -0.025 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:178 Resp: 90439
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.2 11.8 17.8





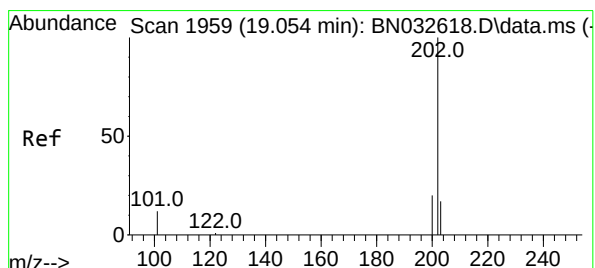
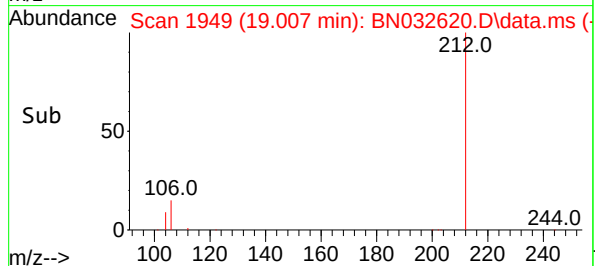
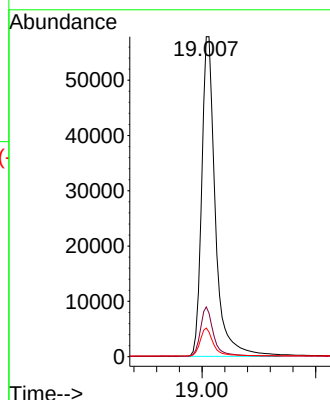
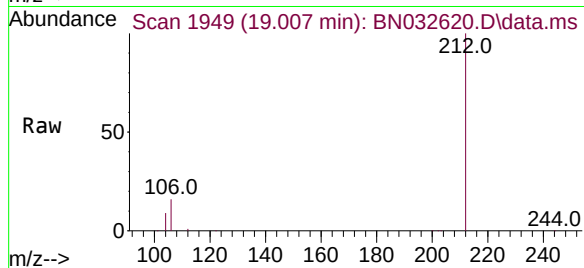
#27
Fluoranthene-d10
Concen: 1.696 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 9687
Ion Ratio Lower Upper
212 100
106 14.9 11.9 17.9
104 8.5 6.9 10.3

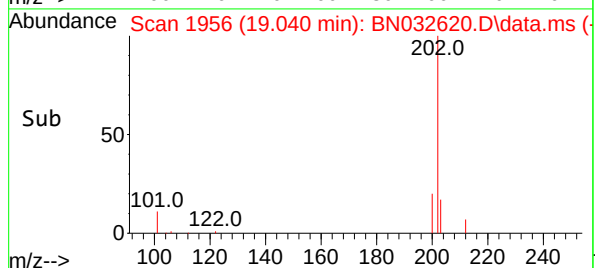
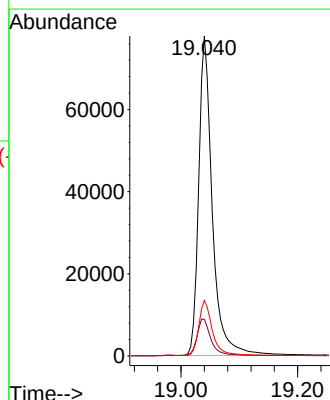
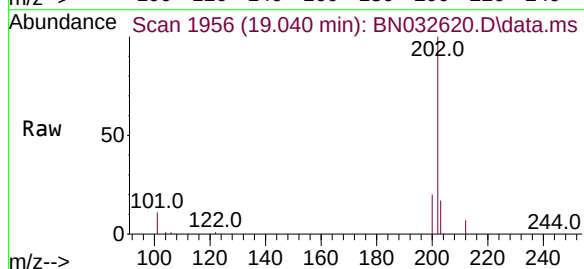
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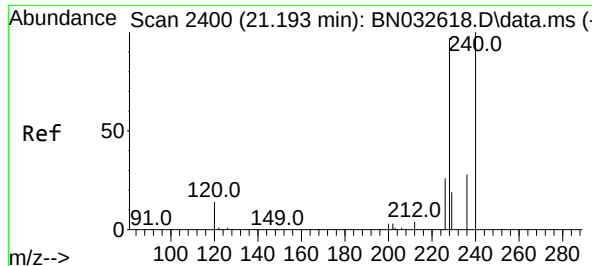
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#28
Fluoranthene
Concen: 1.730 ng
RT: 19.040 min Scan# 1956
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:202 Resp: 126342
Ion Ratio Lower Upper
202 100
101 11.7 9.6 14.4
203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

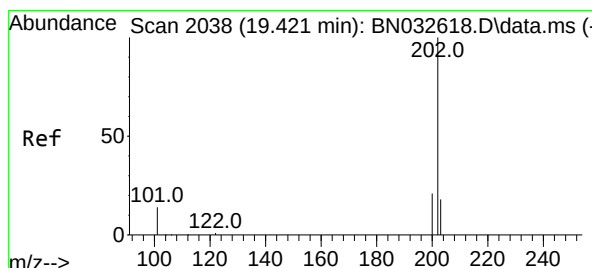
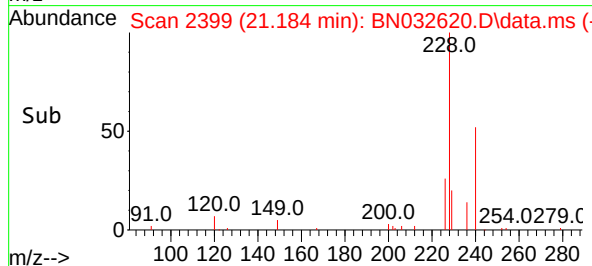
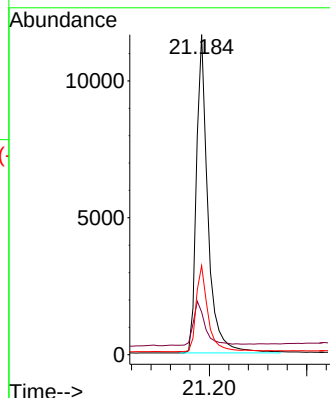
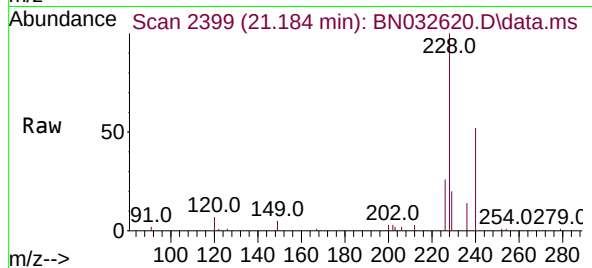
SSTDICC1.6

Tgt Ion:	240	Resp:	19069
Ion Ratio	Lower	Upper	
240	100		
120	13.3	14.8	22.2
236	27.8	23.3	34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 1.641 ng

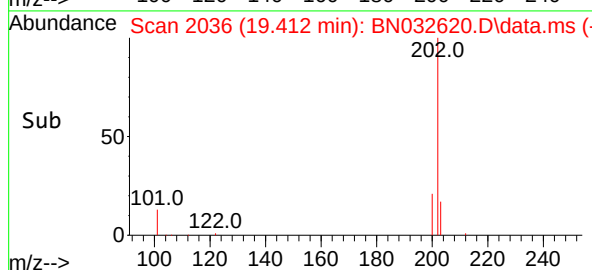
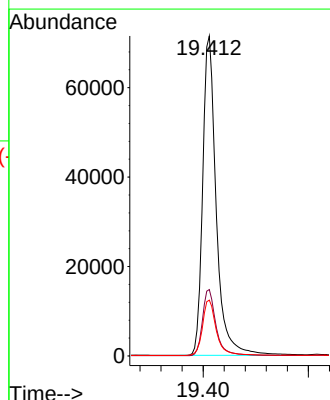
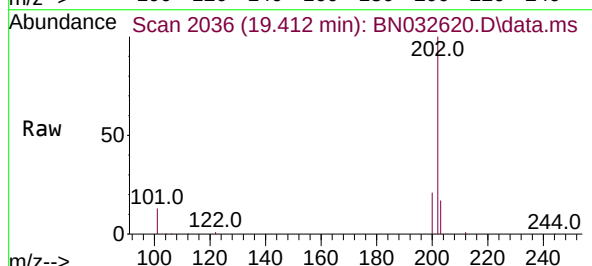
RT: 19.412 min Scan# 2036

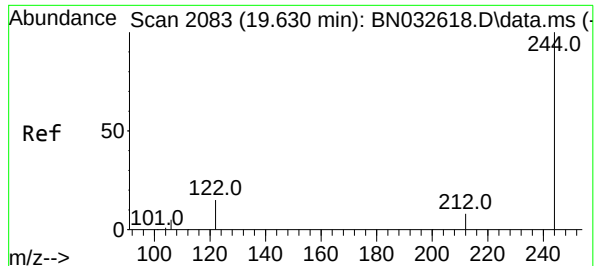
Delta R.T. -0.009 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Tgt Ion:	202	Resp:	127819
Ion Ratio	Lower	Upper	
202	100		
200	20.7	16.6	25.0
203	17.8	14.8	22.2





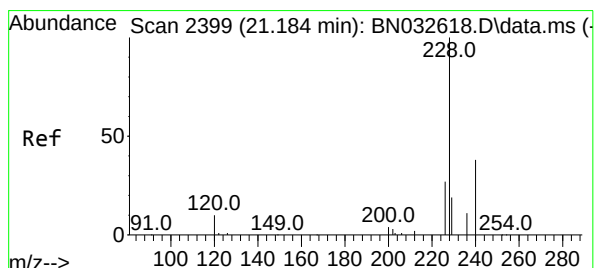
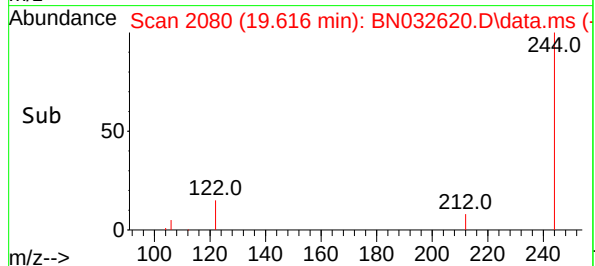
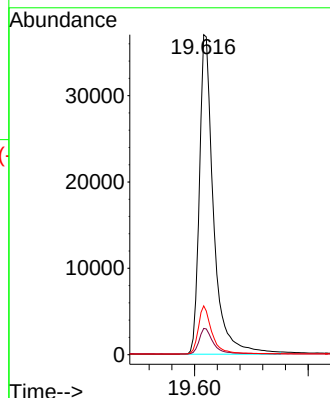
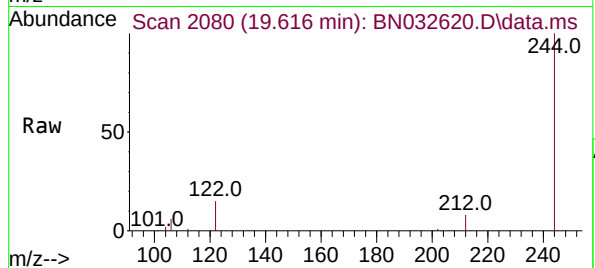
#31
Terphenyl-d14
Concen: 1.641 ng
RT: 19.616 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 64120
Ion Ratio Lower Upper
244 100
212 8.2 7.5 11.3
122 15.2 12.6 19.0

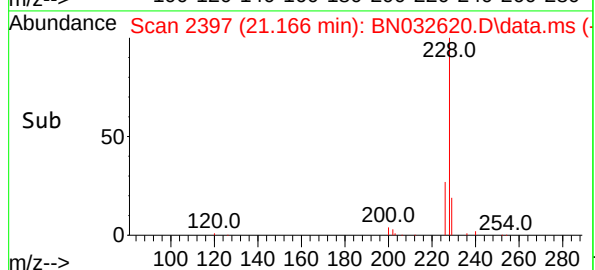
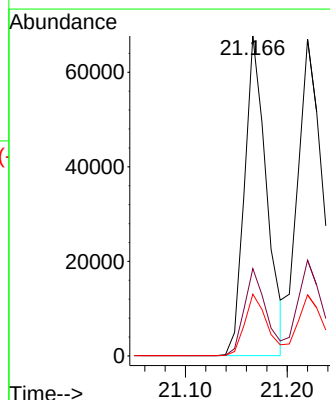
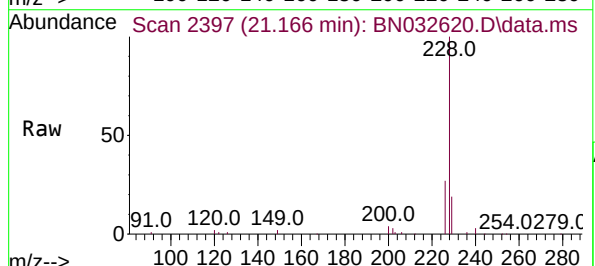
Manual Integrations
APPROVED

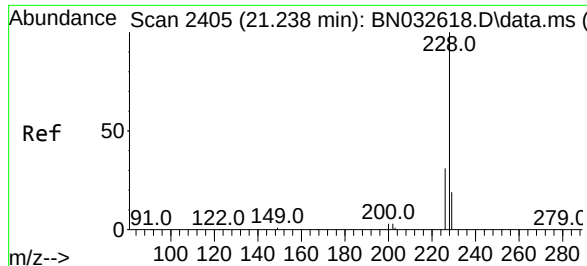
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 1.691 ng
RT: 21.166 min Scan# 2397
Delta R.T. -0.018 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:228 Resp: 101931
Ion Ratio Lower Upper
228 100
226 27.3 21.8 32.6
229 19.3 16.0 24.0





#33

Chrysene

Concen: 1.677 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:228 Resp: 12020

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

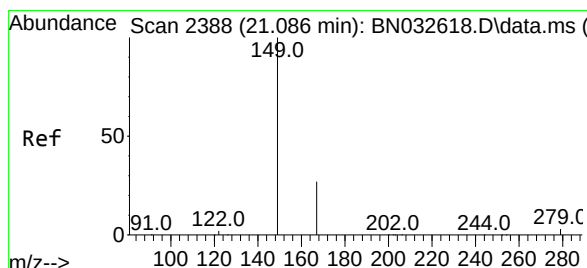
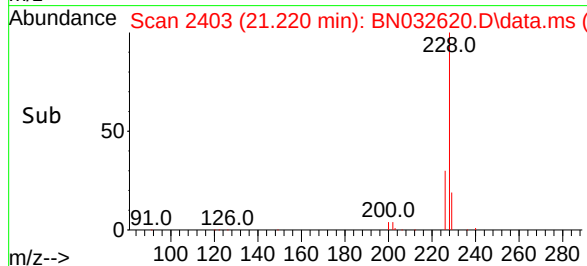
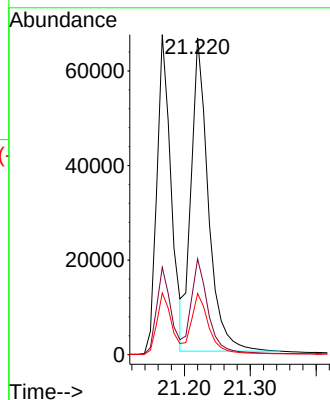
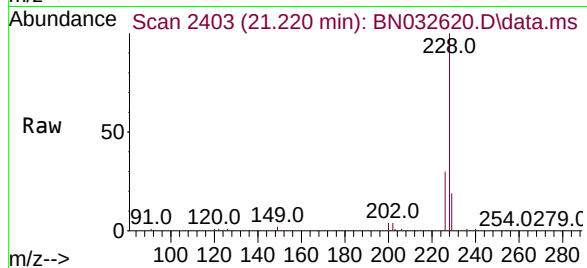
229 19.3 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.625 ng

RT: 21.086 min Scan# 2388

Delta R.T. -0.000 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

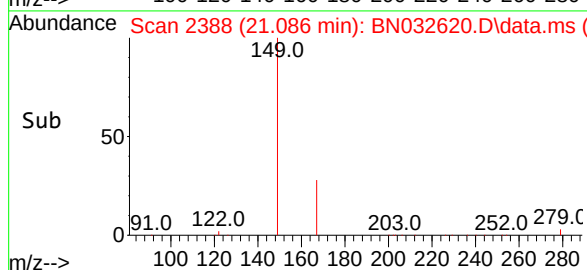
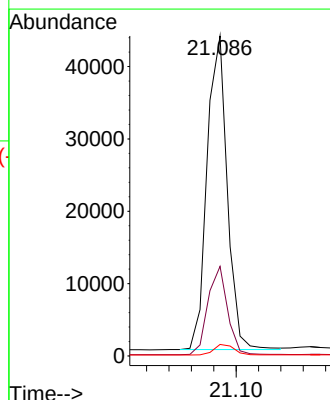
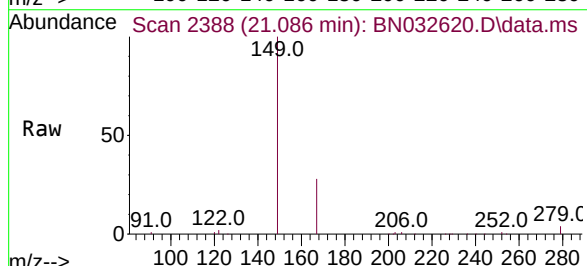
Tgt Ion:149 Resp: 54241

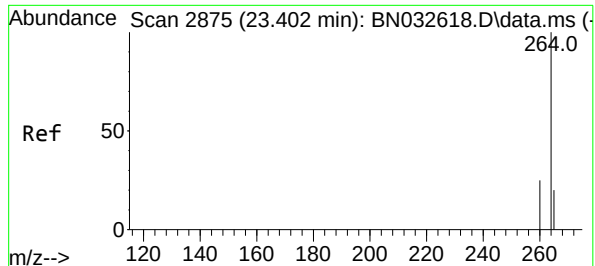
Ion Ratio Lower Upper

149 100

167 27.5 21.4 32.2

279 3.4 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.393 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:264 Resp: 17498

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

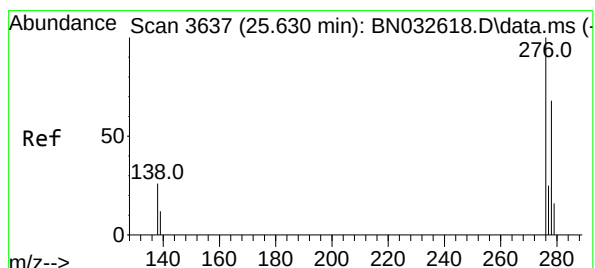
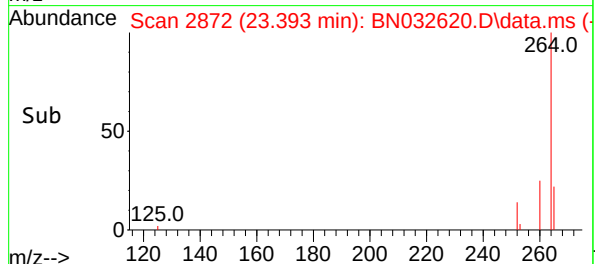
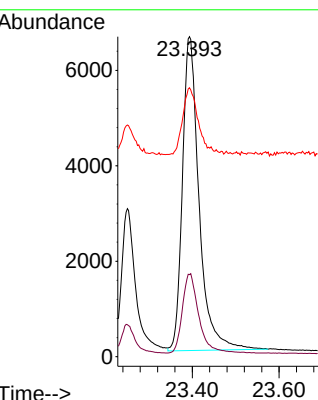
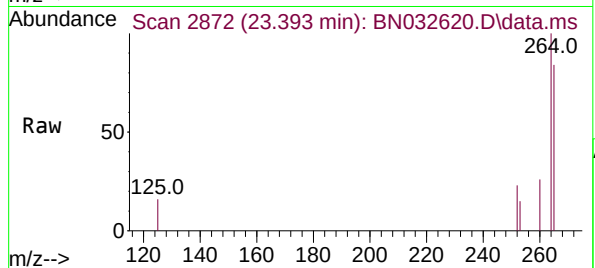
265 84.1 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.653 ng

RT: 25.598 min Scan# 3626

Delta R.T. -0.032 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

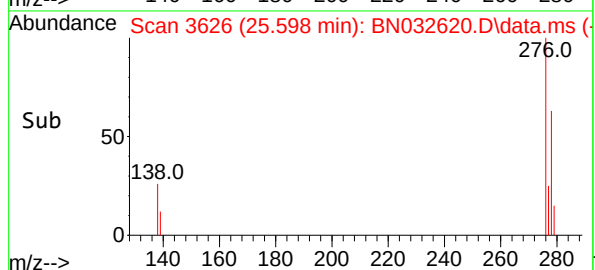
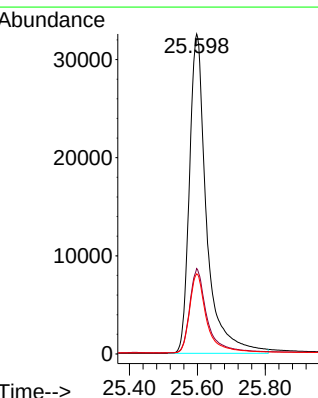
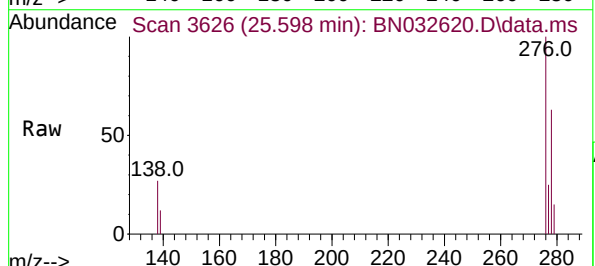
Tgt Ion:276 Resp: 114048

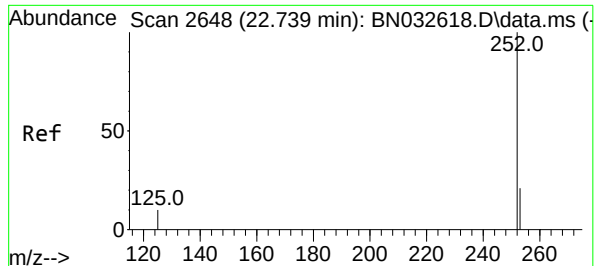
Ion Ratio Lower Upper

276 100

138 27.1 21.0 31.4

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.799 ng

RT: 22.724 min Scan# 2643

Delta R.T. -0.015 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:252 Resp: 109630

Ion Ratio Lower Upper

252 100

253 22.4 22.3 33.5

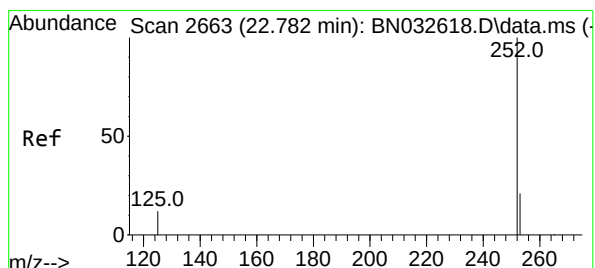
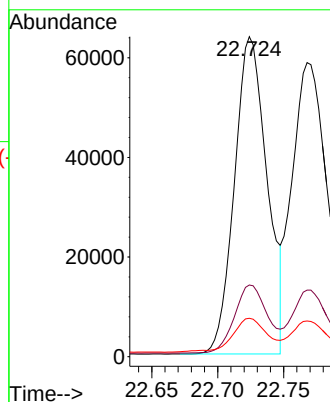
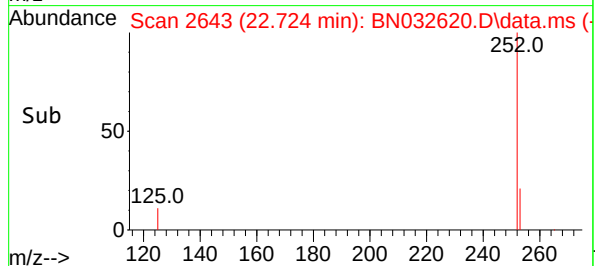
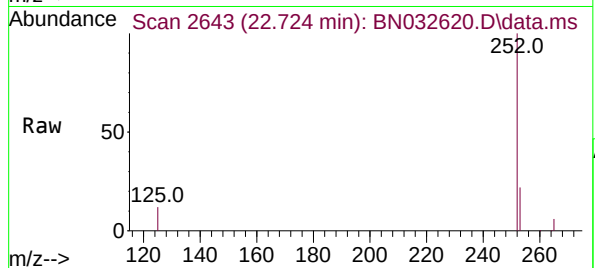
125 12.0 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 1.670 ng

RT: 22.768 min Scan# 2658

Delta R.T. -0.015 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

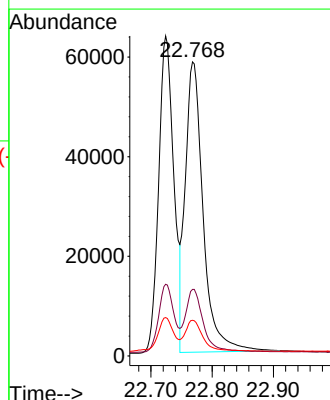
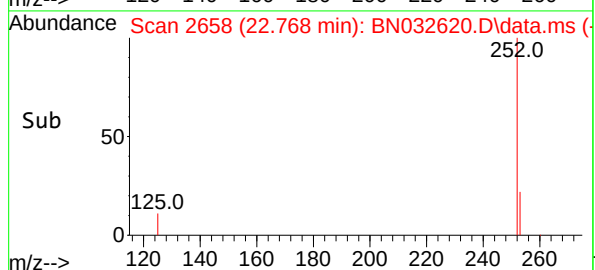
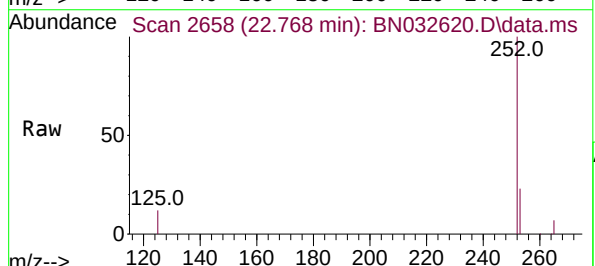
Tgt Ion:252 Resp: 117877

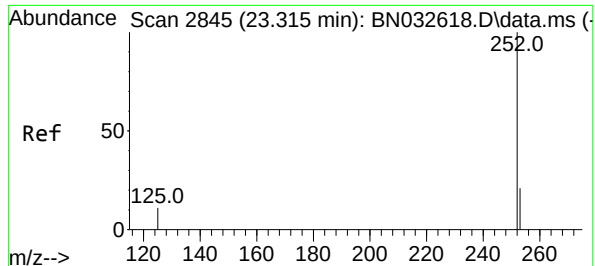
Ion Ratio Lower Upper

252 100

253 22.7 22.6 34.0

125 12.1 16.2 24.4





#39

Benzo(a)pyrene

Concen: 1.711 ng

RT: 23.294 min Scan# 2838

Delta R.T. -0.020 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

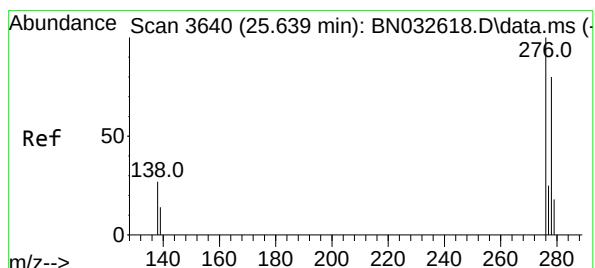
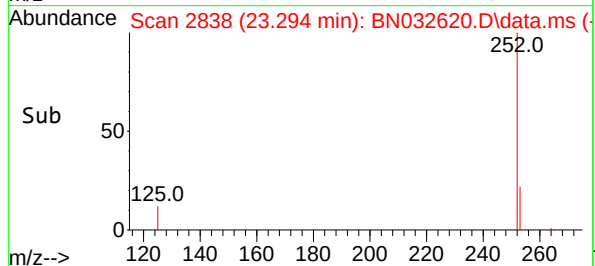
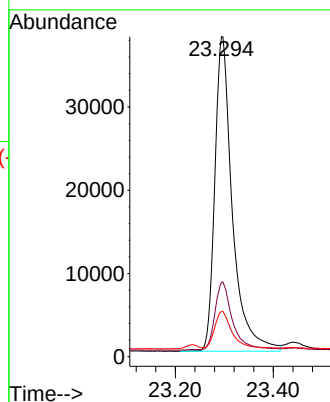
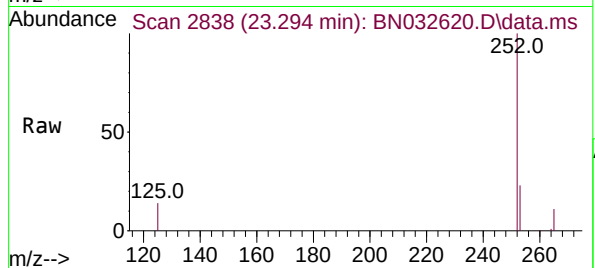
Tgt Ion:	252	Resp:	94030
Ion Ratio	Lower	Upper	
252	100		
253	23.2	25.8	38.8
125	14.1	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 1.662 ng

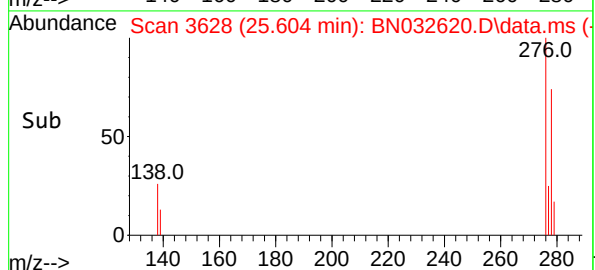
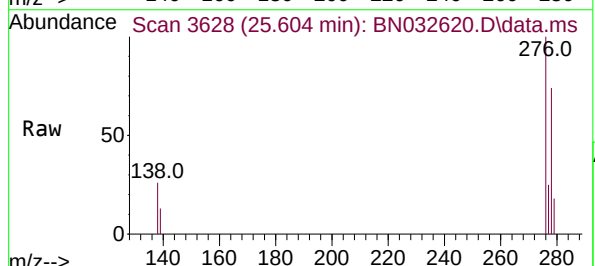
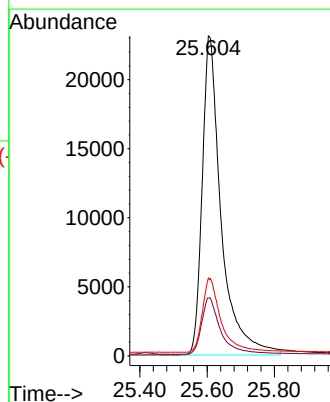
RT: 25.604 min Scan# 3628

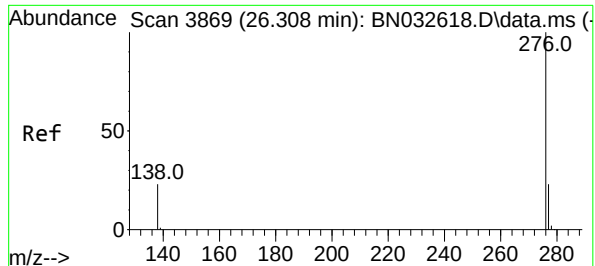
Delta R.T. -0.035 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Tgt Ion:	278	Resp:	90541
Ion Ratio	Lower	Upper	
278	100		
139	18.0	16.7	25.1
279	24.4	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 1.617 ng

RT: 26.279 min Scan# 3869

Delta R.T. -0.029 min

Lab File: BN032620.D

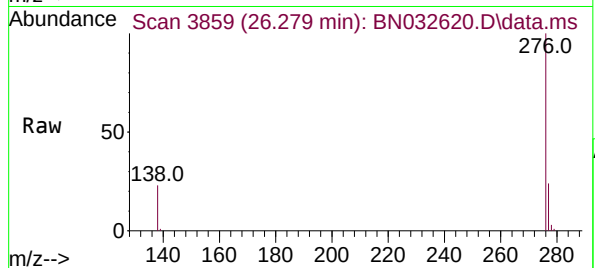
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 97579

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

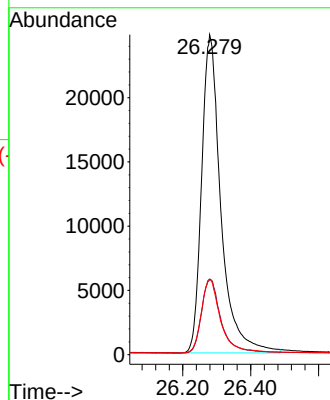
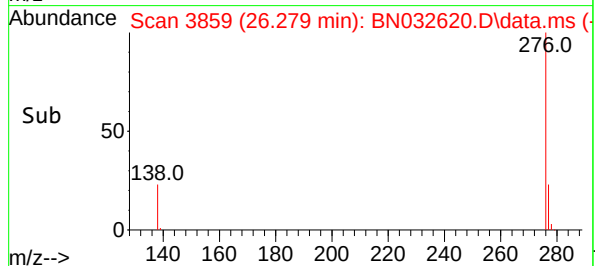
138 23.5 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032621.D
 Acq On : 10 Jul 2024 18:56
 Operator : MA/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:41:59 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	5148	0.400	ng	0.00
7) Naphthalene-d8	10.336	136	15631	0.400	ng	#-0.02
13) Acenaphthene-d10	14.199	164	9709	0.400	ng	-0.01
19) Phenanthrene-d10	16.967	188	18842	0.400	ng	-0.01
29) Chrysene-d12	21.175	240	16714	0.400	ng	-0.02
35) Perylene-d12	23.388	264	16268	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	40097	3.079	ng	-0.02
5) Phenol-d6	6.758	99	52791	3.266	ng	-0.04
8) Nitrobenzene-d5	8.723	82	38812	3.298	ng	-0.05
11) 2-Methylnaphthalene-d10	11.930	152	74580	3.119	ng	-0.03
14) 2,4,6-Tribromophenol	15.713	330	13424	3.235	ng	-0.02
15) 2-Fluorobiphenyl	12.820	172	114558	3.170	ng	-0.03
27) Fluoranthene-d10	19.007	212	153406	3.147	ng	-0.01
31) Terphenyl-d14	19.616	244	99456	2.903	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.139	88	17862	2.801	ng	97
3) n-Nitrosodimethylamine	3.450	42	16465	3.054	ng	100
6) bis(2-Chloroethyl)ether	7.003	93	43724	3.235	ng	# 89
9) Naphthalene	10.378	128	133924	3.094	ng	97
10) Hexachlorobutadiene	10.645	225	24597	2.974	ng	# 100
12) 2-Methylnaphthalene	12.005	142	90046	3.184	ng	97
16) Acenaphthylene	13.921	152	133466	3.379	ng	99
17) Acenaphthene	14.264	154	88097	3.148	ng	99
18) Fluorene	15.258	166	114165	3.052	ng	99
20) 4,6-Dinitro-2-methylph...	15.407	198	10758m	2.946	ng	
21) 4-Bromophenyl-phenylether	16.160	248	35760	3.230	ng	# 81
22) Hexachlorobenzene	16.259	284	39428	3.180	ng	99
23) Atrazine	16.445	200	26652	3.269	ng	95
24) Pentachlorophenol	16.631	266	15508	3.366	ng	99
25) Phenanthrene	17.004	178	167069	3.244	ng	100
26) Anthracene	17.103	178	150897	3.560	ng	99
28) Fluoranthene	19.040	202	198327	3.183	ng	100
30) Pyrene	19.407	202	201324	2.949	ng	99
32) Benzo(a)anthracene	21.166	228	175540	3.322	ng	99
33) Chrysene	21.220	228	186845	2.974	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	93981	3.212	ng	100
36) Indeno(1,2,3-cd)pyrene	25.586	276	221820	3.459	ng	99
37) Benzo(b)fluoranthene	22.718	252	186633	3.294	ng	# 86
38) Benzo(k)fluoranthene	22.762	252	203131m	3.095	ng	
39) Benzo(a)pyrene	23.288	252	165565	3.240	ng	# 78
40) Dibenzo(a,h)anthracene	25.595	278	177246	3.500	ng	# 90
41) Benzo(g,h,i)perylene	26.265	276	191262	3.409	ng	96

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

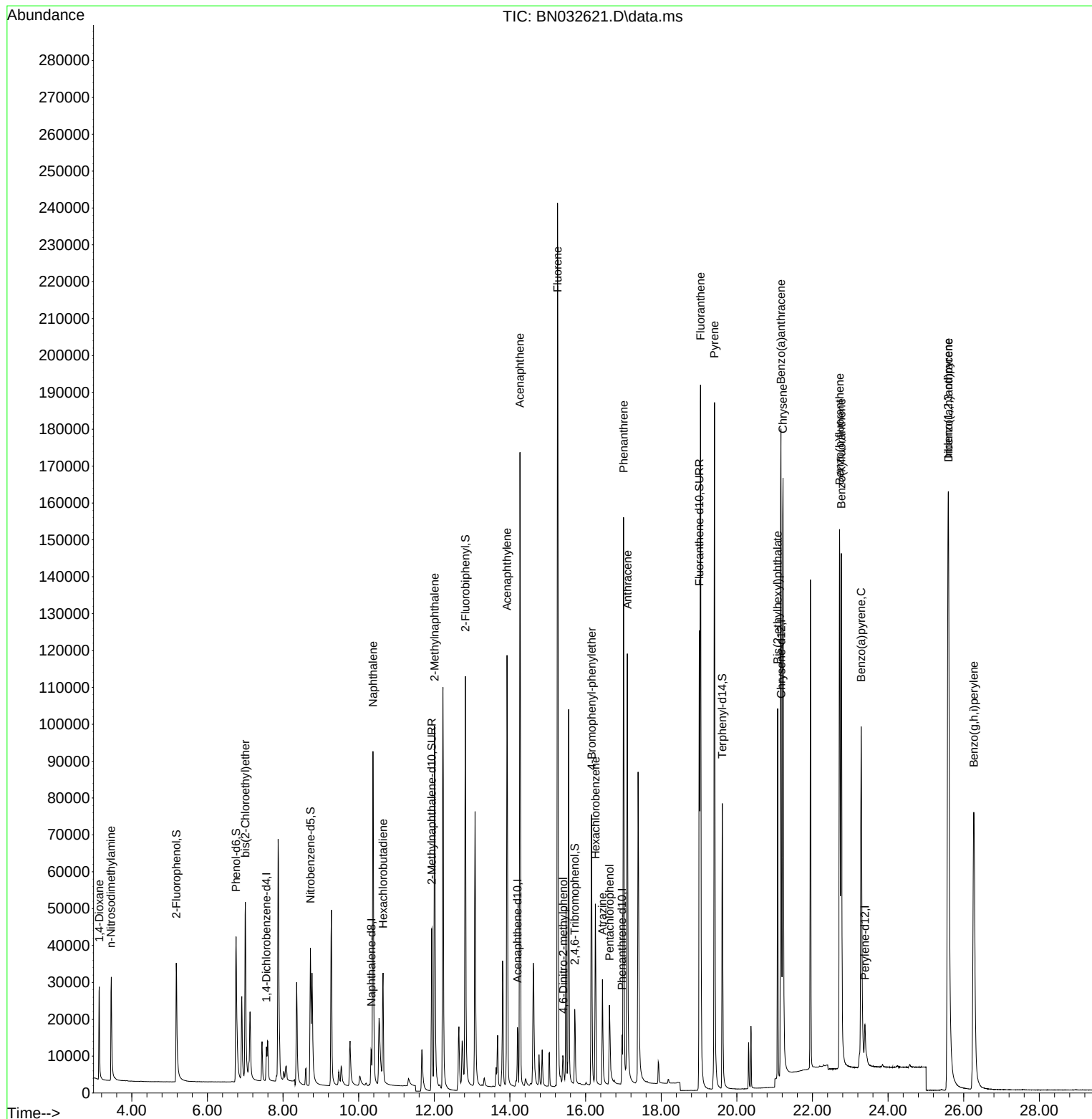
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032621.D
Acq On : 10 Jul 2024 18:56
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

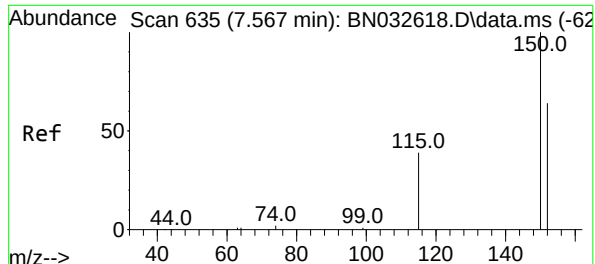
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

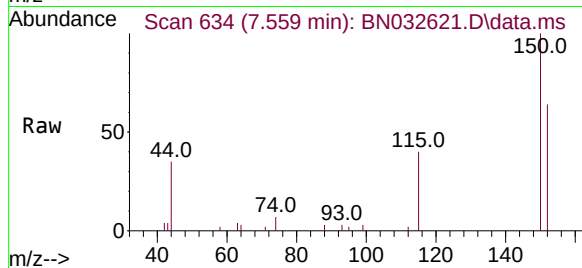
Quant Time: Jul 10 23:41:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

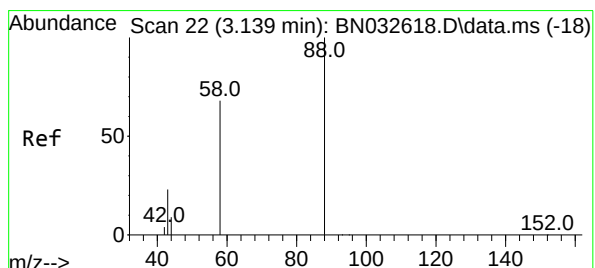
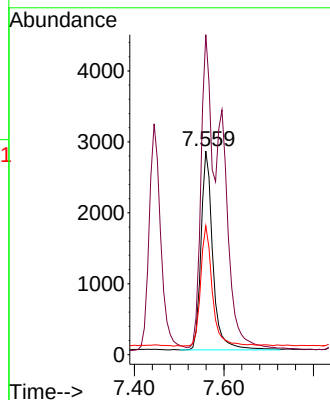
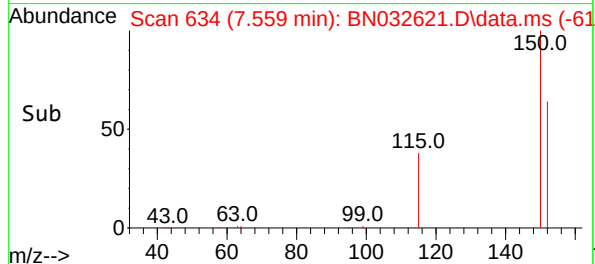
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 514
Ion Ratio Lower Upper
152 100
150 157.1 123.8 185.6
115 63.2 52.8 79.2

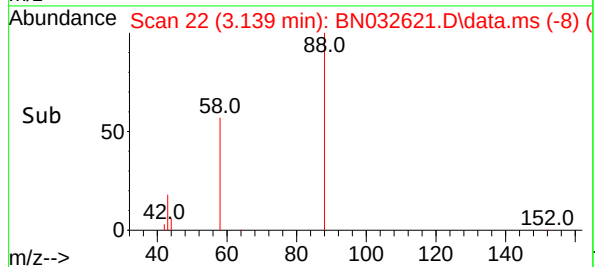
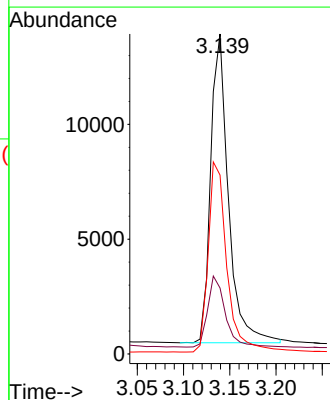
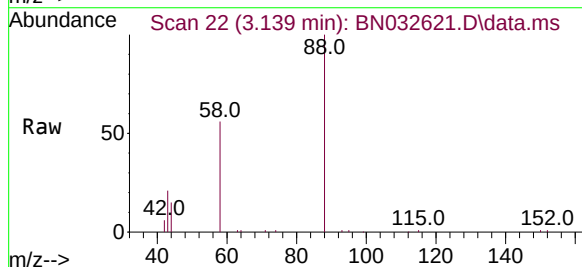
Manual Integrations
APPROVED

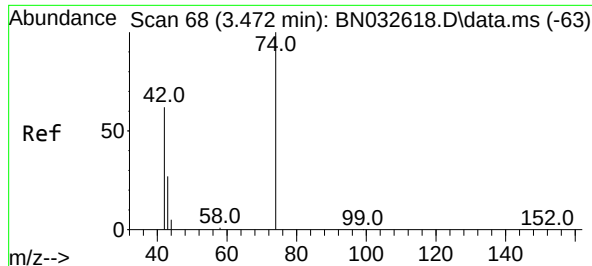
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 2.801 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion: 88 Resp: 17862
Ion Ratio Lower Upper
88 100
43 22.9 18.4 27.6
58 64.7 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 3.054 ng
RT: 3.450 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

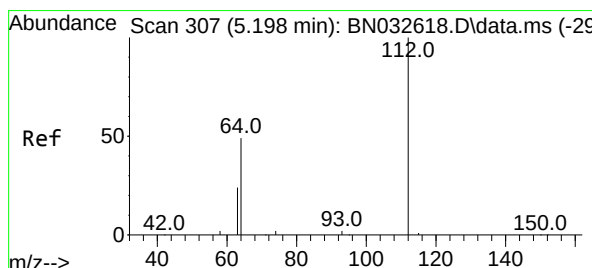
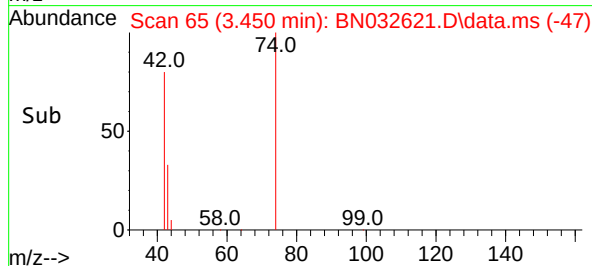
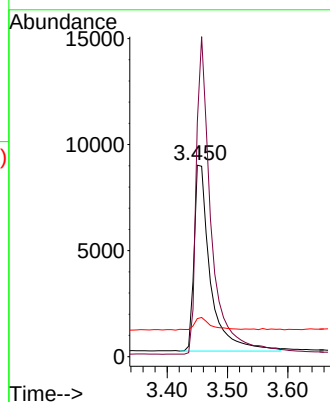
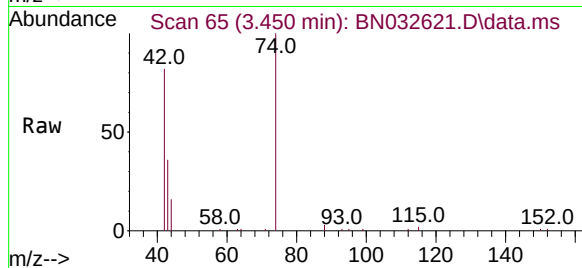
SSTDICC3.2

Tgt Ion: 42 Resp: 1646
Ion Ratio Lower Upper
42 100
74 158.7 126.9 190.3
44 7.1 4.8 7.2

Manual Integrations
APPROVED

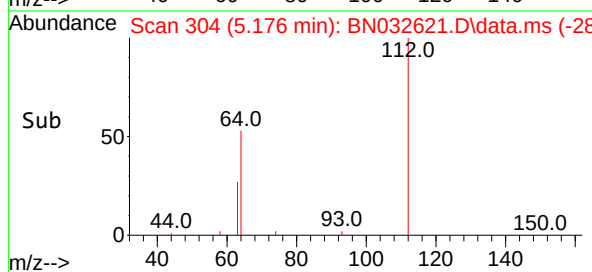
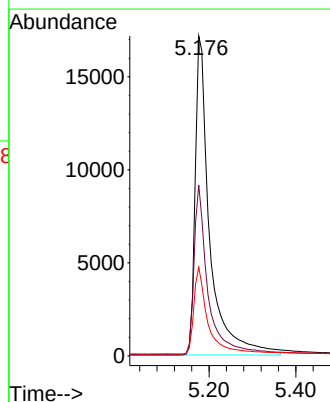
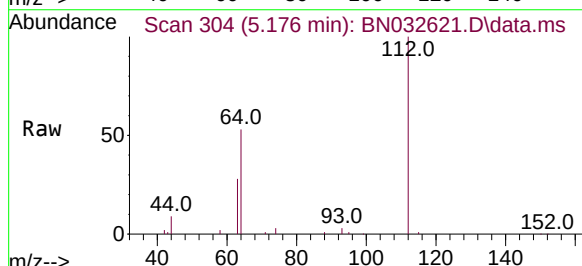
Reviewed By :Yogesh Patel 07/11/2024

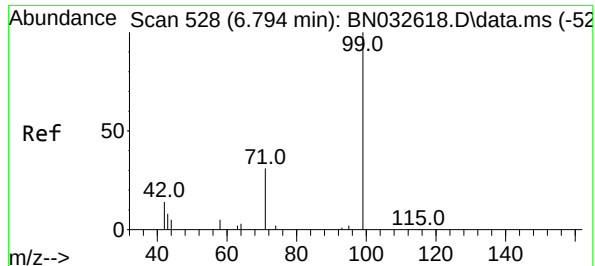
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 3.079 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.022 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:112 Resp: 40097
Ion Ratio Lower Upper
112 100
64 51.3 40.2 60.4
63 26.4 22.2 33.4





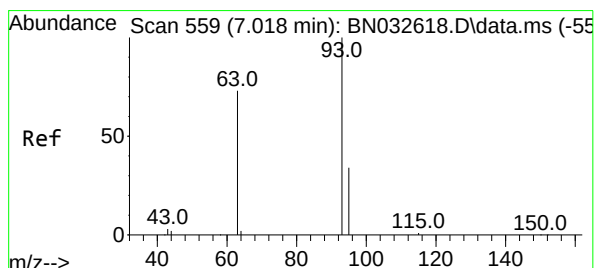
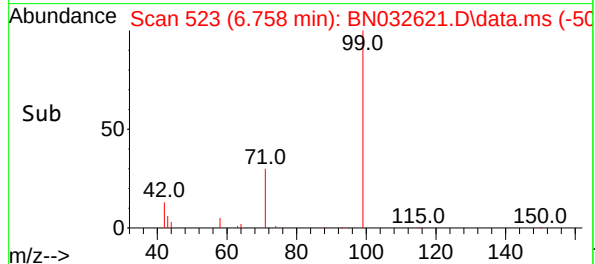
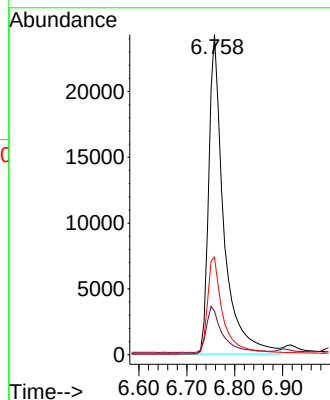
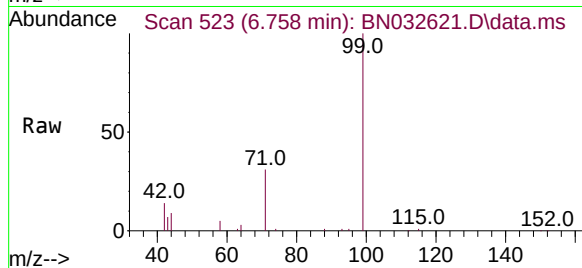
#5
Phenol-d6
Concen: 3.266 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 5279
Ion Ratio Lower Upper
99 100
42 15.3 10.5 15.7
71 32.2 22.3 33.5

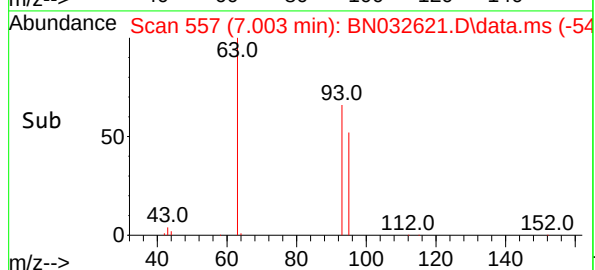
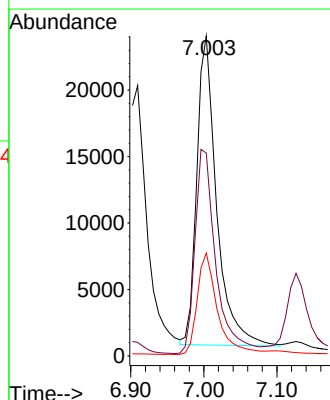
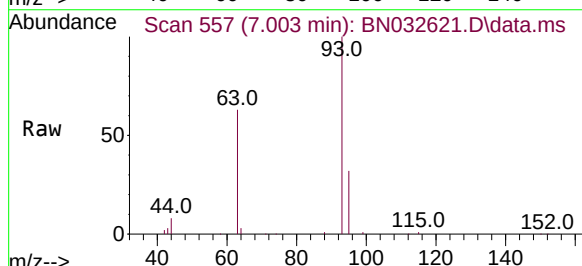
Manual Integrations
APPROVED

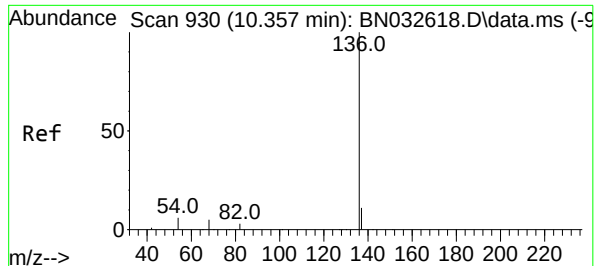
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 3.235 ng
RT: 7.003 min Scan# 557
Delta R.T. -0.014 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion: 93 Resp: 43724
Ion Ratio Lower Upper
93 100
63 69.7 46.4 69.6#
95 33.6 25.5 38.3





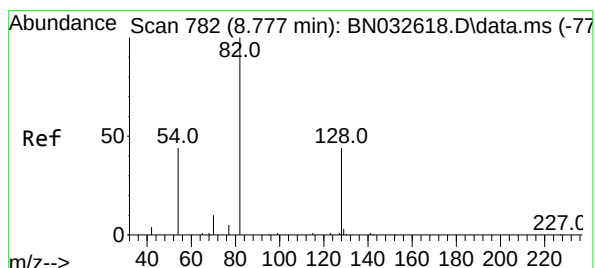
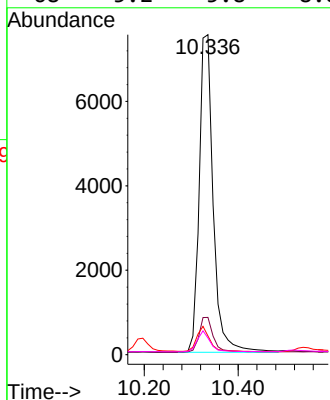
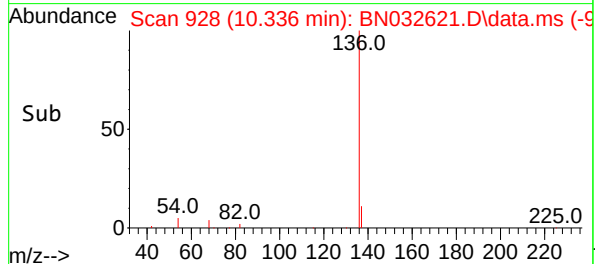
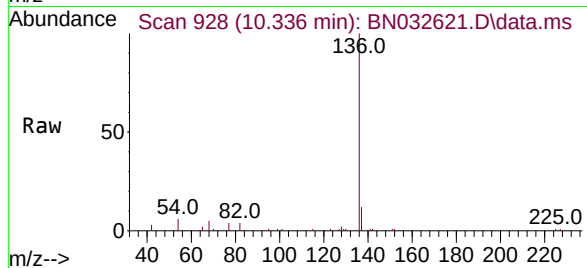
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.336 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.9	14.9
54	5.9	6.5	9.7
68	5.2	5.8	8.8

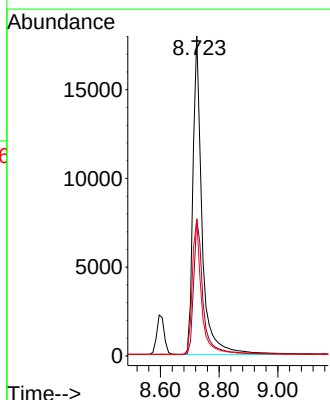
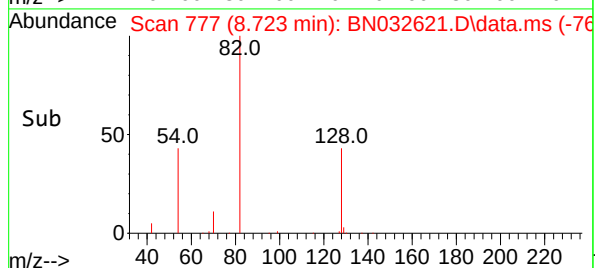
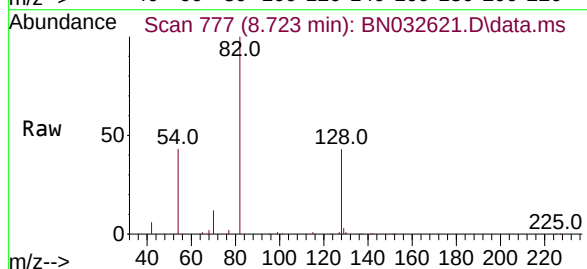
Manual Integrations
APPROVED

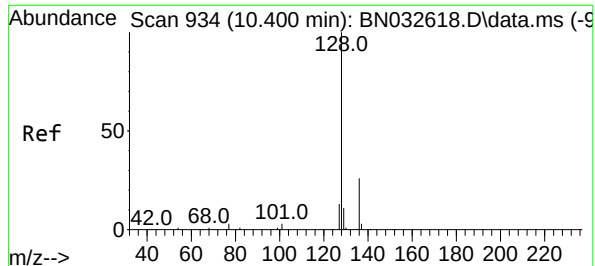
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 3.298 ng
RT: 8.723 min Scan# 777
Delta R.T. -0.053 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.9	41.7	62.5
54	42.7	39.5	59.3





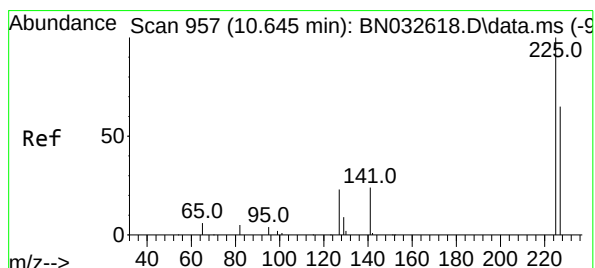
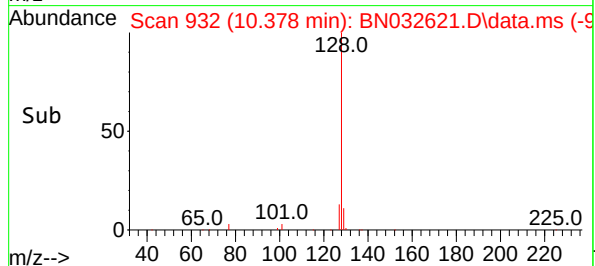
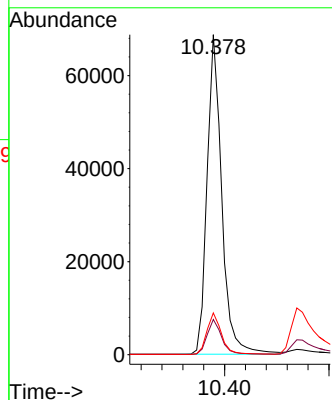
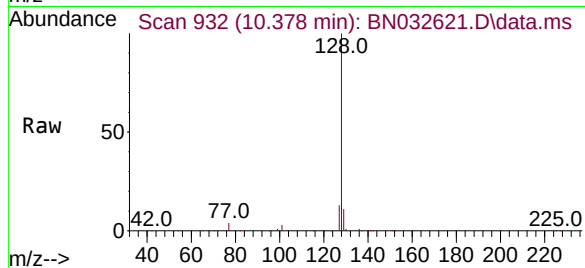
#9
Naphthalene
Concen: 3.094 ng
RT: 10.378 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 133924
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.8
127 13.0 11.5 17.3

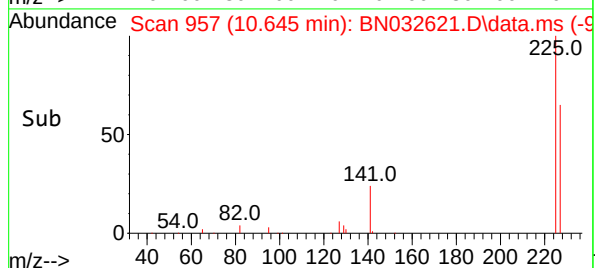
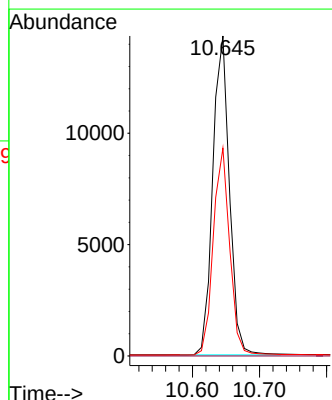
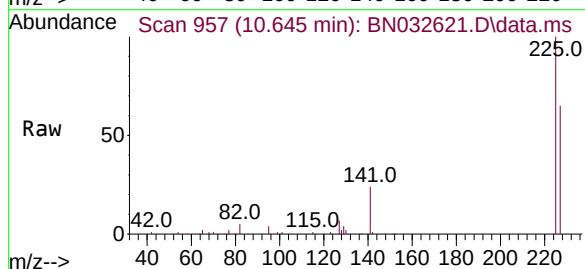
Manual Integrations
APPROVED

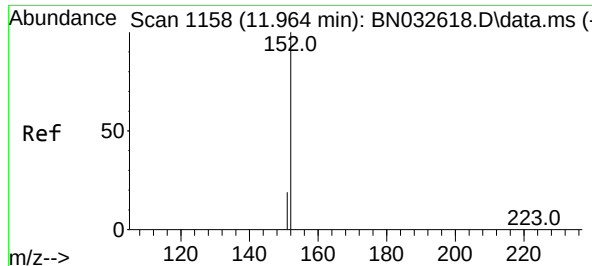
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 2.974 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

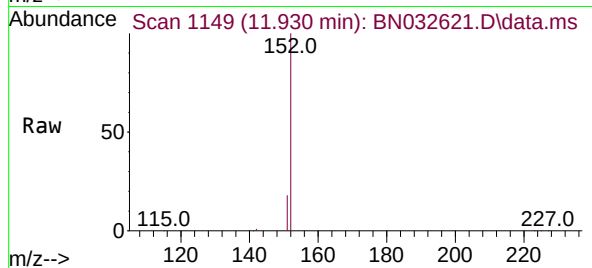
Tgt Ion:225 Resp: 24597
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 3.119 ng
RT: 11.930 min Scan# 1149
Delta R.T. -0.034 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

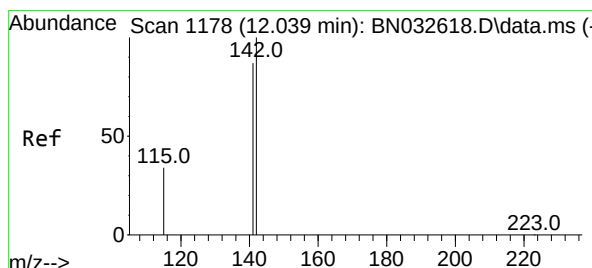
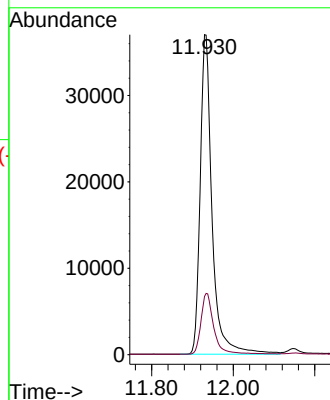
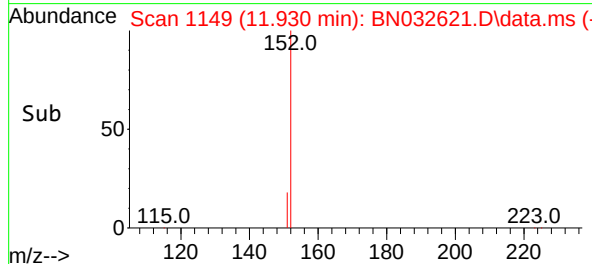
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 74580
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

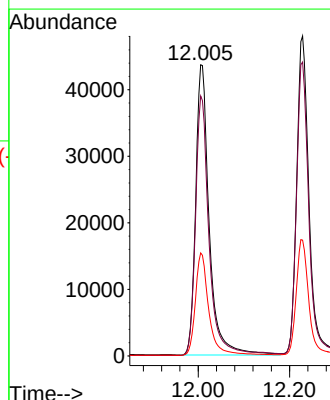
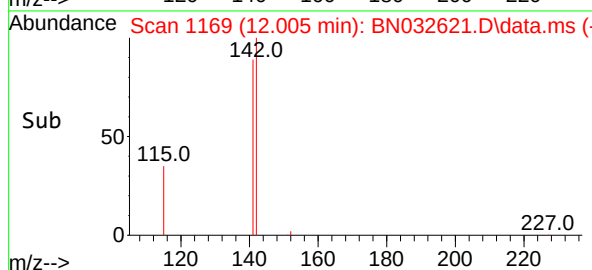
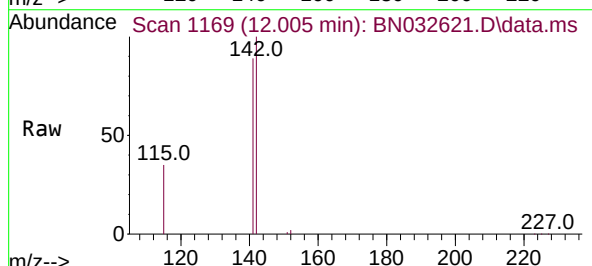
Manual Integrations
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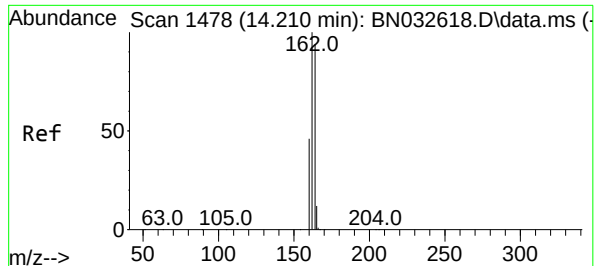
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 3.184 ng
RT: 12.005 min Scan# 1169
Delta R.T. -0.034 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

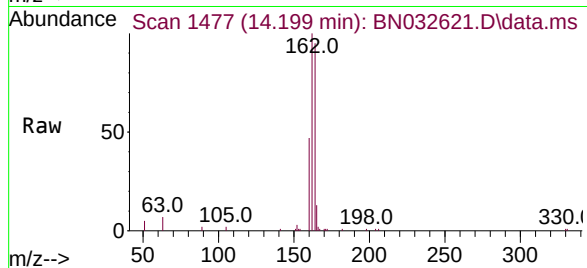
Tgt Ion:142 Resp: 90046
Ion Ratio Lower Upper
142 100
141 89.3 69.3 103.9
115 35.4 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1478
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

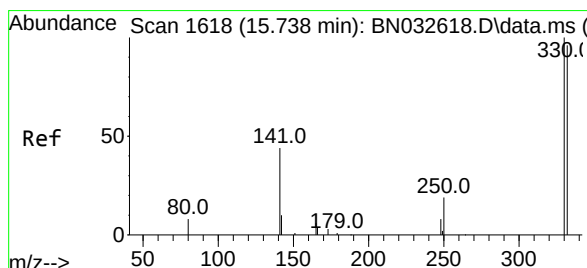
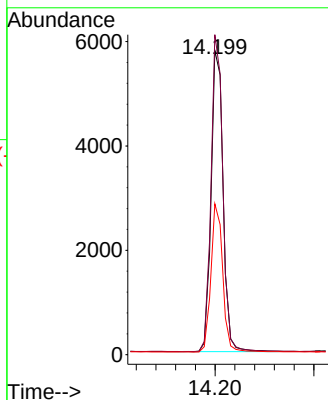
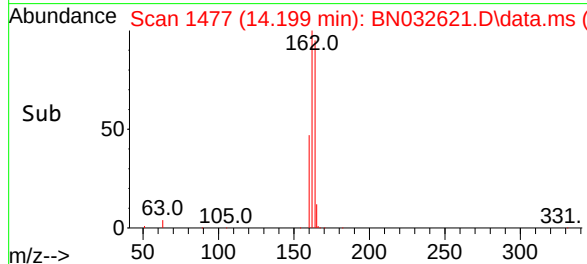
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



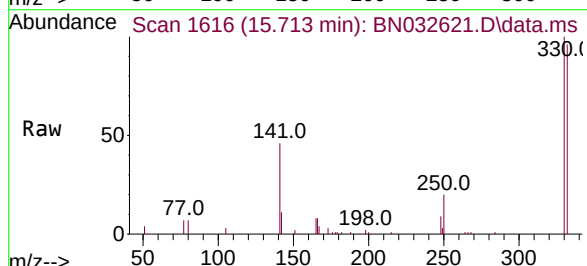
Tgt Ion:164 Resp: 9709
Ion Ratio Lower Upper
164 100
162 105.2 85.0 127.4
160 49.6 39.4 59.2

Manual Integrations
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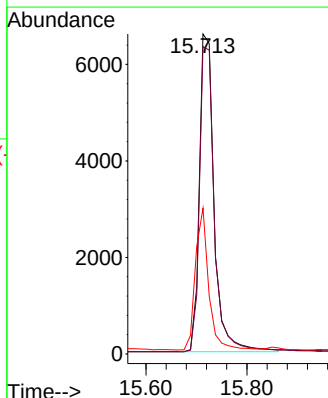
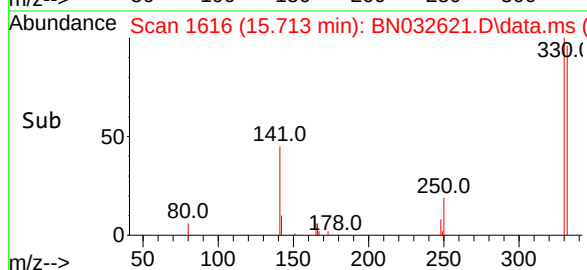
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

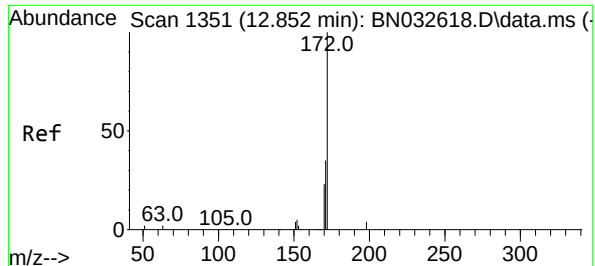


#14
2,4,6-Tribromophenol
Concen: 3.235 ng
RT: 15.713 min Scan# 1616
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56



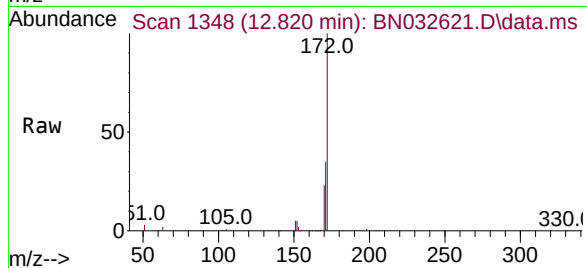
Tgt Ion:330 Resp: 13424
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.8
141 40.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 3.170 ng
RT: 12.820 min Scan# 11455
Delta R.T. -0.032 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

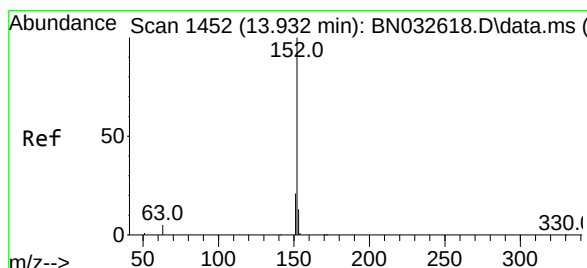
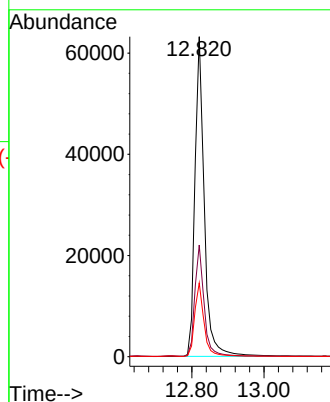
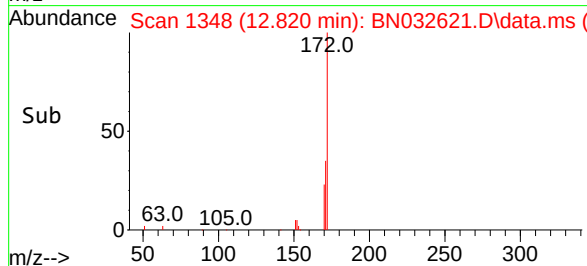
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:172 Resp: 11455
Ion Ratio Lower Upper
172 100
171 34.9 28.6 43.0
170 23.1 19.0 28.6

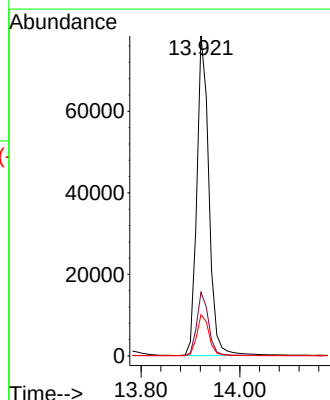
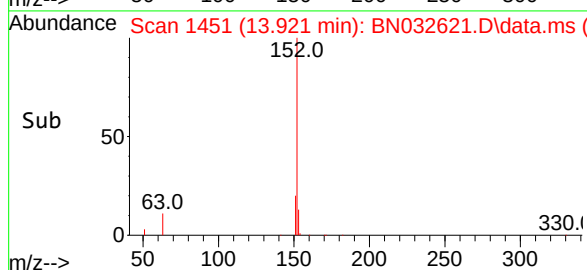
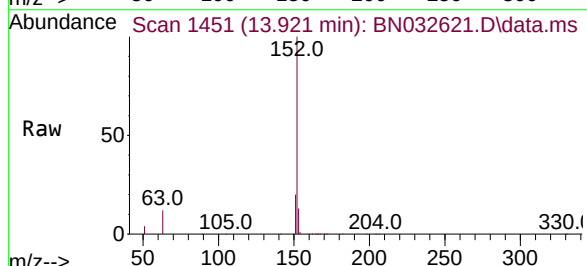
Manual Integrations
APPROVED

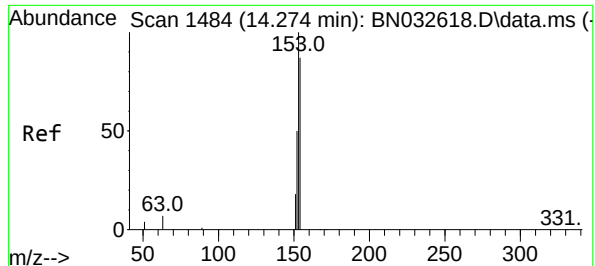
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 3.379 ng
RT: 13.921 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:152 Resp: 133466
Ion Ratio Lower Upper
152 100
151 19.5 16.0 24.0
153 13.0 10.6 15.8





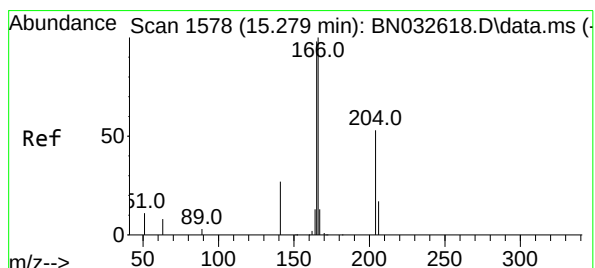
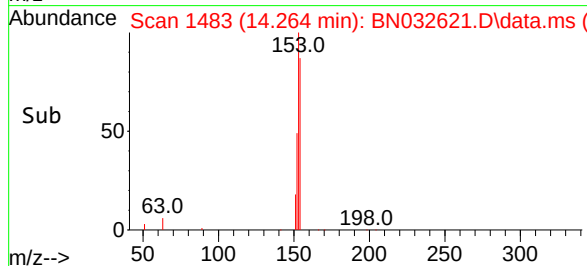
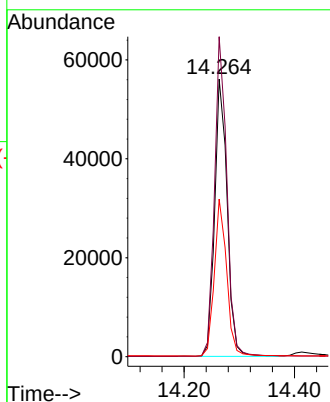
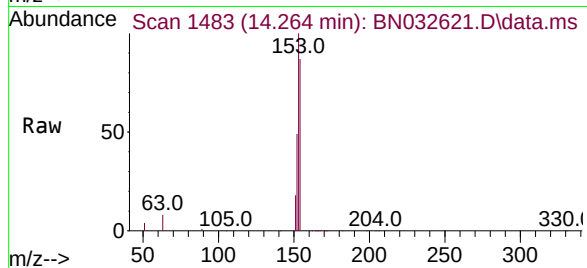
#17
Acenaphthene
Concen: 3.148 ng
RT: 14.264 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 8809
Ion Ratio Lower Upper
154 100
153 113.6 91.8 137.8
152 55.6 45.2 67.8

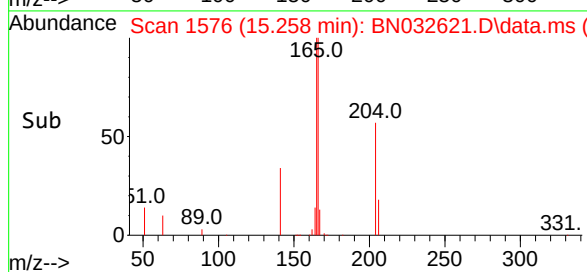
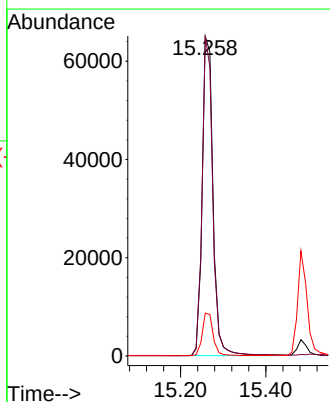
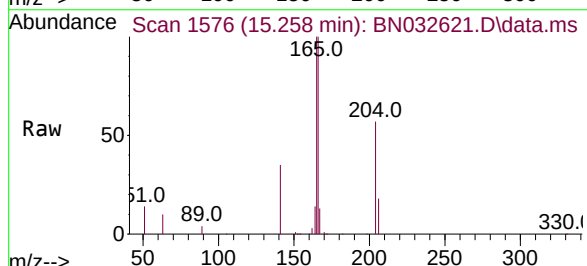
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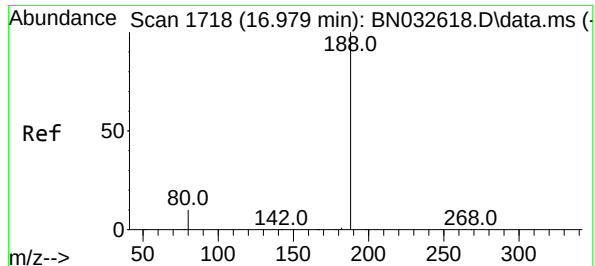
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 3.052 ng
RT: 15.258 min Scan# 1576
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:166 Resp: 114165
Ion Ratio Lower Upper
166 100
165 98.1 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

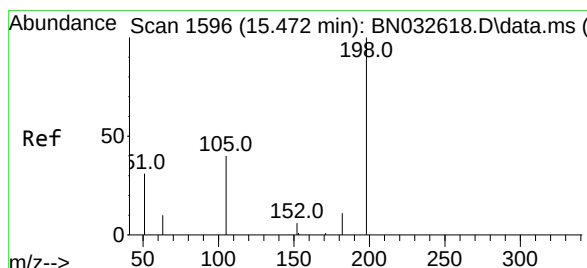
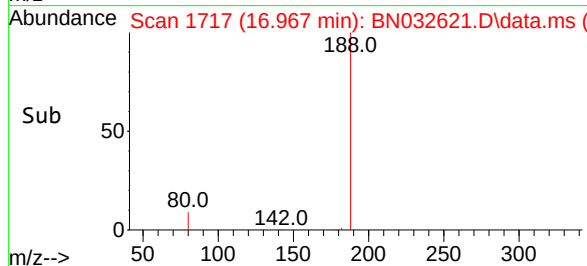
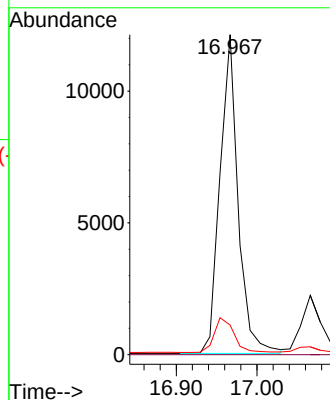
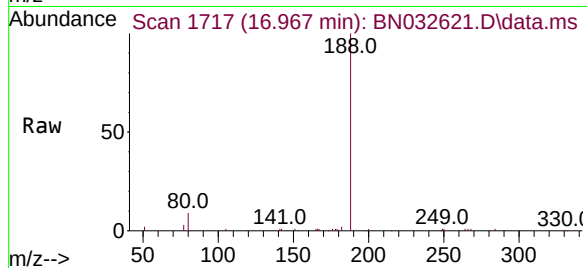
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 2.946 ng m

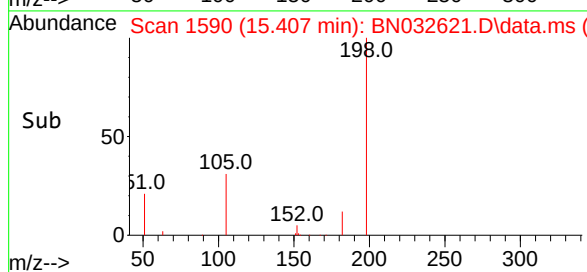
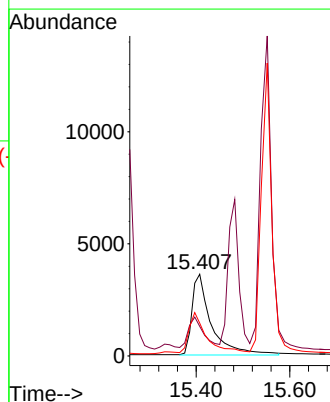
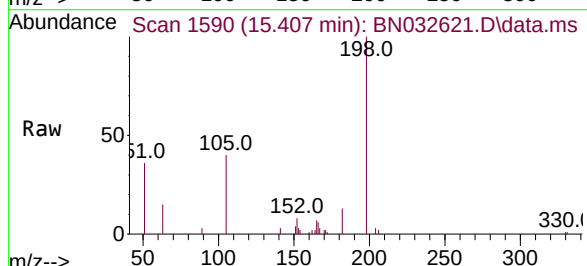
RT: 15.407 min Scan# 1590

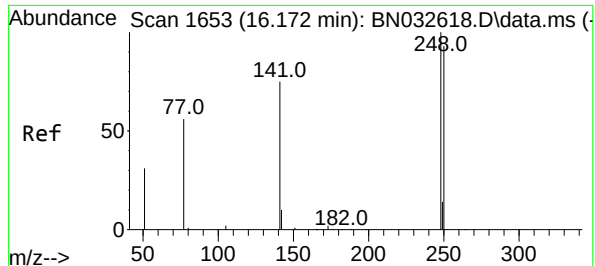
Delta R.T. -0.065 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
198	100		
51	36.2	105.7	158.5#
105	40.1	63.0	94.6#





#21
4-Bromophenyl-phenylether
Concen: 3.230 ng
RT: 16.160 min Scan# 1653
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

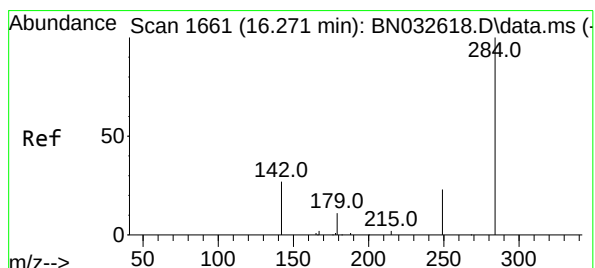
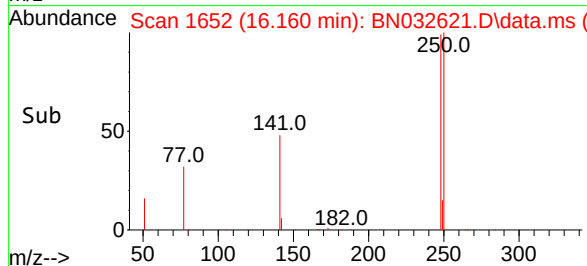
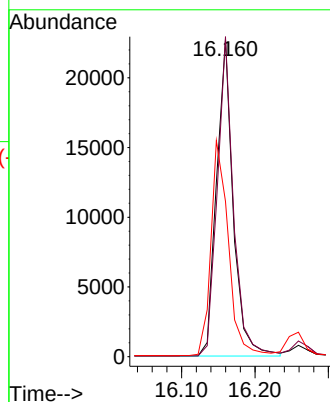
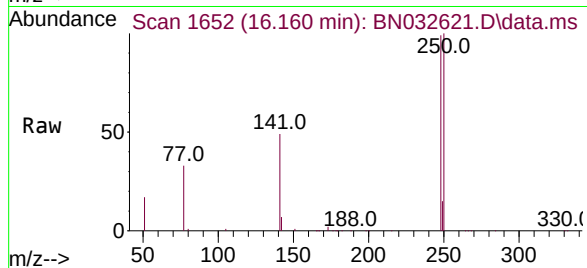
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	75.1	112.7
141	49.0	62.0	93.0

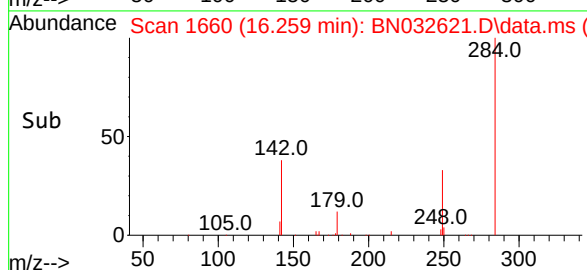
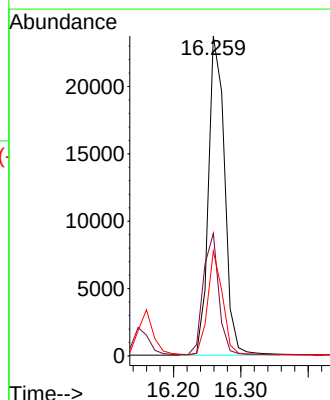
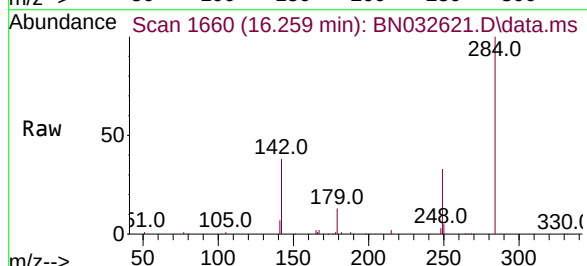
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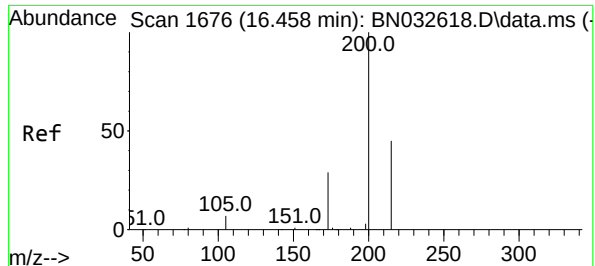
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 3.180 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.6	29.4	44.0
249	29.8	24.6	36.8





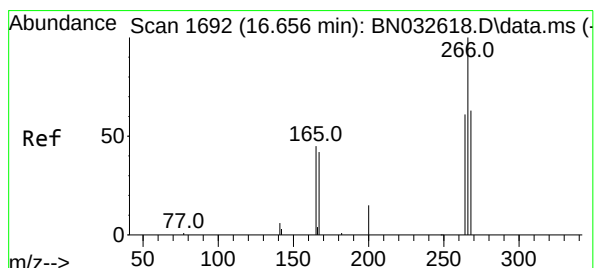
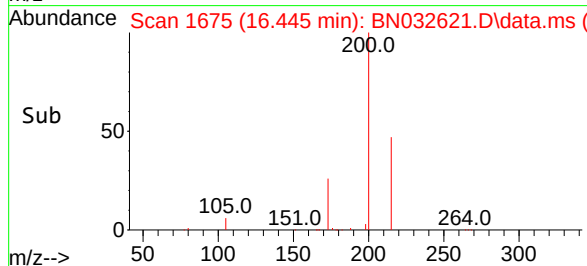
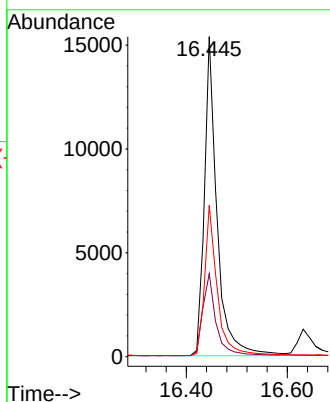
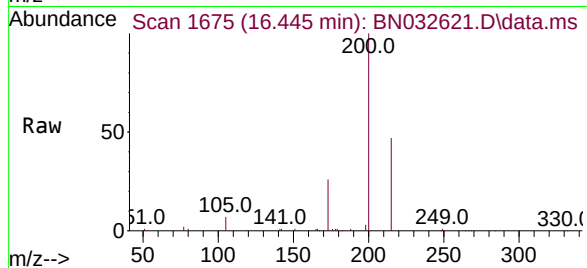
#23
Atrazine
Concen: 3.269 ng
RT: 16.445 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 26652
Ion Ratio Lower Upper
200 100
173 26.0 25.4 38.2
215 47.3 38.2 57.2

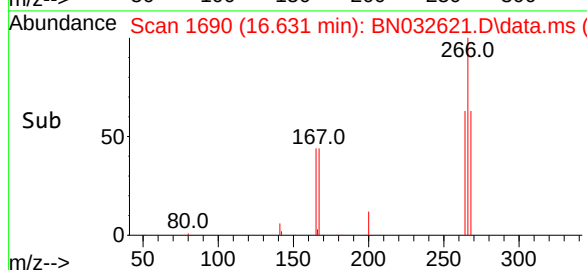
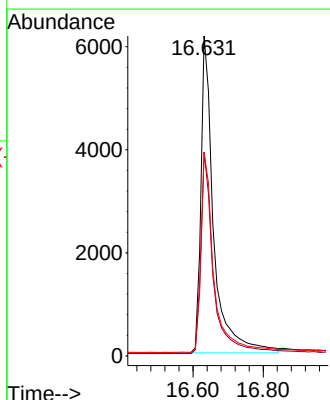
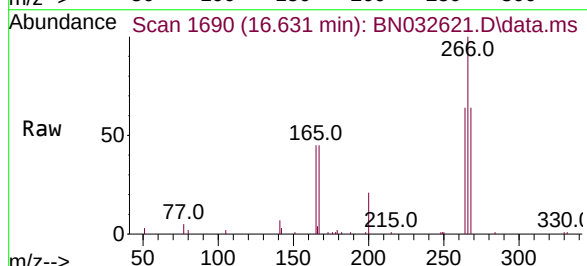
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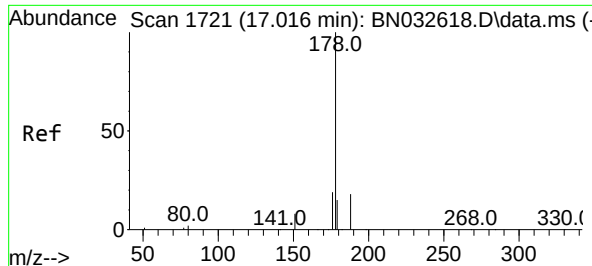
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 3.366 ng
RT: 16.631 min Scan# 1690
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

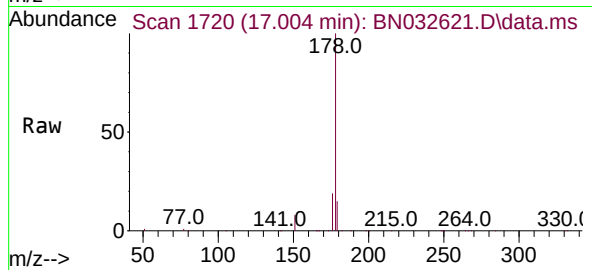
Tgt Ion:266 Resp: 15508
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 64.1 52.8 79.2





#25
Phenanthrene
Concen: 3.244 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

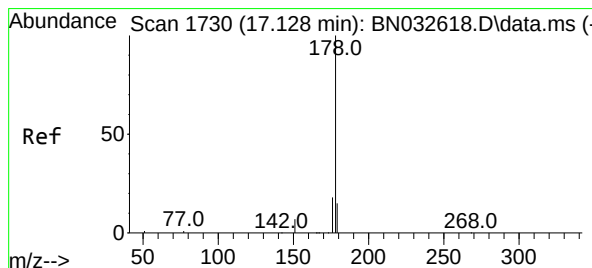
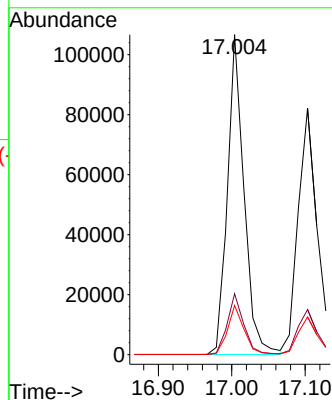
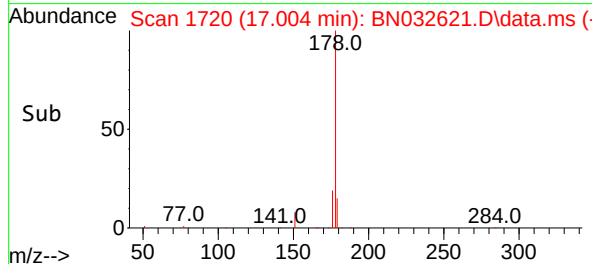
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:178 Resp: 167069
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.3 12.2 18.4

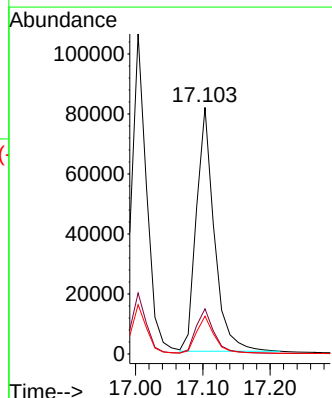
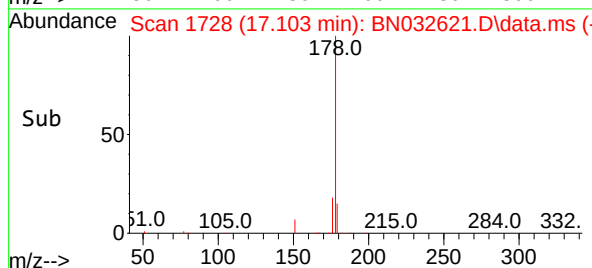
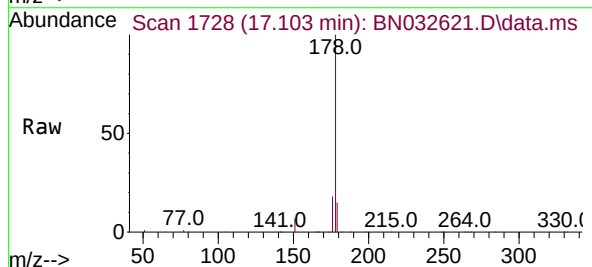
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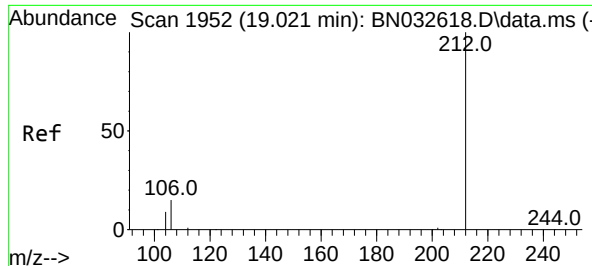
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 3.560 ng
RT: 17.103 min Scan# 1728
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:178 Resp: 150897
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 3.147 ng

RT: 19.007 min Scan# 1949

Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:212 Resp: 153400

Ion Ratio Lower Upper

212 100

106 14.8 11.9 17.9

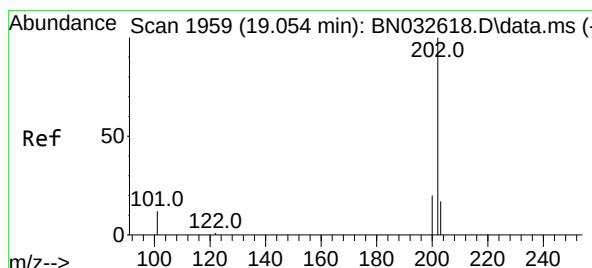
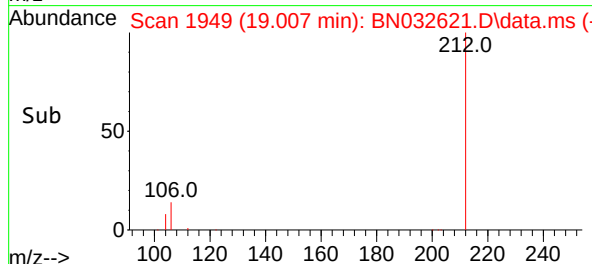
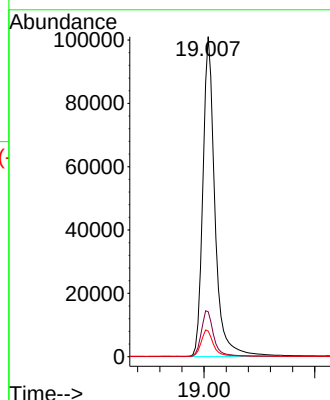
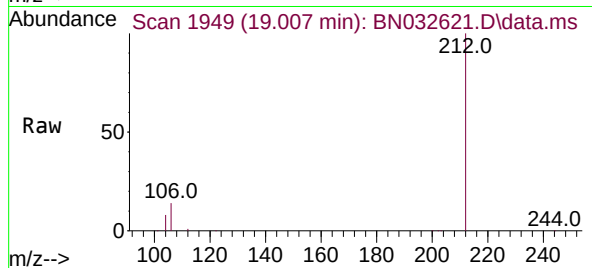
104 8.5 6.9 10.3

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 3.183 ng

RT: 19.040 min Scan# 1956

Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

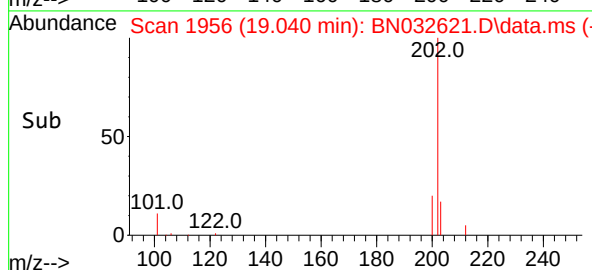
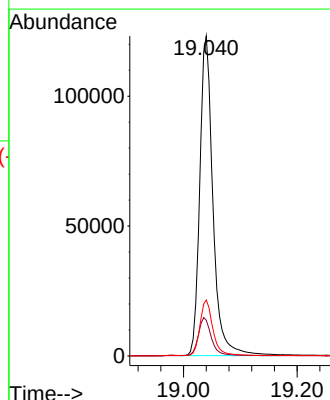
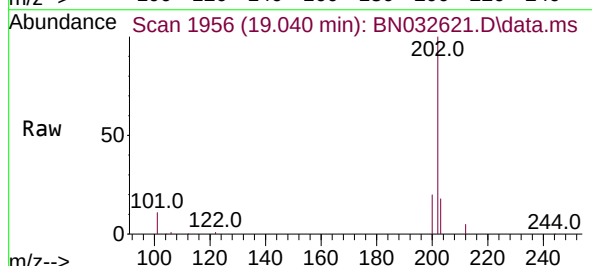
Tgt Ion:202 Resp: 198327

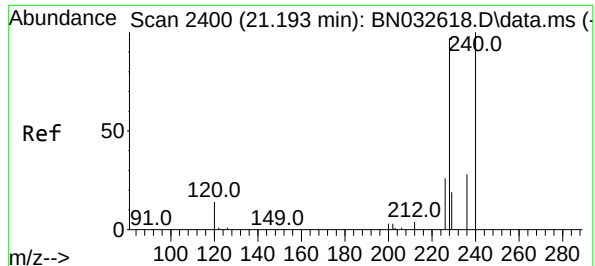
Ion Ratio Lower Upper

202 100

101 11.7 9.6 14.4

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.175 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

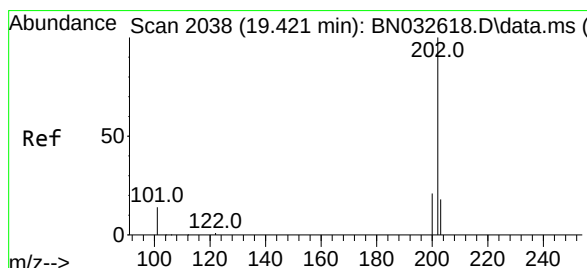
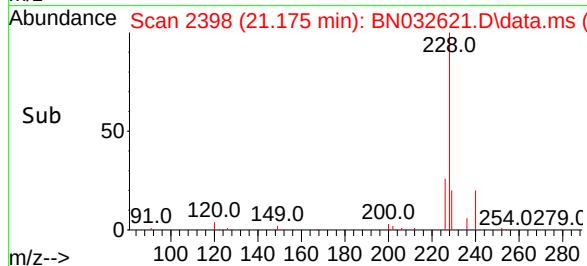
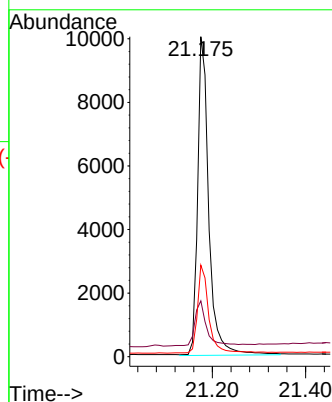
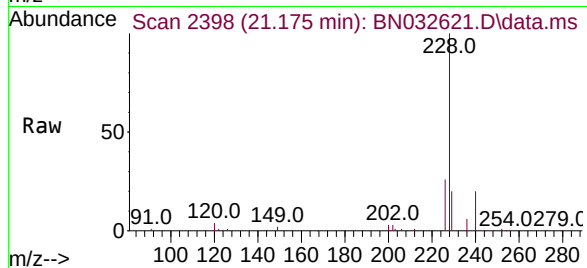
ClientSampleId :

SSTDICC3.2

Tgt Ion:240	Resp:	16714
Ion Ratio	Lower	Upper
240	100	
120	17.4	14.8 22.2
236	28.6	23.3 34.9

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Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 2.949 ng

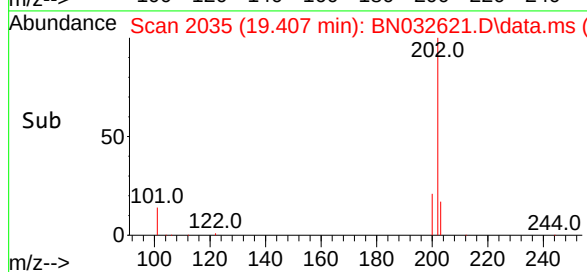
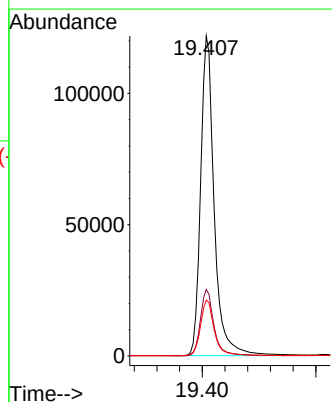
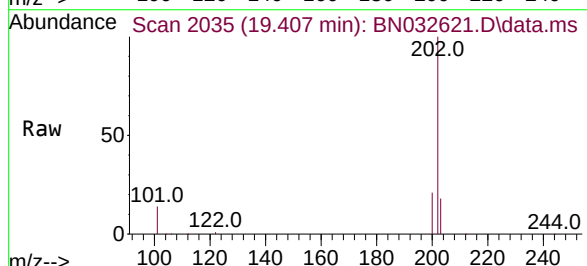
RT: 19.407 min Scan# 2035

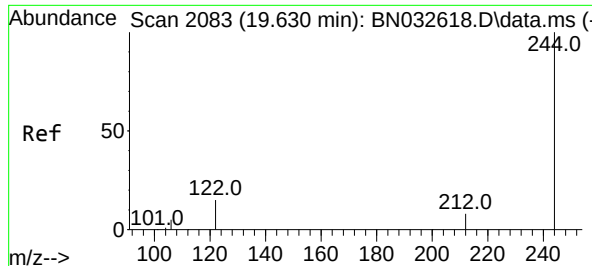
Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Tgt Ion:202	Resp:	201324
Ion Ratio	Lower	Upper
202	100	
200	20.7	16.6 25.0
203	17.8	14.8 22.2





#31
Terphenyl-d14
Concen: 2.903 ng
RT: 19.616 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

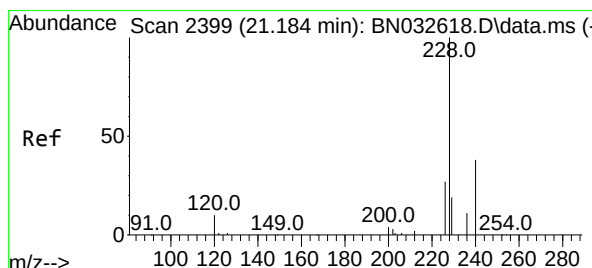
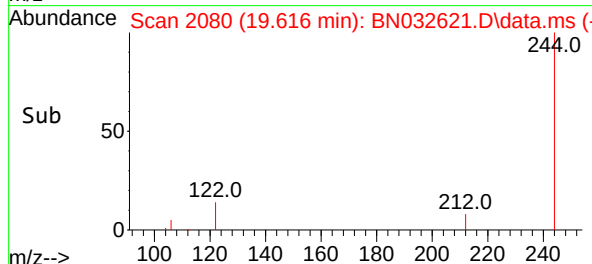
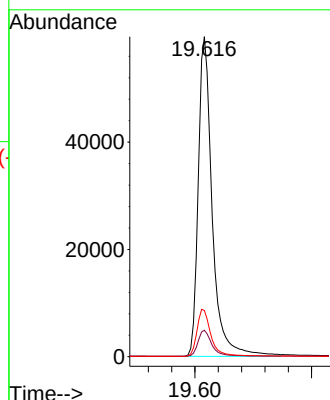
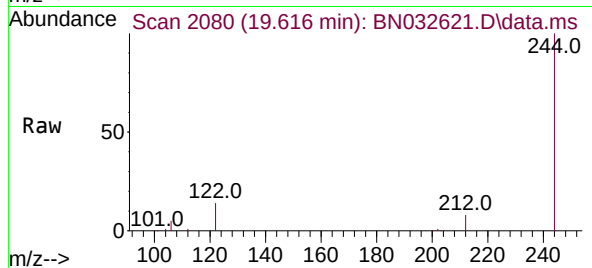
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	7.5	11.3
122	14.5	12.6	19.0

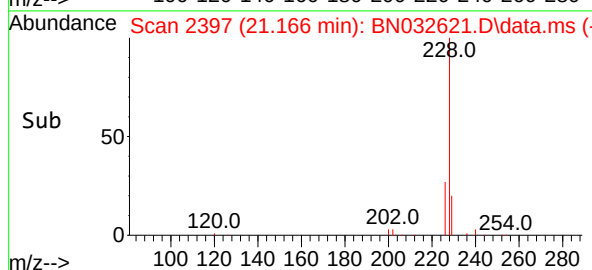
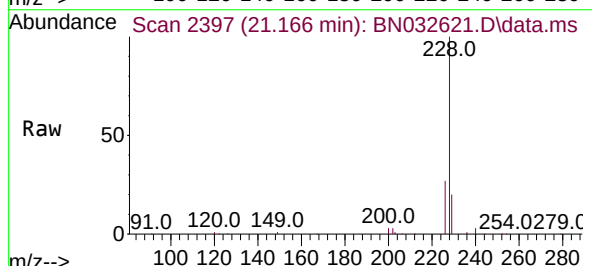
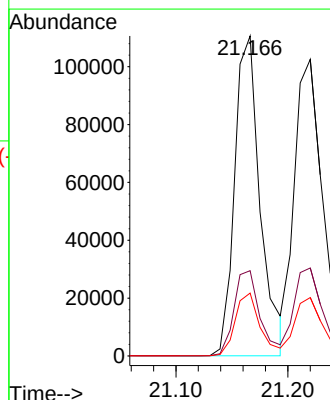
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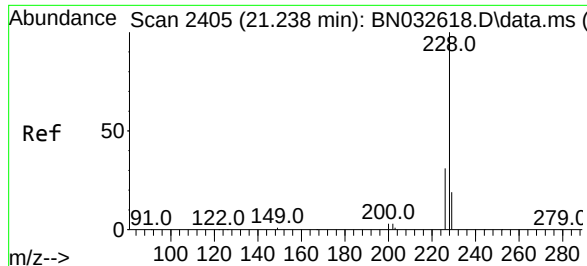
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 3.322 ng
RT: 21.166 min Scan# 2397
Delta R.T. -0.018 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 2.974 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:228 Resp: 18684

Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.2

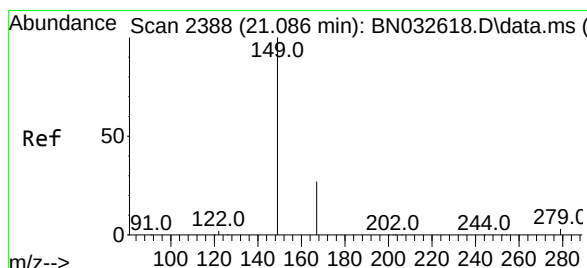
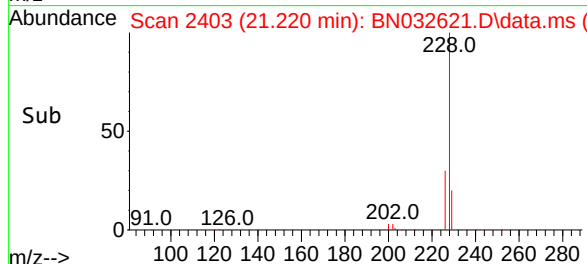
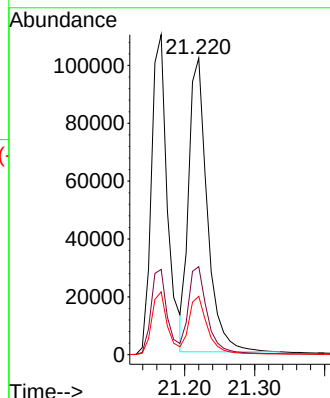
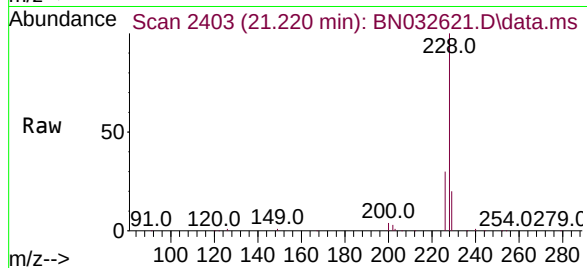
229 19.7 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.212 ng

RT: 21.077 min Scan# 2387

Delta R.T. -0.009 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

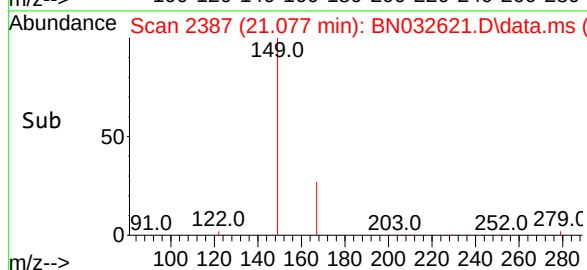
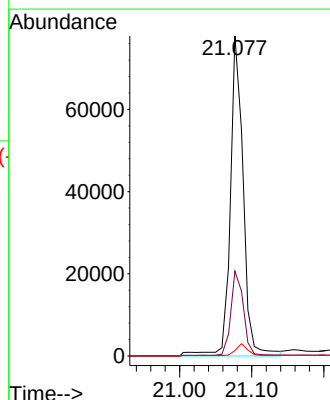
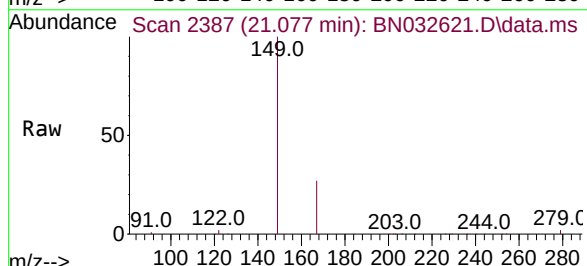
Tgt Ion:149 Resp: 93981

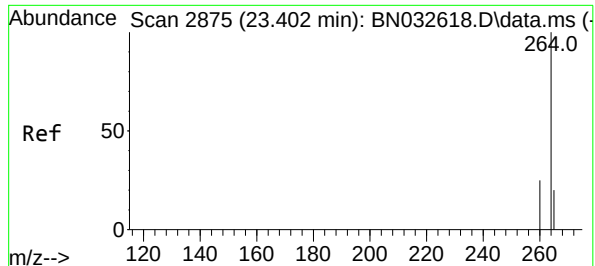
Ion Ratio Lower Upper

149 100

167 26.8 21.4 32.2

279 3.6 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.388 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN032621.D

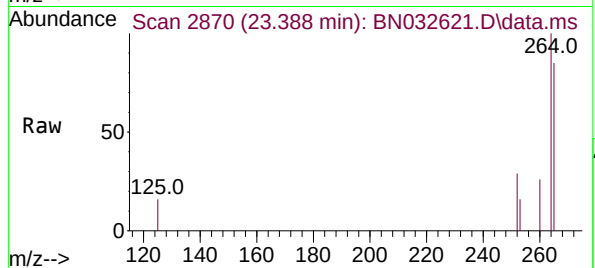
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 1626

Ion Ratio Lower Upper

264 100

260 26.3 20.9 31.3

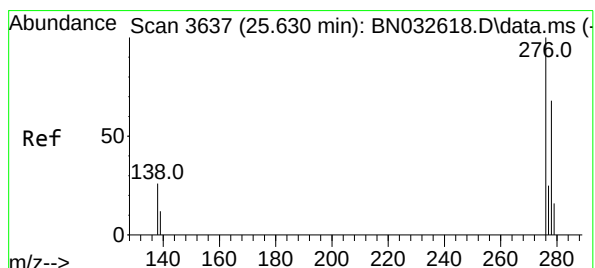
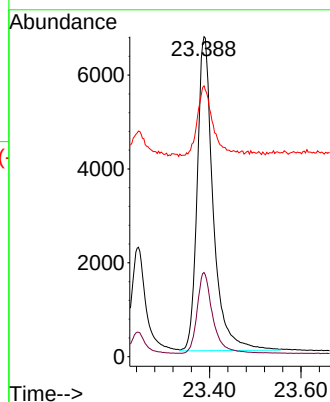
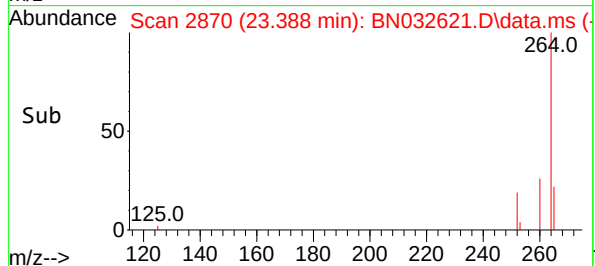
265 84.6 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.459 ng

RT: 25.586 min Scan# 3622

Delta R.T. -0.044 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

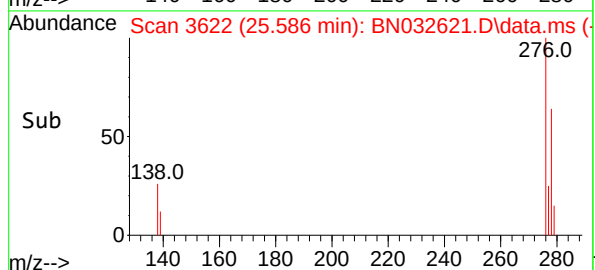
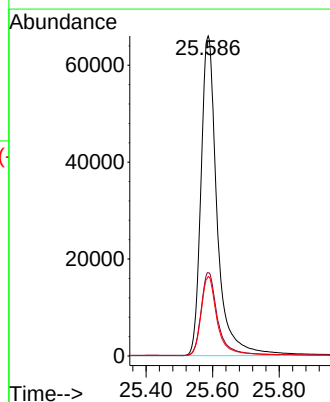
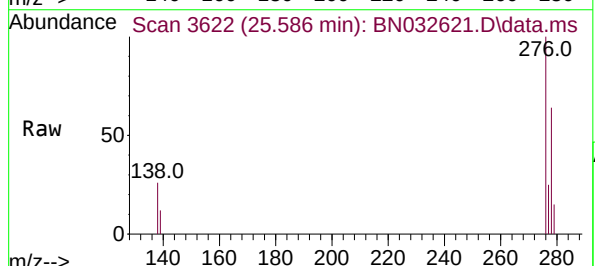
Tgt Ion:276 Resp: 221820

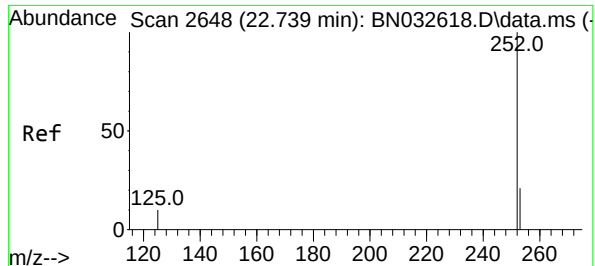
Ion Ratio Lower Upper

276 100

138 26.6 21.0 31.4

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.294 ng

RT: 22.718 min Scan# 20

Delta R.T. -0.020 min

Lab File: BN032621.D

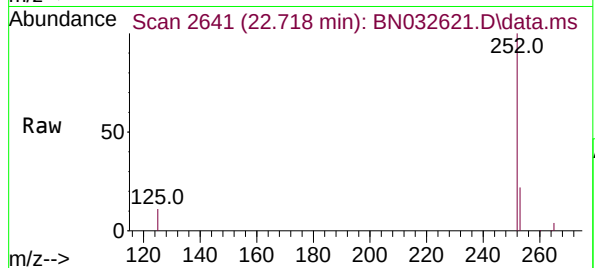
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:252 Resp: 18663

Ion Ratio Lower Upper

252 100

253 22.0 22.3 33.5

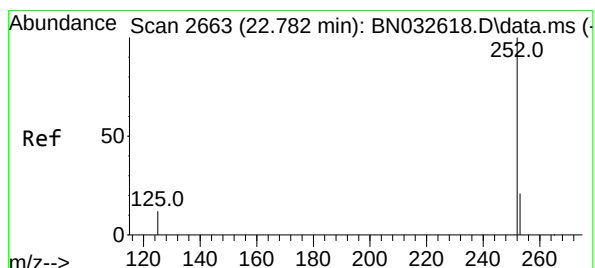
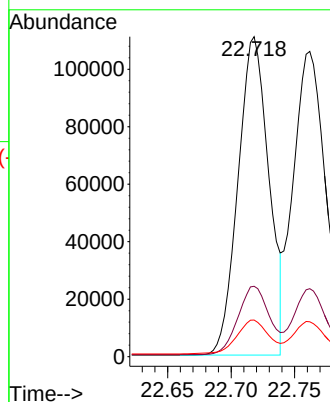
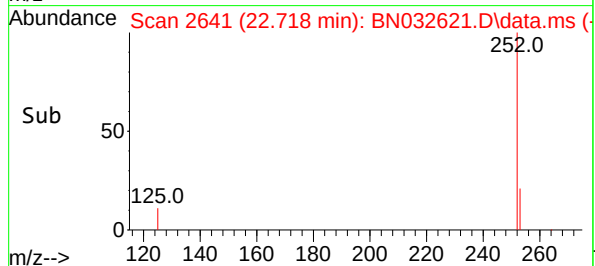
125 11.4 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 3.095 ng m

RT: 22.762 min Scan# 2656

Delta R.T. -0.020 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

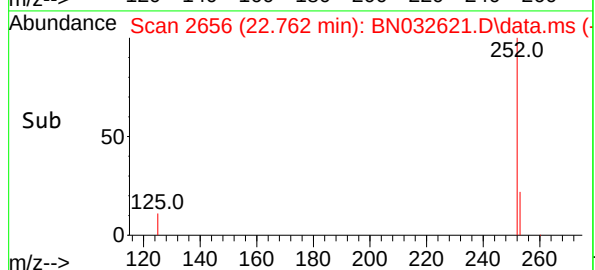
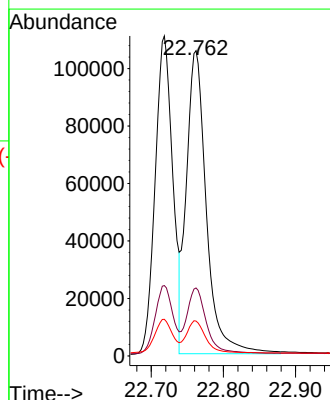
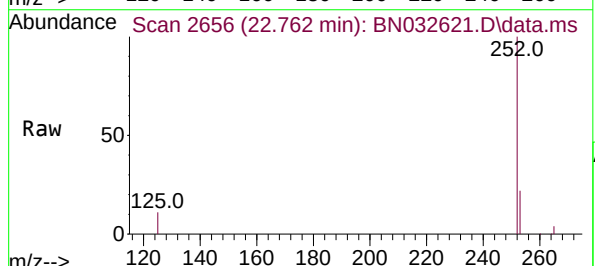
Tgt Ion:252 Resp: 203131

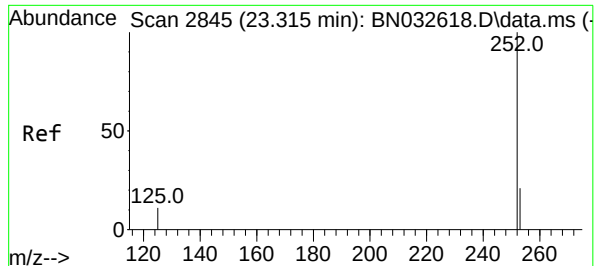
Ion Ratio Lower Upper

252 100

253 22.3 22.6 34.0#

125 11.4 16.2 24.4#





#39

Benzo(a)pyrene

Concen: 3.240 ng

RT: 23.288 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 16556

Ion Ratio Lower Upper

252 100

253 22.5 25.8 38.8

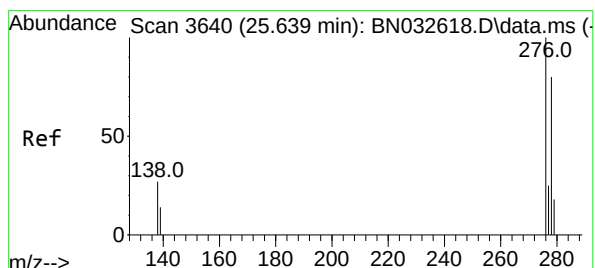
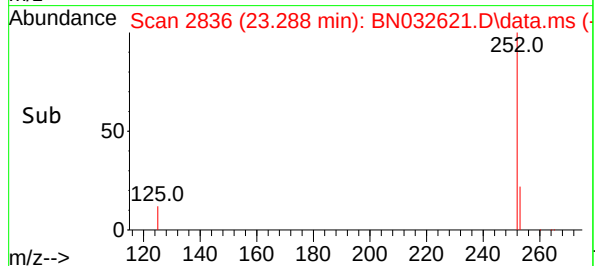
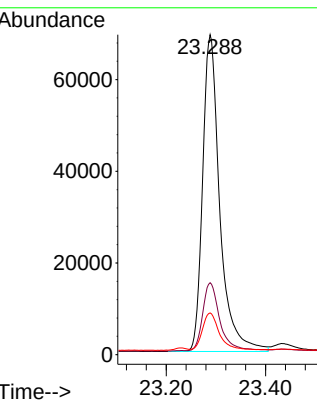
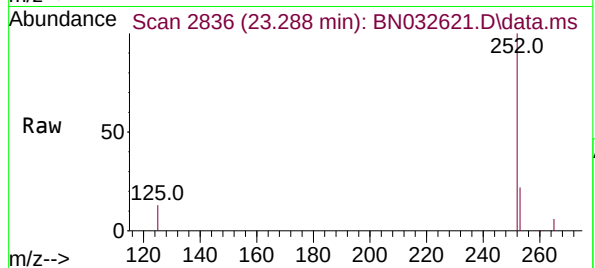
125 13.1 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.500 ng

RT: 25.595 min Scan# 3625

Delta R.T. -0.044 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

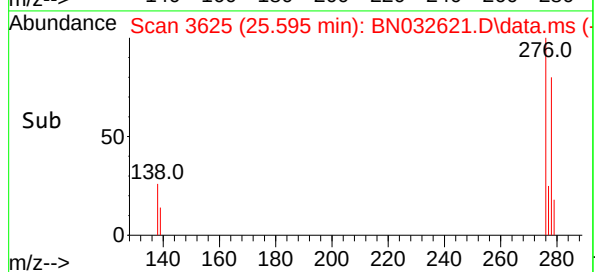
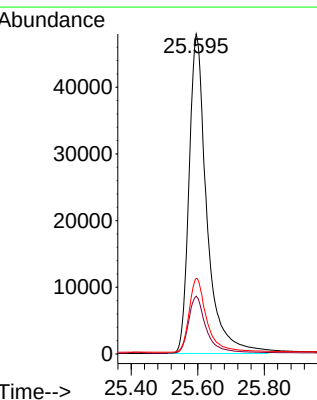
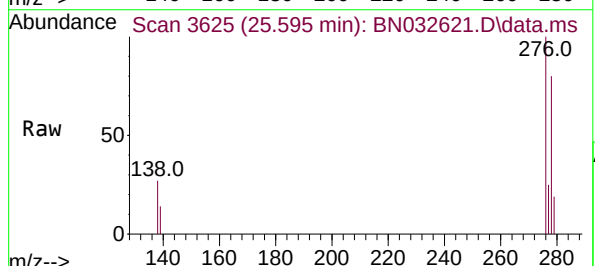
Tgt Ion:278 Resp: 177246

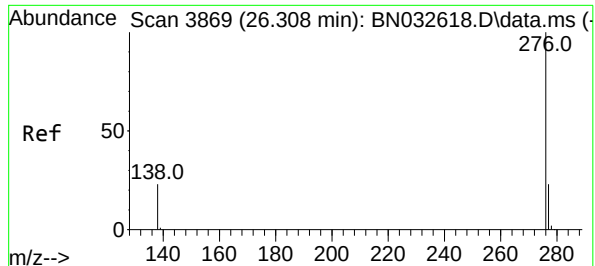
Ion Ratio Lower Upper

278 100

139 18.1 16.7 25.1

279 23.6 24.3 36.5





#41

Benzo(g,h,i)perylene

Concen: 3.409 ng

RT: 26.265 min Scan# 3854

Delta R.T. -0.044 min

Lab File: BN032621.D

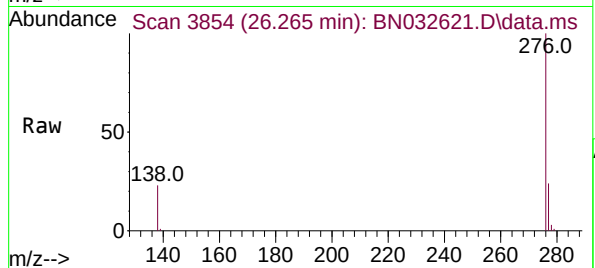
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 191262

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

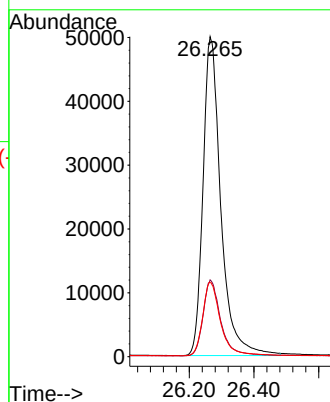
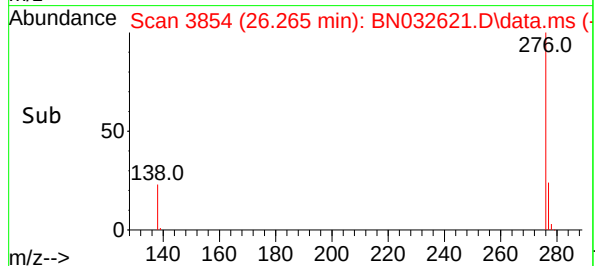
138 23.1 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032622.D
 Acq On : 10 Jul 2024 19:32
 Operator : MA/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:43:12 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	5387	0.400	ng	0.00
7) Naphthalene-d8	10.325	136	16995	0.400	ng	-0.03
13) Acenaphthene-d10	14.199	164	11270	0.400	ng	-0.01
19) Phenanthrene-d10	16.967	188	23755	0.400	ng	#-0.01
29) Chrysene-d12	21.175	240	21678	0.400	ng	#-0.02
35) Perylene-d12	23.382	264	19827	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	63938	4.692	ng	-0.02
5) Phenol-d6	6.758	99	88108	5.209	ng	-0.04
8) Nitrobenzene-d5	8.723	82	65619	5.129	ng	-0.05
11) 2-Methylnaphthalene-d10	11.926	152	130262	5.010	ng	-0.04
14) 2,4,6-Tribromophenol	15.713	330	27571	5.724	ng	-0.02
15) 2-Fluorobiphenyl	12.820	172	204044	4.864	ng	-0.03
27) Fluoranthene-d10	19.003	212	310962	5.060	ng	-0.02
31) Terphenyl-d14	19.611	244	207960	4.680	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.132	88	27696	4.150	ng	98
3) n-Nitrosodimethylamine	3.450	42	25796	4.573	ng	99
6) bis(2-Chloroethyl)ether	7.003	93	74029	5.234	ng	90
9) Naphthalene	10.378	128	227198	4.828	ng	96
10) Hexachlorobutadiene	10.645	225	41068	4.567	ng	# 99
12) 2-Methylnaphthalene	12.002	142	156743	5.097	ng	97
16) Acenaphthylene	13.921	152	246134	5.368	ng	99
17) Acenaphthene	14.264	154	158672	4.885	ng	99
18) Fluorene	15.258	166	212366	4.891	ng	100
20) 4,6-Dinitro-2-methylph...	15.397	198	25426m	5.273	ng	
21) 4-Bromophenyl-phenylether	16.160	248	69439	4.975	ng	# 74
22) Hexachlorobenzene	16.259	284	73899	4.728	ng	100
23) Atrazine	16.445	200	56576	5.504	ng	# 93
24) Pentachlorophenol	16.631	266	34124	5.875	ng	98
25) Phenanthrene	17.004	178	325236	5.010	ng	100
26) Anthracene	17.091	178	302632	5.664	ng	99
28) Fluoranthene	19.035	202	399794	5.090	ng	100
30) Pyrene	19.402	202	407347	4.600	ng	99
32) Benzo(a)anthracene	21.157	228	366789	5.351	ng	100
33) Chrysene	21.211	228	382139	4.689	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	217511	5.732	ng	99
36) Indeno(1,2,3-cd)pyrene	25.580	276	381332	4.879	ng	99
37) Benzo(b)fluoranthene	22.712	252	374321	5.420	ng	# 86
38) Benzo(k)fluoranthene	22.756	252	375339	4.692	ng	# 85
39) Benzo(a)pyrene	23.282	252	315369	5.064	ng	# 77
40) Dibenzo(a,h)anthracene	25.586	278	304385	4.931	ng	# 90
41) Benzo(g,h,i)perylene	26.262	276	320415	4.686	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032622.D
Acq On : 10 Jul 2024 19:32
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

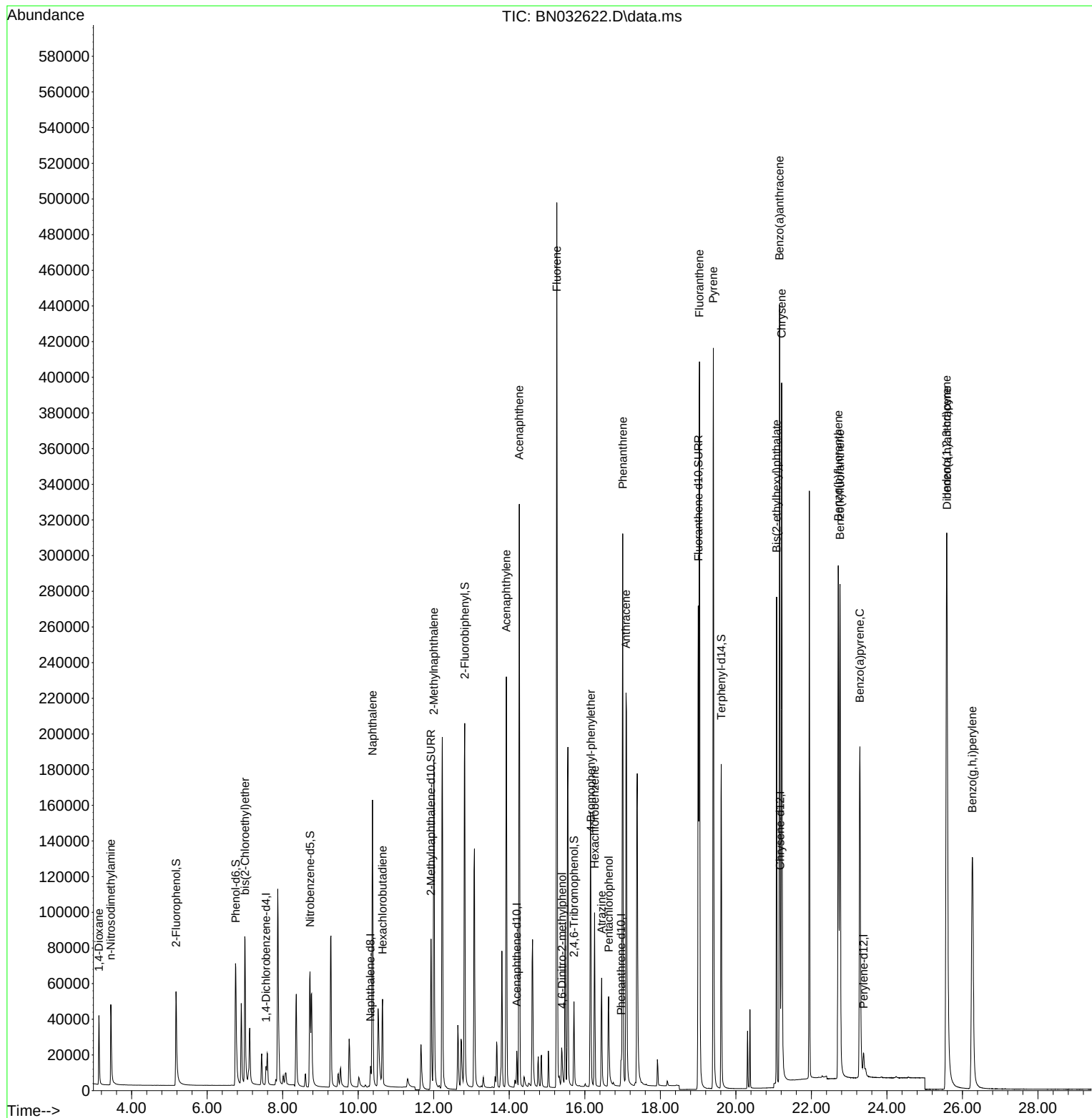
Manual Integrations

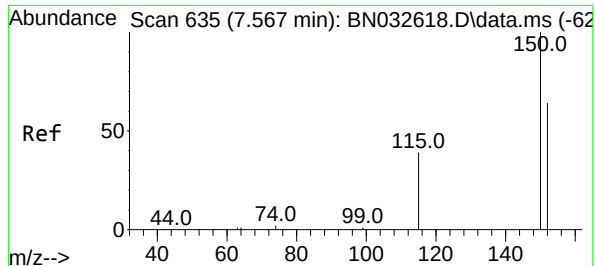
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

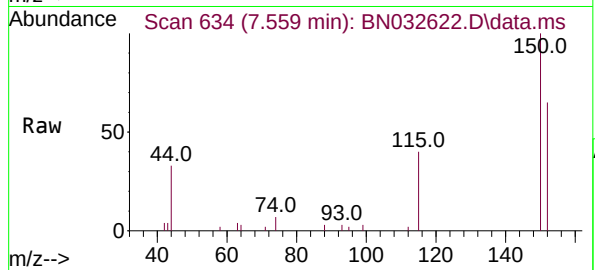
Quant Time: Jul 10 23:43:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

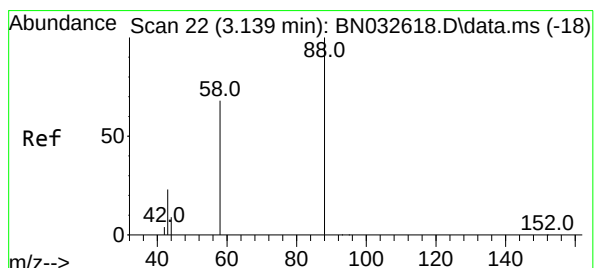
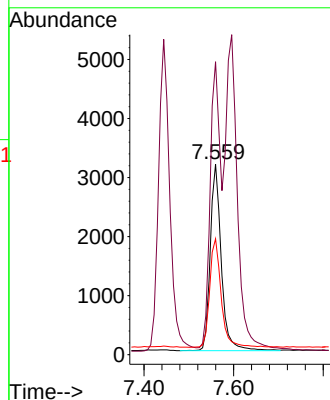
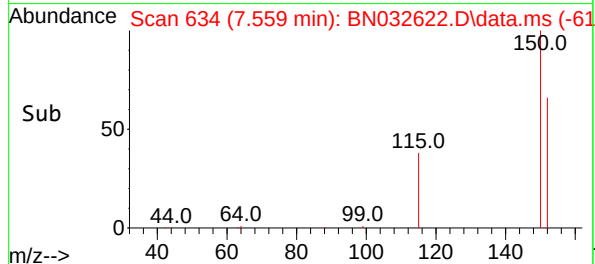
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion: 152 Resp: 538
Ion Ratio Lower Upper
152 100
150 153.7 123.8 185.6
115 60.8 52.8 79.2

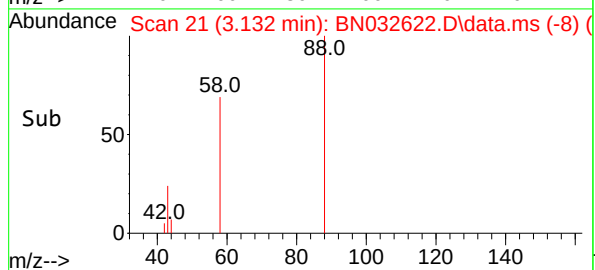
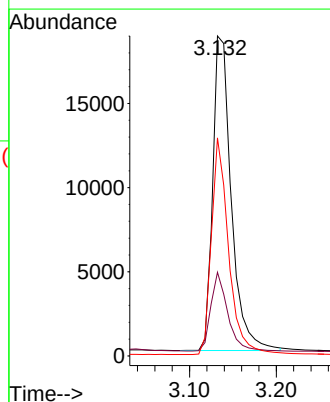
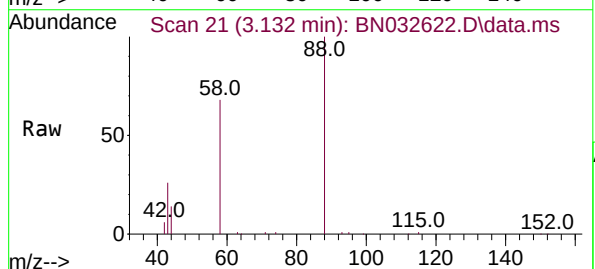
Manual Integrations
APPROVED

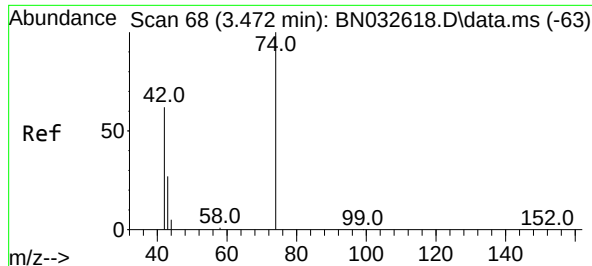
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 4.150 ng
RT: 3.132 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

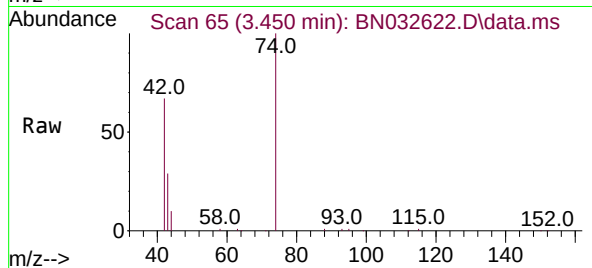
Tgt Ion: 88 Resp: 27696
Ion Ratio Lower Upper
88 100
43 22.7 18.4 27.6
58 63.8 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 4.573 ng
RT: 3.450 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

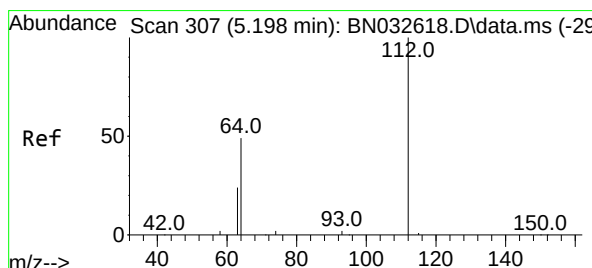
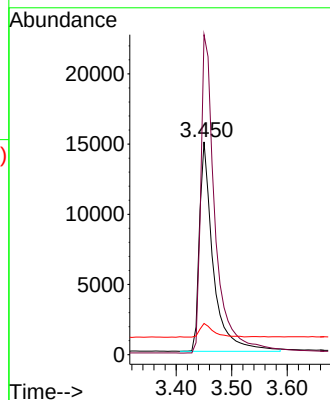
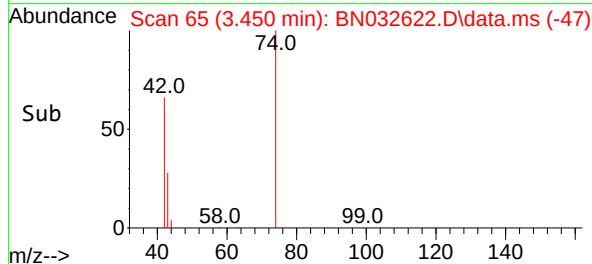
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion: 42 Resp: 25790
Ion Ratio Lower Upper
42 100
74 159.7 126.9 190.3
44 6.4 4.8 7.2

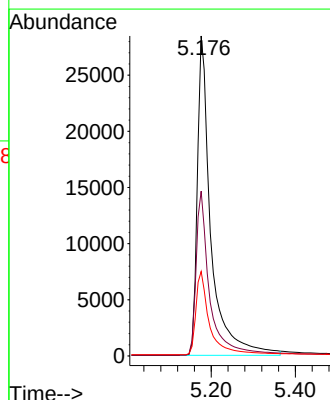
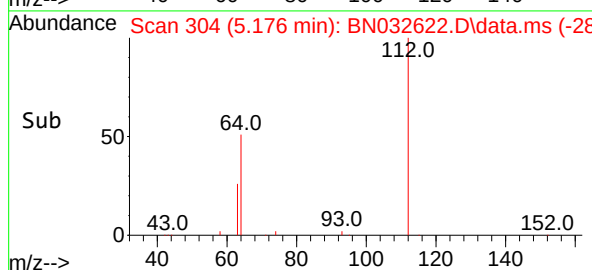
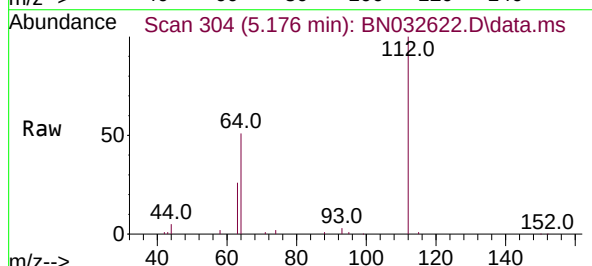
Manual Integrations
APPROVED

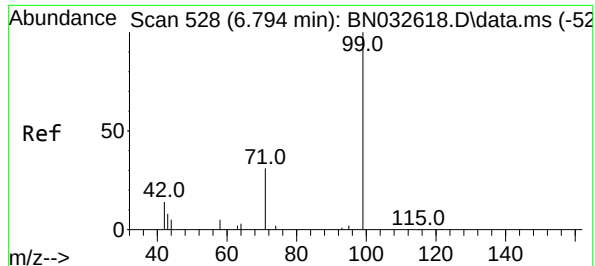
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 4.692 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.022 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:112 Resp: 63938
Ion Ratio Lower Upper
112 100
64 51.2 40.2 60.4
63 26.3 22.2 33.4





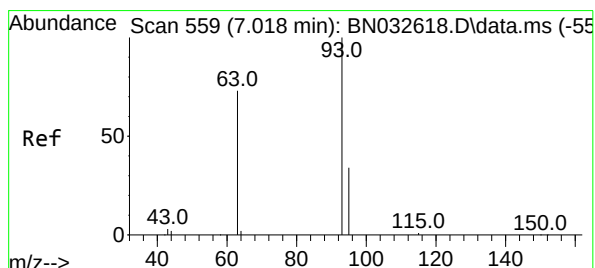
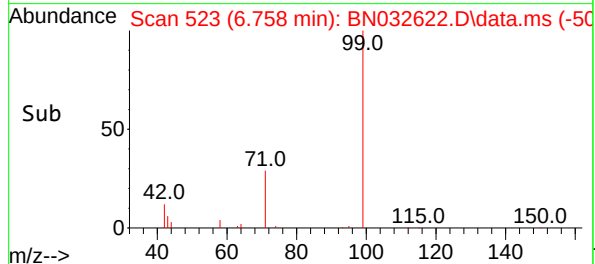
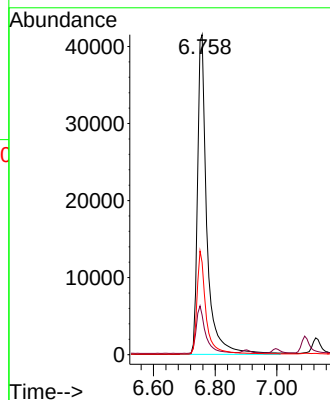
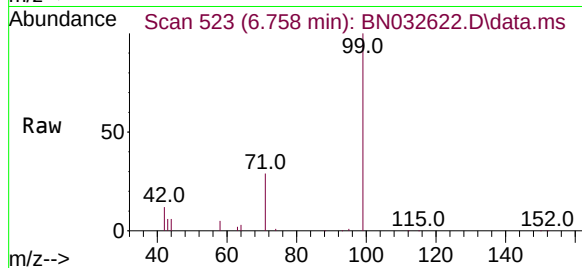
#5
Phenol-d6
Concen: 5.209 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 88108
Ion Ratio Lower Upper
99 100
42 14.9 10.5 15.7
71 31.2 22.3 33.5

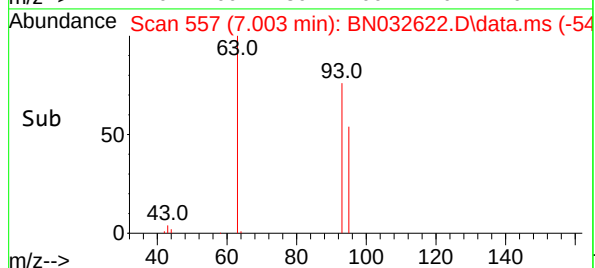
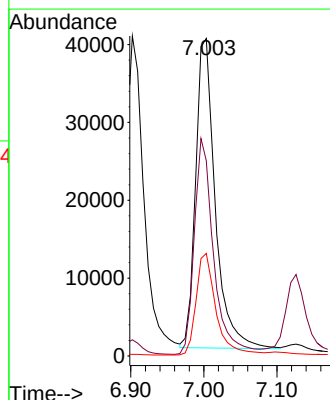
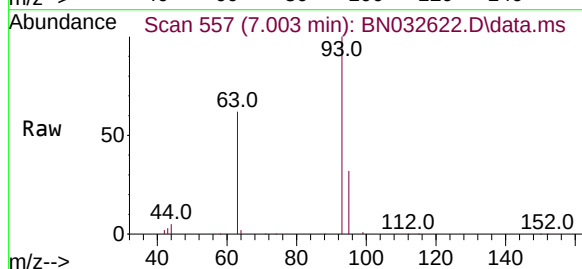
Manual Integrations
APPROVED

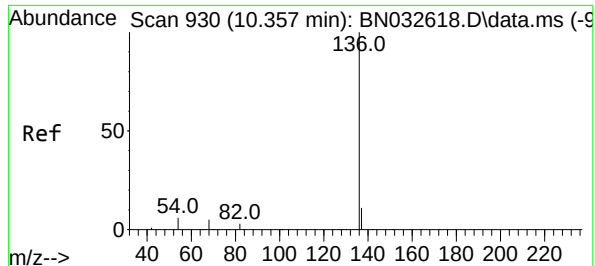
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 5.234 ng
RT: 7.003 min Scan# 557
Delta R.T. -0.014 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion: 93 Resp: 74029
Ion Ratio Lower Upper
93 100
63 68.6 46.4 69.6
95 33.3 25.5 38.3





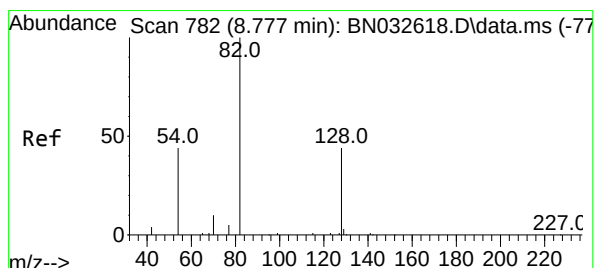
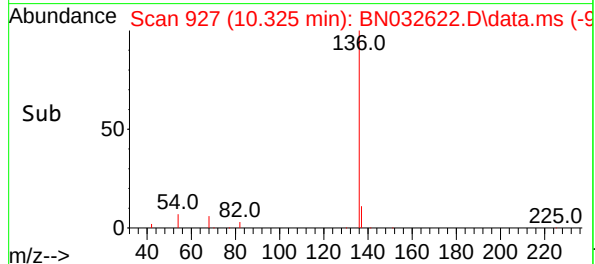
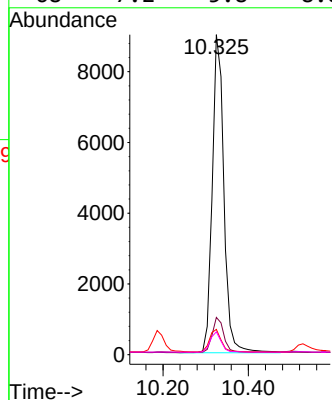
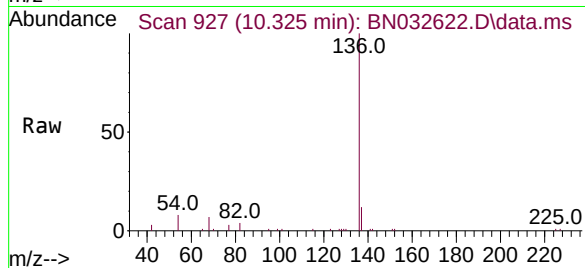
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.9	14.9
54	7.9	6.5	9.7
68	7.2	5.8	8.8

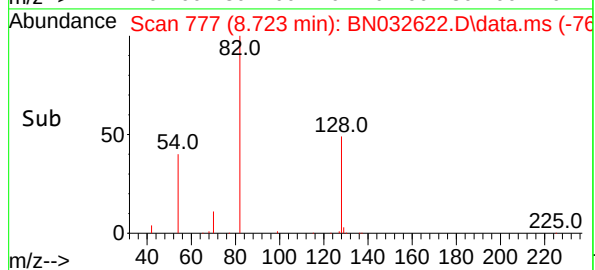
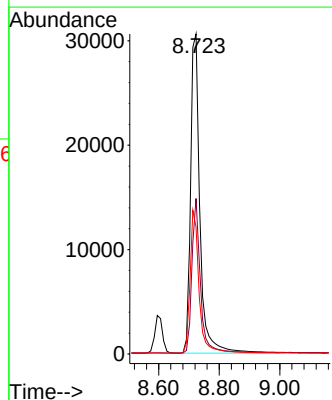
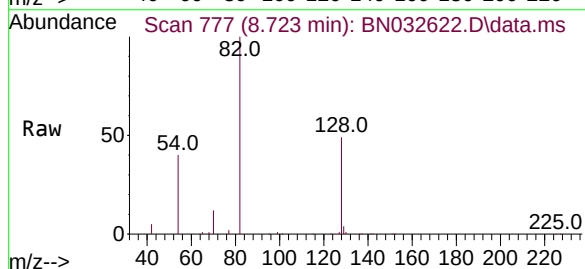
Manual Integrations
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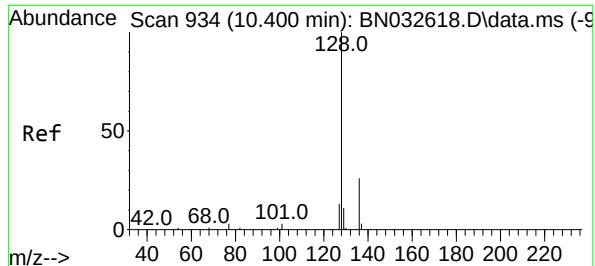
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 5.129 ng
RT: 8.723 min Scan# 777
Delta R.T. -0.053 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.6	41.7	62.5
54	39.7	39.5	59.3





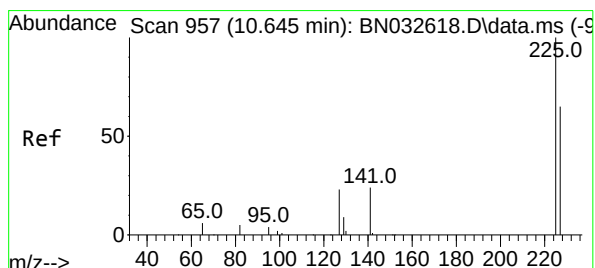
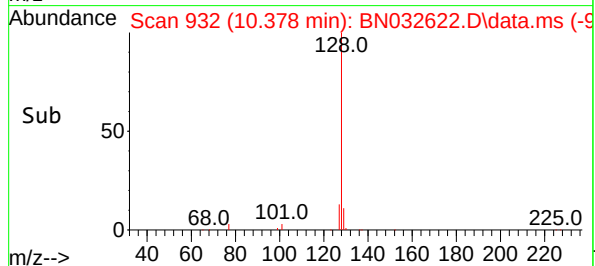
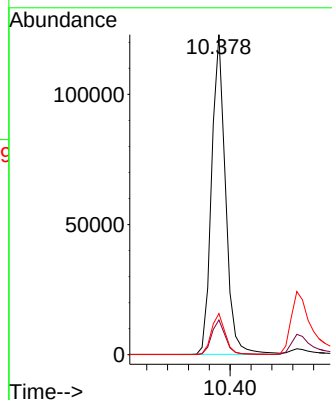
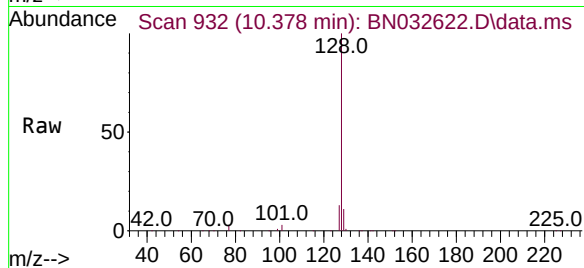
#9
Naphthalene
Concen: 4.828 ng
RT: 10.378 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 227198
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.8
127 12.9 11.5 17.3

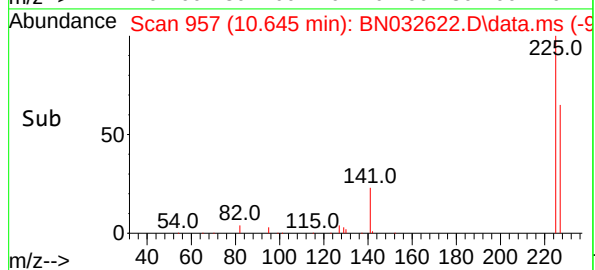
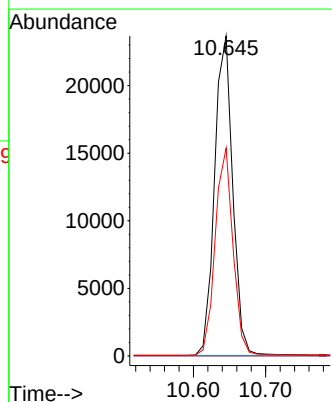
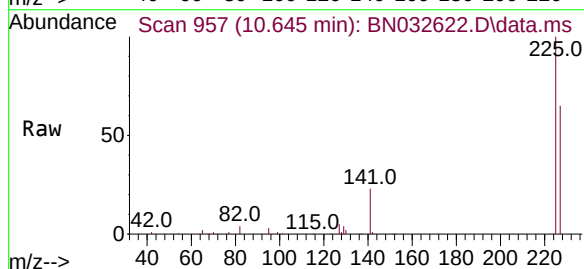
Manual Integrations
APPROVED

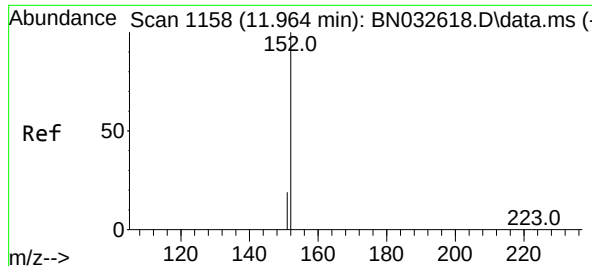
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 4.567 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

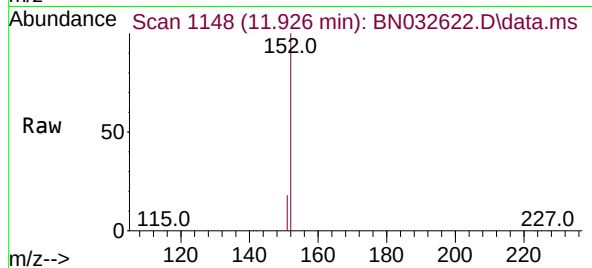
Tgt Ion:225 Resp: 41068
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 5.010 ng
RT: 11.926 min Scan# 1158
Delta R.T. -0.038 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

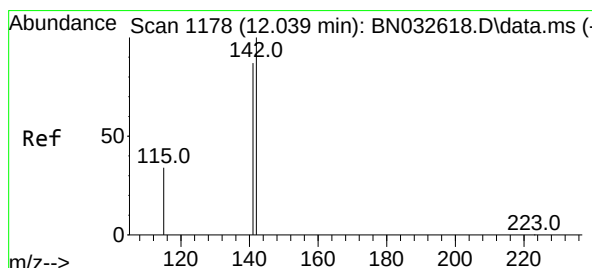
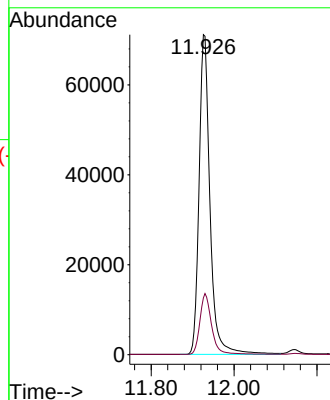
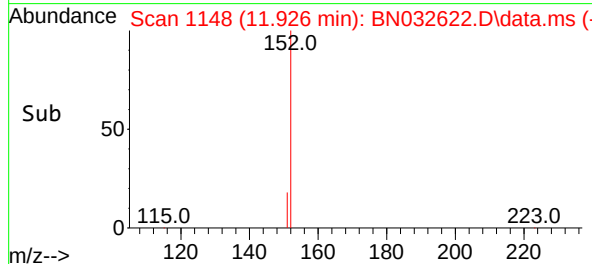
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:152 Resp: 13026
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.2

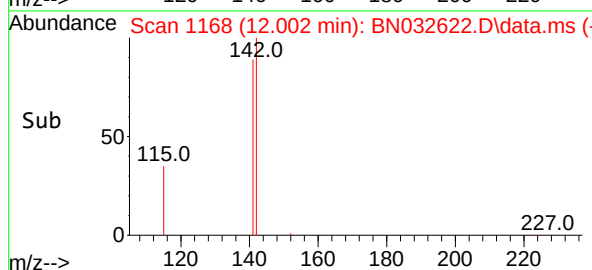
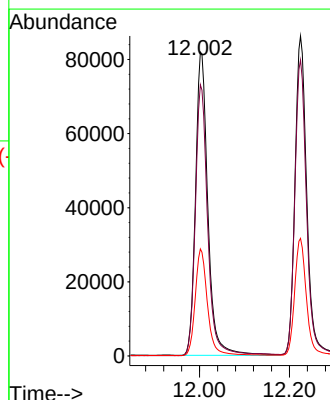
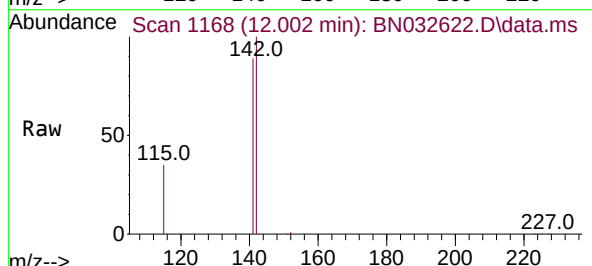
Manual Integrations
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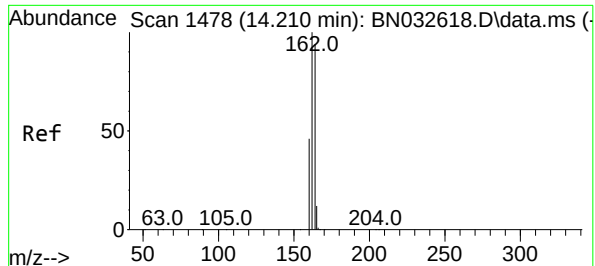
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 5.097 ng
RT: 12.002 min Scan# 1168
Delta R.T. -0.038 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

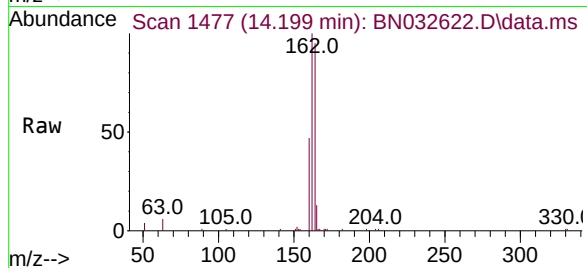
Tgt Ion:142 Resp: 156743
Ion Ratio Lower Upper
142 100
141 89.3 69.3 103.9
115 35.2 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1477
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

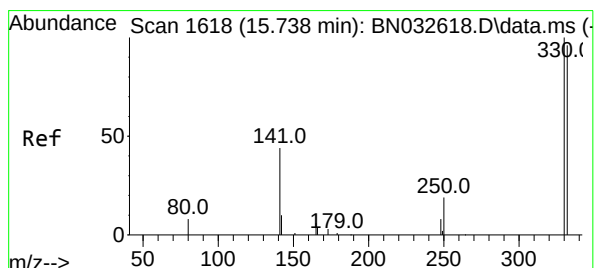
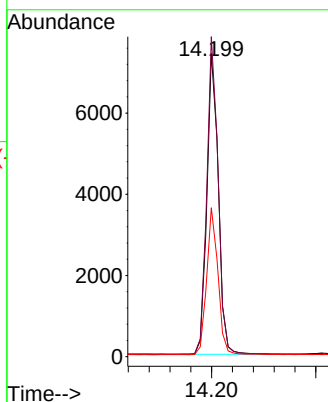
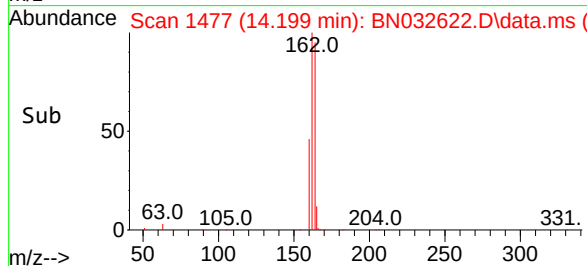
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



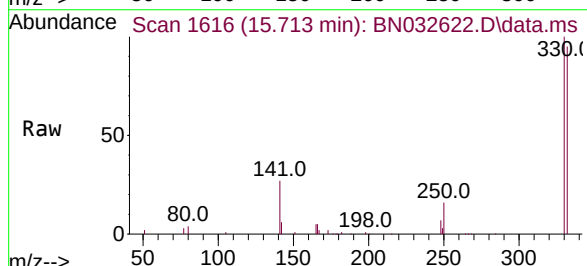
Tgt Ion:164 Resp: 11270
Ion Ratio Lower Upper
164 100
162 105.5 85.0 127.4
160 49.1 39.4 59.2

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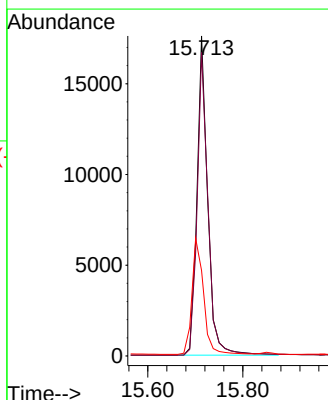
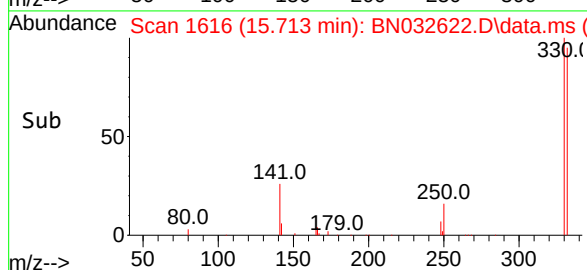
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

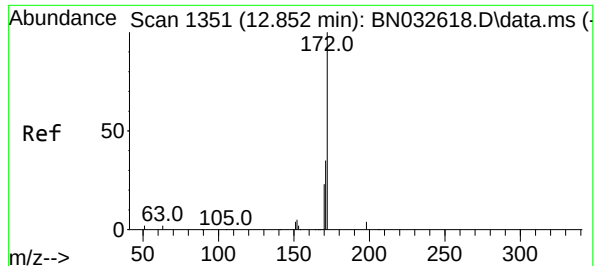


#14
2,4,6-Tribromophenol
Concen: 5.724 ng
RT: 15.713 min Scan# 1616
Delta R.T. -0.025 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32



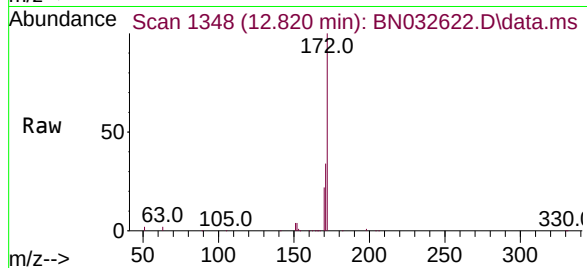
Tgt Ion:330 Resp: 27571
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.8
141 39.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 4.864 ng
RT: 12.820 min Scan# 11
Delta R.T. -0.032 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

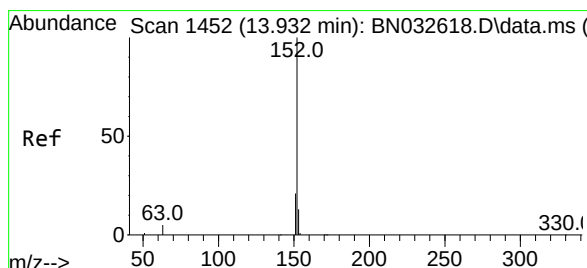
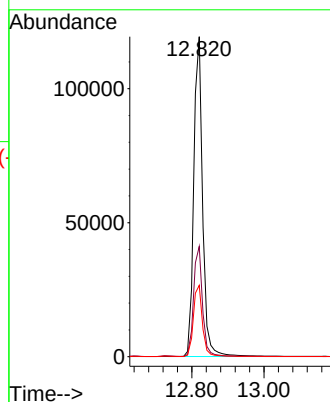
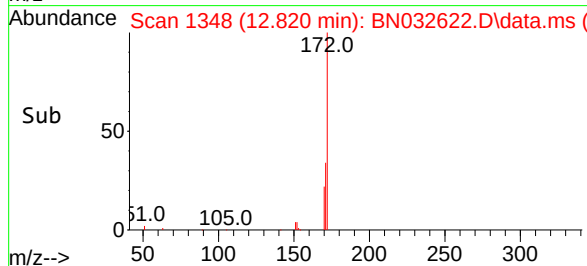
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:172 Resp: 204044
Ion Ratio Lower Upper
172 100
171 34.4 28.6 43.0
170 22.3 19.0 28.6

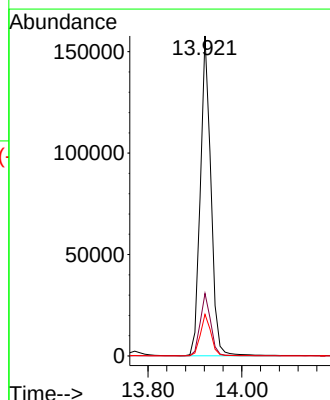
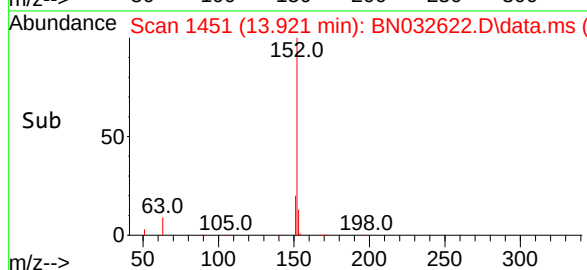
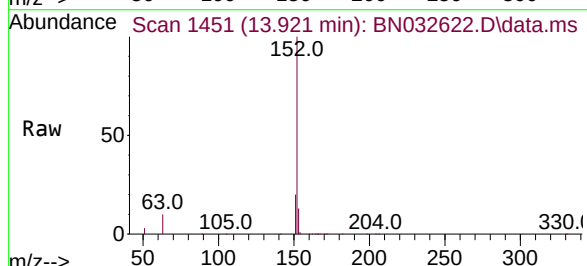
Manual Integrations
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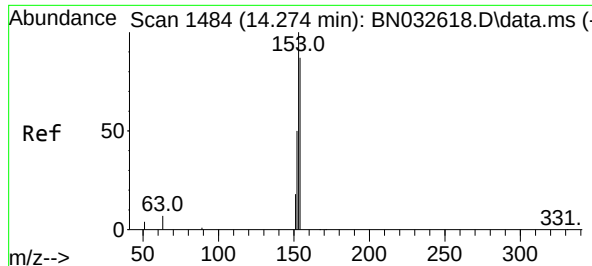
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 5.368 ng
RT: 13.921 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

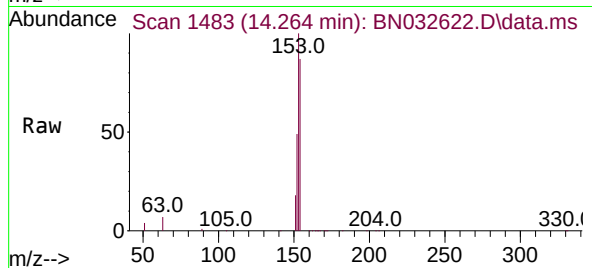
Tgt Ion:152 Resp: 246134
Ion Ratio Lower Upper
152 100
151 19.4 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 4.885 ng
RT: 14.264 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

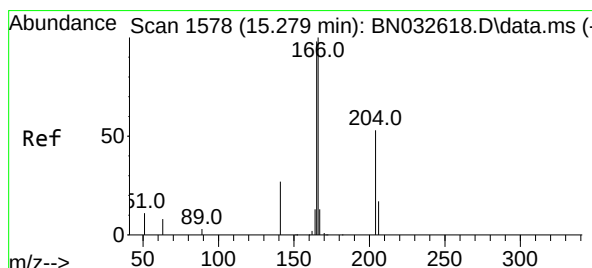
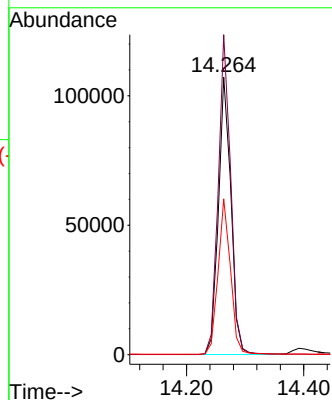
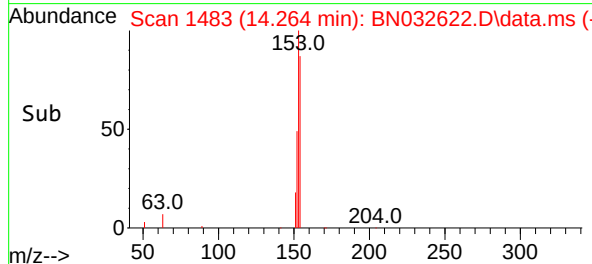
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:154 Resp: 158672
Ion Ratio Lower Upper
154 100
153 114.1 91.8 137.8
152 55.4 45.2 67.8

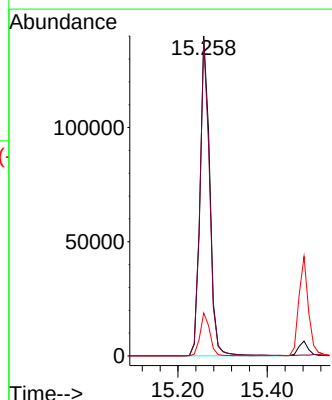
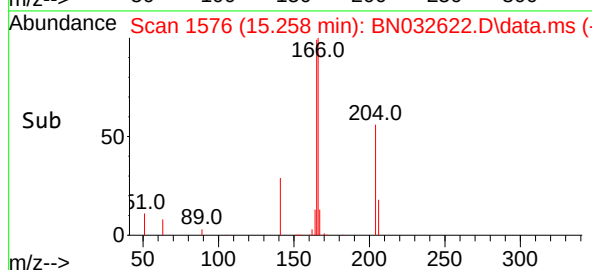
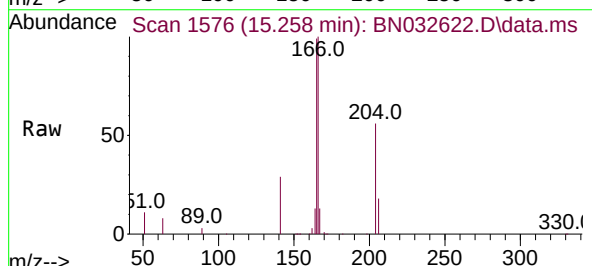
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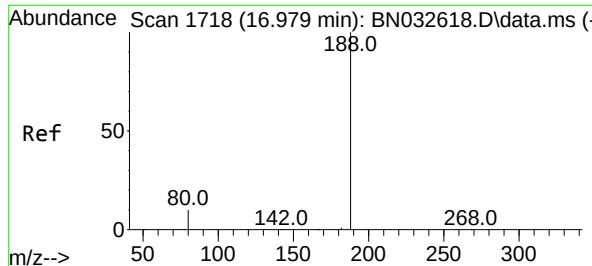
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 4.891 ng
RT: 15.258 min Scan# 1576
Delta R.T. -0.021 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:166 Resp: 212366
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

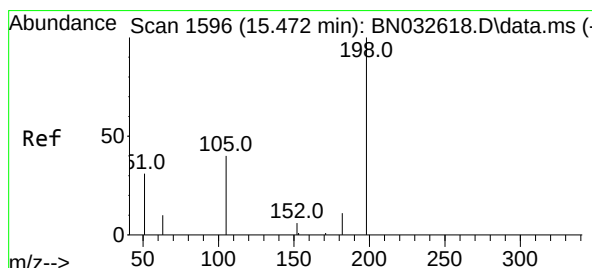
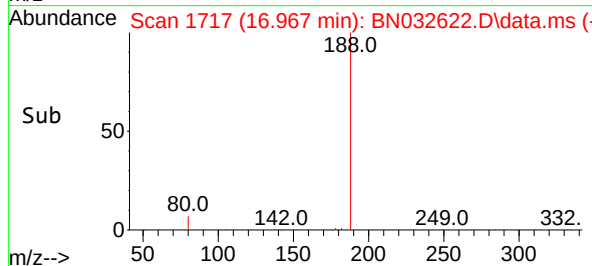
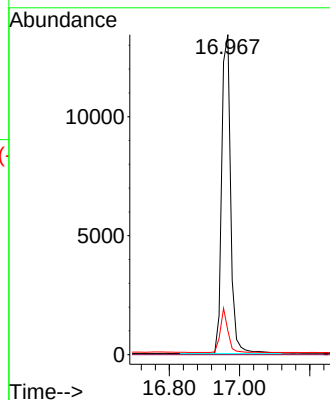
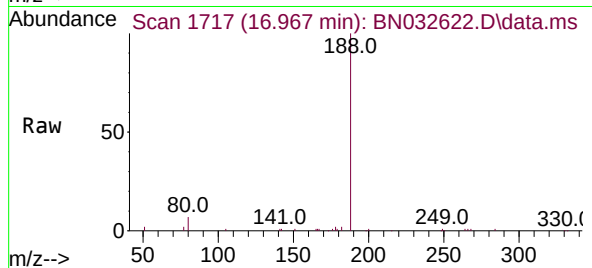
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	8.8	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 5.273 ng m

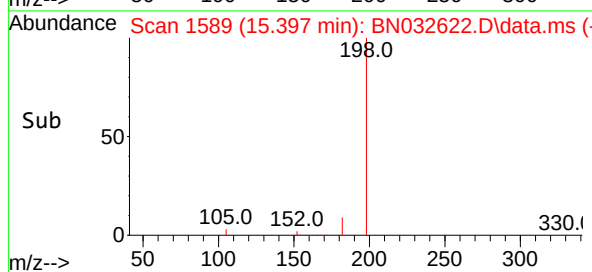
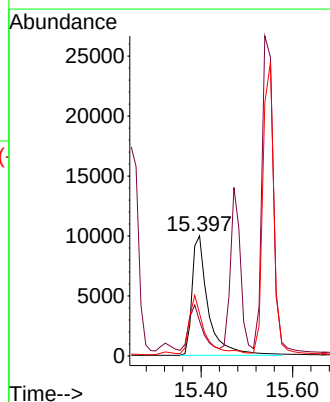
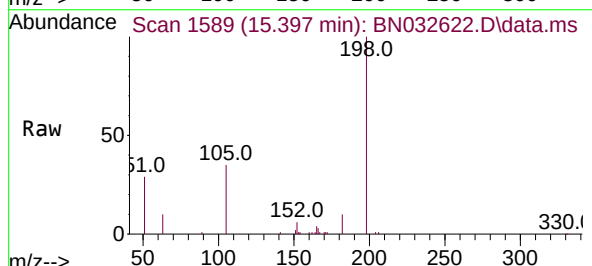
RT: 15.397 min Scan# 1589

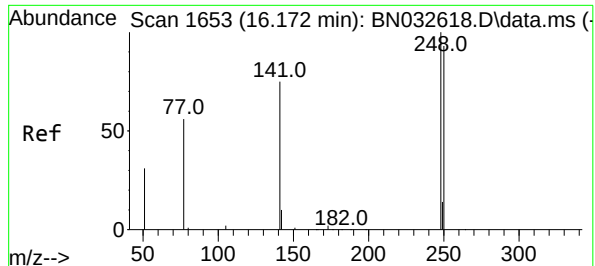
Delta R.T. -0.075 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Tgt Ion	Ratio	Lower	Upper
198	100		
51	29.0	105.7	158.5#
105	35.4	63.0	94.6#





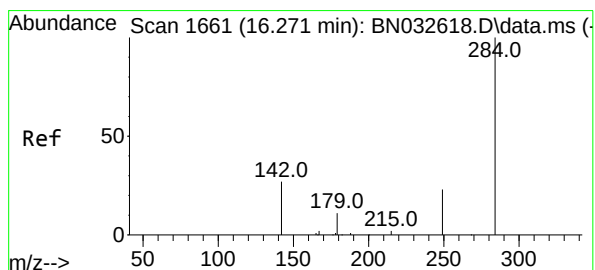
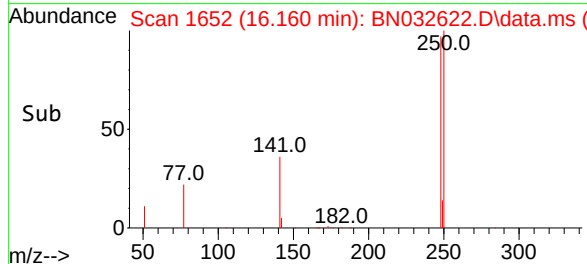
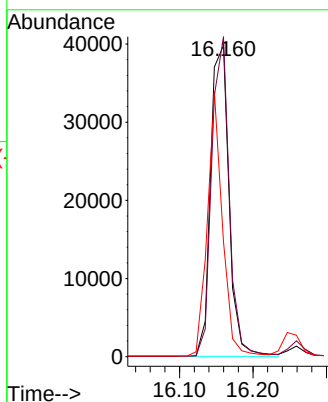
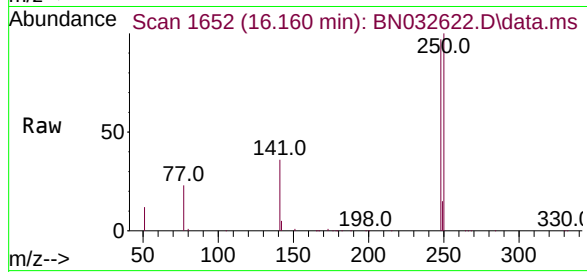
#21
4-Bromophenyl-phenylether
Concen: 4.975 ng
RT: 16.160 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 69439
Ion Ratio Lower Upper
248 100
250 102.8 75.1 112.7
141 37.0 62.0 93.0

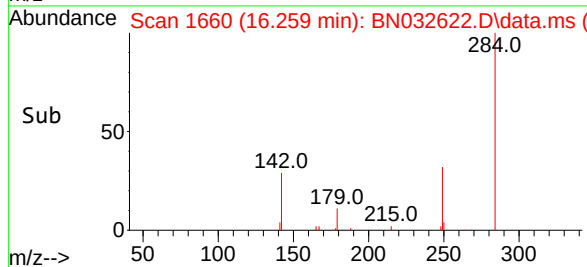
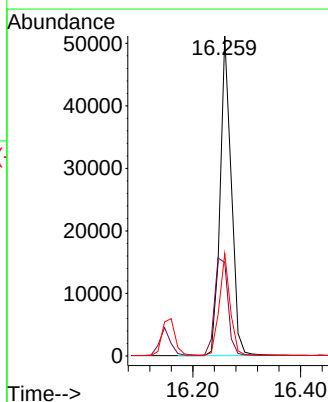
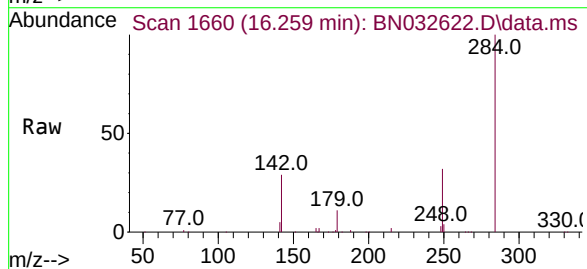
Manual Integrations
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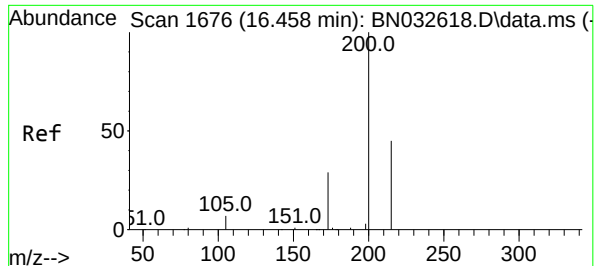
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 4.728 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:284 Resp: 73899
Ion Ratio Lower Upper
284 100
142 36.5 29.4 44.0
249 30.6 24.6 36.8





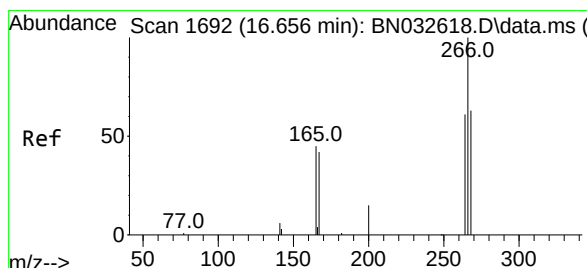
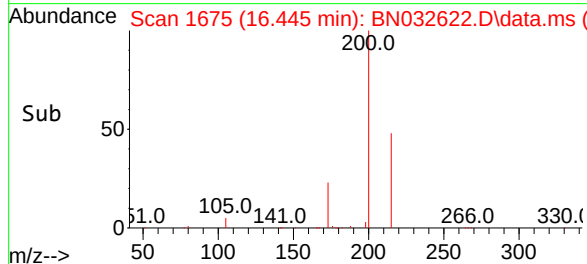
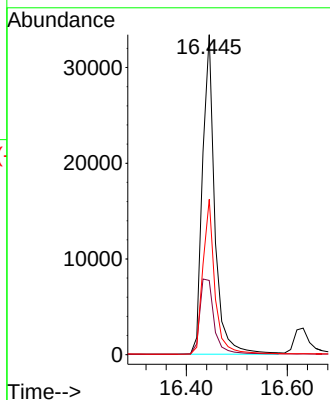
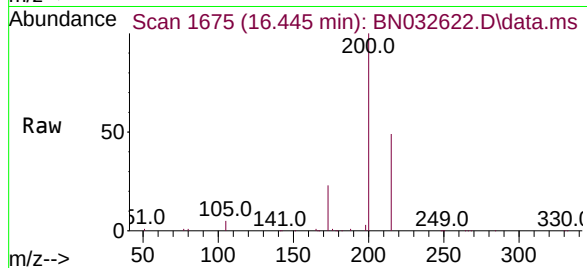
#23
Atrazine
Concen: 5.504 ng
RT: 16.445 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 56570
Ion Ratio Lower Upper
200 100
173 23.2 25.4 38.2
215 48.5 38.2 57.2

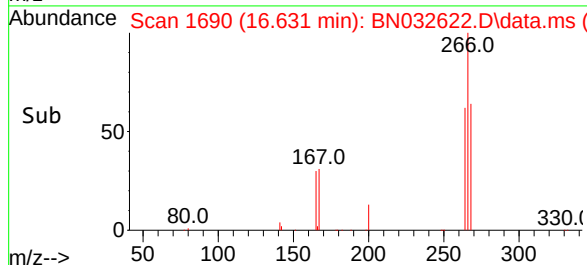
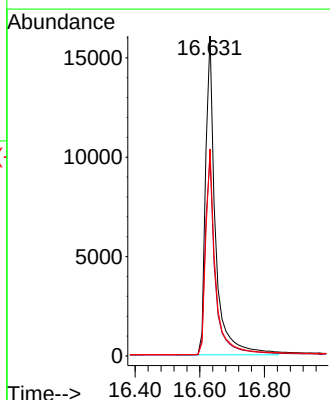
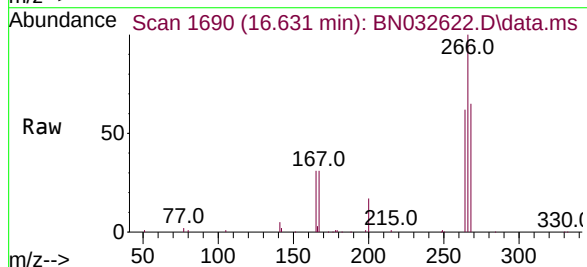
Manual Integrations
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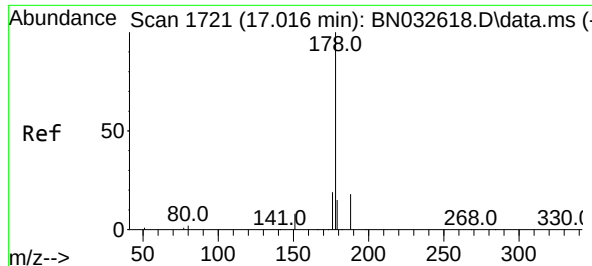
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 5.875 ng
RT: 16.631 min Scan# 1690
Delta R.T. -0.025 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:266 Resp: 34124
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 63.7 52.8 79.2





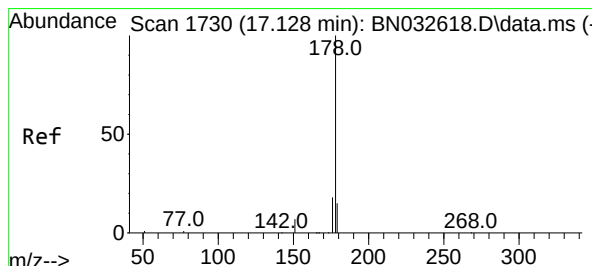
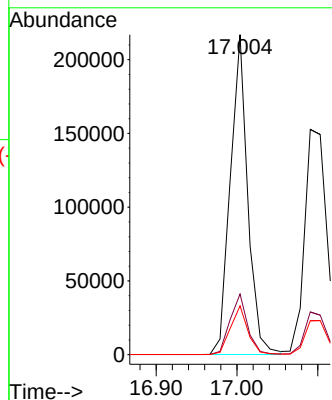
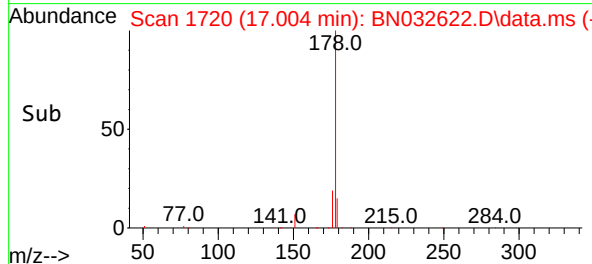
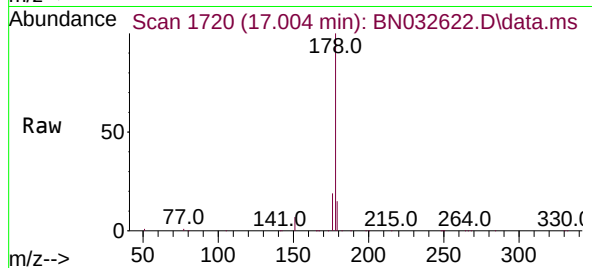
#25
Phenanthrene
Concen: 5.010 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 325230
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.2 12.2 18.4

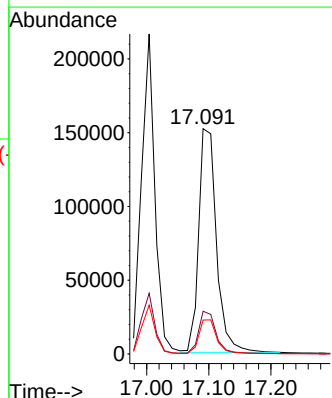
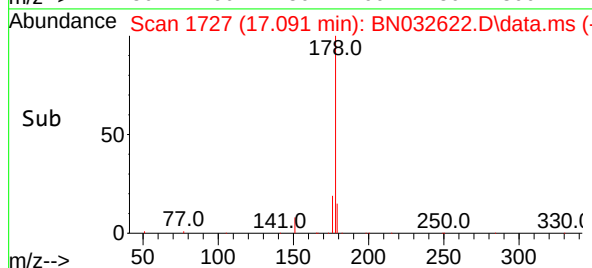
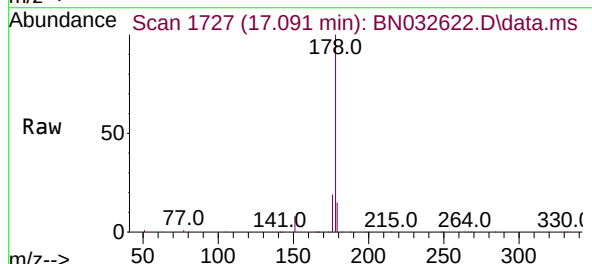
Manual Integrations
APPROVED

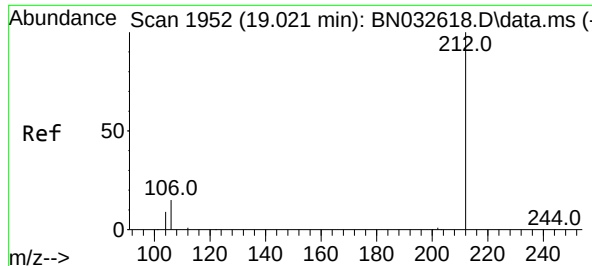
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 5.664 ng
RT: 17.091 min Scan# 1727
Delta R.T. -0.037 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:178 Resp: 302632
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 5.060 ng

RT: 19.003 min Scan# 1948

Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:212 Resp: 31096

Ion Ratio Lower Upper

212 100

106 14.9 11.9 17.9

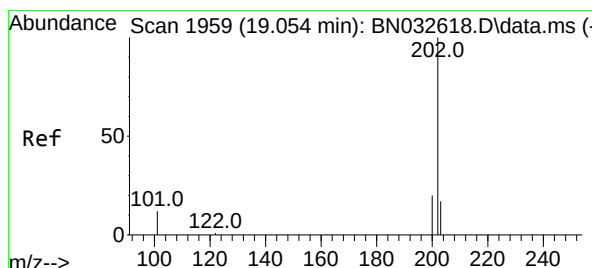
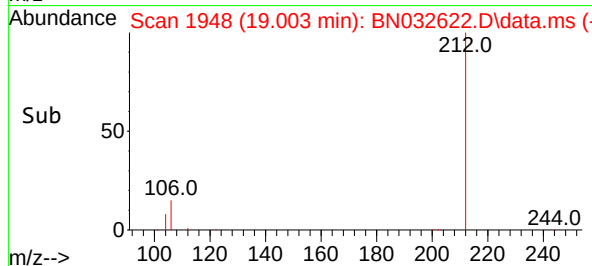
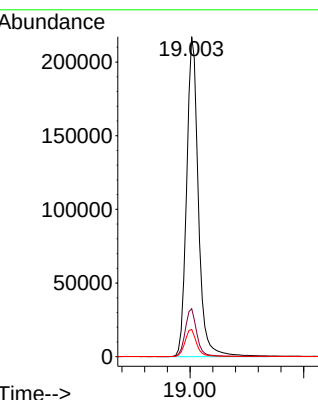
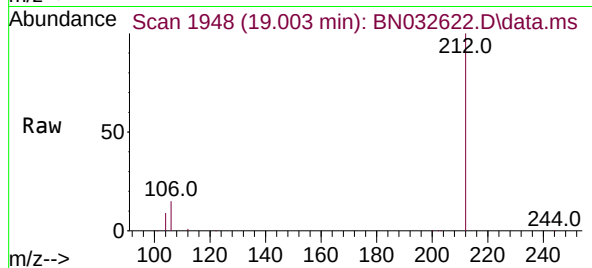
104 8.5 6.9 10.3

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 5.090 ng

RT: 19.035 min Scan# 1955

Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

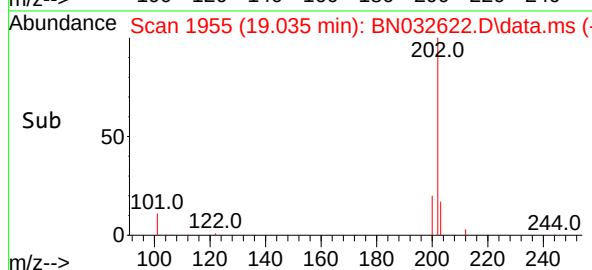
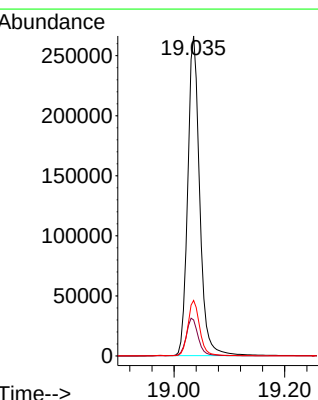
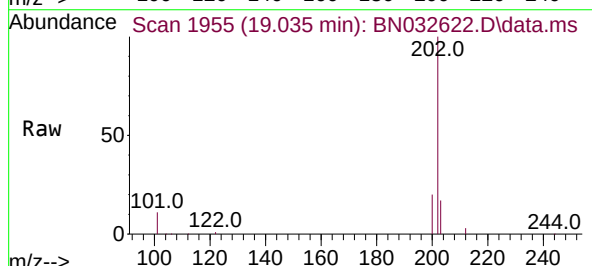
Tgt Ion:202 Resp: 399794

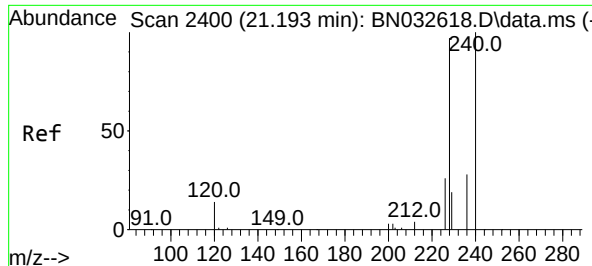
Ion Ratio Lower Upper

202 100

101 12.0 9.6 14.4

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.175 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

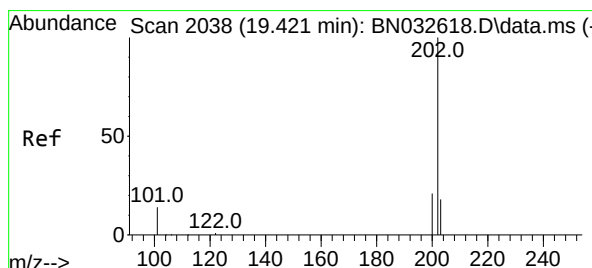
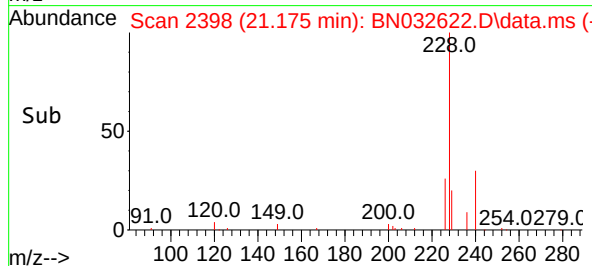
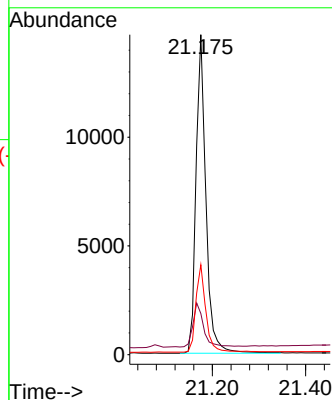
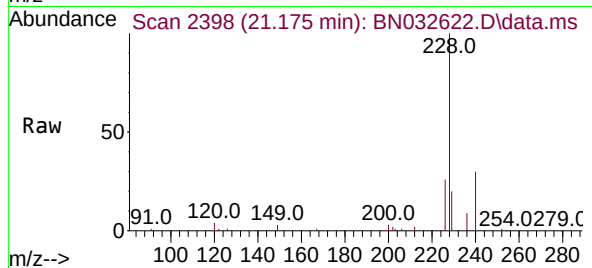
SSTDICC5.0

Tgt Ion:	240	Resp:	21678
Ion Ratio	Lower	Upper	
240	100		
120	12.8	14.8	22.2
236	28.1	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 4.600 ng

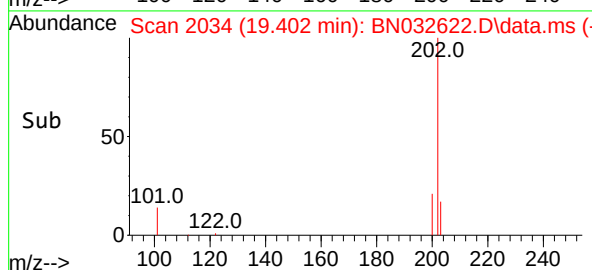
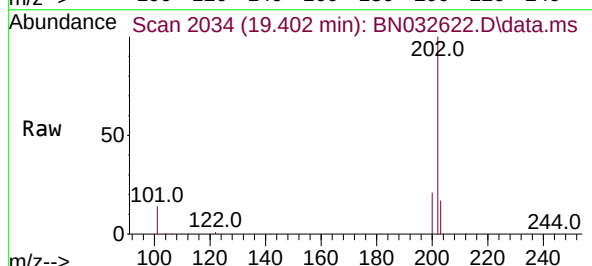
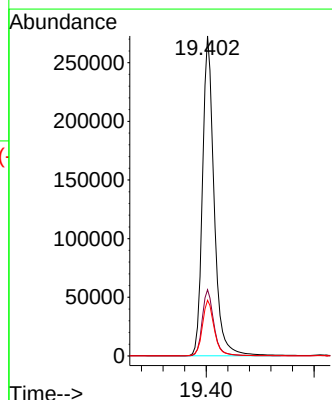
RT: 19.402 min Scan# 2034

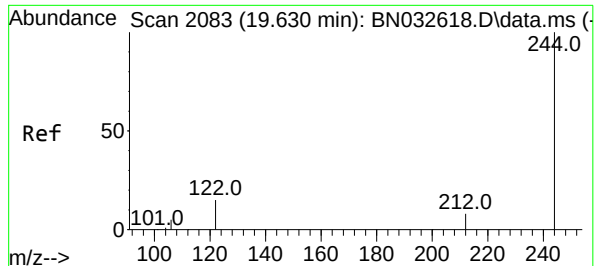
Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Tgt Ion:	202	Resp:	407347
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	17.9	14.8	22.2





#31
Terphenyl-d14
Concen: 4.680 ng
RT: 19.611 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

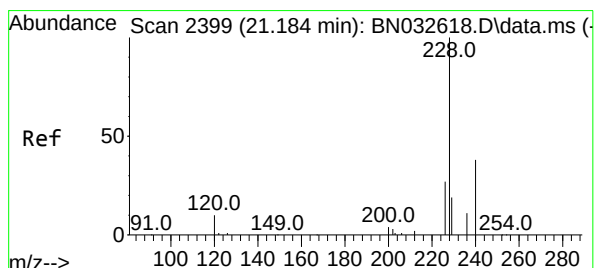
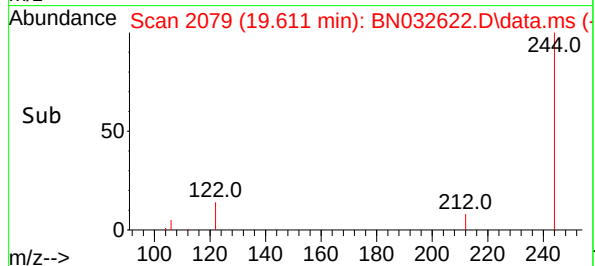
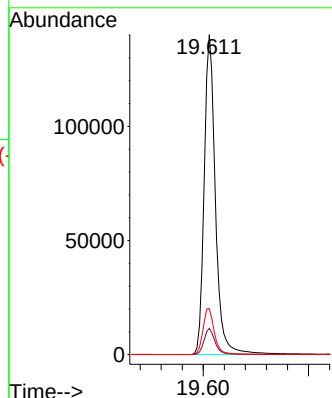
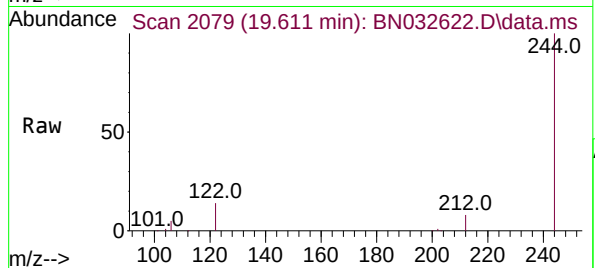
ClientSampleId :

SSTDICC5.0

Tgt Ion:244 Resp: 207960
Ion Ratio Lower Upper
244 100
212 8.2 7.5 11.3
122 14.4 12.6 19.0

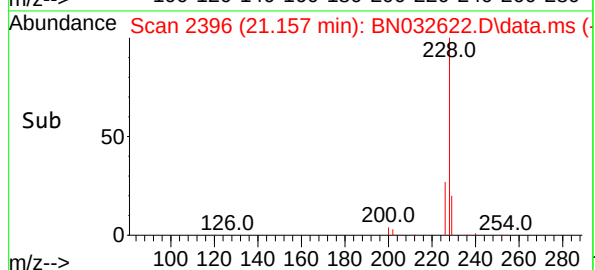
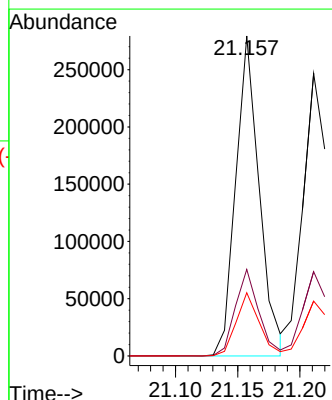
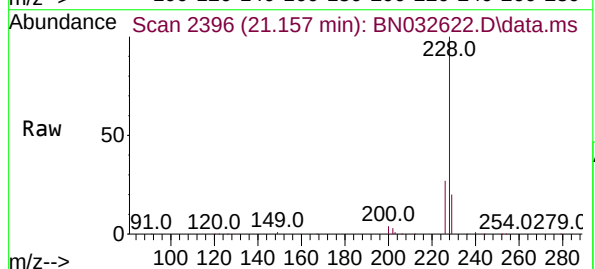
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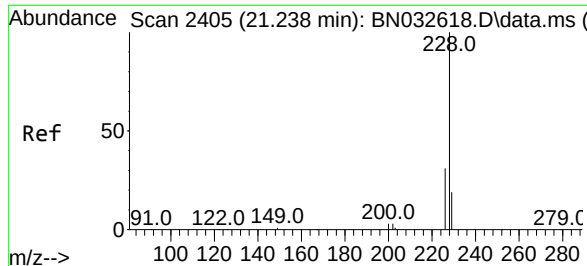
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 5.351 ng
RT: 21.157 min Scan# 2396
Delta R.T. -0.027 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:228 Resp: 366789
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.6
229 19.7 16.0 24.0





#33

Chrysene

Concen: 4.689 ng

RT: 21.211 min Scan# 2402

Delta R.T. -0.027 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:228 Resp: 382139

Ion Ratio Lower Upper

228 100

226 29.9 24.2 36.2

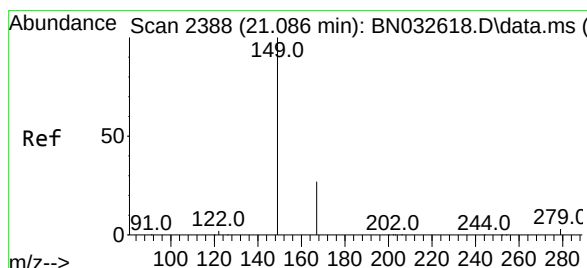
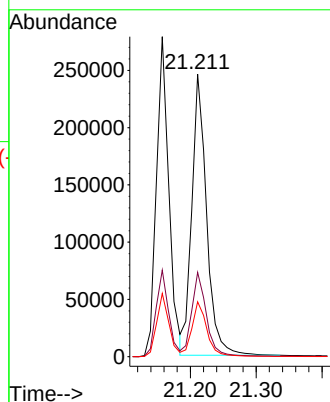
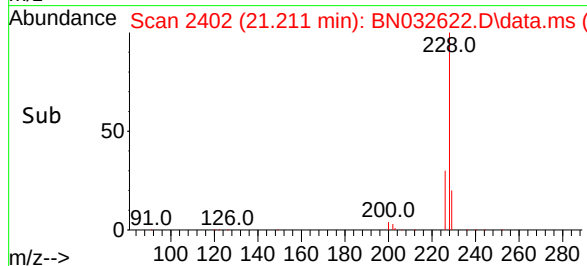
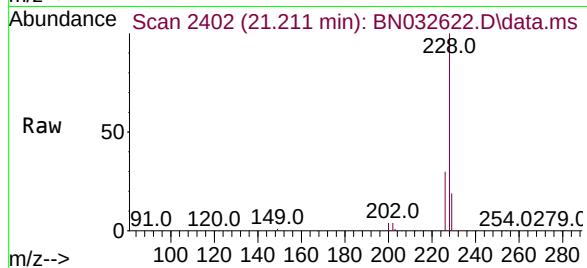
229 19.4 16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.732 ng

RT: 21.077 min Scan# 2387

Delta R.T. -0.009 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

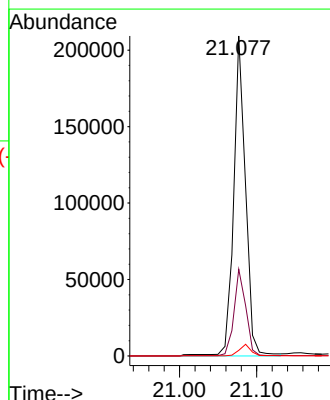
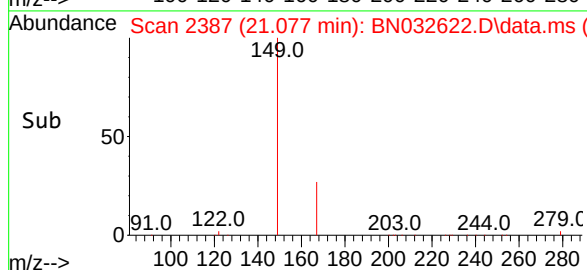
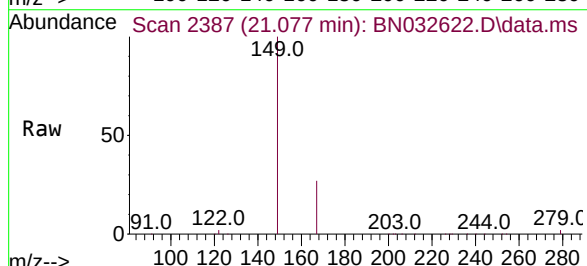
Tgt Ion:149 Resp: 217511

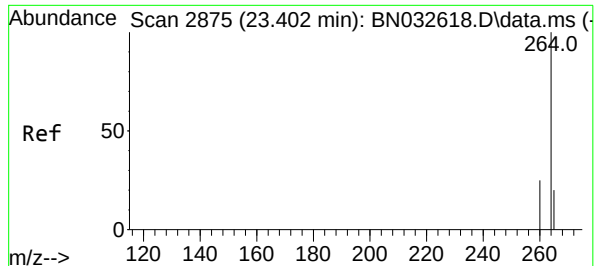
Ion Ratio Lower Upper

149 100

167 27.6 21.4 32.2

279 4.0 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.382 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

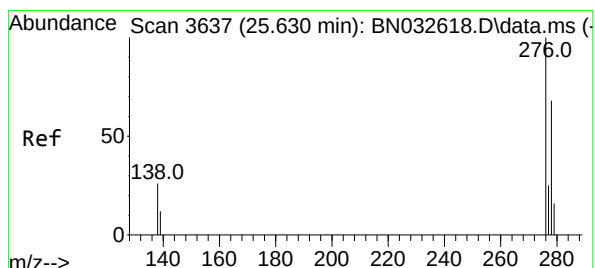
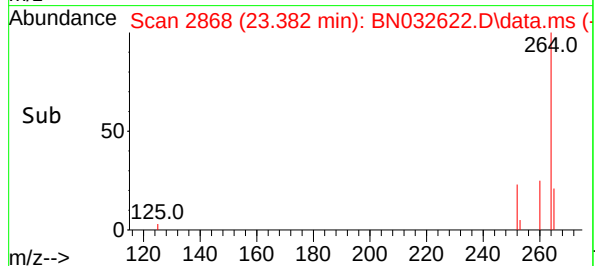
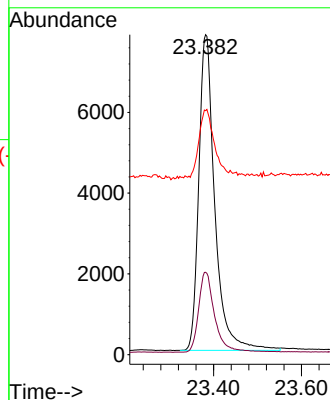
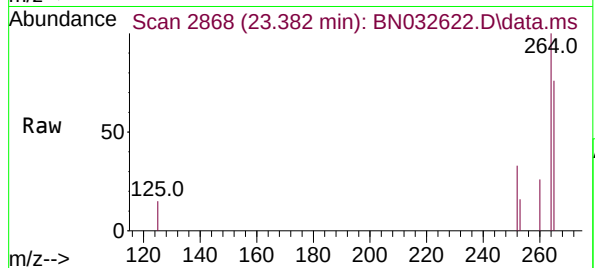
Tgt Ion:264	Resp:	1982
Ion Ratio	Lower	Upper
264	100	
260	25.7	20.9 31.3
265	76.3	85.4 128.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.879 ng

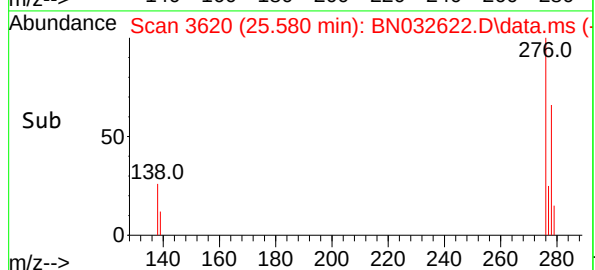
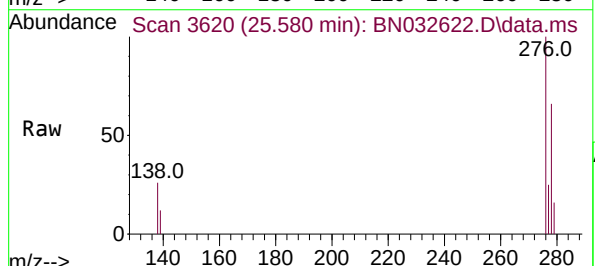
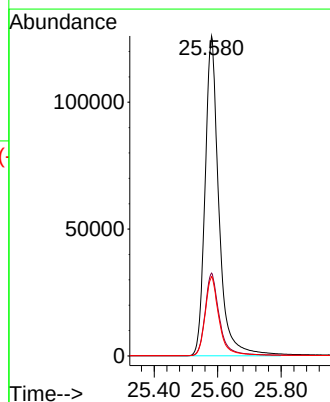
RT: 25.580 min Scan# 3620

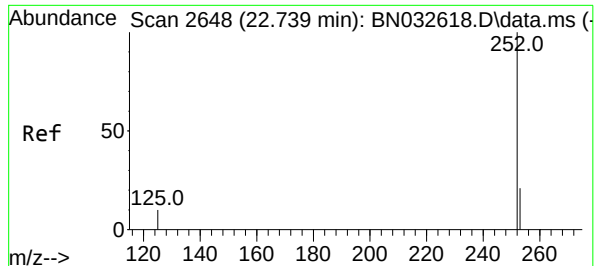
Delta R.T. -0.050 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

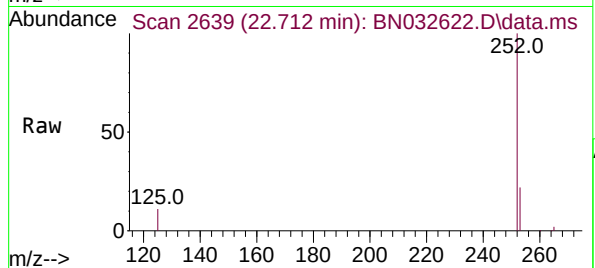
Tgt Ion:276	Resp:	381332
Ion Ratio	Lower	Upper
276	100	
138	26.8	21.0 31.4
277	24.9	19.5 29.3





#37
Benzo(b)fluoranthene
Concen: 5.420 ng
RT: 22.712 min Scan# 2639
Delta R.T. -0.026 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

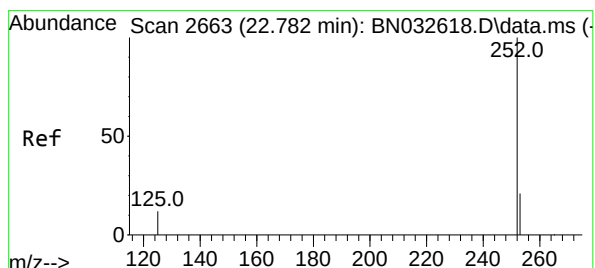
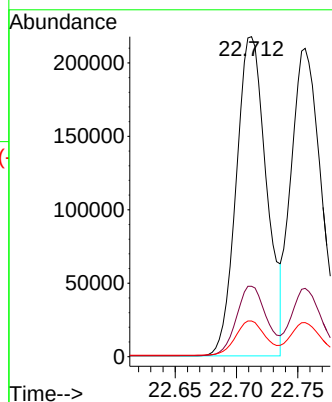
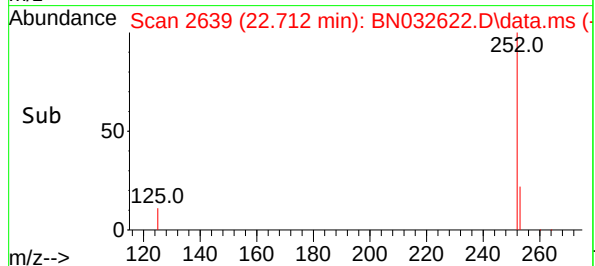
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:252 Resp: 37432
Ion Ratio Lower Upper
252 100
253 22.0 22.3 33.5#
125 11.1 15.4 23.2#

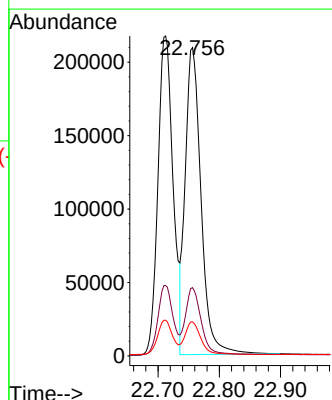
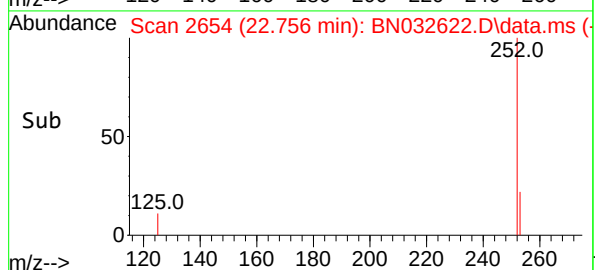
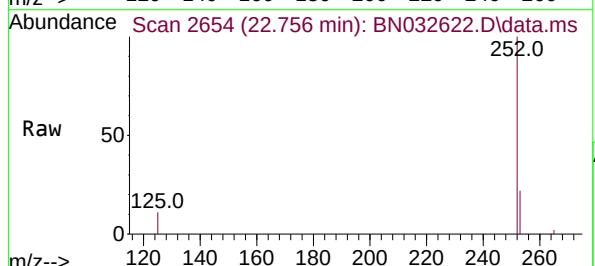
Manual Integrations
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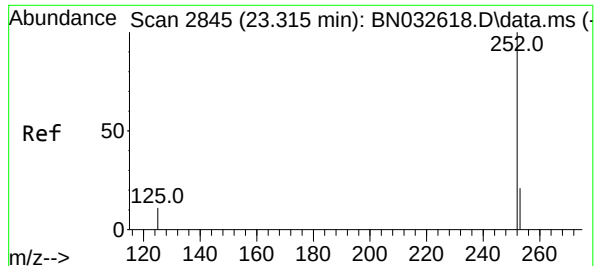
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#38
Benzo(k)fluoranthene
Concen: 4.692 ng
RT: 22.756 min Scan# 2654
Delta R.T. -0.026 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:252 Resp: 375339
Ion Ratio Lower Upper
252 100
253 22.1 22.6 34.0#
125 11.0 16.2 24.4#





#39

Benzo(a)pyrene

Concen: 5.064 ng

RT: 23.282 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN032622.D

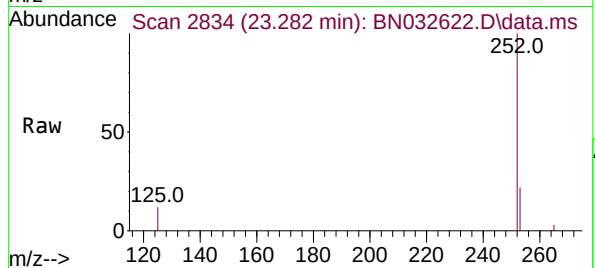
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



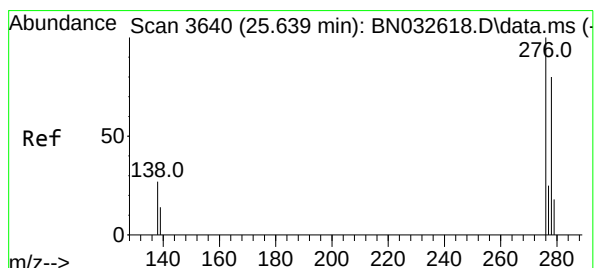
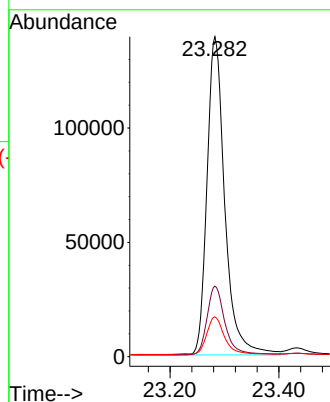
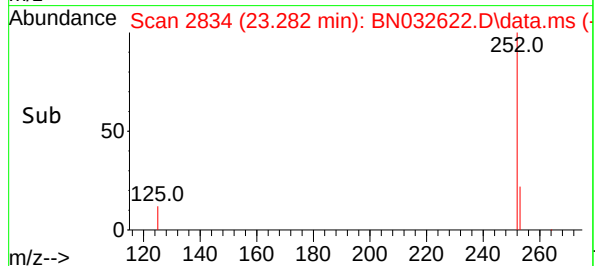
Tgt Ion:	252	Resp:	31536
Ion Ratio	Lower	Upper	
252	100		
253	22.0	25.8	38.8
125	12.4	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

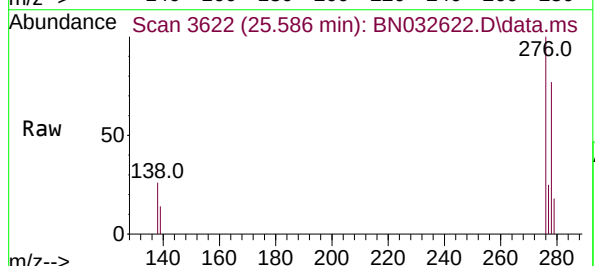
Concen: 4.931 ng

RT: 25.586 min Scan# 3622

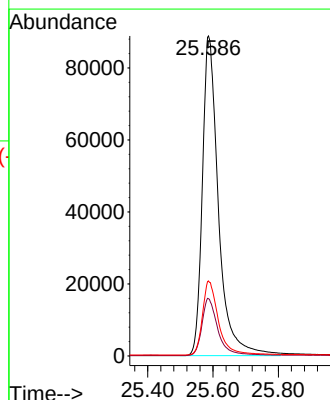
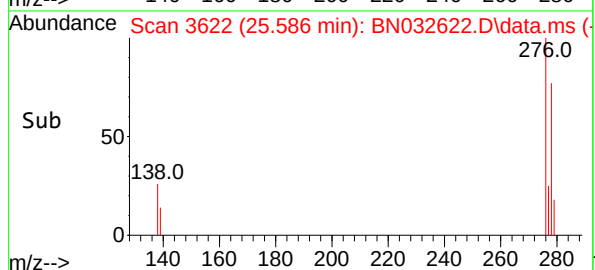
Delta R.T. -0.053 min

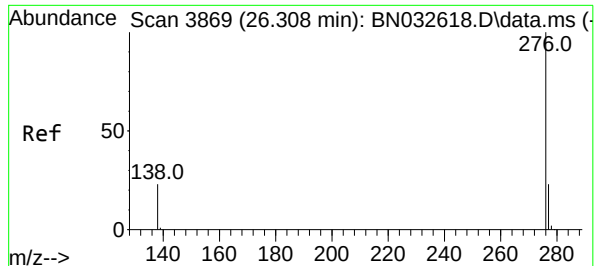
Lab File: BN032622.D

Acq: 10 Jul 2024 19:32



Tgt Ion:	278	Resp:	304385
Ion Ratio	Lower	Upper	
278	100		
139	17.9	16.7	25.1
279	23.5	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 4.686 ng

RT: 26.262 min Scan# 3853

Delta R.T. -0.047 min

Lab File: BN032622.D

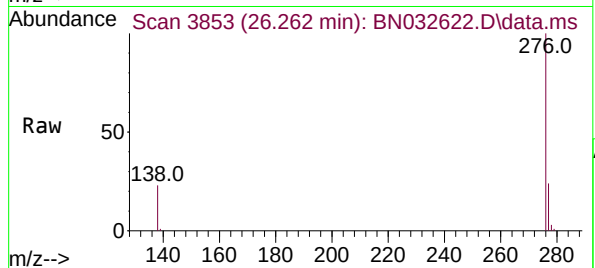
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:276 Resp: 32041

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

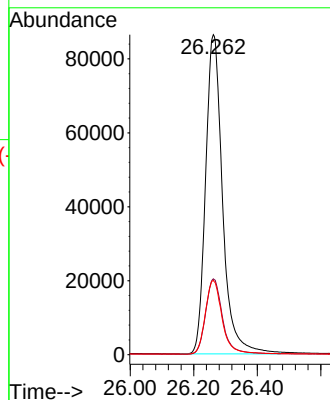
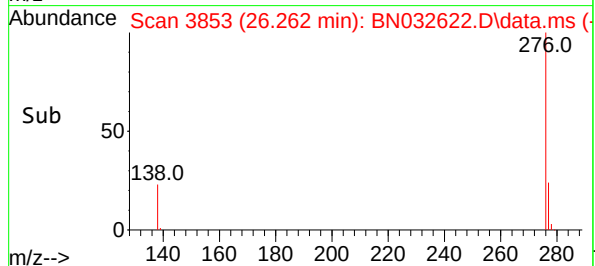
138 23.2 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032623.D
 Acq On : 10 Jul 2024 20:44
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:47:50 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:45:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.574	152	4425	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	13963	0.400	ng	0.00
13) Acenaphthene-d10	14.210	164	9406	0.400	ng	0.00
19) Phenanthrene-d10	16.979	188	20502	0.400	ng	0.00
29) Chrysene-d12	21.193	240	17938	0.400	ng	# 0.00
35) Perylene-d12	23.394	264	18072	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.198	112	4257	0.380	ng	0.00
5) Phenol-d6	6.808	99	5393	0.388	ng	0.01
8) Nitrobenzene-d5	8.788	82	3952	0.376	ng	0.01
11) 2-Methylnaphthalene-d10	11.964	152	8485	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.738	330	1428	0.355	ng	0.00
15) 2-Fluorobiphenyl	12.852	172	13887	0.397	ng	0.00
27) Fluoranthene-d10	19.021	212	21133	0.398	ng	0.00
31) Terphenyl-d14	19.630	244	14058	0.382	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	2178	0.397	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.472	42	1759	0.380	ng	# 100
6) bis(2-Chloroethyl)ether	7.032	93	4684	0.403	ng	94
9) Naphthalene	10.400	128	15368	0.397	ng	100
10) Hexachlorobutadiene	10.645	225	3010	0.407	ng	# 99
12) 2-Methylnaphthalene	12.039	142	9814	0.388	ng	98
16) Acenaphthylene	13.932	152	13967	0.365	ng	100
17) Acenaphthene	14.274	154	10787	0.398	ng	100
18) Fluorene	15.279	166	14327	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.472	198	674	0.444	ng	97
21) 4-Bromophenyl-phenylether	16.172	248	4677	0.388	ng	99
22) Hexachlorobenzene	16.272	284	5260	0.390	ng	100
23) Atrazine	16.458	200	3292	0.371	ng	97
24) Pentachlorophenol	16.669	266	1468	0.293	ng	99
25) Phenanthrene	17.016	178	21755	0.388	ng	100
26) Anthracene	17.128	178	16228	0.352	ng	99
28) Fluoranthene	19.054	202	26952	0.398	ng	100
30) Pyrene	19.416	202	27755	0.379	ng	99
32) Benzo(a)anthracene	21.175	228	20336	0.359	ng	99
33) Chrysene	21.229	228	28529	0.423	ng	100
34) Bis(2-ethylhexyl)phtha...	21.077	149	11763	0.375	ng	100
36) Indeno(1,2,3-cd)pyrene	25.613	276	27205	0.382	ng	100
37) Benzo(b)fluoranthene	22.730	252	23079	0.367	ng	97
38) Benzo(k)fluoranthene	22.777	252	27788m	0.386	ng	
39) Benzo(a)pyrene	23.306	252	21341	0.376	ng	95
40) Dibenzo(a,h)anthracene	25.624	278	21513	0.382	ng	97
41) Benzo(g,h,i)perylene	26.294	276	24178	0.388	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032623.D
 Acq On : 10 Jul 2024 20:44
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

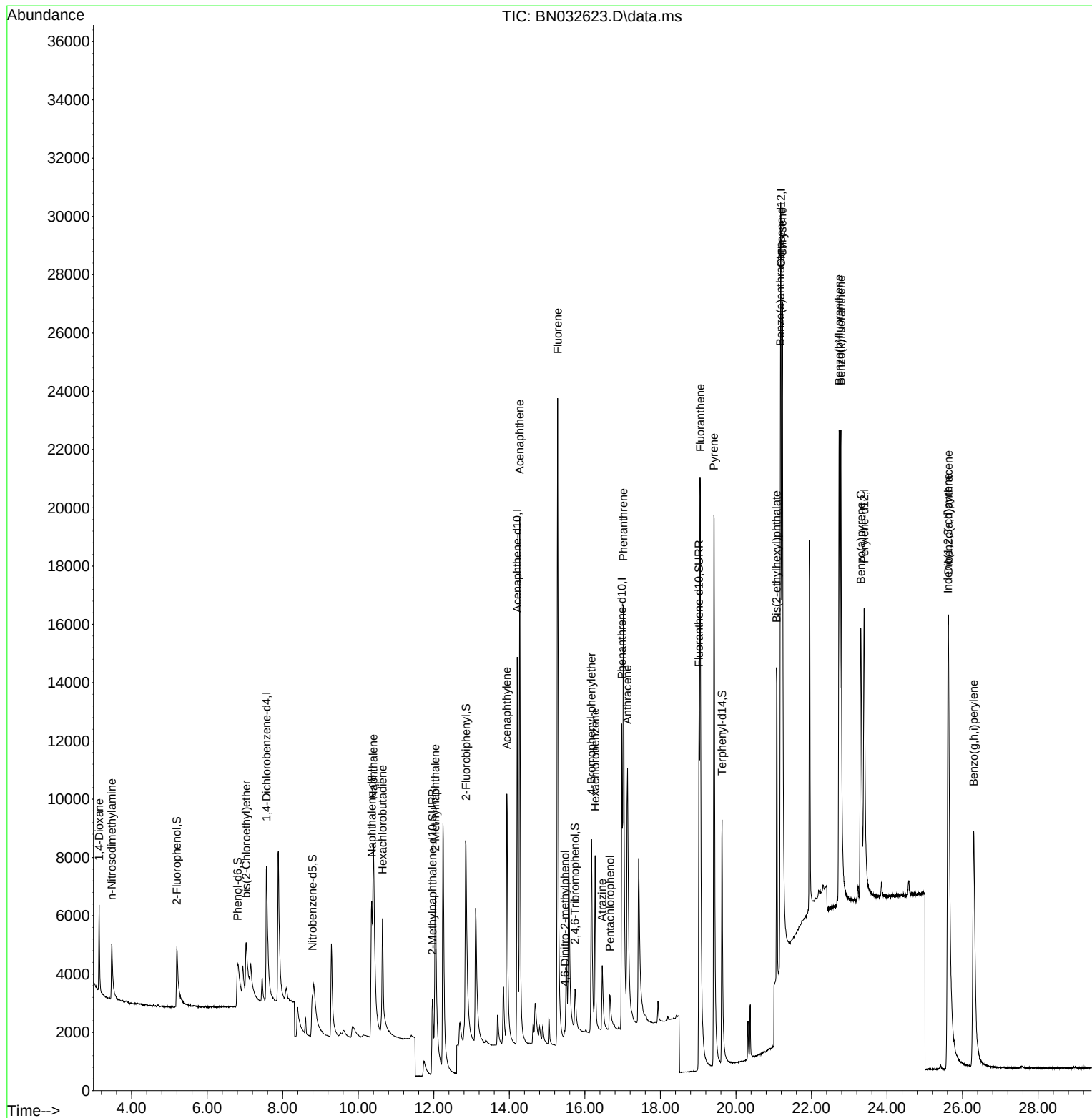
Manual Integrations

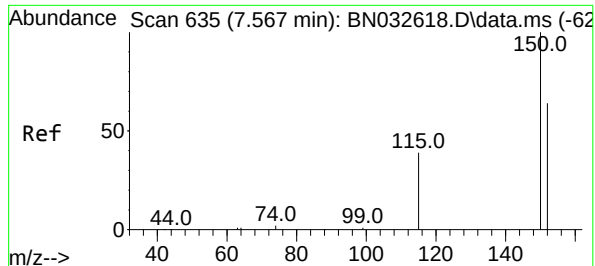
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

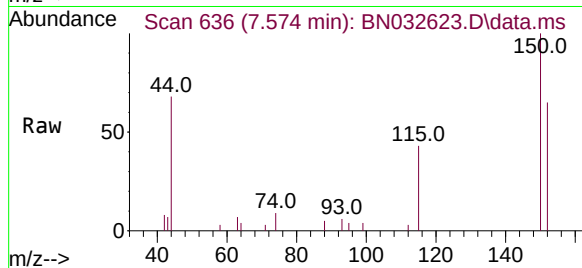
Quant Time: Jul 10 23:47:50 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 10 23:45:48 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.574 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

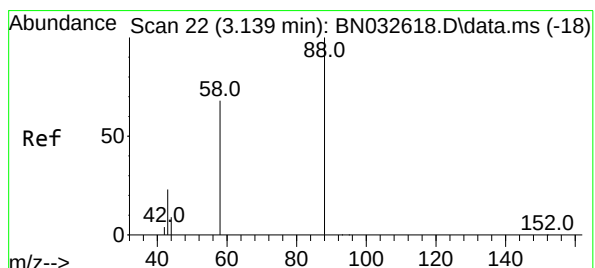
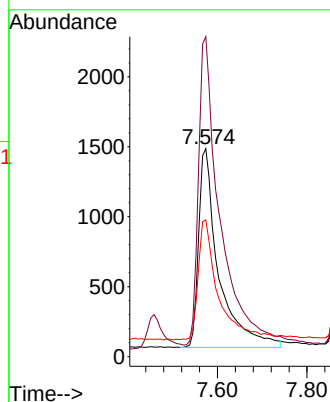
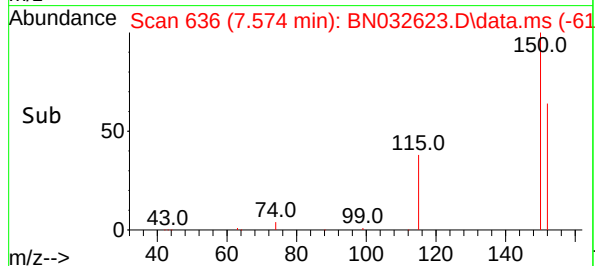
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



Tgt Ion: 152 Resp: 442
Ion Ratio Lower Upper
152 100
150 153.8 123.8 185.6
115 65.7 52.8 79.2

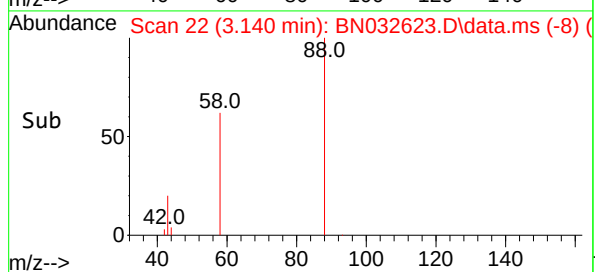
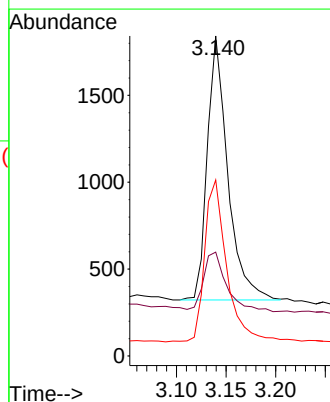
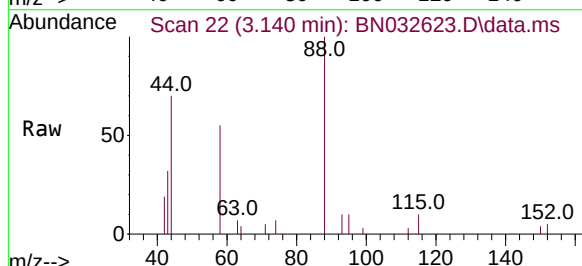
Manual Integrations
APPROVED

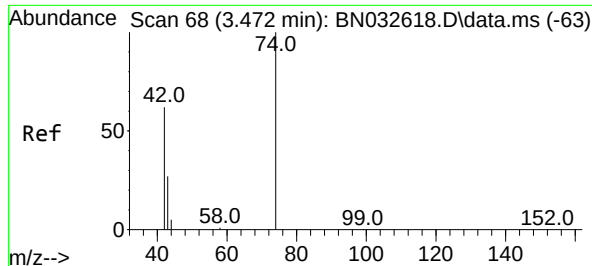
Reviewed By : Yogesh Patel 07/11/2024
Supervised By : mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.397 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion: 88 Resp: 2178
Ion Ratio Lower Upper
88 100
43 25.1 18.4 27.6
58 66.0 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.380 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

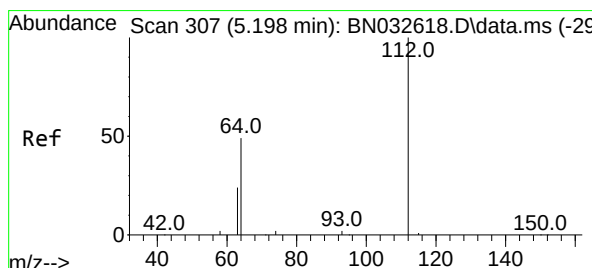
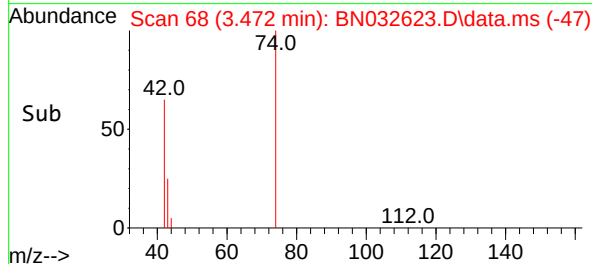
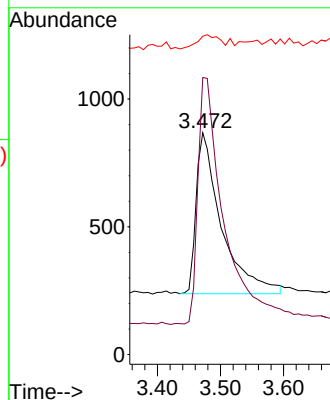
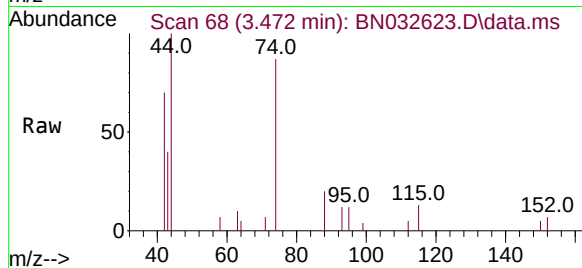
ICVBN071124

Tgt Ion	Ratio	Lower	Upper
42	100		
74	158.7	126.9	190.3
44	7.7	4.8	7.2

Manual Integrations
APPROVED

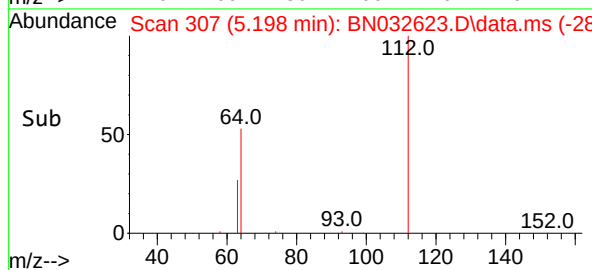
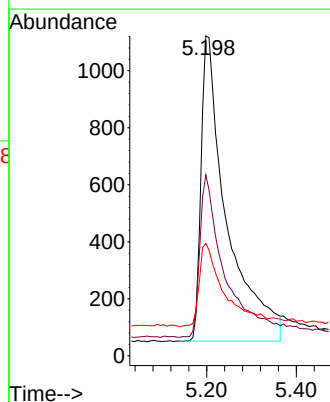
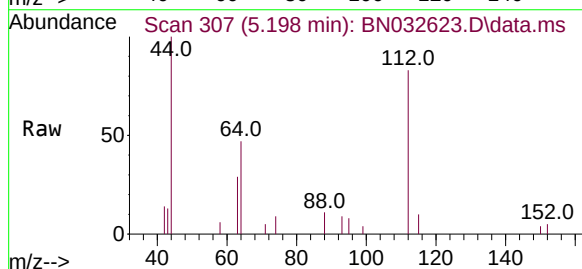
Reviewed By :Yogesh Patel 07/11/2024

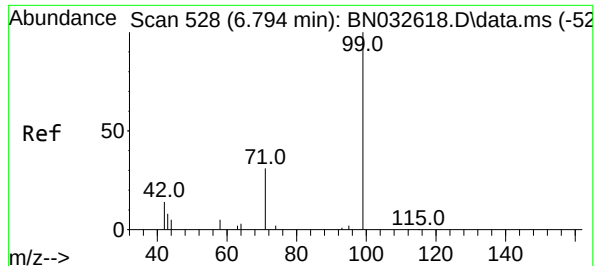
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.380 ng
RT: 5.198 min Scan# 307
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.0	40.2	60.4
63	27.2	22.2	33.4





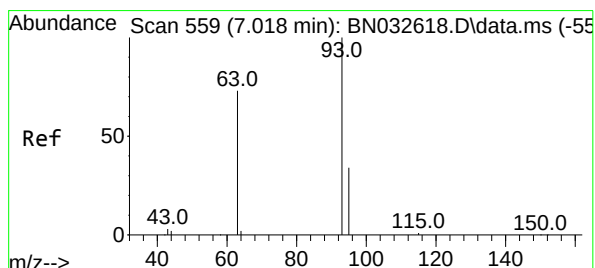
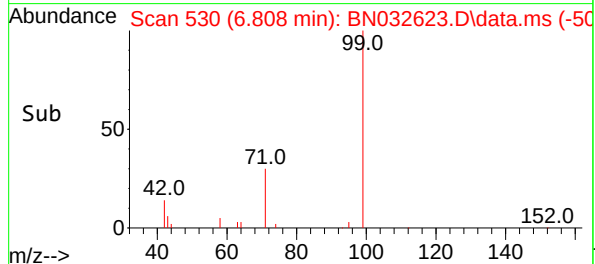
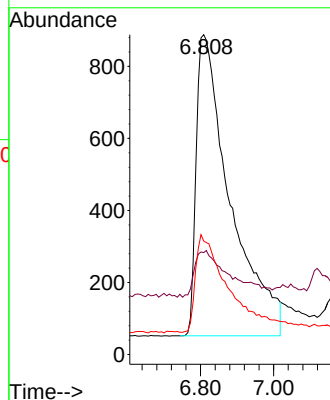
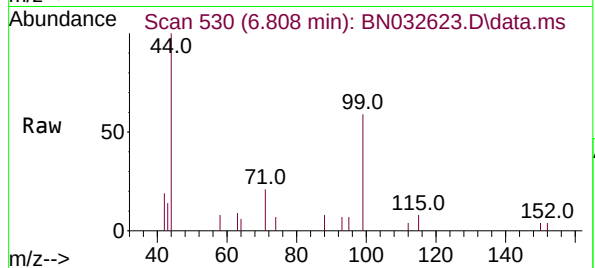
#5
Phenol-d6
Concen: 0.388 ng
RT: 6.808 min Scan# 51
Delta R.T. 0.015 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion: 99 Resp: 539
Ion Ratio Lower Upper
99 100
42 16.6 10.5 15.7
71 31.5 22.3 33.5

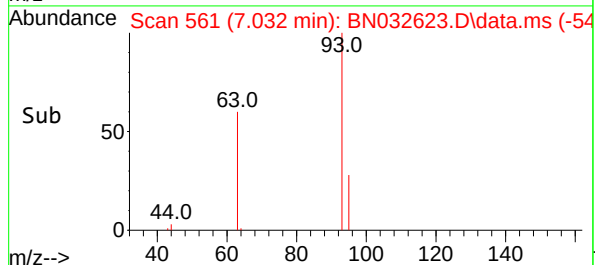
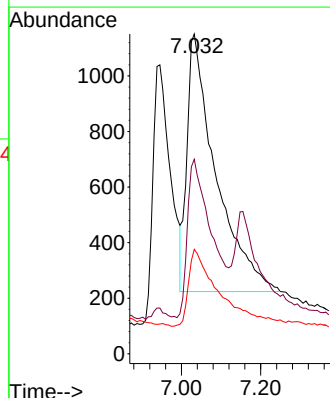
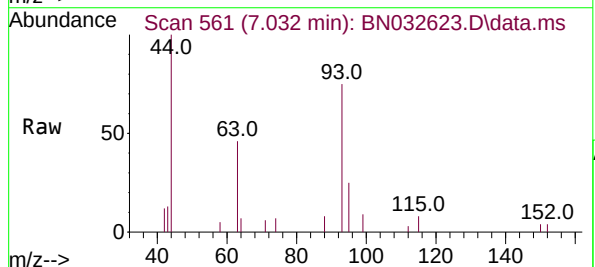
Manual Integrations
APPROVED

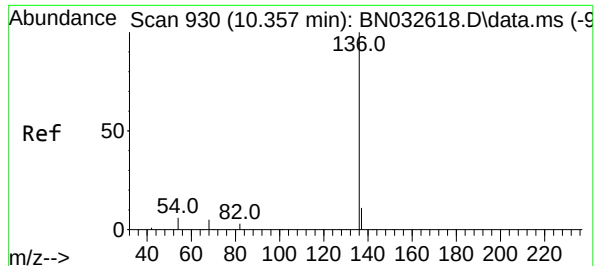
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.032 min Scan# 561
Delta R.T. 0.015 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion: 93 Resp: 4684
Ion Ratio Lower Upper
93 100
63 51.7 46.4 69.6
95 32.0 25.5 38.3





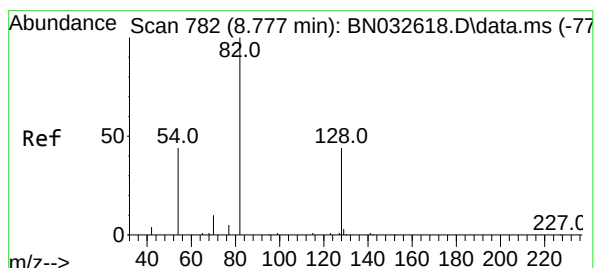
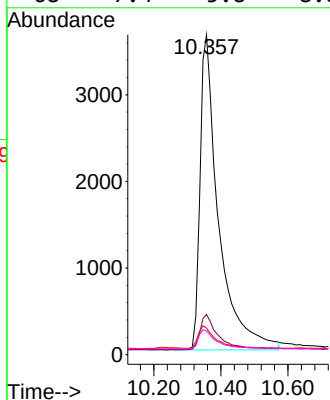
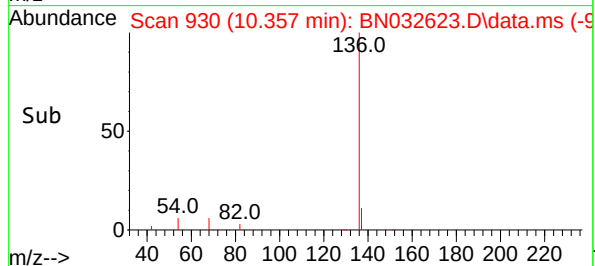
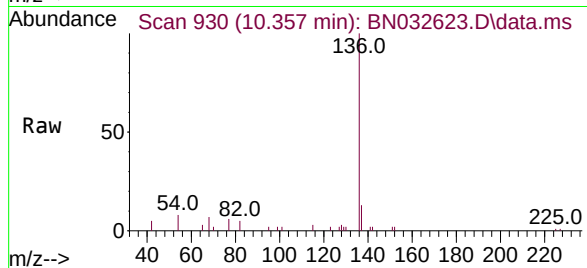
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.9	14.9
54	8.3	6.5	9.7
68	7.4	5.8	8.8

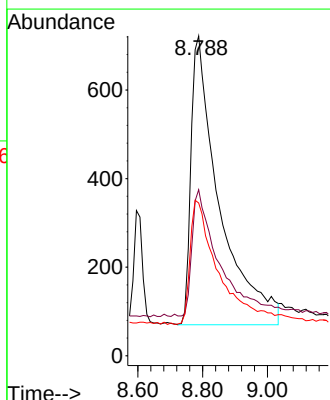
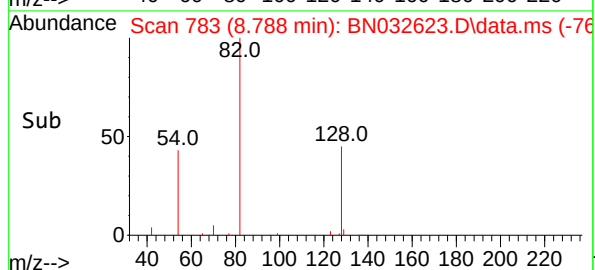
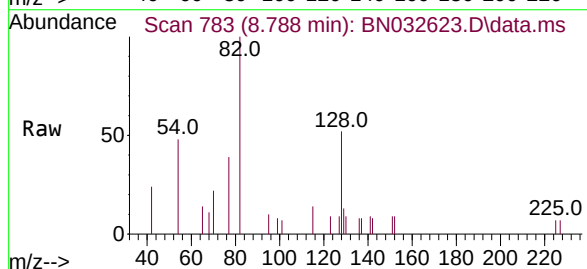
Manual Integrations
APPROVED

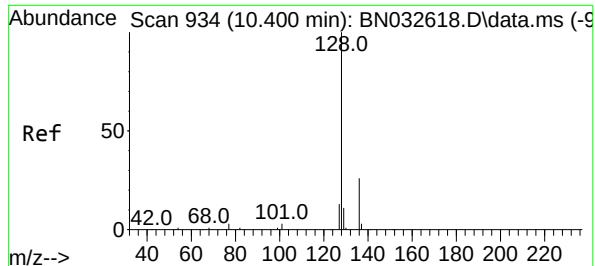
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.376 ng
RT: 8.788 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
82	100		
128	51.9	41.7	62.5
54	47.8	39.5	59.3





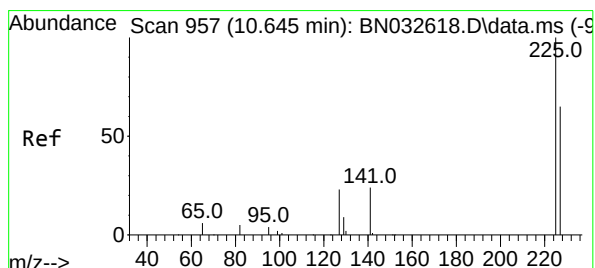
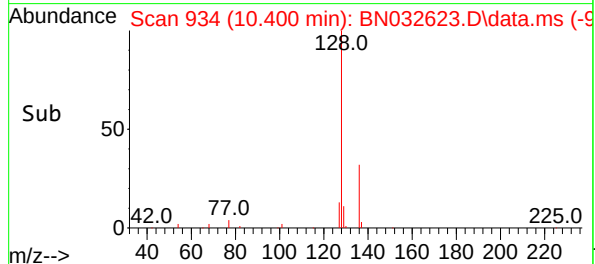
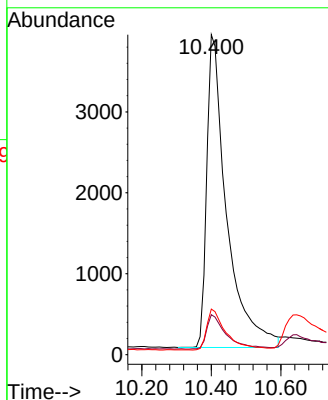
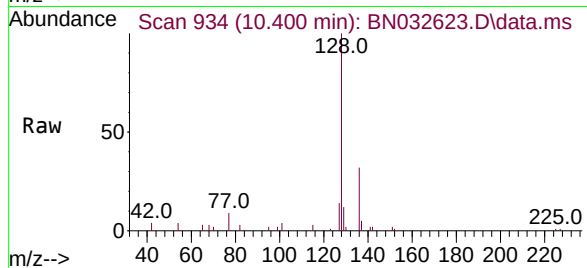
#9
Naphthalene
Concen: 0.397 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:128 Resp: 1536
Ion Ratio Lower Upper
128 100
129 12.5 9.8 14.8
127 14.3 11.5 17.3

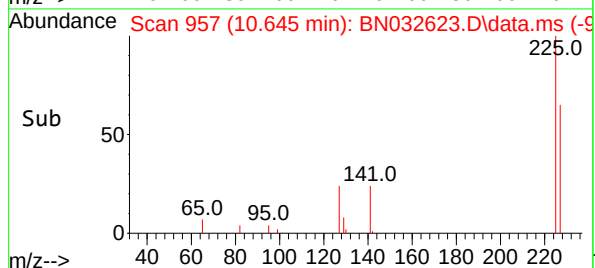
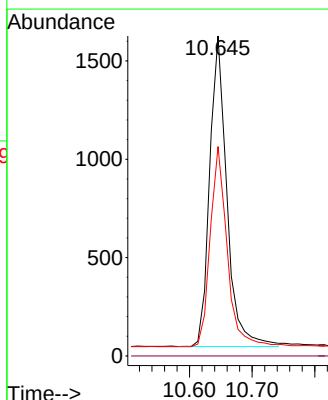
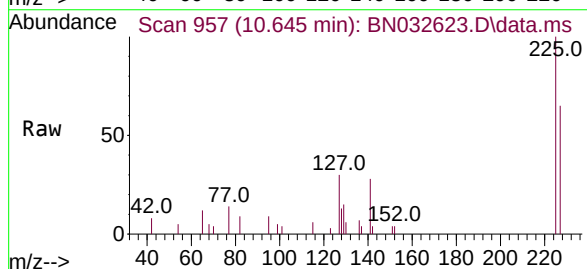
Manual Integrations
APPROVED

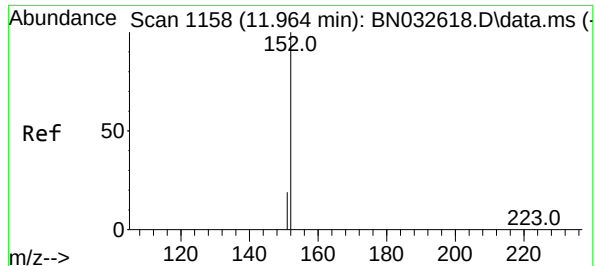
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.407 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

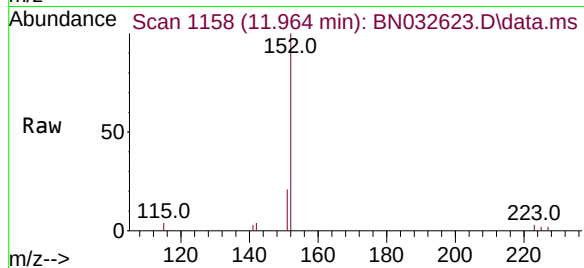
Tgt Ion:225 Resp: 3010
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.964 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

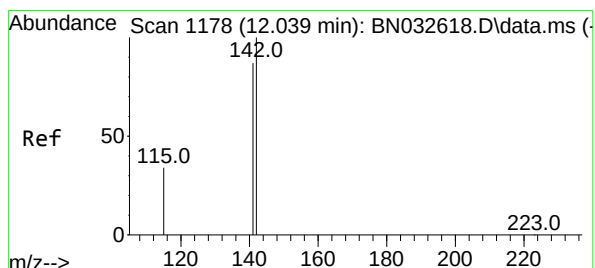
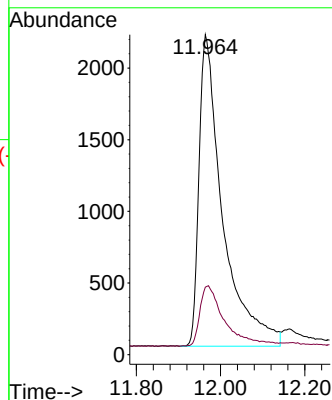
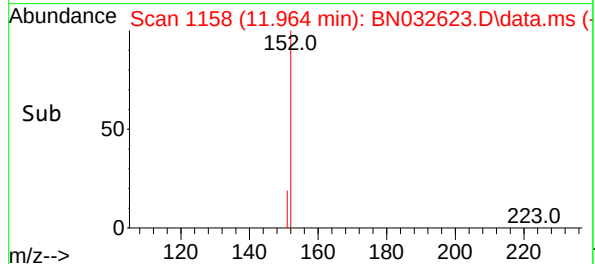
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



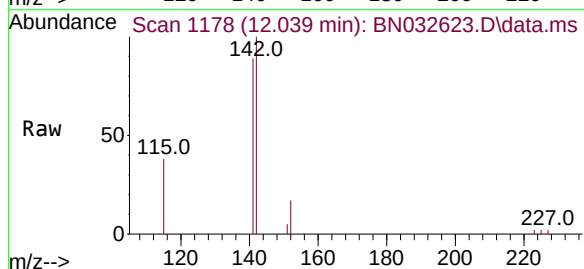
Tgt Ion:152 Resp: 848
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2

Manual Integrations
APPROVED

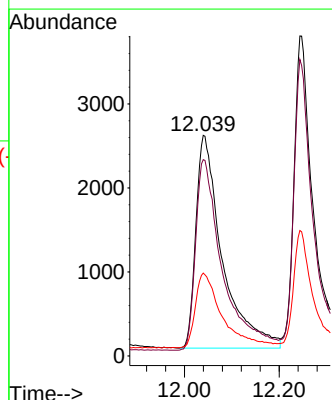
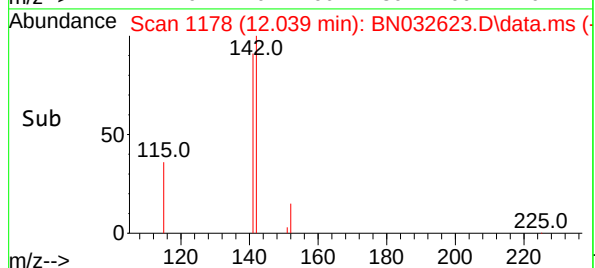
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

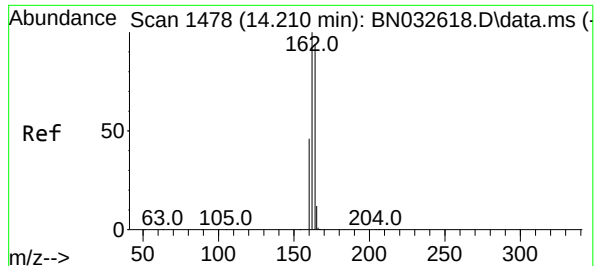


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.039 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44



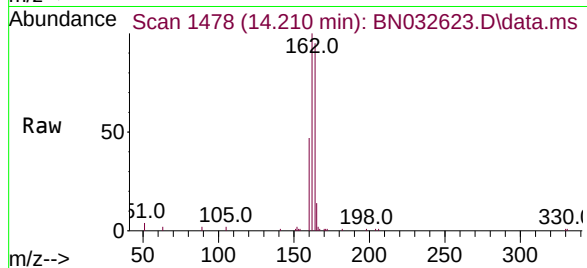
Tgt Ion:142 Resp: 9814
Ion Ratio Lower Upper
142 100
141 89.0 69.3 103.9
115 37.6 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

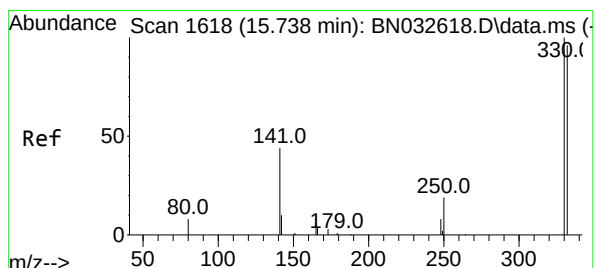
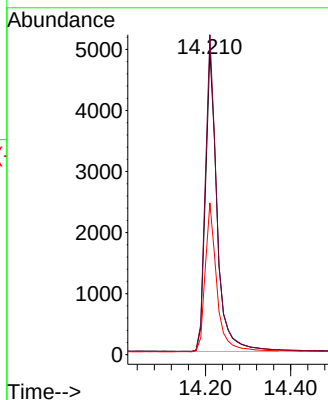
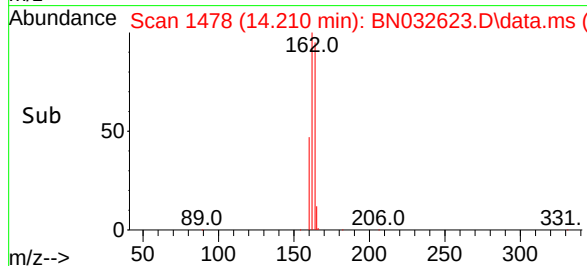
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



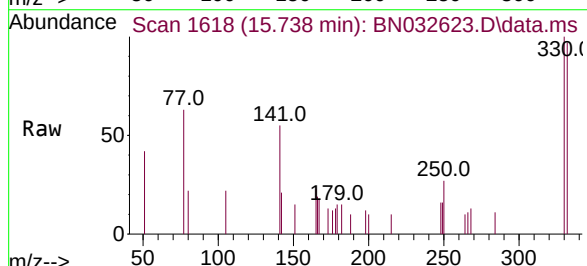
Tgt Ion:164 Resp: 9400
Ion Ratio Lower Upper
164 100
162 105.3 85.0 127.4
160 50.0 39.4 59.2

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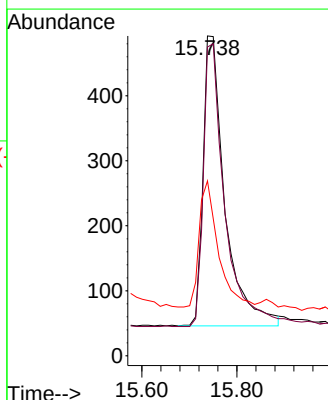
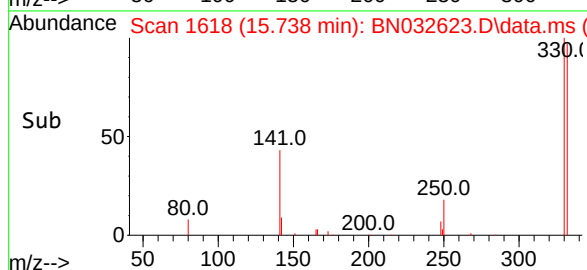
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

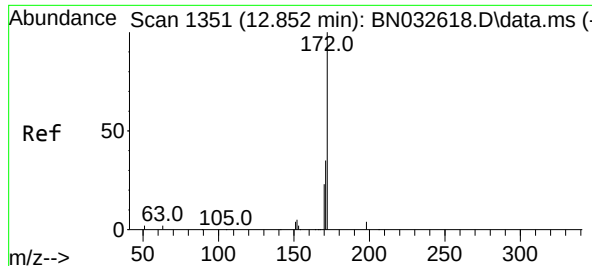


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.738 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44



Tgt Ion:330 Resp: 1428
Ion Ratio Lower Upper
330 100
332 95.7 77.8 116.8
141 37.8 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.852 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

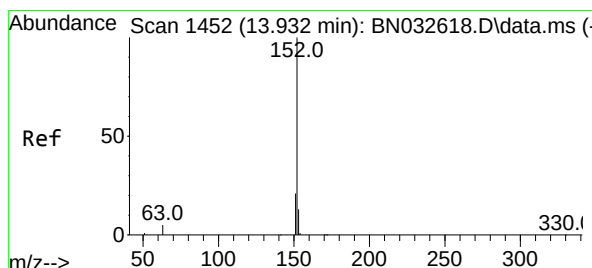
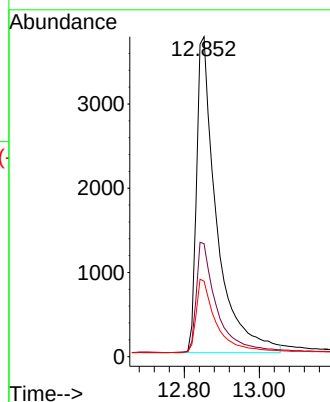
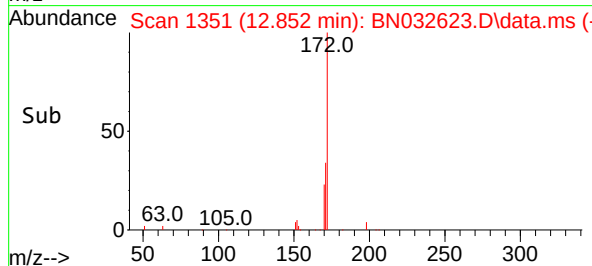
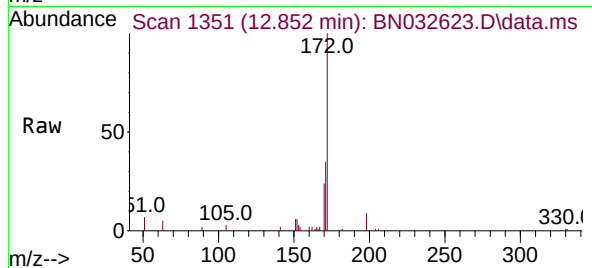
ICVBN071124

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.6	19.0	28.6

Manual Integrations
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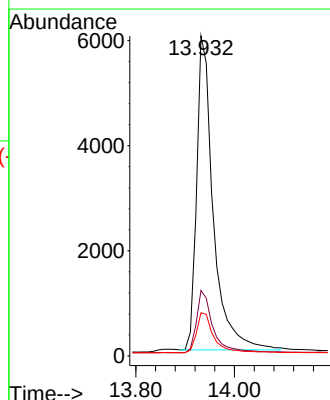
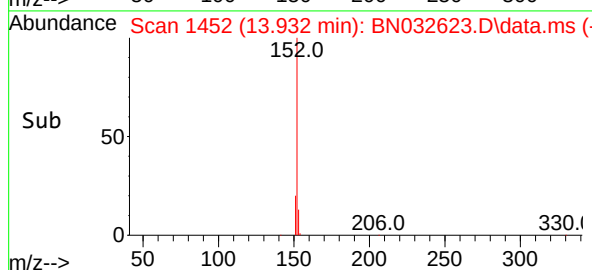
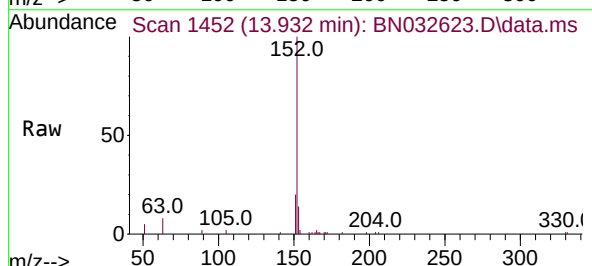
Reviewed By :Yogesh Patel 07/11/2024

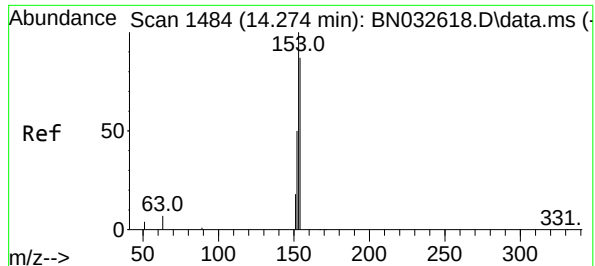
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.365 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

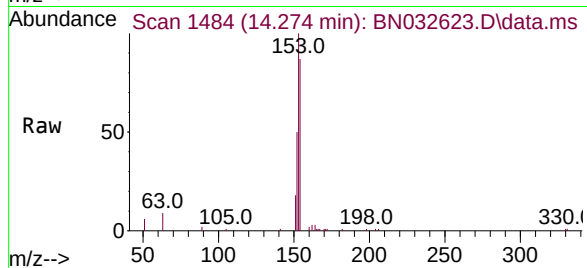
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	13.1	10.6	15.8





#17
Acenaphthene
Concen: 0.398 ng
RT: 14.274 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

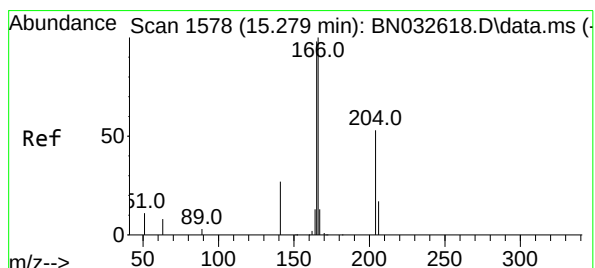
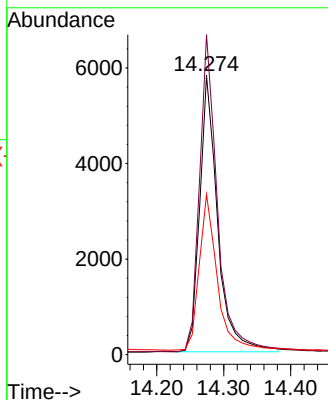
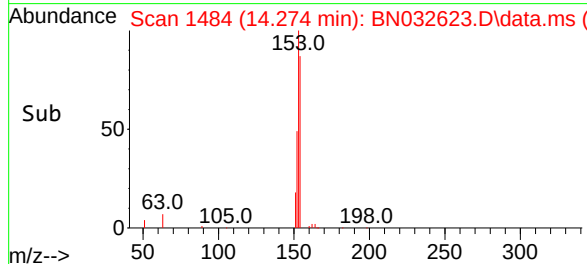
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



Tgt Ion:154 Resp: 1078
Ion Ratio Lower Upper
154 100
153 114.7 91.8 137.8
152 56.6 45.2 67.8

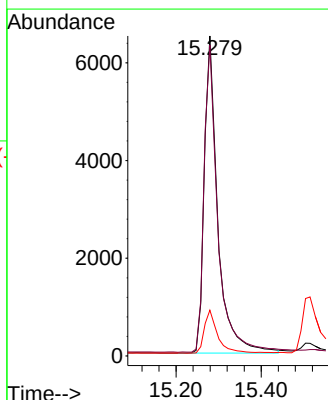
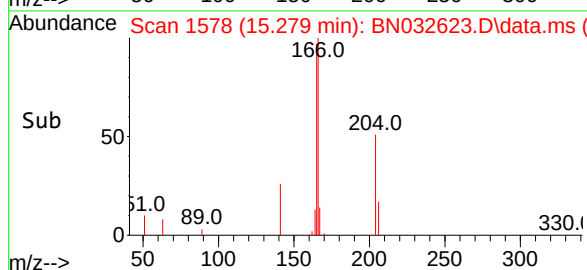
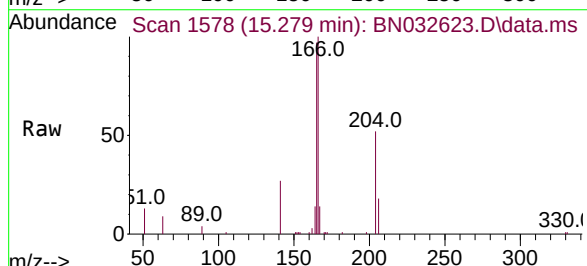
Manual Integrations
APPROVED

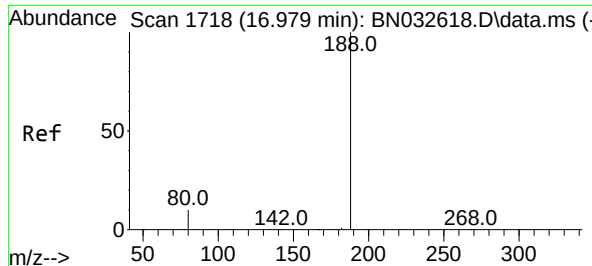
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.395 ng
RT: 15.279 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:166 Resp: 14327
Ion Ratio Lower Upper
166 100
165 97.9 78.0 117.0
167 13.6 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.979 min Scan# 1718

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

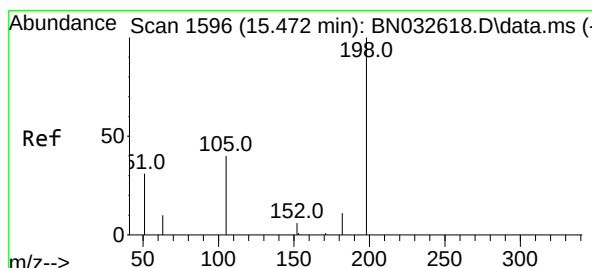
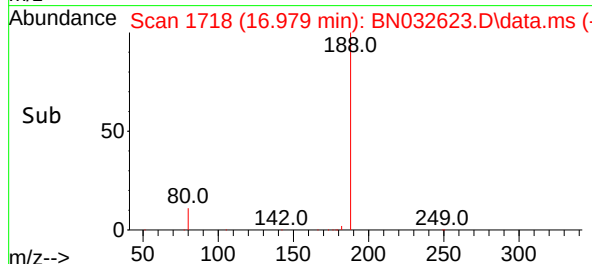
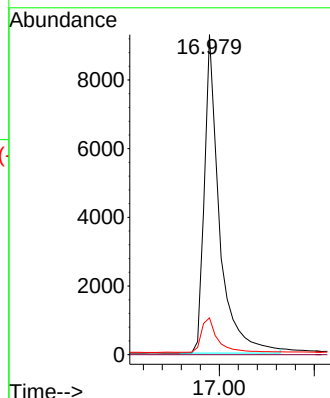
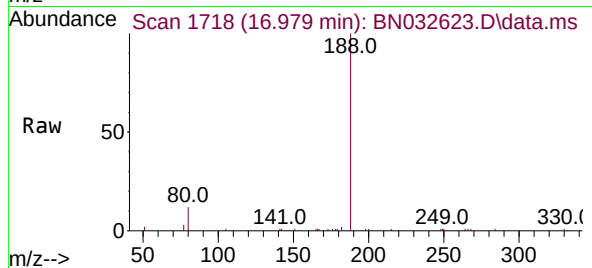
ICVBN071124

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	8.8	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.444 ng

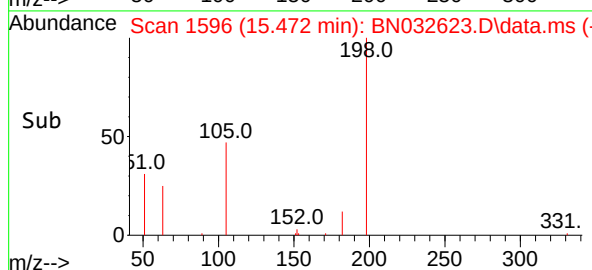
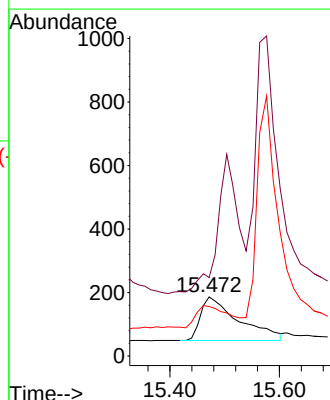
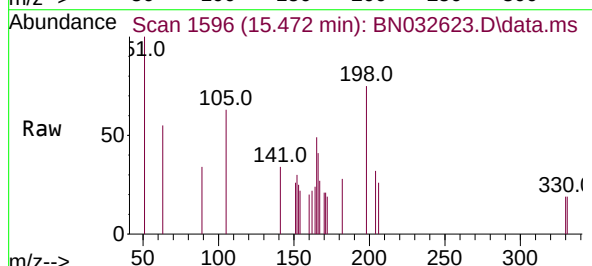
RT: 15.472 min Scan# 1596

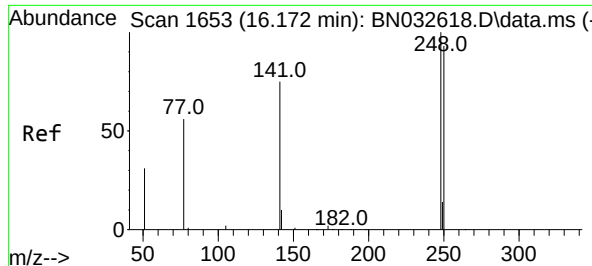
Delta R.T. -0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
198	100		
51	132.8	105.7	158.5
105	83.9	63.0	94.6





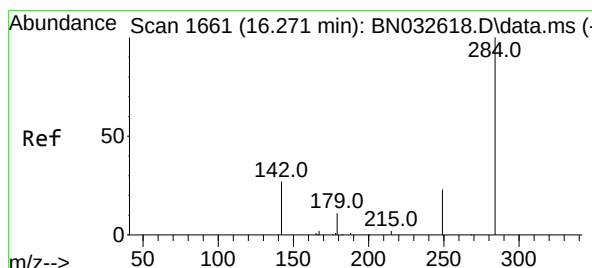
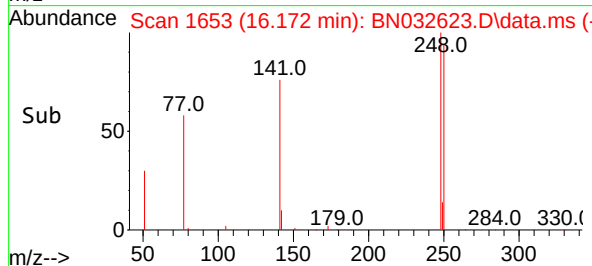
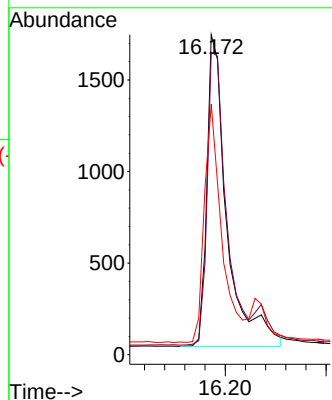
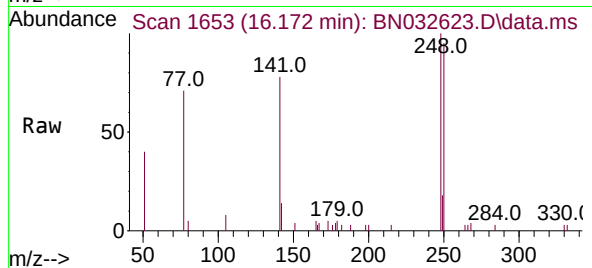
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.172 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:248 Resp: 467
Ion Ratio Lower Upper
248 100
250 94.5 75.1 112.7
141 78.2 62.0 93.0

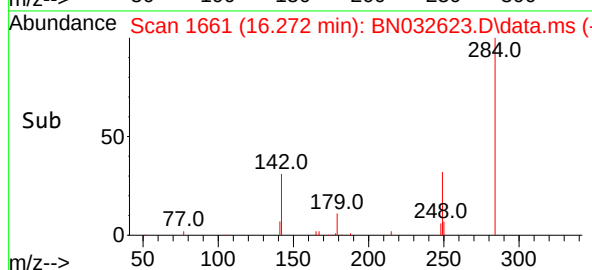
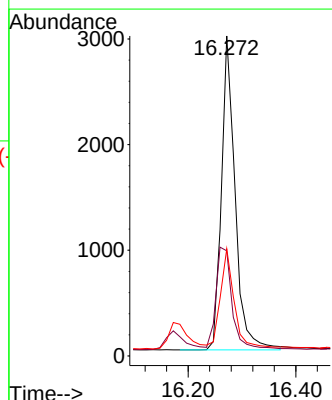
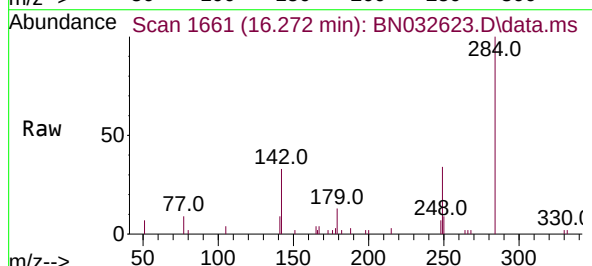
Manual Integrations
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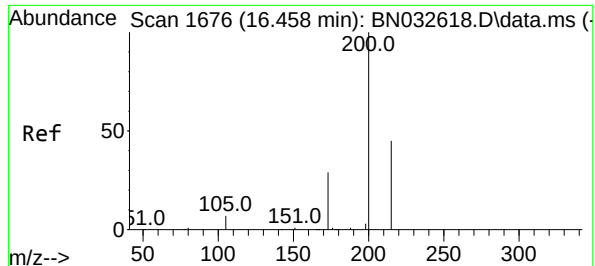
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.272 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:284 Resp: 5260
Ion Ratio Lower Upper
284 100
142 36.8 29.4 44.0
249 30.5 24.6 36.8





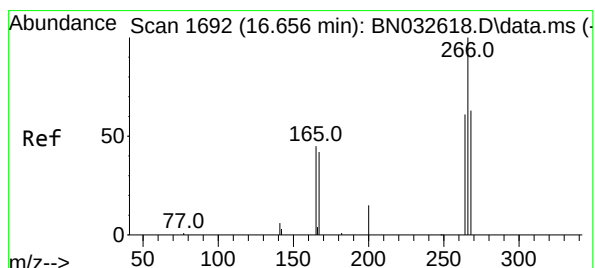
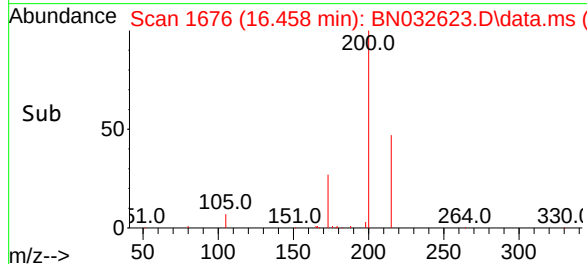
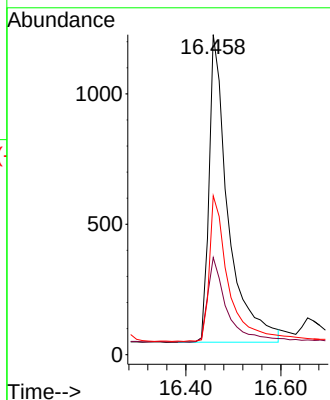
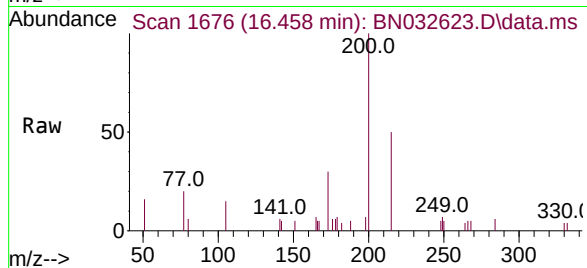
#23
Atrazine
Concen: 0.371 ng
RT: 16.458 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:200 Resp: 329
Ion Ratio Lower Upper
200 100
173 30.3 25.4 38.2
215 49.6 38.2 57.2

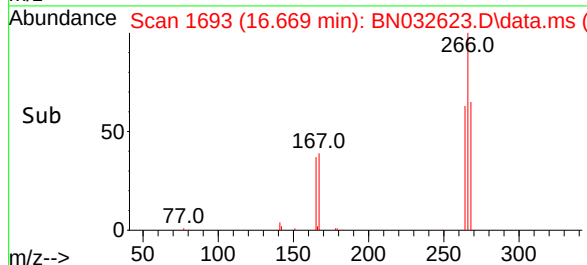
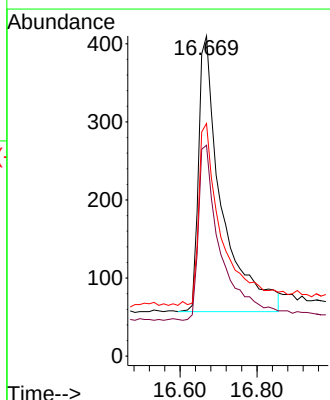
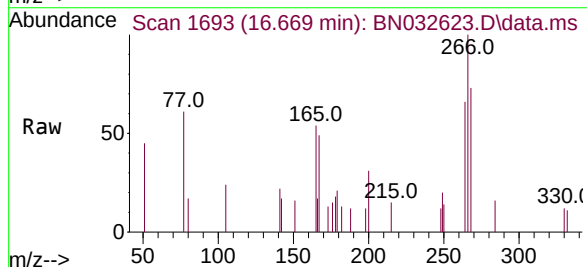
Manual Integrations
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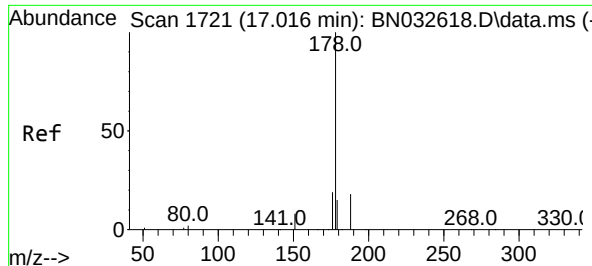
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.293 ng
RT: 16.669 min Scan# 1693
Delta R.T. 0.013 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:266 Resp: 1468
Ion Ratio Lower Upper
266 100
264 63.4 50.2 75.2
268 67.0 52.8 79.2





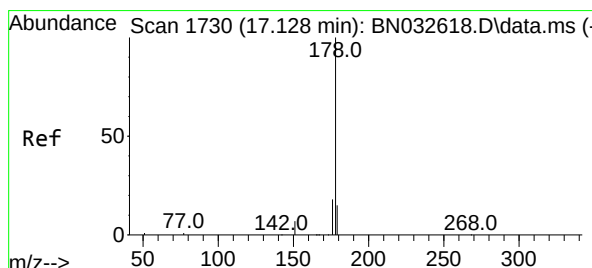
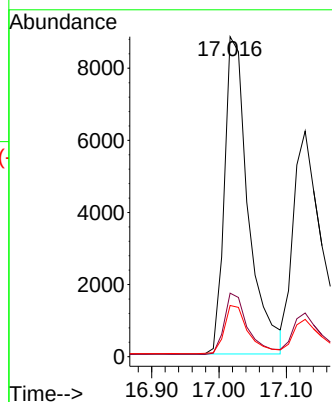
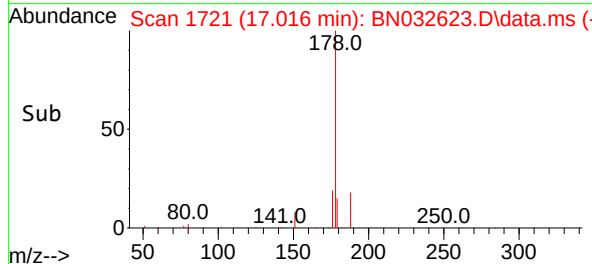
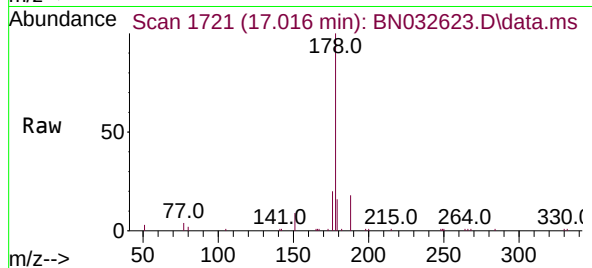
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.016 min Scan# 1721
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:178 Resp: 2175
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.3 12.2 18.4

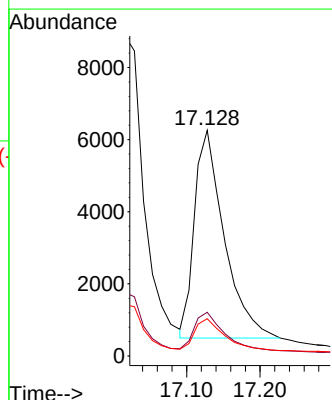
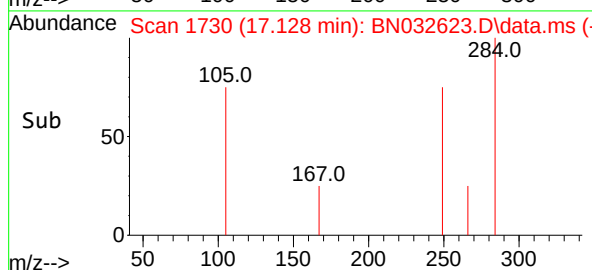
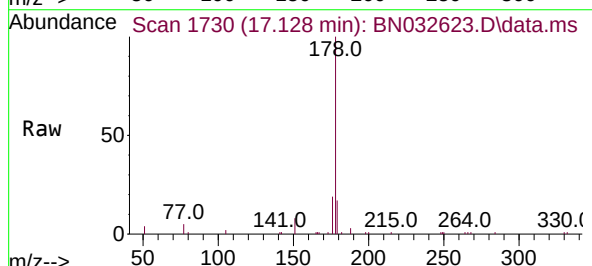
Manual Integrations
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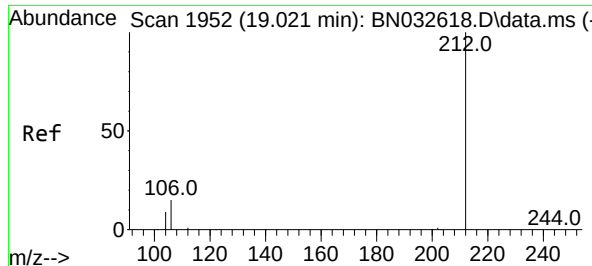
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.352 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:178 Resp: 16228
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.021 min Scan# 1952

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

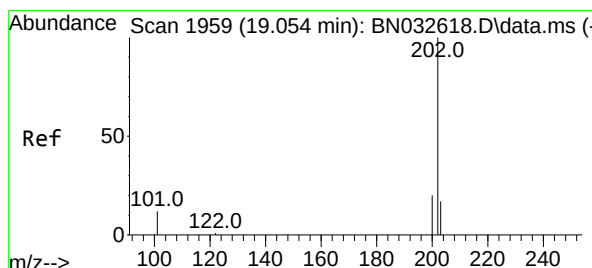
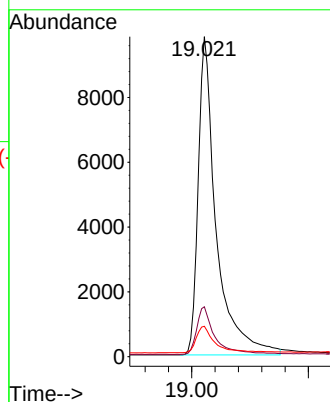
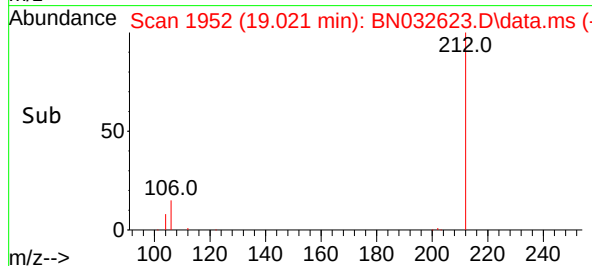
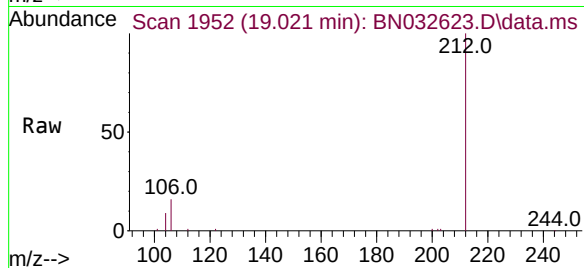
ICVBN071124

Tgt Ion:	212	Resp:	2113
Ion Ratio	Lower	Upper	
212	100		
106	15.0	11.9	17.9
104	8.7	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.398 ng

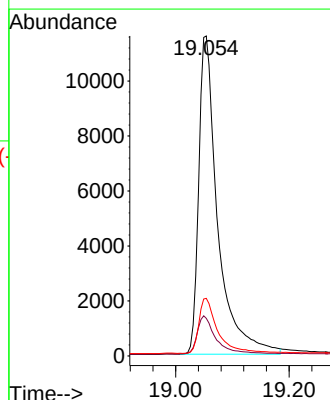
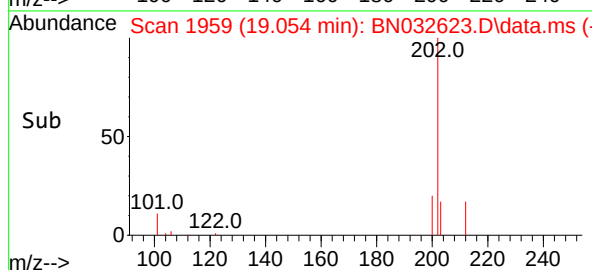
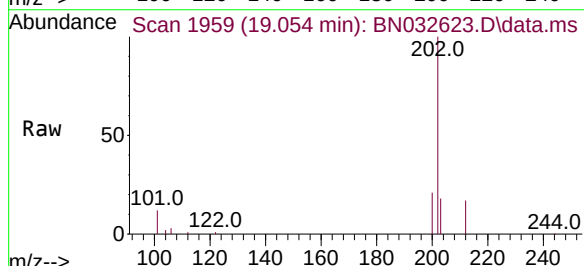
RT: 19.054 min Scan# 1959

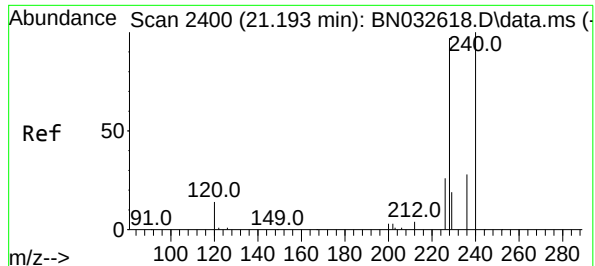
Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	202	Resp:	26952
Ion Ratio	Lower	Upper	
202	100		
101	11.9	9.6	14.4
203	17.3	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.193 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

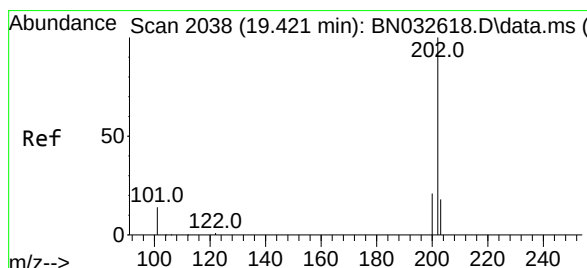
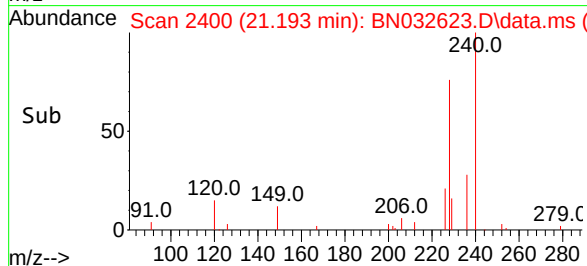
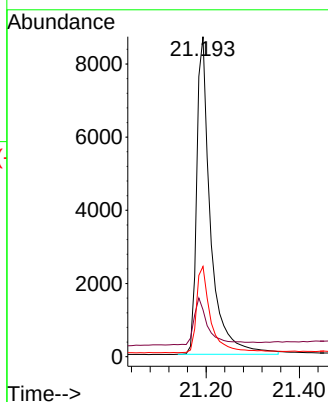
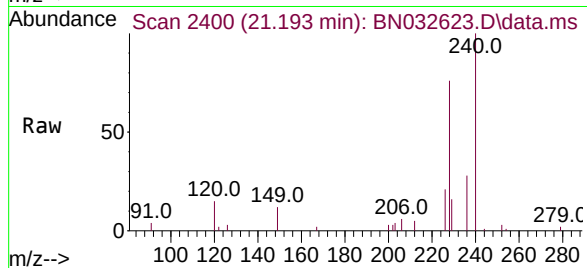
ICVBN071124

Tgt Ion:	240	Resp:	1793
Ion Ratio	Lower	Upper	
240	100		
120	14.6	14.8	22.2
236	28.2	23.3	34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.379 ng

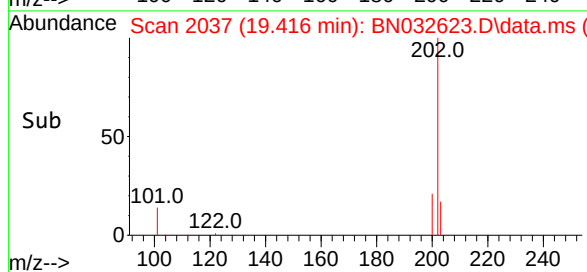
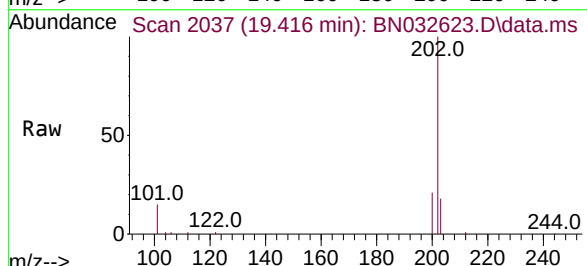
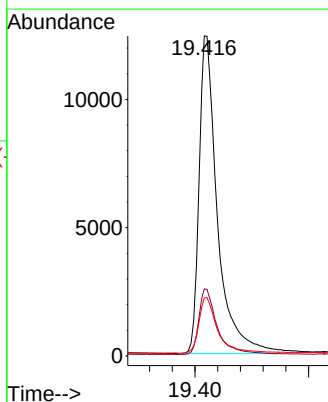
RT: 19.416 min Scan# 2037

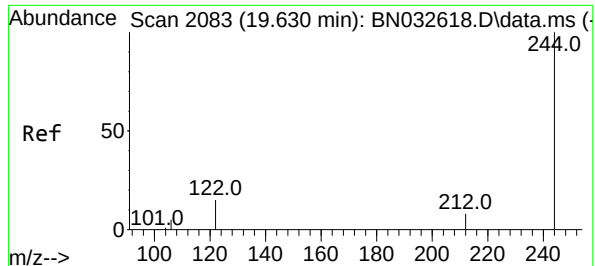
Delta R.T. -0.005 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	202	Resp:	27755
Ion Ratio	Lower	Upper	
202	100		
200	20.6	16.6	25.0
203	18.0	14.8	22.2





#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.630 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

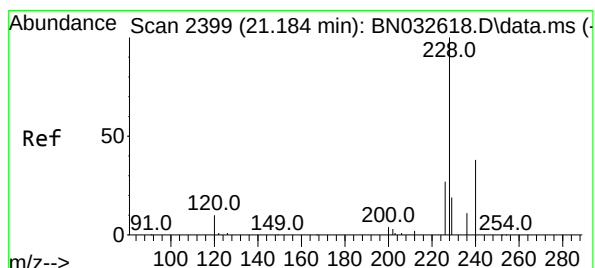
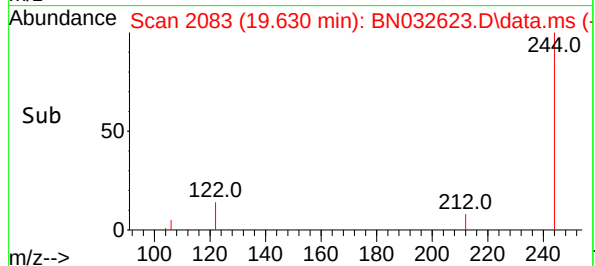
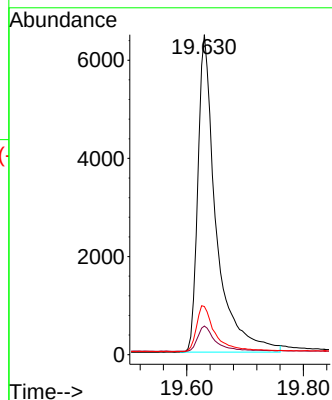
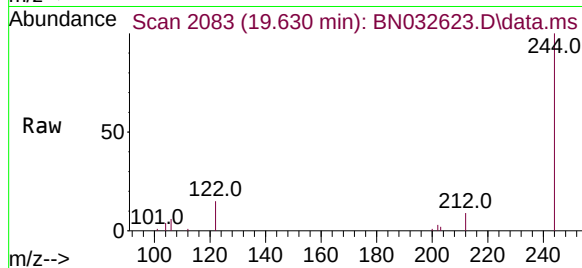
ClientSampleId :

ICVBN071124

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.5	11.3
122	15.0	12.6	19.0

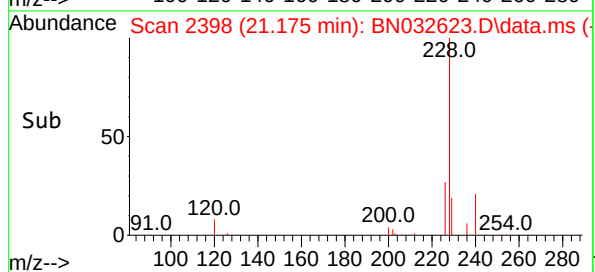
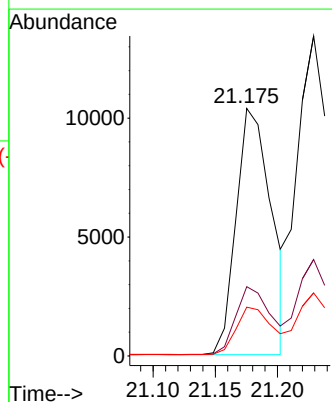
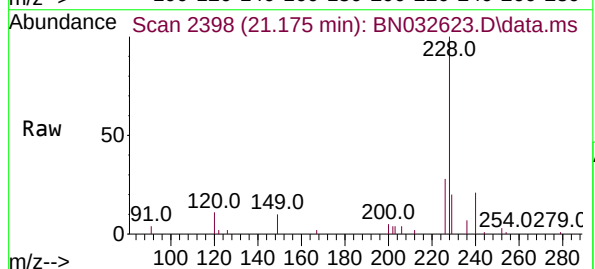
Manual Integrations
APPROVED

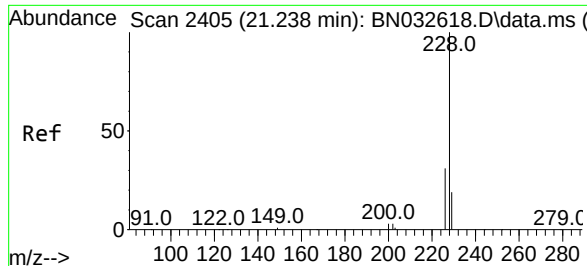
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.359 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.009 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 0.423 ng

RT: 21.229 min Scan# 2404

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

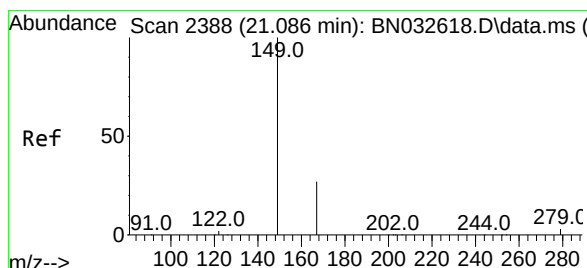
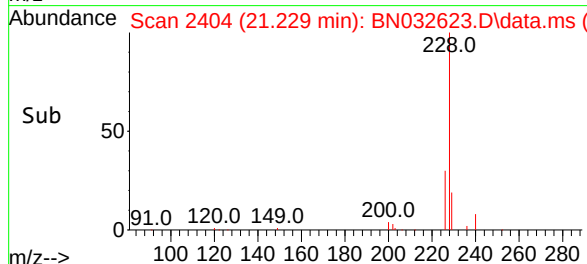
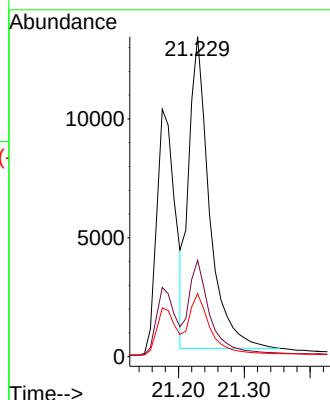
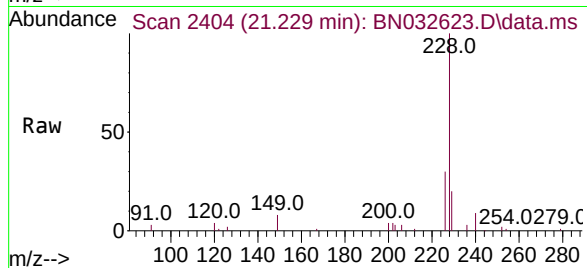
ICVBN071124

Tgt Ion:	228	Resp:	28529
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.2	36.2
229	19.7	16.0	24.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.375 ng

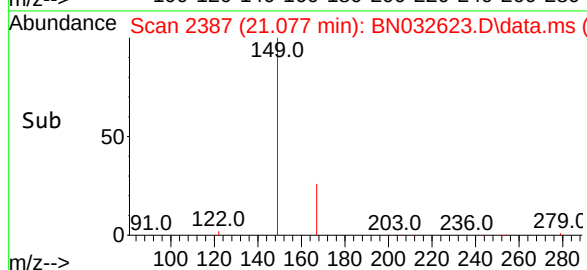
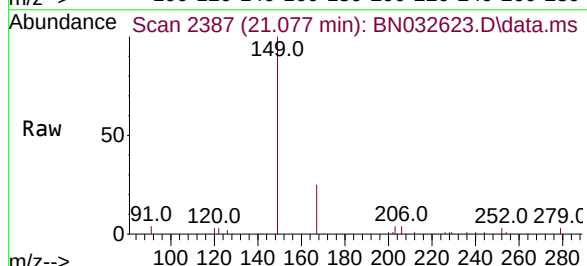
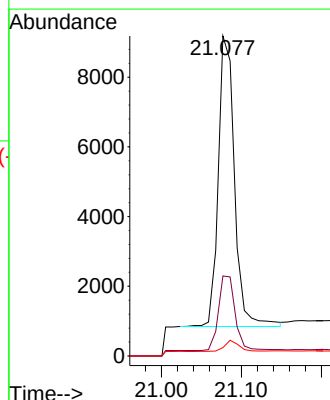
RT: 21.077 min Scan# 2387

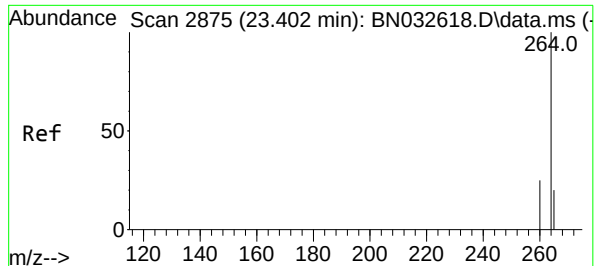
Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	149	Resp:	11763
Ion Ratio	Lower	Upper	
149	100		
167	26.7	21.4	32.2
279	3.4	2.8	4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.394 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032623.D

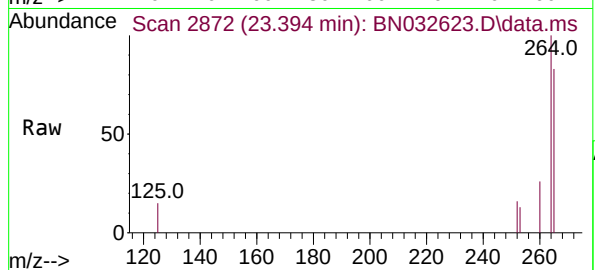
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124



Tgt Ion:264 Resp: 1807

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

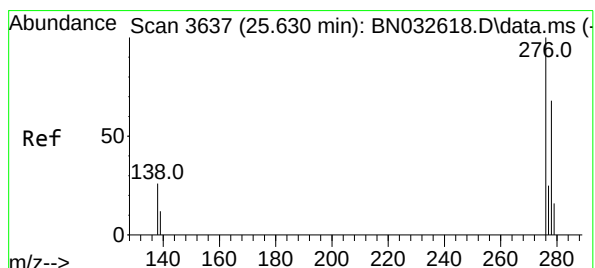
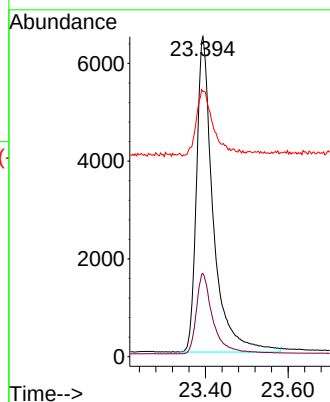
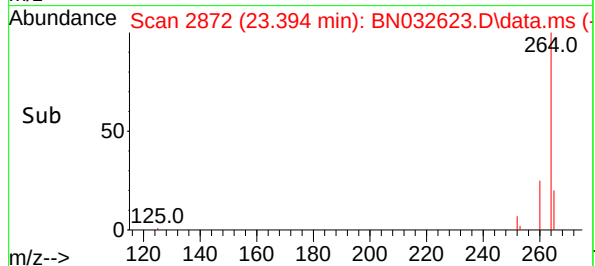
265 82.8 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.613 min Scan# 3631

Delta R.T. -0.017 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

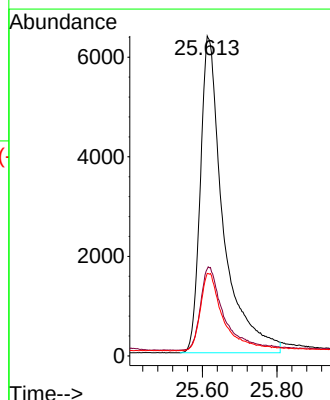
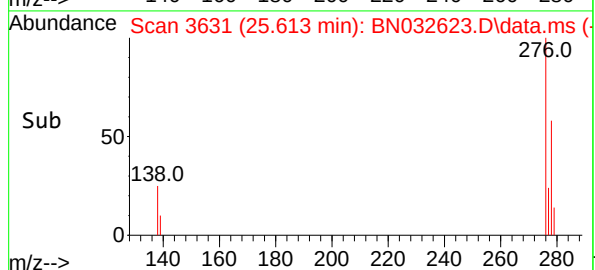
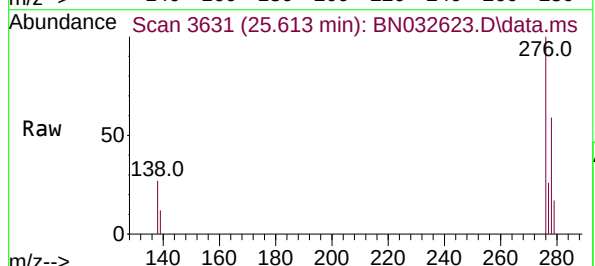
Tgt Ion:276 Resp: 27205

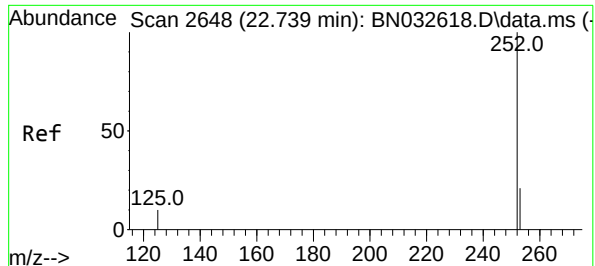
Ion Ratio Lower Upper

276 100

138 26.4 21.0 31.4

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.367 ng

RT: 22.730 min Scan# 2645

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

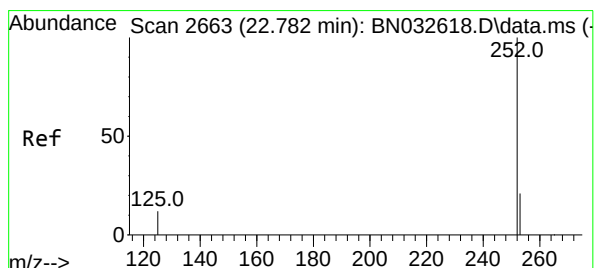
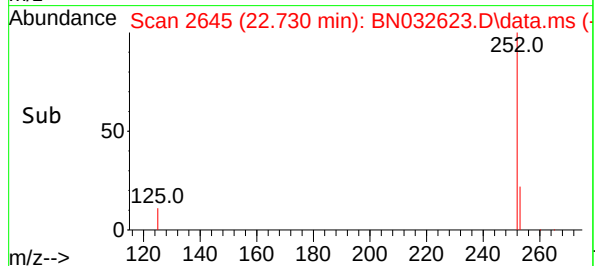
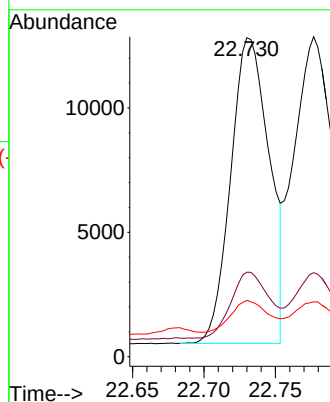
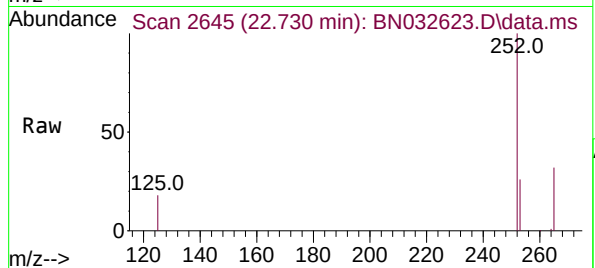
Tgt Ion:252	Resp:	23079
Ion Ratio	Lower	Upper
252	100	
253	26.5	22.3 33.5
125	17.7	15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.386 ng m

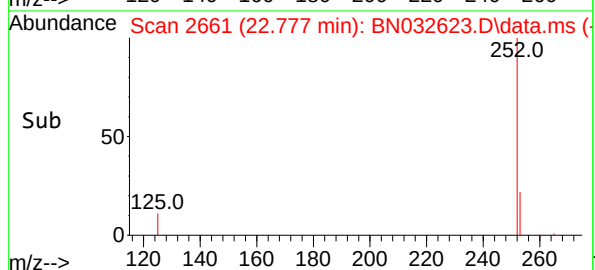
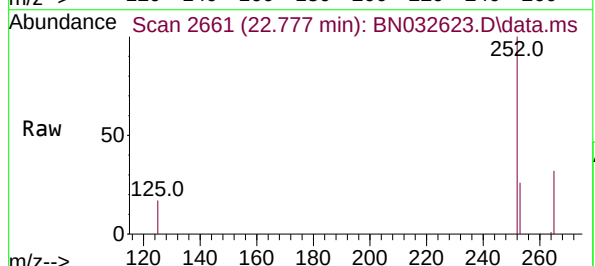
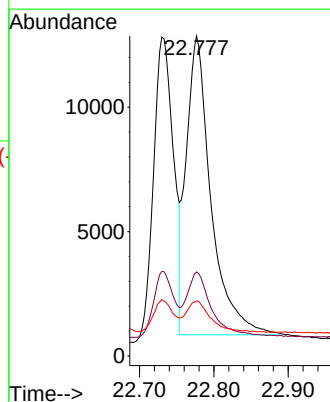
RT: 22.777 min Scan# 2661

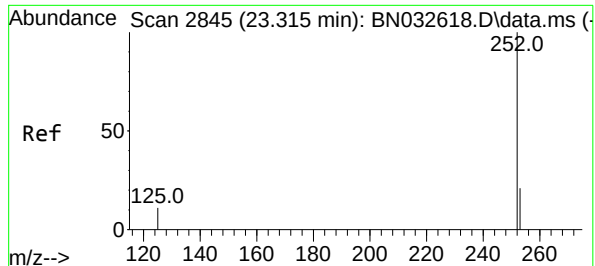
Delta R.T. -0.006 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:252	Resp:	27788
Ion Ratio	Lower	Upper
252	100	
253	26.3	22.6 34.0
125	17.2	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.306 min Scan# 2134

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

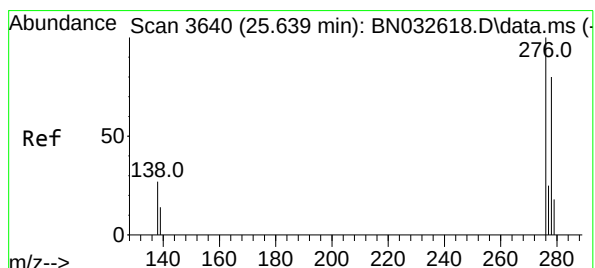
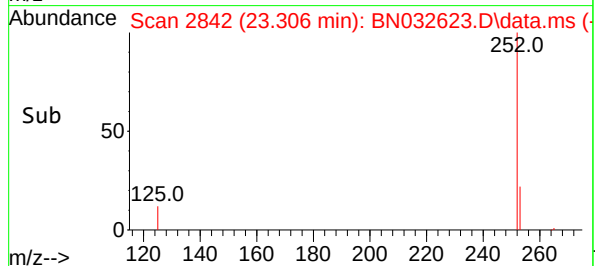
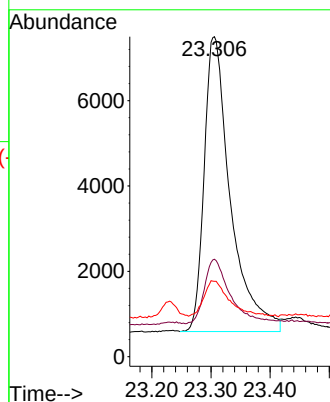
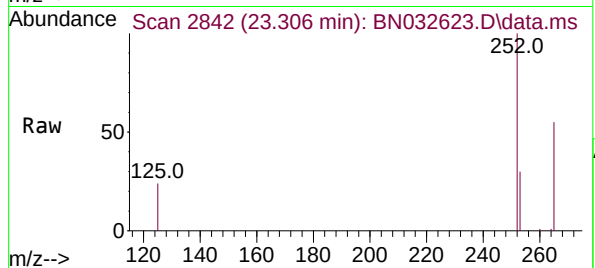
ICVBN071124

Tgt Ion:	252	Resp:	2134
Ion Ratio	Lower	Upper	
252	100		
253	30.4	25.8	38.8
125	23.5	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

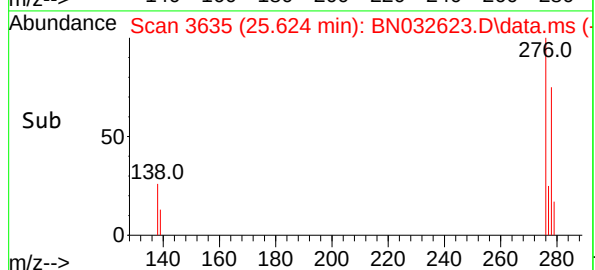
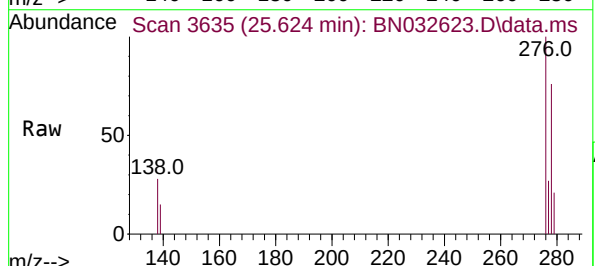
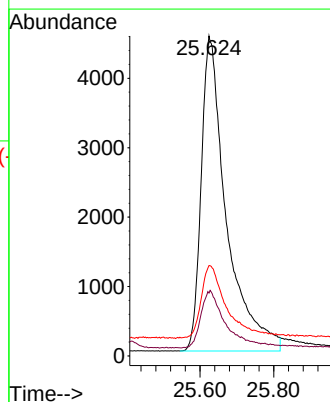
RT: 25.624 min Scan# 3635

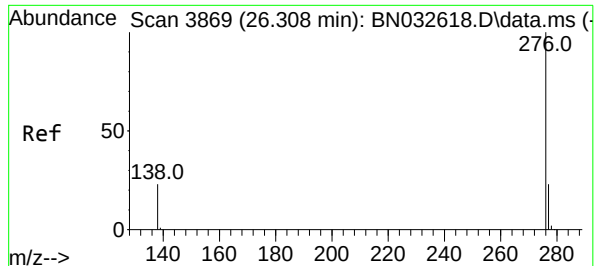
Delta R.T. -0.015 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	278	Resp:	21513
Ion Ratio	Lower	Upper	
278	100		
139	19.7	16.7	25.1
279	28.3	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.294 min Scan# 3864

Delta R.T. -0.015 min

Lab File: BN032623.D

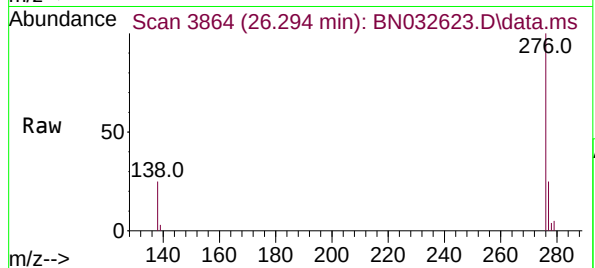
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124



Tgt Ion:276 Resp: 24178

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

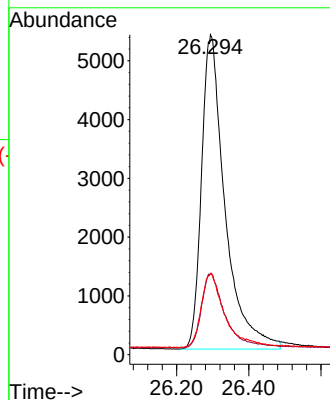
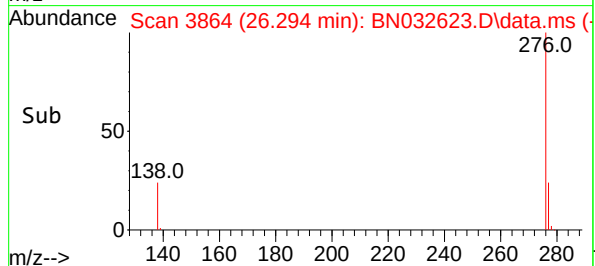
138 25.4 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032623.D
Acq On : 10 Jul 2024 20:44
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Quant Time: Jul 10 23:47:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:45:48 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	103	0.00
2	1,4-Dioxane	0.496	0.492	0.8	103	0.00
3	n-Nitrosodimethylamine	0.419	0.398	5.0	97	0.00
4 S	2-Fluorophenol	1.012	0.962	4.9	96	0.00
5 S	Phenol-d6	1.256	1.219	2.9	100	0.01
6	bis(2-Chloroethyl)ether	1.050	1.059	-0.9	103	0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.301	0.283	6.0	104	0.01
9	Naphthalene	1.108	1.101	0.6	107	0.00
10	Hexachlorobutadiene	0.212	0.216	-1.9	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.612	0.608	0.7	109	0.00
12	2-Methylnaphthalene	0.724	0.703	2.9	108	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.171	0.152	11.1	109	0.00
15 S	2-Fluorobiphenyl	1.489	1.476	0.9	109	0.00
16	Acenaphthylene	1.627	1.485	8.7	109	0.00
17	Acenaphthene	1.153	1.147	0.5	110	0.00
18	Fluorene	1.541	1.523	1.2	110	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.033	41.1#	107	0.00
21	4-Bromophenyl-phenylether	0.235	0.228	3.0	110	0.00
22	Hexachlorobenzene	0.263	0.257	2.3	110	0.00
23	Atrazine	0.173	0.161	6.9	115	0.00
24	Pentachlorophenol	0.098	0.072	26.5#	98	0.01
25	Phenanthrene	1.093	1.061	2.9	112	0.00
26	Anthracene	0.900	0.792	12.0	112	0.00
27 SURR	Fluoranthene-d10	1.035	1.031	0.4	116	0.00
28	Fluoranthene	1.323	1.315	0.6	117	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	129	0.00
30	Pyrene	1.634	1.547	5.3	118	0.00
31 S	Terphenyl-d14	0.820	0.784	4.4	120	0.00
32	Benzo(a)anthracene	1.265	1.134	10.4	122	0.00
33	Chrysene	1.504	1.590	-5.7	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.700	0.656	6.3	140	0.00
35 I	Perylene-d12	1.000	1.000	0.0	137	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.505	4.6	134	-0.02
37	Benzo(b)fluoranthene	1.393	1.277	8.3	133	0.00
38	Benzo(k)fluoranthene	1.592	1.538	3.4	132	0.00
39 C	Benzo(a)pyrene	1.256	1.181	6.0	134	0.00
40	Dibenzo(a,h)anthracene	1.245	1.190	4.4	134	-0.01
41	Benzo(g,h,i)perylene	1.379	1.338	3.0	133	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032623.D
Acq On : 10 Jul 2024 20:44
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Quant Time: Jul 10 23:47:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:45:48 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	103	0.00
2	1,4-Dioxane	0.400	0.397	0.8	103	0.00
3	n-Nitrosodimethylamine	0.400	0.380	5.0	97	0.00
4 S	2-Fluorophenol	0.400	0.380	5.0	96	0.00
5 S	Phenol-d6	0.400	0.388	3.0	100	0.01
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	103	0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.376	6.0	104	0.01
9	Naphthalene	0.400	0.397	0.8	107	0.00
10	Hexachlorobutadiene	0.400	0.407	-1.7	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	109	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	108	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.400	0.355	11.3	109	0.00
15 S	2-Fluorobiphenyl	0.400	0.397	0.8	109	0.00
16	Acenaphthylene	0.400	0.365	8.8	109	0.00
17	Acenaphthene	0.400	0.398	0.5	110	0.00
18	Fluorene	0.400	0.395	1.3	110	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	107	0.00
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	110	0.00
22	Hexachlorobenzene	0.400	0.390	2.5	110	0.00
23	Atrazine	0.400	0.371	7.3	115	0.00
24	Pentachlorophenol	0.400	0.293	26.8#	98	0.01
25	Phenanthrene	0.400	0.388	3.0	112	0.00
26	Anthracene	0.400	0.352	12.0	112	0.00
27 SURR	Fluoranthene-d10	0.400	0.398	0.5	116	0.00
28	Fluoranthene	0.400	0.398	0.5	117	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	129	0.00
30	Pyrene	0.400	0.379	5.3	118	0.00
31 S	Terphenyl-d14	0.400	0.382	4.5	120	0.00
32	Benzo(a)anthracene	0.400	0.359	10.3	122	0.00
33	Chrysene	0.400	0.423	-5.7	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.375	6.3	140	0.00
35 I	Perylene-d12	0.400	0.400	0.0	137	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.382	4.5	134	-0.02
37	Benzo(b)fluoranthene	0.400	0.367	8.3	133	0.00
38	Benzo(k)fluoranthene	0.400	0.386	3.5	132	0.00
39 C	Benzo(a)pyrene	0.400	0.376	6.0	134	0.00
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	134	-0.01
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	133	-0.01

(#) = Out of Range

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN080524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 05 23:57:48 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN033241.D 0.2 =BN033242.D 0.4 =BN033243.D 0.8 =BN033244.D 1.6 =BN033245.D 3.2 =BN033246.D 5.0 =BN033247.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	0.805	0.609	0.609	0.552	0.466	0.459	0.583	21.76	
3)	n-Nitrosodimet...	0.465	0.424	0.504	0.501	0.505	0.528	0.488	7.57	
4) S	2-Fluorophenol	0.916	1.099	1.085	1.040	0.865	0.940	0.991	9.78	
5) S	Phenol-d6	1.084	1.420	1.441	1.449	1.355	1.419	1.361	10.27	
6)	bis(2-Chloroet...	0.877	1.027	1.197	1.268	1.444	1.022	1.192	1.147	16.32
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.264	0.311	0.273	0.363	0.365	0.339	0.337	0.322	12.62
9)	Naphthalene	1.030	1.091	1.050	1.179	1.144	1.057	1.060	1.087	5.06
10)	Hexachlorobuta...	0.222	0.210	0.201	0.210	0.205	0.182	0.183	0.202	7.19
11) SURR2	Methylnaphth...	0.538	0.554	0.581	0.632	0.640	0.597	0.613	0.593	6.45
12)	2-Methylnaphth...	0.530	0.582	0.555	0.703	0.740	0.700	0.725	0.648	13.66
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.166	0.124	0.132	0.152	0.154	0.149	0.166	0.149	10.67
15) S	2-Fluorobiphenyl	1.262	1.228	1.294	1.521	1.489	1.369	1.416	1.368	8.27
16)	Acenaphthylene	1.442	1.394	1.473	1.705	1.741	1.675	1.743	1.596	9.58
17)	Acenaphthene	1.101	1.052	1.121	1.247	1.221	1.137	1.183	1.152	5.99
18)	Fluorene	1.477	1.442	1.470	1.692	1.668	1.557	1.609	1.559	6.44
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.027	0.035	0.051	0.062	0.063	0.075	0.052	35.03	
21)	4-Bromophenyl-...	0.197	0.208	0.202	0.240	0.234	0.203	0.202	0.212	8.11
22)	Hexachlorobenzene	0.232	0.216	0.209	0.242	0.234	0.211	0.207	0.222	6.27
23)	Atrazine	0.216	0.193	0.182	0.211	0.205	0.195	0.198	0.200	5.73
24)	Pentachlorophenol	0.062	0.059	0.067	0.079	0.084	0.081	0.087	0.074	15.40
25)	Phenanthrene	1.106	1.004	0.972	1.159	1.148	1.072	1.071	1.076	6.46
26)	Anthracene	0.775	0.764	0.809	0.984	1.020	0.970	0.991	0.902	12.55
27) SURR	Fluoranthene-d10	1.129	1.104	1.060	1.185	1.162	1.097	1.098	1.119	3.81
28)	Fluoranthene	1.581	1.463	1.382	1.541	1.514	1.430	1.419	1.476	4.87
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.556	1.462	1.249	1.523	1.450	1.206	1.341	1.398	9.69
31) S	Terphenyl-d14	0.706	0.719	0.625	0.762	0.729	0.616	0.680	0.691	7.83
32)	Benzo(a)anthra...	1.050	1.043	1.059	1.311	1.240	1.121	1.238	1.152	9.52
33)	Chrysene	1.716	1.695	1.423	1.640	1.552	1.352	1.453	1.547	9.19
34)	Bis(2-ethylhex...	0.884	0.541	0.210	0.165	0.075	0.039	0.025	0.277	115.75
35) I	Perylene-d12	-----ISTD-----								

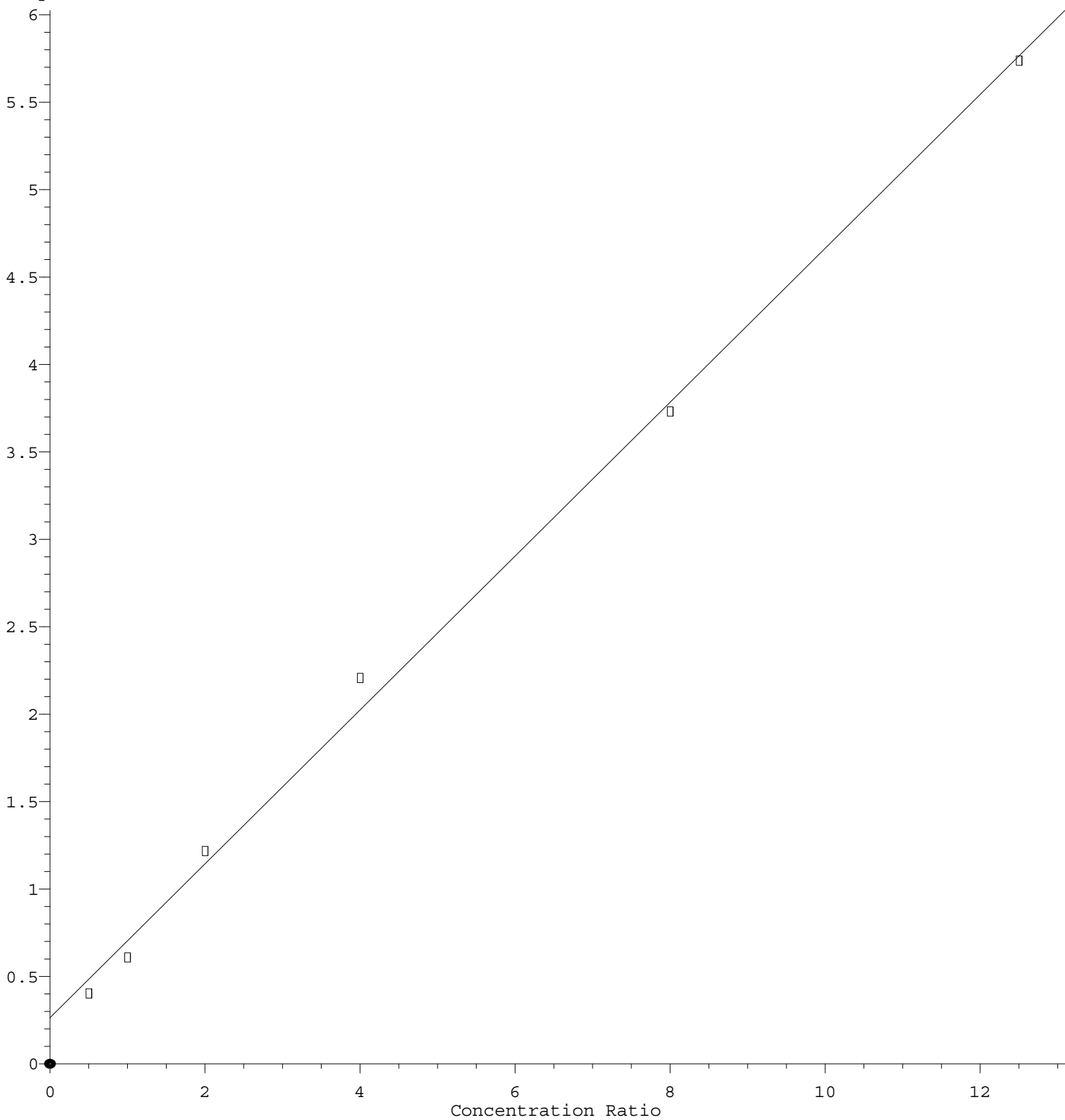
Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN080524.M

36)	Indeno(1,2,3-c...	1.688	1.705	1.649	1.937	1.932	1.883	1.865	1.808	6.81
37)	Benzo(b)fluora...	1.072	1.071	1.065	1.329	1.387	1.268	1.300	1.213	11.46
38)	Benzo(k)fluora...	1.542	1.486	1.354	1.671	1.643	1.471	1.458	1.518	7.29
39) C	Benzo(a)pyrene	1.184	1.153	1.080	1.308	1.317	1.236	1.251	1.218	6.99
40)	Dibenzo(a,h)an...	1.313	1.334	1.304	1.523	1.529	1.505	1.487	1.428	7.34
41)	Benzo(g,h,i)pe...	1.577	1.580	1.536	1.760	1.724	1.654	1.624	1.636	5.00

(#) = Out of Range

Response Ratio



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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033241.D
 Acq On : 05 Aug 2024 18:39
 Operator : MA/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:35:52 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	684m	0.400	ng	0.08
7) Naphthalene-d8	10.383	136	2618	0.400	ng	# 0.06
13) Acenaphthene-d10	14.154	164	1972	0.400	ng	0.03
19) Phenanthrene-d10	16.927	188	4473	0.400	ng	0.00
29) Chrysene-d12	21.131	240	4894	0.400	ng	# 0.00
35) Perylene-d12	23.298	264	5815	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	9.091	82	173	0.082	ng	0.17
11) 2-Methylnaphthalene-d10	11.992	152	352m	0.090	ng	0.06
14) 2,4,6-Tribromophenol	15.735	330	82	0.112	ng	0.02
15) 2-Fluorobiphenyl	12.850	172	622	0.092	ng	0.05
27) Fluoranthene-d10	18.966	212	1262	0.101	ng	0.02
31) Terphenyl-d14	19.566	244	864	0.102	ng	0.02
Target Compounds						
6) bis(2-Chloroethyl)ether	7.199	93	150m	0.083	ng	
9) Naphthalene	10.436	128	674	0.095	ng	# 46
10) Hexachlorobutadiene	10.522	225	145	0.110	ng	# 99
12) 2-Methylnaphthalene	12.071	142	347m	0.082	ng	
16) Acenaphthylene	13.898	152	711	0.090	ng	97
17) Acenaphthene	14.218	154	543	0.096	ng	98
18) Fluorene	15.255	166	728	0.095	ng	99
21) 4-Bromophenyl-phenylether	16.120	248	220	0.093	ng	# 84
22) Hexachlorobenzene	16.220	284	259	0.105	ng	96
23) Atrazine	16.406	200	241	0.108	ng	# 74
24) Pentachlorophenol	16.666	266	69	0.083	ng	89
25) Phenanthrene	16.964	178	1237	0.103	ng	99
26) Anthracene	17.088	178	867	0.086	ng	# 87
28) Fluoranthene	18.994	202	1768	0.107	ng	# 97
30) Pyrene	19.361	202	1904	0.111	ng	99
32) Benzo(a)anthracene	21.131	228	1285	0.091	ng	# 87
33) Chrysene	21.176	228	2100	0.111	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.006	149	1081	0.319	ng	# 73
36) Indeno(1,2,3-cd)pyrene	25.508	276	2454	0.093	ng	# 68
37) Benzo(b)fluoranthene	22.658	252	1558	0.088	ng	# 43
38) Benzo(k)fluoranthene	22.701	252	2242m	0.101	ng	
39) Benzo(a)pyrene	23.228	252	1721	0.097	ng	# 26
40) Dibenzo(a,h)anthracene	25.502	278	1909	0.092	ng	# 48
41) Benzo(g,h,i)perylene	26.181	276	2292	0.096	ng	# 79

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033241.D
 Acq On : 05 Aug 2024 18:39
 Operator : MA/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

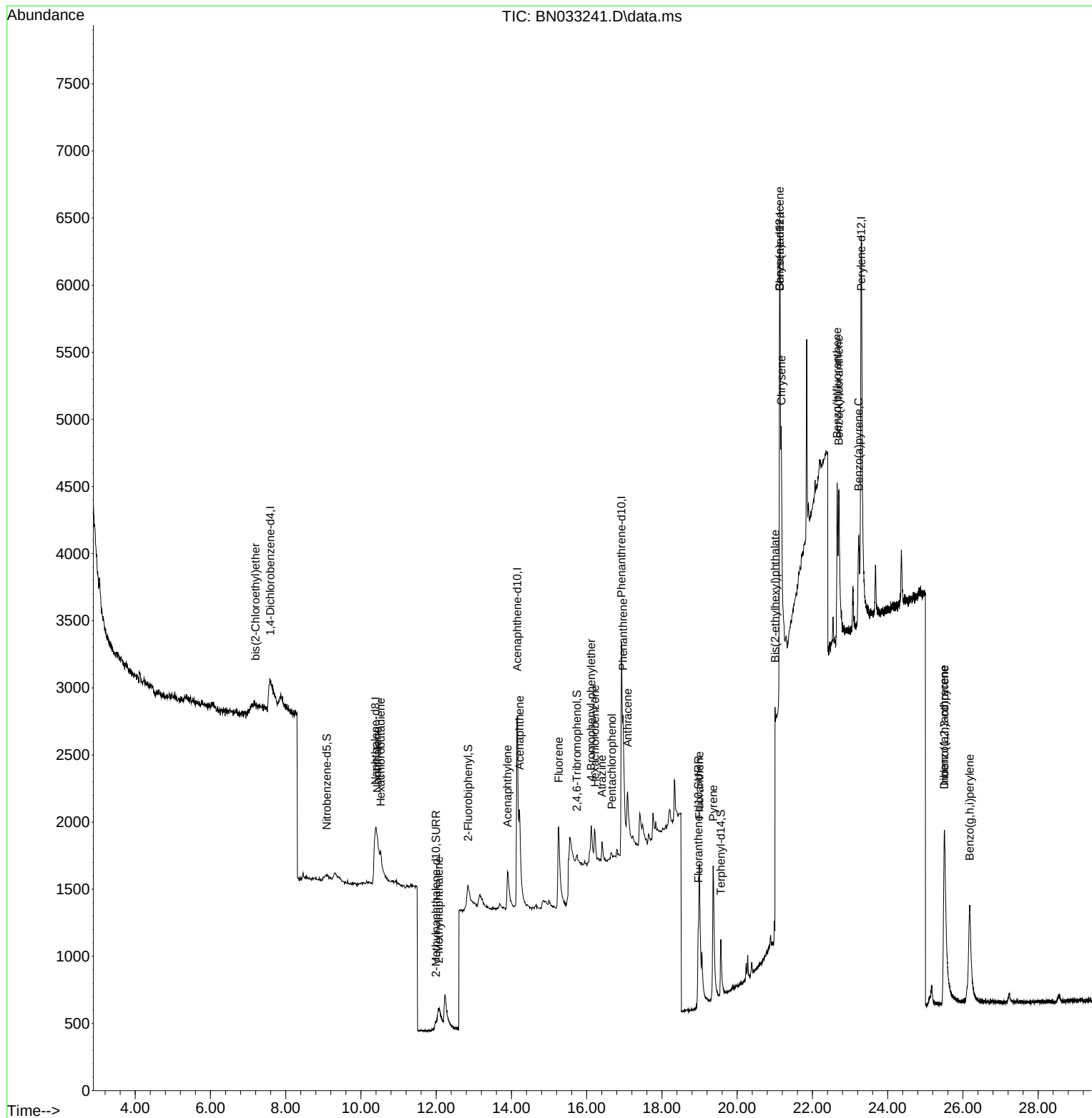
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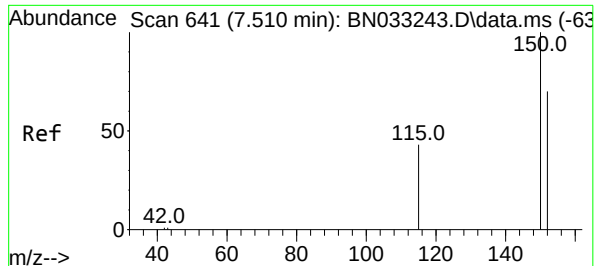
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

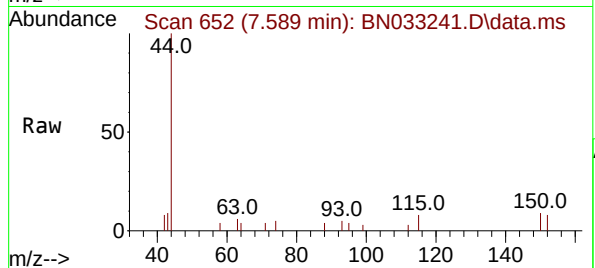
Quant Time: Aug 05 23:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:33:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.589 min Scan# 6
Delta R.T. 0.079 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

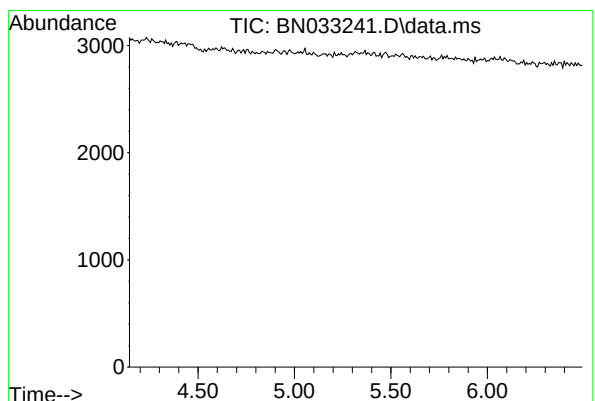
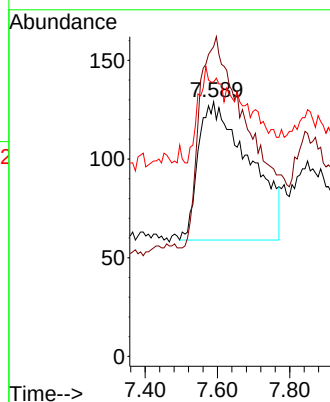
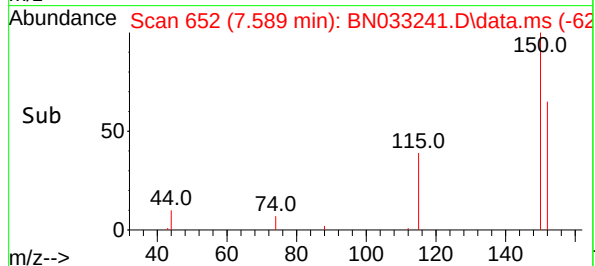
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 684
Ion Ratio Lower Upper
152 100
150 121.7 108.2 162.2
115 107.8 70.5 105.7

Manual Integrations
APPROVED

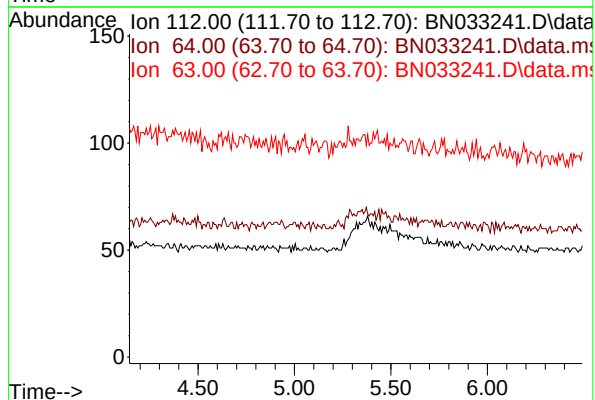
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

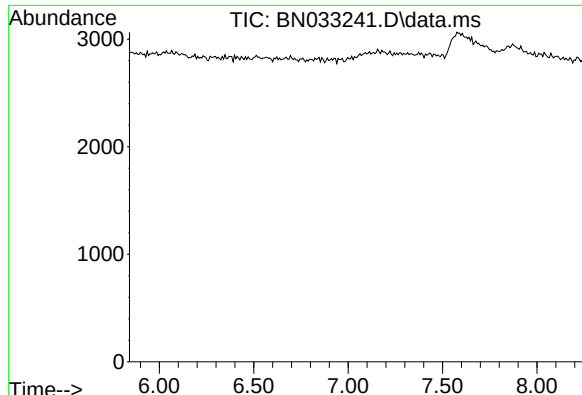


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.29 min

Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion: 112
Sig Exp Ratio
112 100
64 22.5
63 0.0





#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.99 min

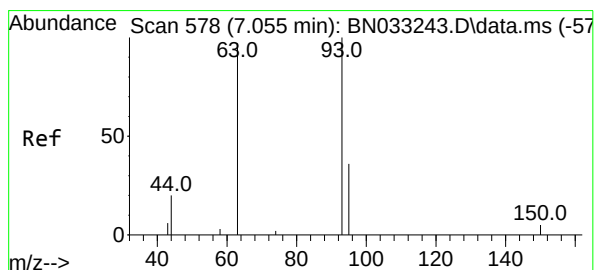
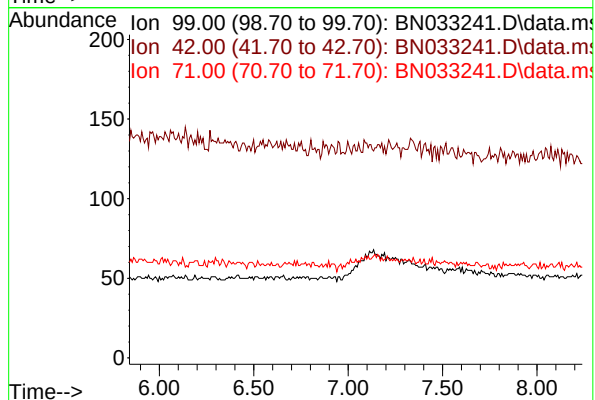
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion: 99
Sig Exp Ratio
99 100
42 0.0
71 0.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

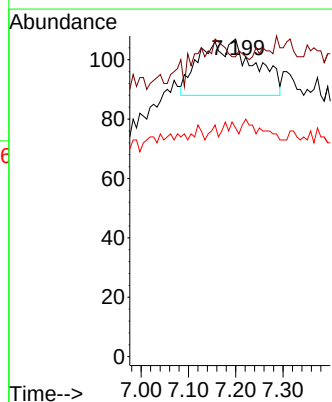
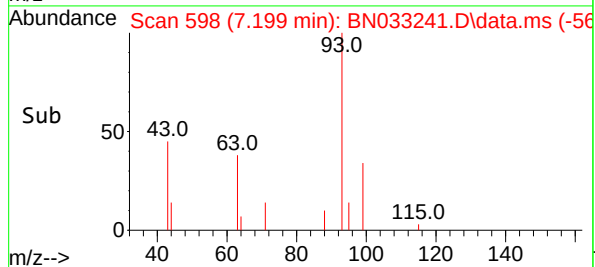
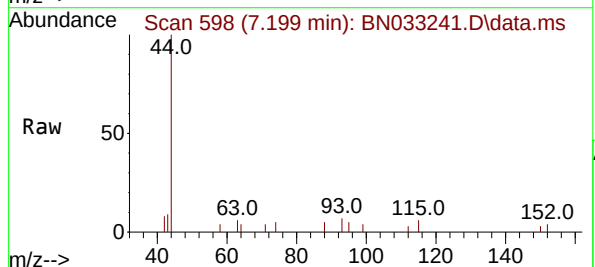
Manual Integrations
APPROVED

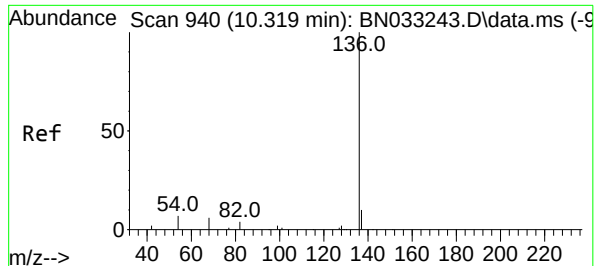
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng m
RT: 7.199 min Scan# 598
Delta R.T. 0.144 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion: 93 Resp: 150
Ion Ratio Lower Upper
93 100
63 8.0 1.1 1.7#
95 3.3 0.0 0.0#





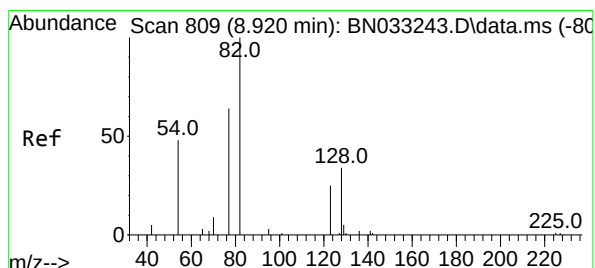
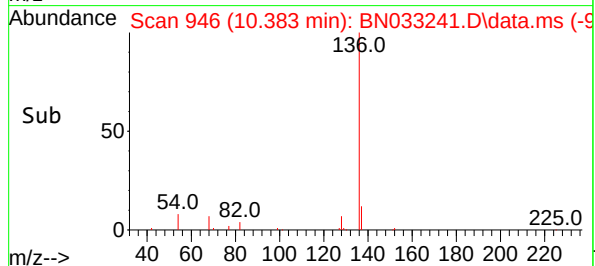
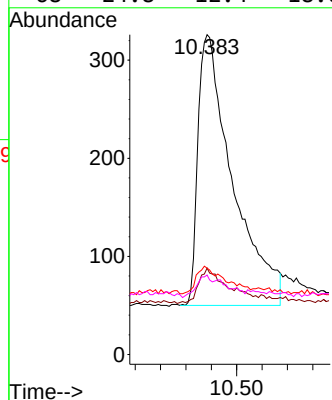
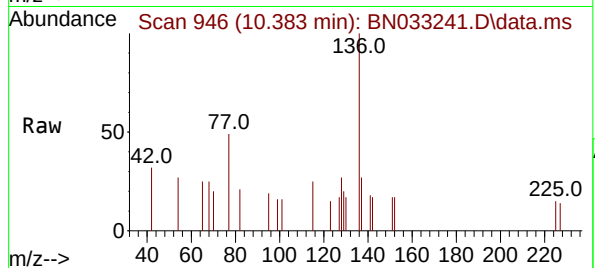
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 940
Delta R.T. 0.064 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
136	100		
137	27.0	14.1	21.1
54	27.0	13.8	20.8
68	24.8	12.4	18.6

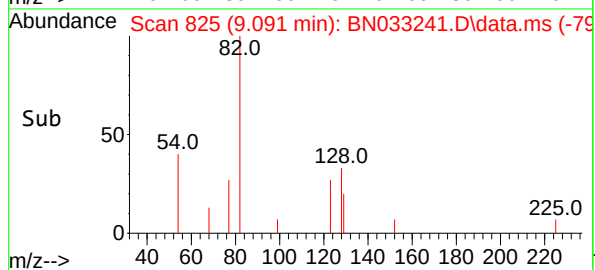
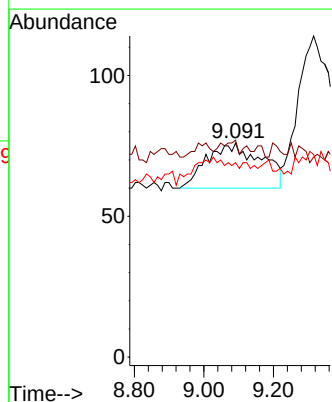
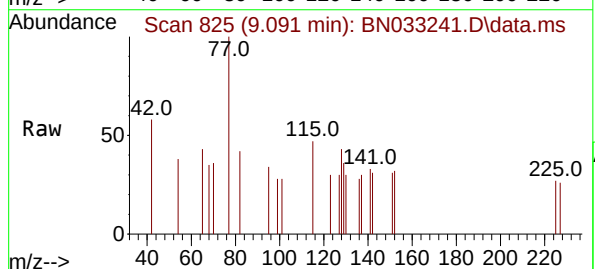
Manual Integrations
APPROVED

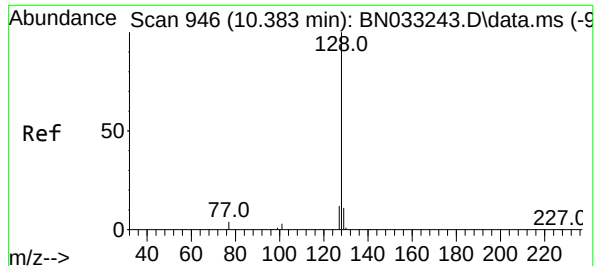
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.082 ng
RT: 9.091 min Scan# 825
Delta R.T. 0.171 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion	Ratio	Lower	Upper
82	100		
128	101.3	54.8	82.2
54	90.8	55.9	83.9





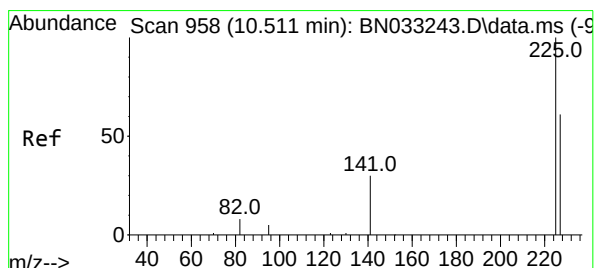
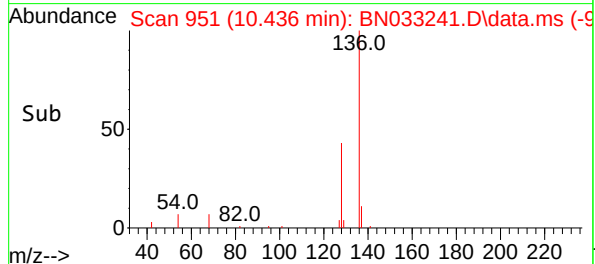
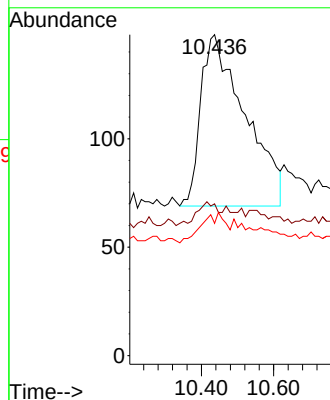
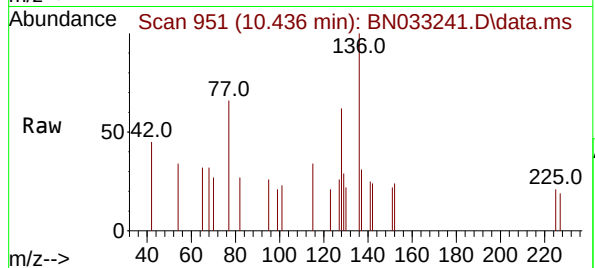
#9
Naphthalene
Concen: 0.095 ng
RT: 10.436 min Scan# 91
Delta R.T. 0.053 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 674
Ion Ratio Lower Upper
128 100
129 47.3 15.4 23.0
127 41.2 15.8 23.6

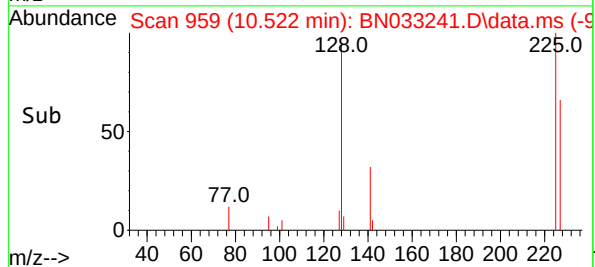
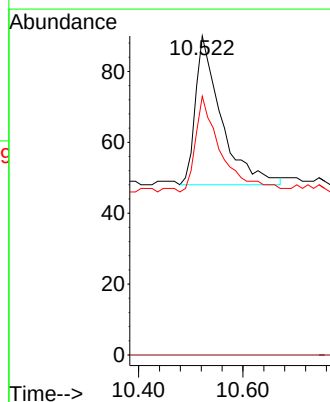
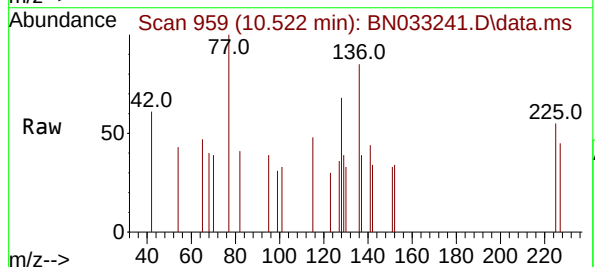
Manual Integrations
APPROVED

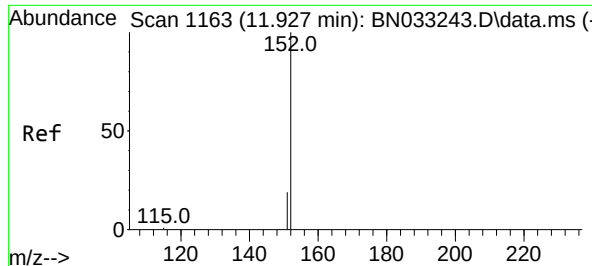
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.110 ng
RT: 10.522 min Scan# 959
Delta R.T. 0.011 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

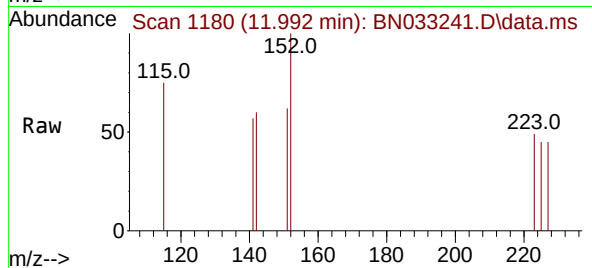
Tgt Ion:225 Resp: 145
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.090 ng m
RT: 11.992 min Scan# 11
Delta R.T. 0.065 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

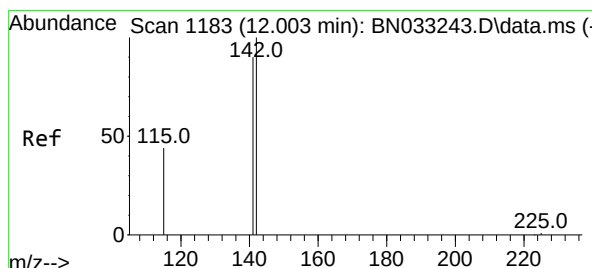
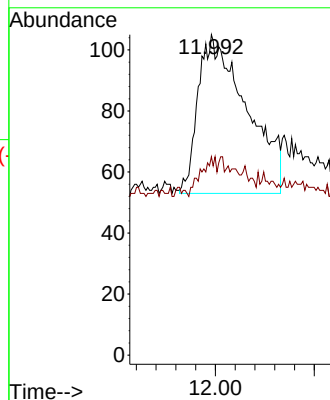
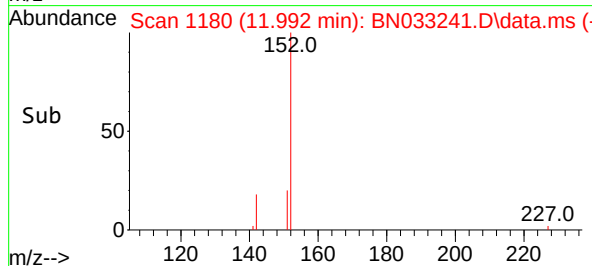
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



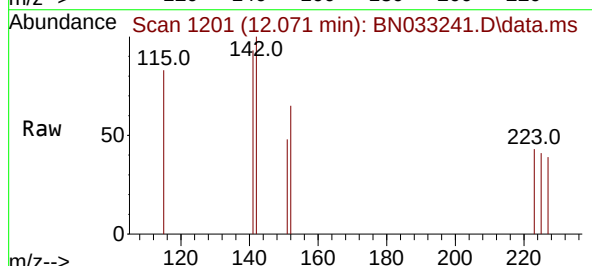
Tgt Ion:152 Resp: 352
Ion Ratio Lower Upper
152 100
151 8.0 11.9 17.9

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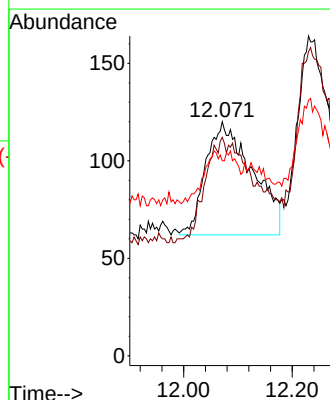
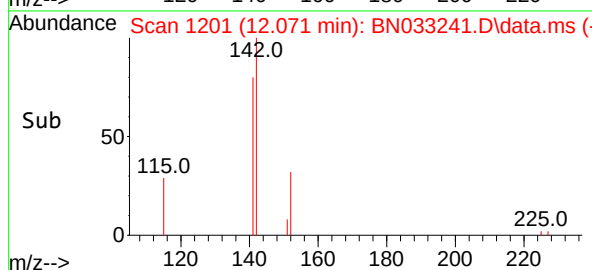
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

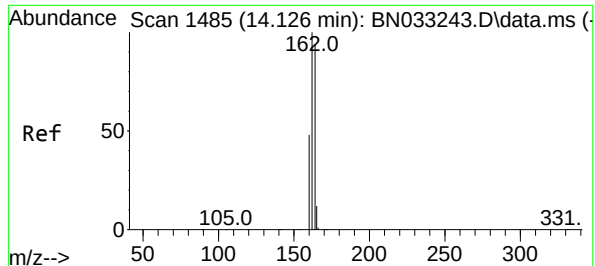


#12
2-Methylnaphthalene
Concen: 0.082 ng m
RT: 12.071 min Scan# 1201
Delta R.T. 0.068 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39



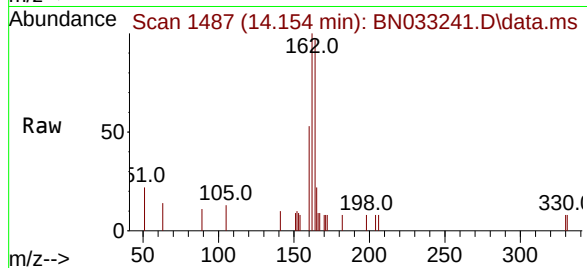
Tgt Ion:142 Resp: 347
Ion Ratio Lower Upper
142 100
141 93.3 68.7 103.1
115 83.3 41.6 62.4#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.154 min Scan# 1487
Delta R.T. 0.028 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

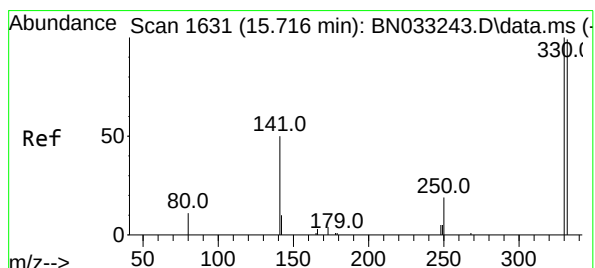
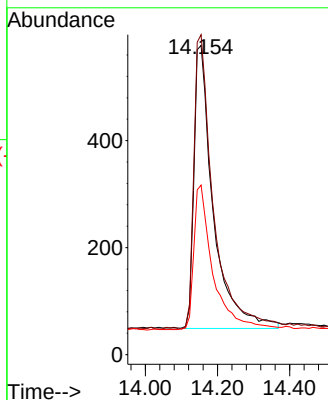
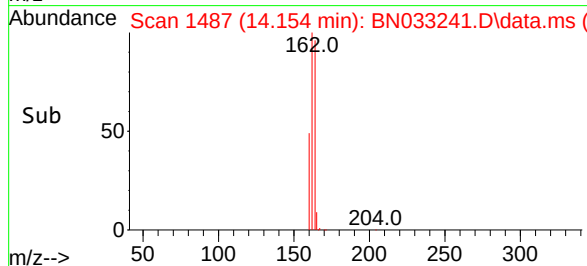
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:164 Resp: 1972
Ion Ratio Lower Upper
164 100
162 103.5 84.6 127.0
160 54.8 42.4 63.6

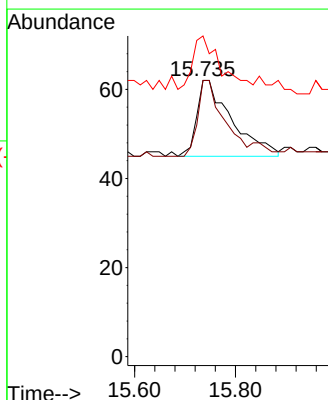
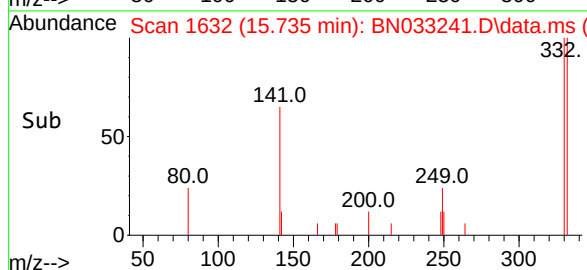
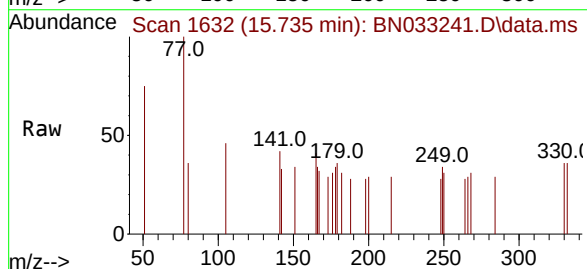
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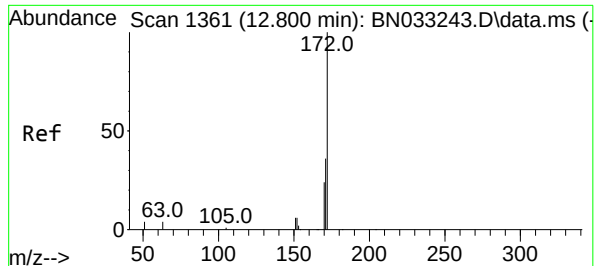
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#14
2,4,6-Tribromophenol
Concen: 0.112 ng
RT: 15.735 min Scan# 1632
Delta R.T. 0.019 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion:330 Resp: 82
Ion Ratio Lower Upper
330 100
332 82.9 73.7 110.5
141 54.9 44.8 67.2





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.850 min Scan# 1365

Delta R.T. 0.050 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

ClientSampleId :

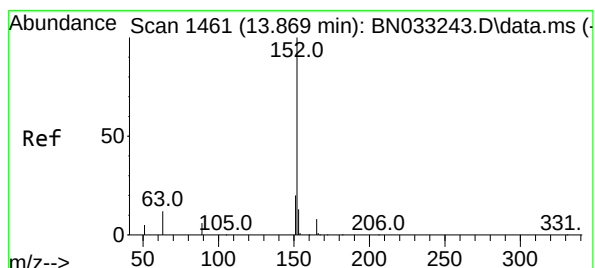
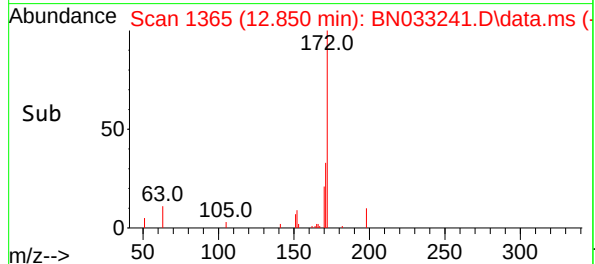
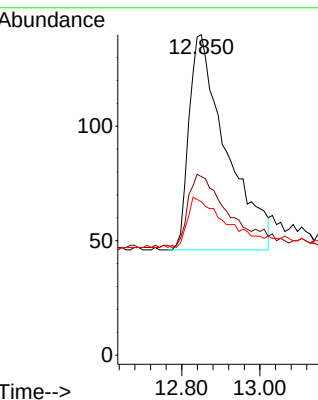
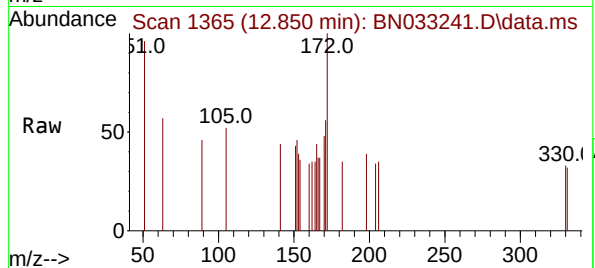
SSTDICC0.1

Tgt Ion:	172	Resp:	62
Ion Ratio	Lower	Upper	
172	100		
171	55.7	32.3	48.5
170	47.9	23.4	35.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 0.090 ng

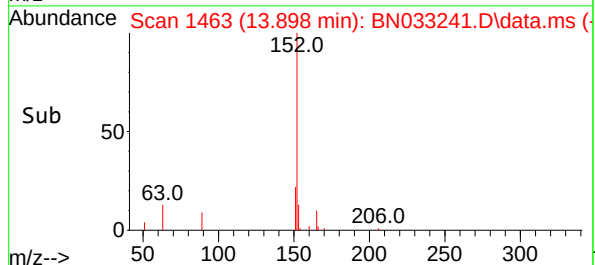
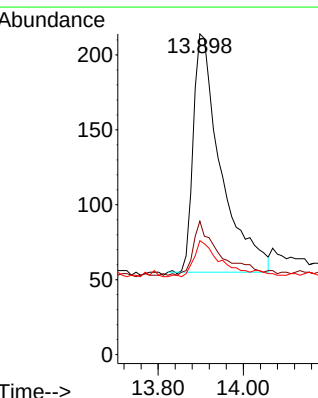
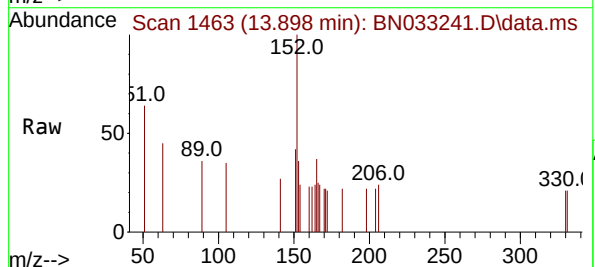
RT: 13.898 min Scan# 1463

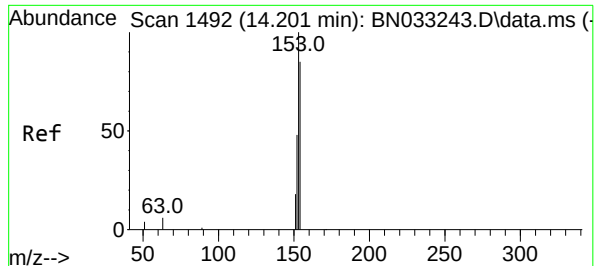
Delta R.T. 0.028 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Tgt Ion:	152	Resp:	711
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.1	24.1
153	14.2	10.2	15.2





#17

Acenaphthene

Concen: 0.096 ng

RT: 14.218 min Scan# 1493

Delta R.T. 0.017 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

ClientSampleId :

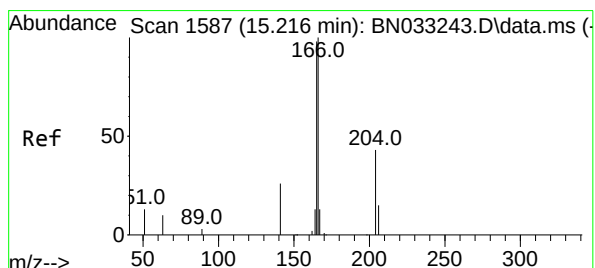
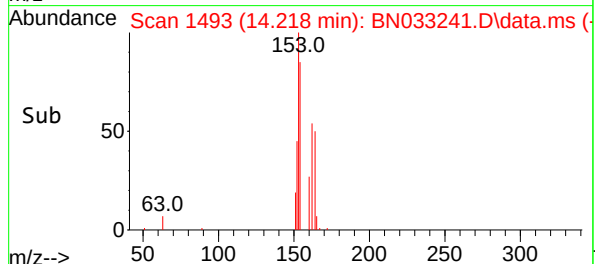
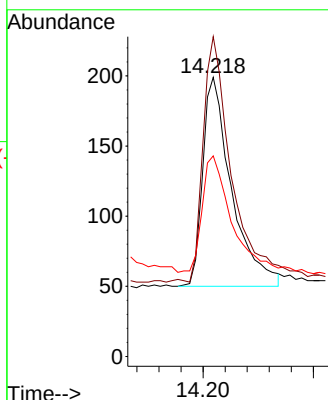
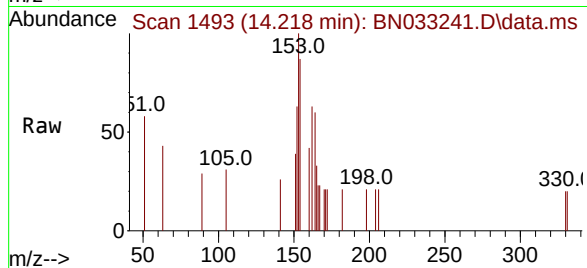
SSTDICC0.1

Tgt Ion:	154	Resp:	54.0
Ion	Ratio	Lower	Upper
154	100		
153	112.9	92.7	139.1
152	56.0	44.0	66.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18

Fluorene

Concen: 0.095 ng

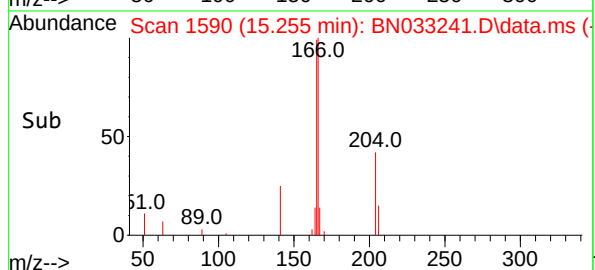
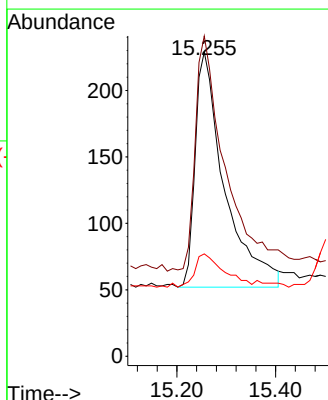
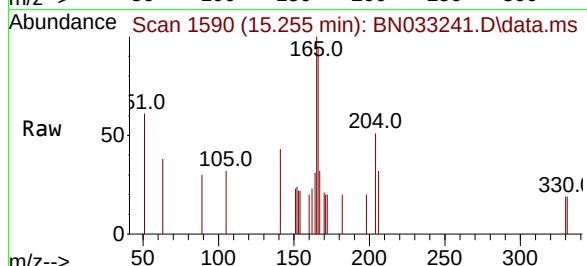
RT: 15.255 min Scan# 1590

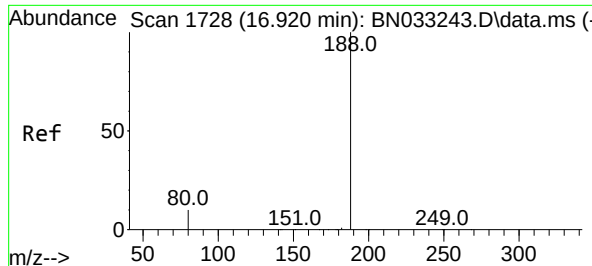
Delta R.T. 0.039 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Tgt Ion:	166	Resp:	728
Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.6	119.4
167	14.1	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.927 min Scan# 1728

Delta R.T. 0.007 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

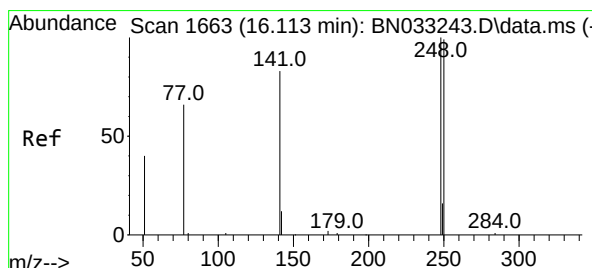
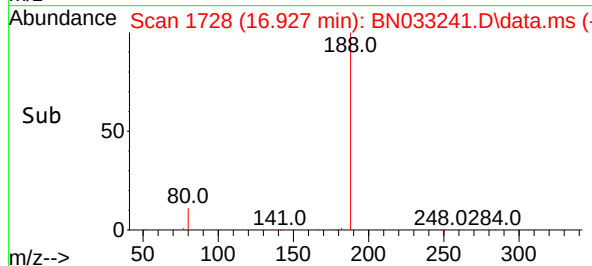
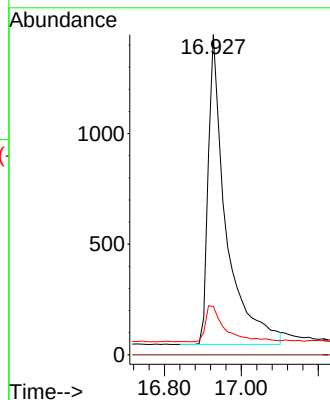
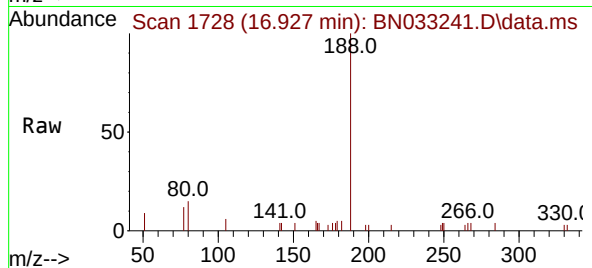
ClientSampleId :

SSTDICC0.1

Tgt Ion:	188	Resp:	447
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.1	10.2	15.4

Manual Integrations
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#21

4-Bromophenyl-phenylether

Concen: 0.093 ng

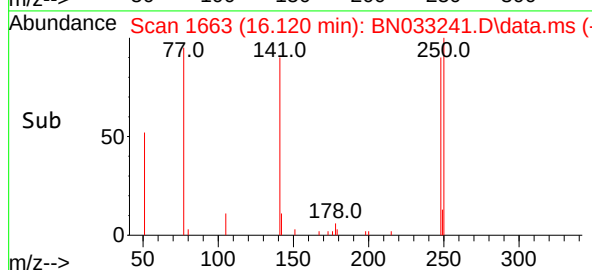
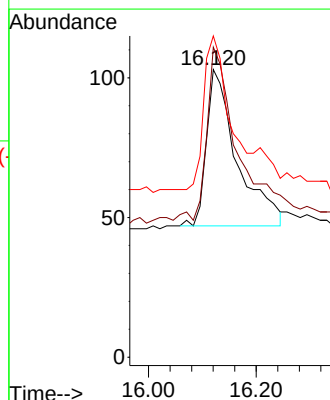
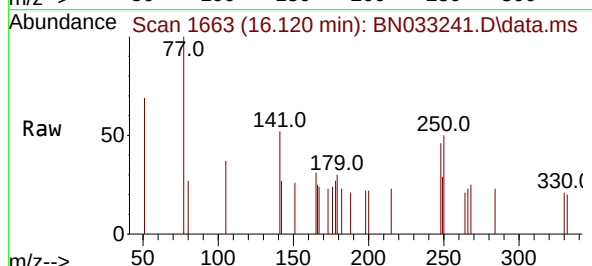
RT: 16.120 min Scan# 1663

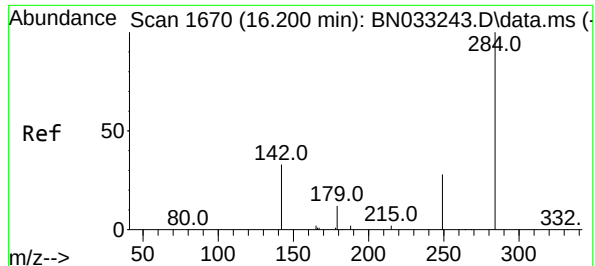
Delta R.T. 0.007 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

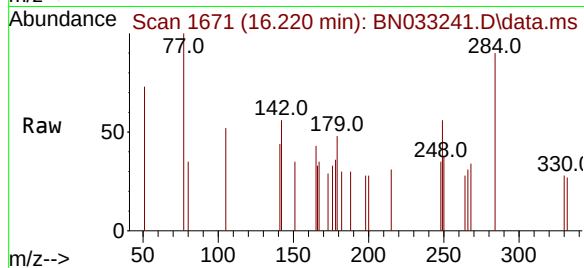
Tgt Ion:	248	Resp:	220
Ion Ratio	Lower	Upper	
248	100		
250	107.8	80.0	120.0
141	111.7	71.0	106.6





#22
Hexachlorobenzene
Concen: 0.105 ng
RT: 16.220 min Scan# 1671
Delta R.T. 0.020 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

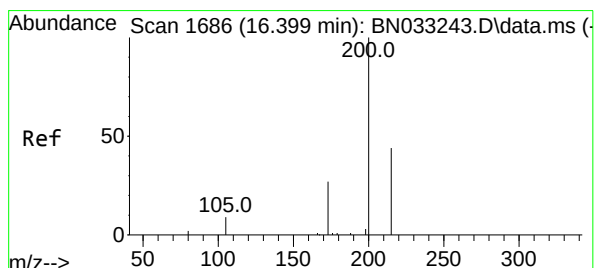
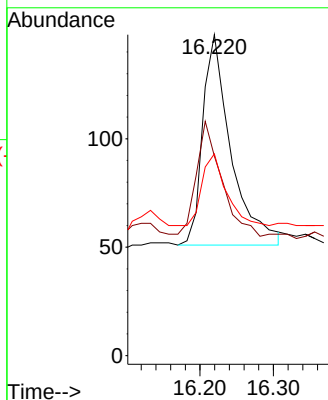
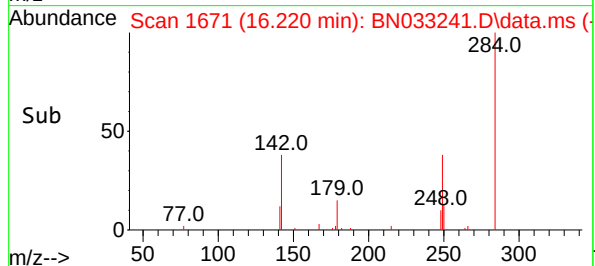
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:284 Resp: 259
Ion Ratio Lower Upper
284 100
142 45.9 38.8 58.2
249 31.7 27.8 41.6

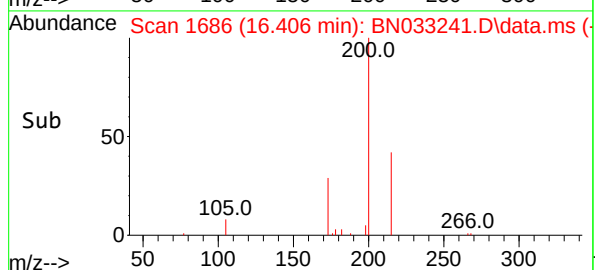
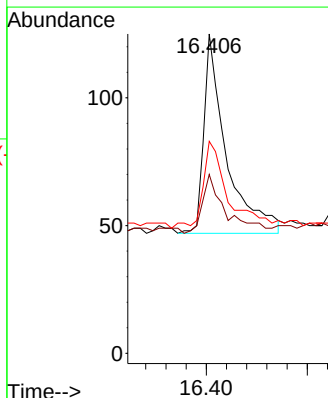
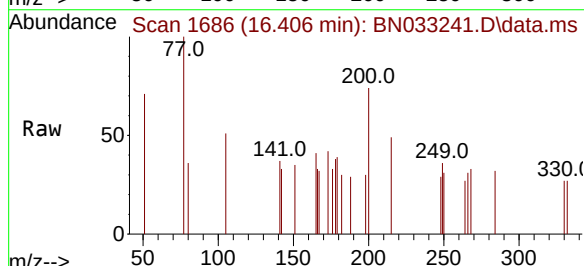
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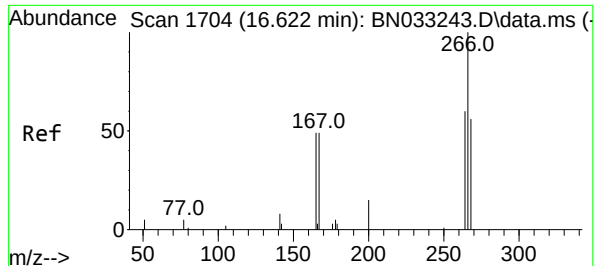
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#23
Atrazine
Concen: 0.108 ng
RT: 16.406 min Scan# 1686
Delta R.T. 0.007 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion:200 Resp: 241
Ion Ratio Lower Upper
200 100
173 56.0 29.2 43.8#
215 66.4 41.5 62.3#





#24

Pentachlorophenol

Concen: 0.083 ng

RT: 16.666 min Scan# 1707

Delta R.T. 0.044 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

ClientSampleId :

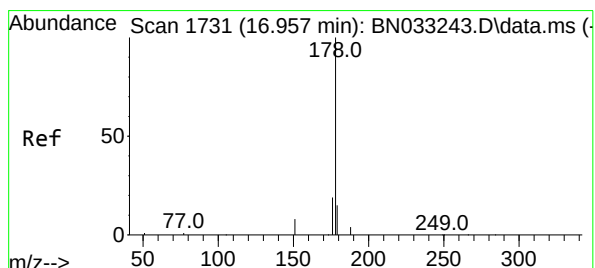
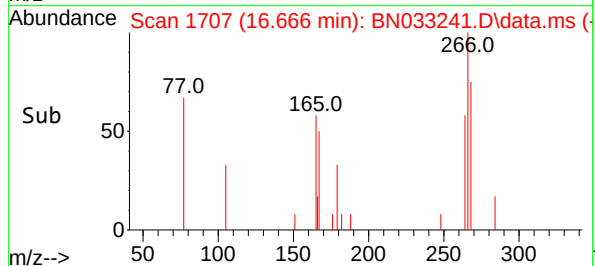
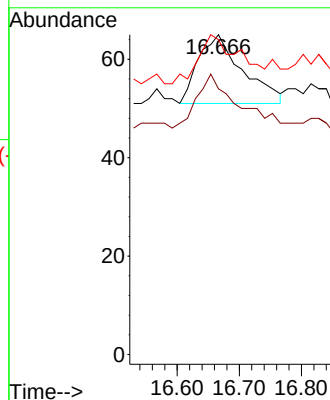
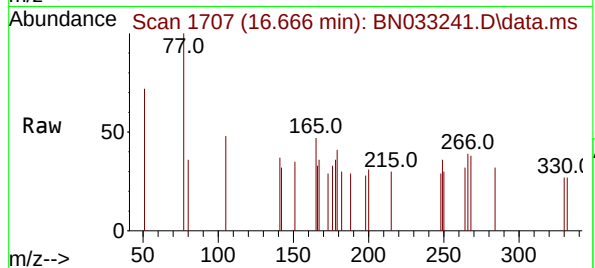
SSTDICC0.1

Tgt Ion:	266	Resp:	69
Ion Ratio	Lower	Upper	
266	100		
264	72.5	49.3	73.9
268	68.1	50.2	75.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#25

Phenanthrene

Concen: 0.103 ng

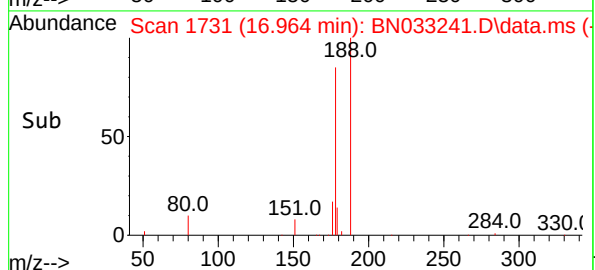
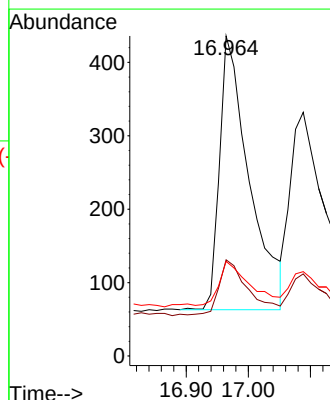
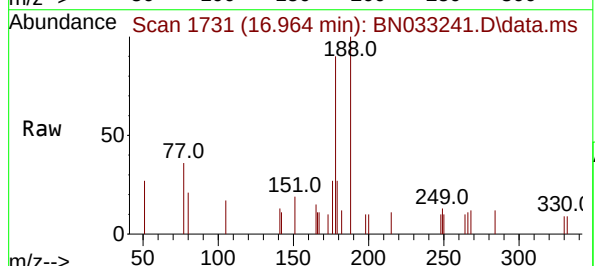
RT: 16.964 min Scan# 1731

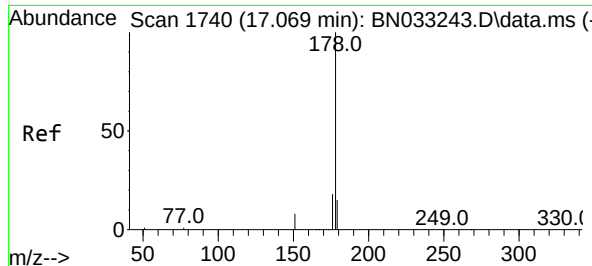
Delta R.T. 0.007 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

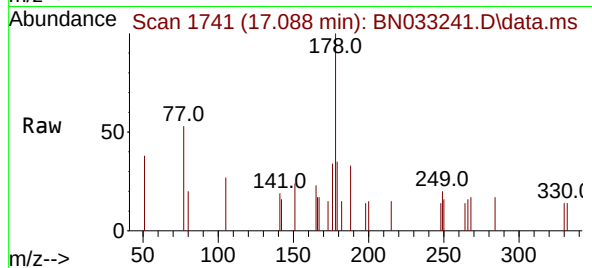
Tgt Ion:	178	Resp:	1237
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.7	23.5
179	16.4	12.4	18.6





#26
Anthracene
Concen: 0.086 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.019 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

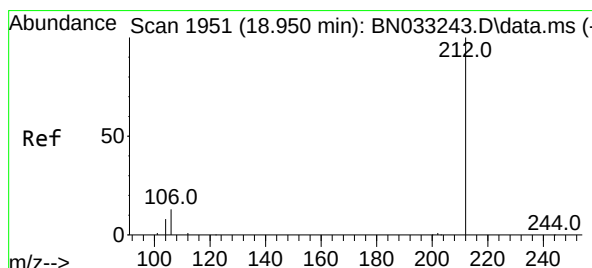
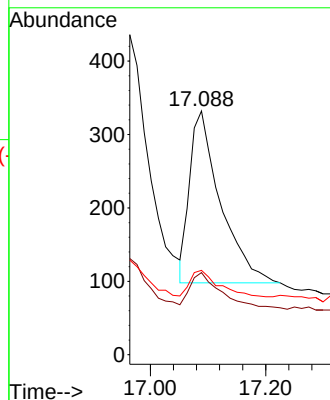
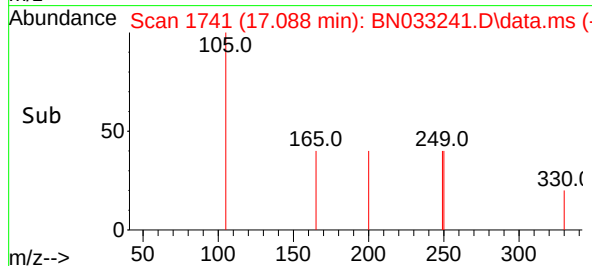
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:178 Resp: 86
Ion Ratio Lower Upper
178 100
176 19.8 10.5 15.7
179 14.0 8.6 12.8

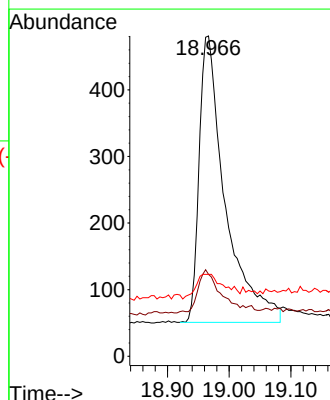
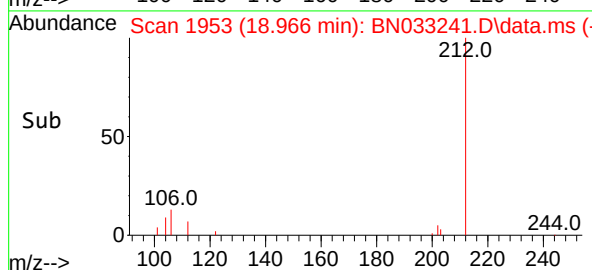
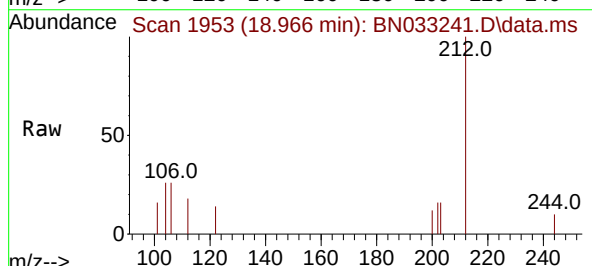
Manual Integrations
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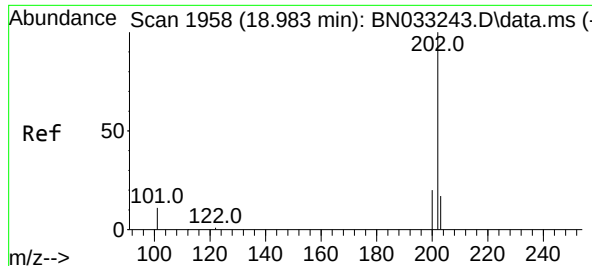
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 18.966 min Scan# 1953
Delta R.T. 0.016 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

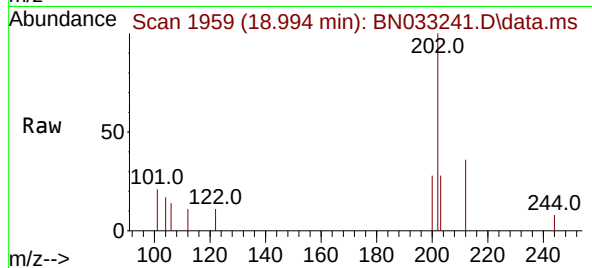
Tgt Ion:212 Resp: 1262
Ion Ratio Lower Upper
212 100
106 13.7 11.4 17.0
104 9.4 7.1 10.7





#28
Fluoranthene
Concen: 0.107 ng
RT: 18.994 min Scan# 1959
Delta R.T. 0.012 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

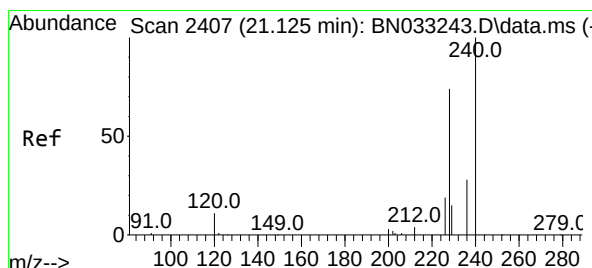
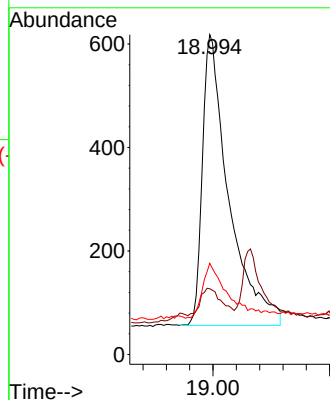
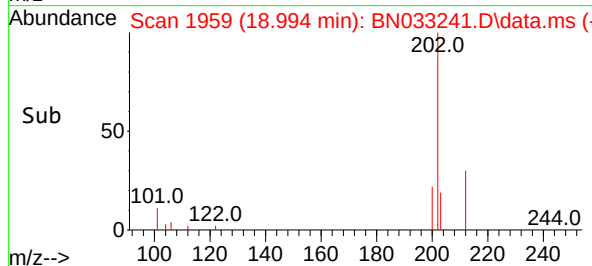
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 1768
Ion Ratio Lower Upper
202 100
101 8.4 8.6 13.0#
203 17.8 13.8 20.8

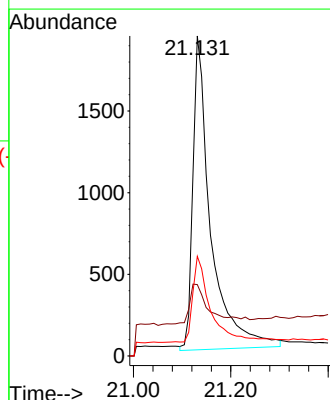
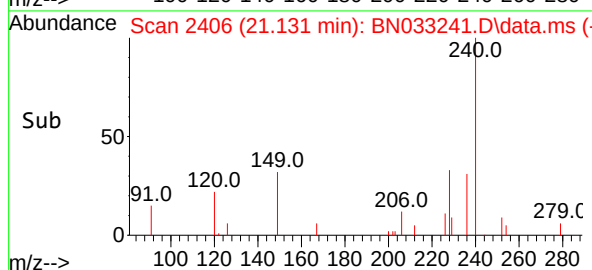
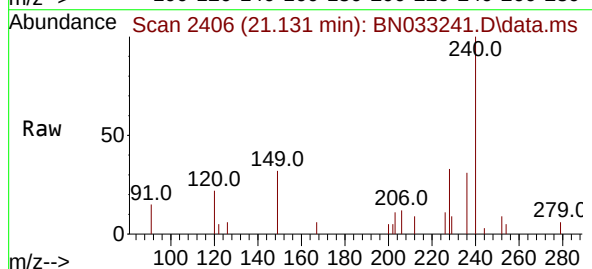
Manual Integrations
APPROVED

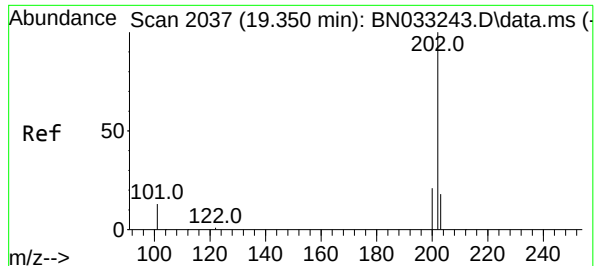
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. 0.006 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion:240 Resp: 4894
Ion Ratio Lower Upper
240 100
120 22.3 13.3 19.9#
236 31.1 23.8 35.6





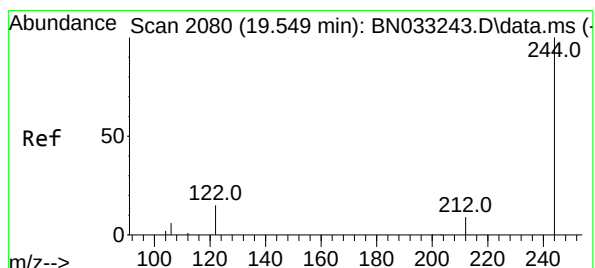
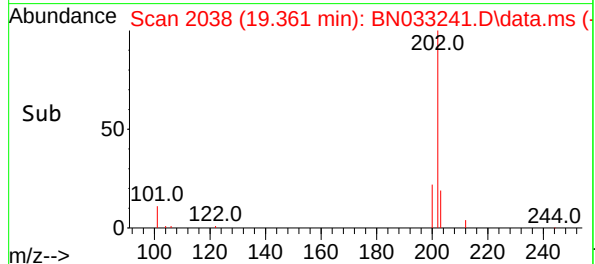
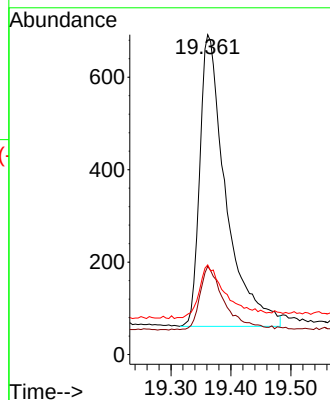
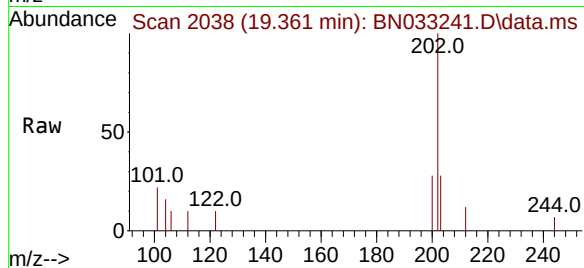
#30
Pyrene
Concen: 0.111 ng
RT: 19.361 min Scan# 2038
Delta R.T. 0.012 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	18.7	14.4	21.6

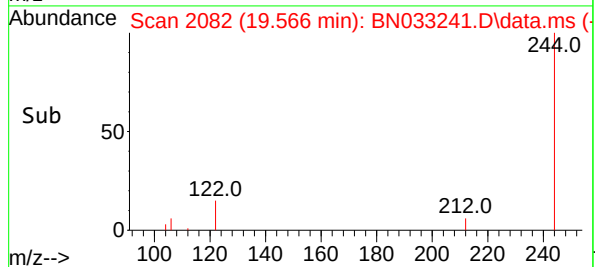
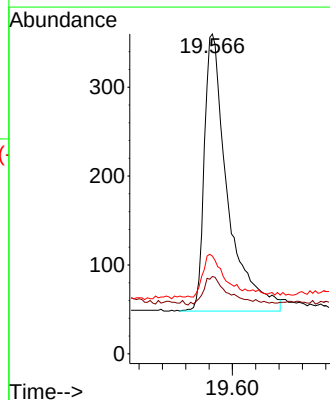
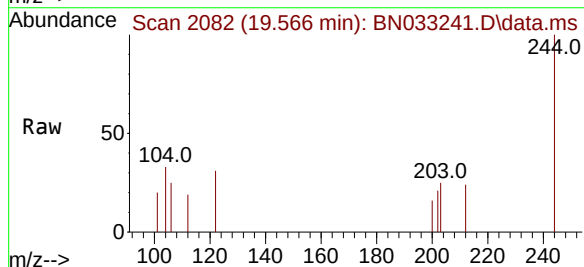
Manual Integrations
APPROVED

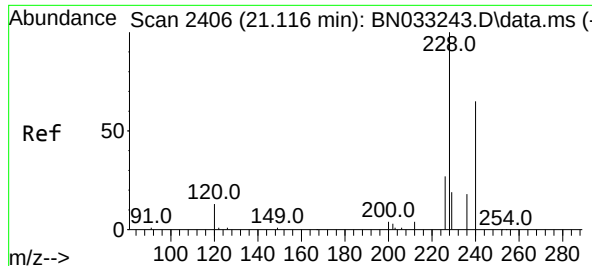
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.566 min Scan# 2082
Delta R.T. 0.016 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

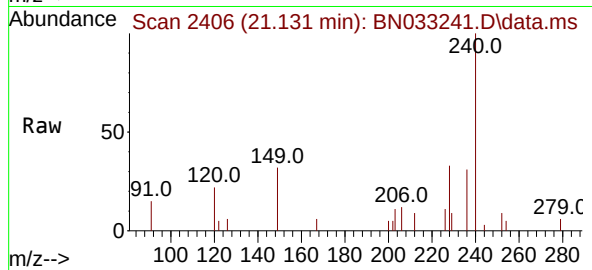
Tgt Ion	Ratio	Lower	Upper
244	100		
212	24.2	9.9	14.9#
122	30.6	14.1	21.1#





#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 21.131 min Scan# 2406
Delta R.T. 0.015 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

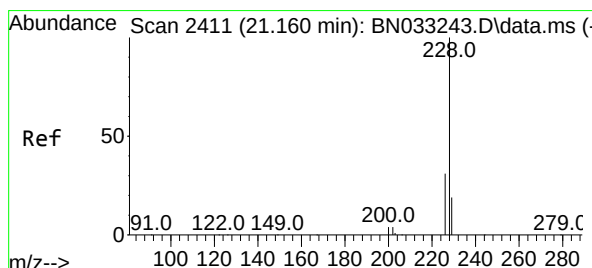
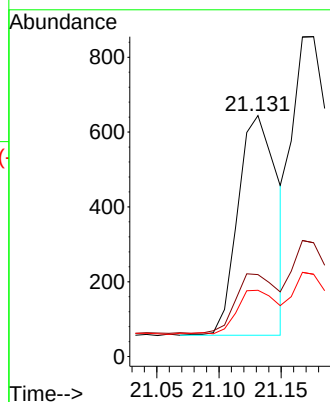
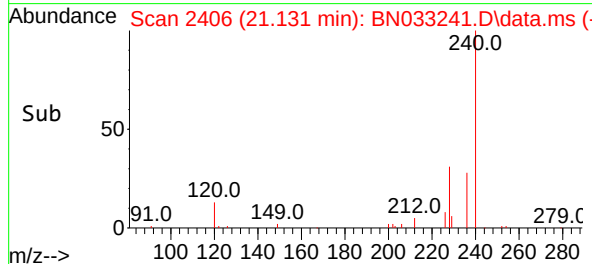
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 1285
Ion Ratio Lower Upper
228 100
226 34.0 22.4 33.6
229 27.5 16.6 25.0

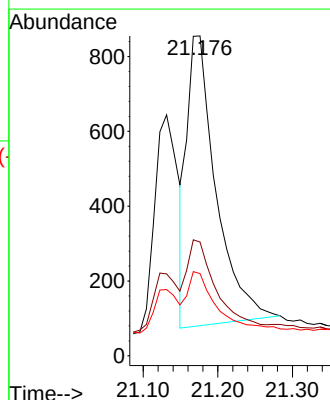
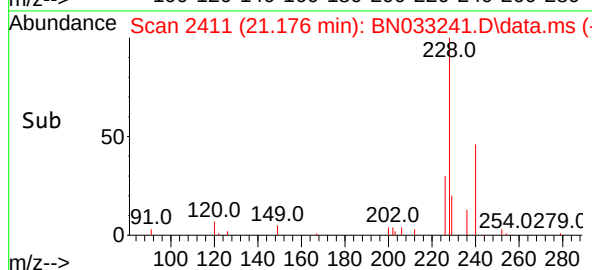
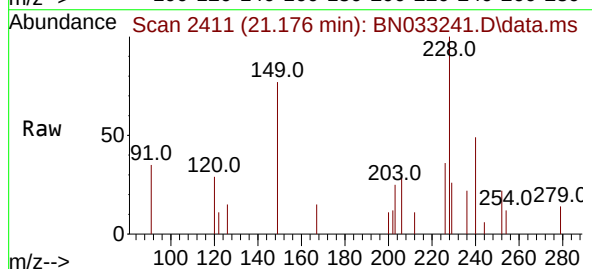
Manual Integrations
APPROVED

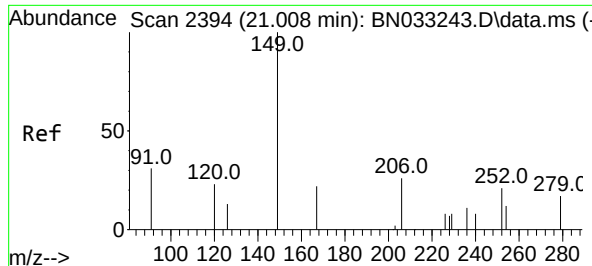
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#33
Chrysene
Concen: 0.111 ng
RT: 21.176 min Scan# 2411
Delta R.T. 0.016 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion:228 Resp: 2100
Ion Ratio Lower Upper
228 100
226 35.6 25.1 37.7
229 25.7 16.2 24.2





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.319 ng
RT: 21.006 min Scan# 21006
Delta R.T. -0.002 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

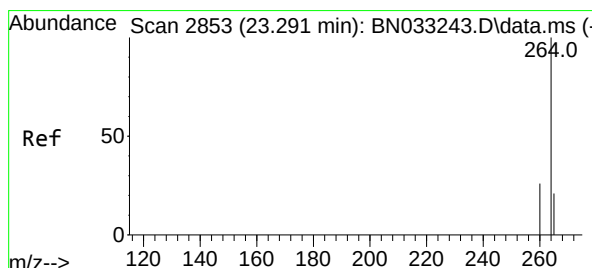
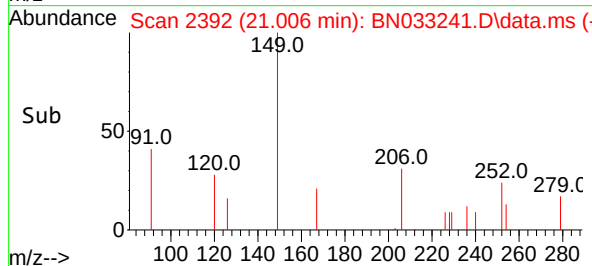
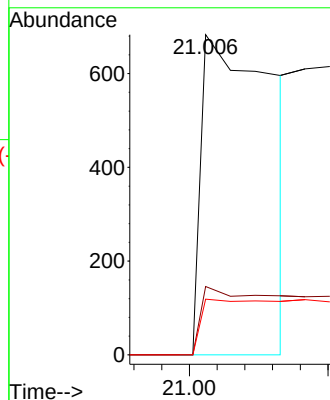
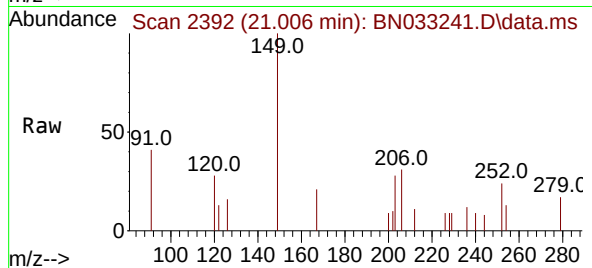
ClientSampleId :

SSTDICC0.1

Tgt Ion:149 Resp: 108
Ion Ratio Lower Upper
149 100
167 39.1 19.8 29.6
279 18.6 8.2 12.4

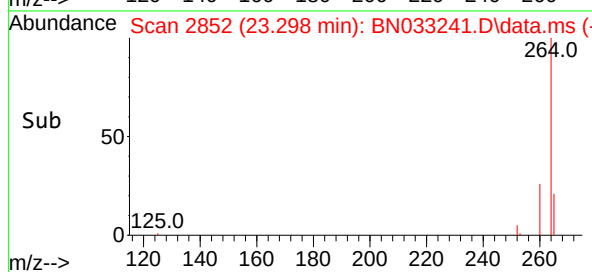
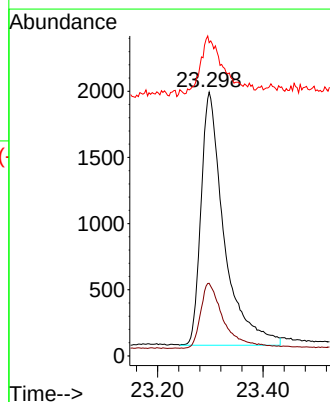
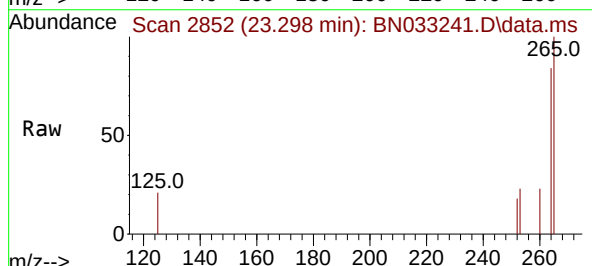
Manual Integrations
APPROVED

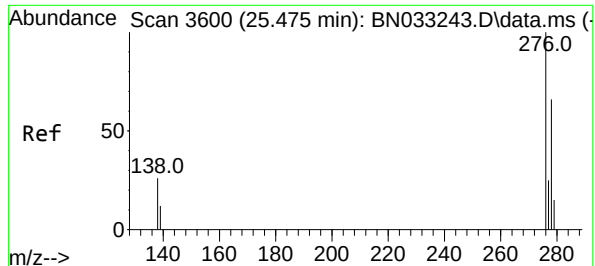
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.298 min Scan# 2852
Delta R.T. 0.007 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

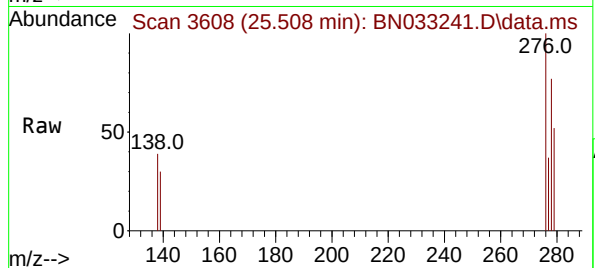
Tgt Ion:264 Resp: 5815
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 118.7 66.6 99.8





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.508 min Scan# 3608
Delta R.T. 0.033 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

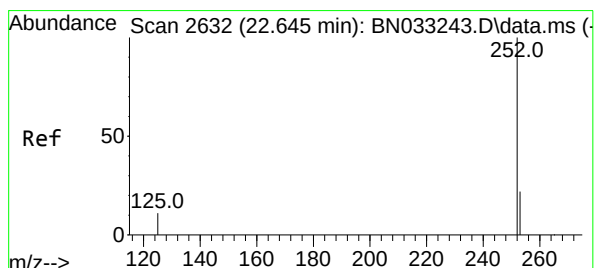
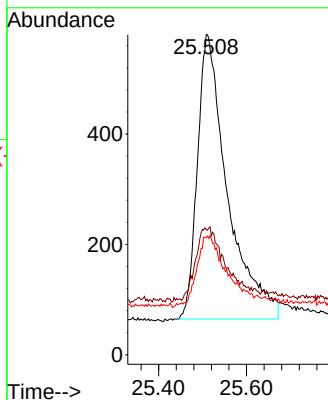
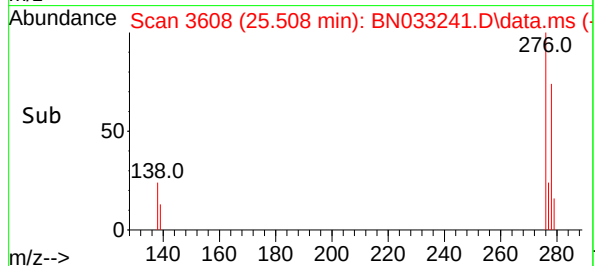
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



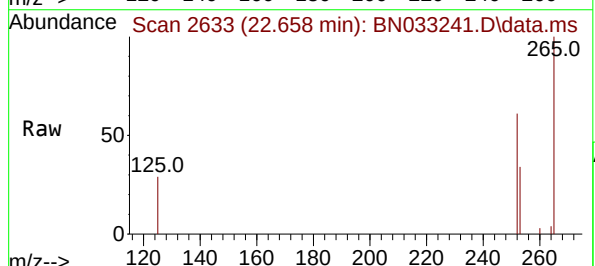
Tgt Ion: 276 Resp: 2454
Ion Ratio Lower Upper
276 100
138 10.2 20.4 30.6
277 8.5 19.9 29.9

Manual Integrations
APPROVED

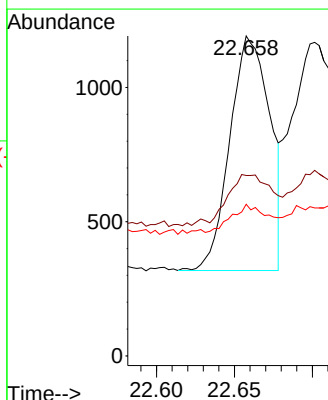
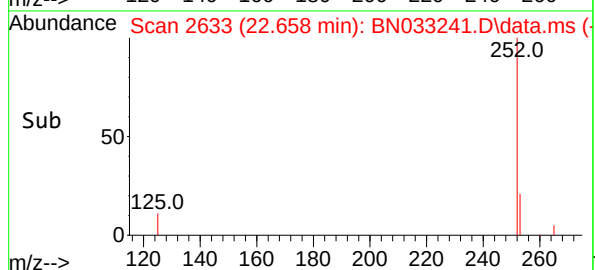
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

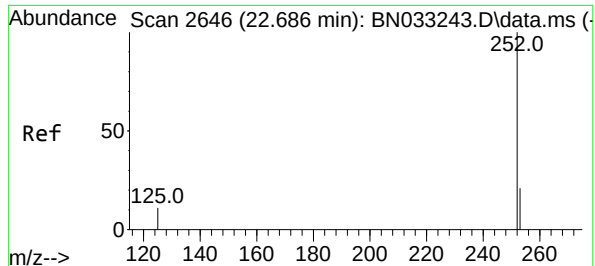


#37
Benzo(b)fluoranthene
Concen: 0.088 ng
RT: 22.658 min Scan# 2633
Delta R.T. 0.013 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39



Tgt Ion: 252 Resp: 1558
Ion Ratio Lower Upper
252 100
253 56.4 23.3 34.9#
125 47.4 14.6 22.0#





#38

Benzo(k)fluoranthene

Concen: 0.101 ng m

RT: 22.701 min Scan# 2648

Delta R.T. 0.015 min

Lab File: BN033241.D

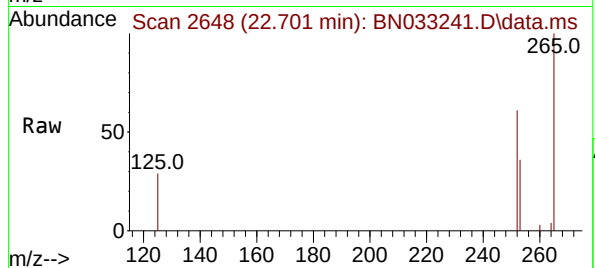
Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:252 Resp: 224

Ion Ratio Lower Upper

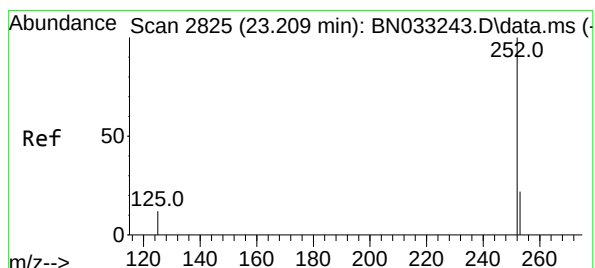
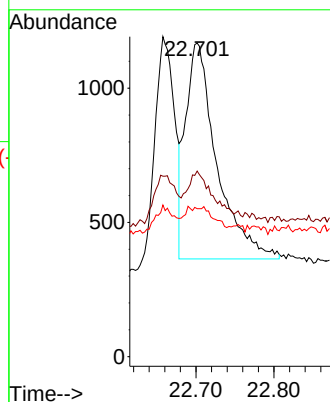
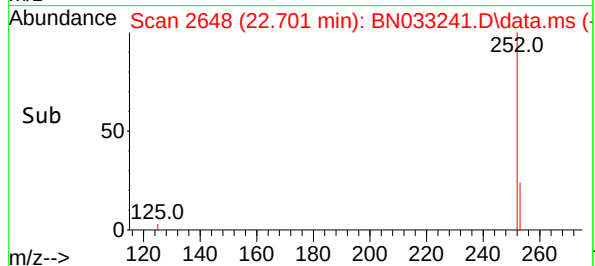
252 100

253 59.2 23.7 35.5

125 47.2 15.4 23.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#39

Benzo(a)pyrene

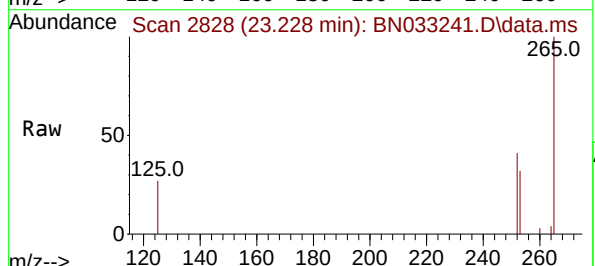
Concen: 0.097 ng

RT: 23.228 min Scan# 2828

Delta R.T. 0.019 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39



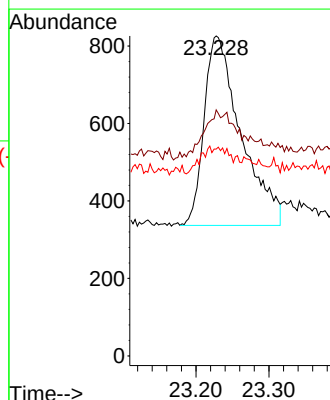
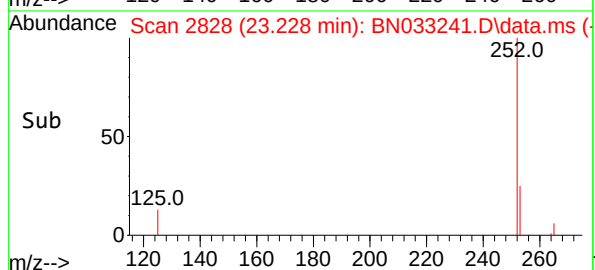
Tgt Ion:252 Resp: 1721

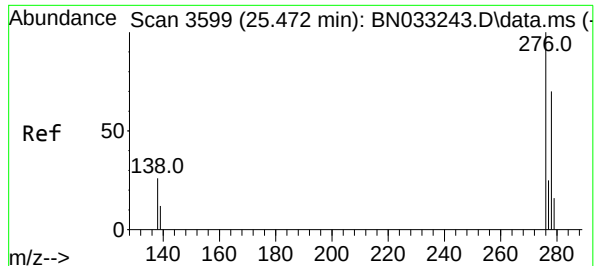
Ion Ratio Lower Upper

252 100

253 76.9 28.4 42.6#

125 64.6 20.1 30.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.092 ng

RT: 25.502 min Scan# 30

Delta R.T. 0.030 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:278 Resp: 1909

Ion Ratio Lower Upper

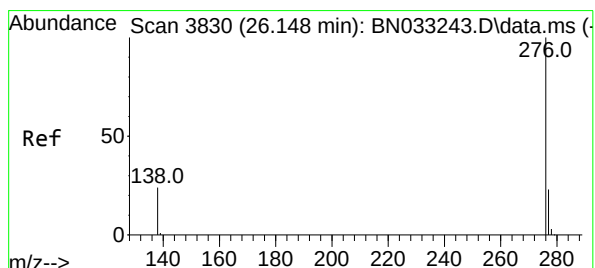
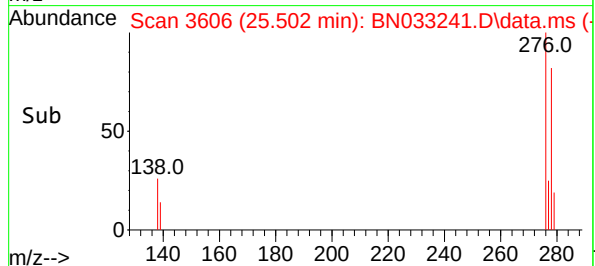
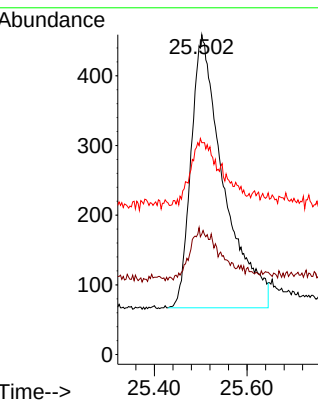
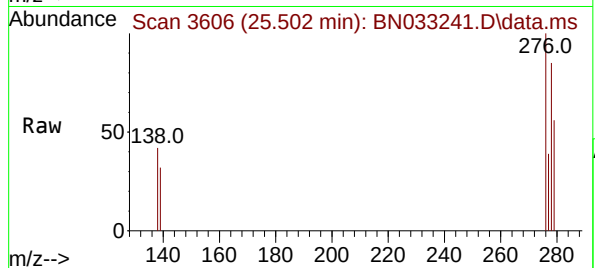
278 100

139 37.7 16.7 25.1#

279 66.2 25.0 37.6#

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#41

Benzo(g,h,i)perylene

Concen: 0.096 ng

RT: 26.181 min Scan# 3838

Delta R.T. 0.033 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

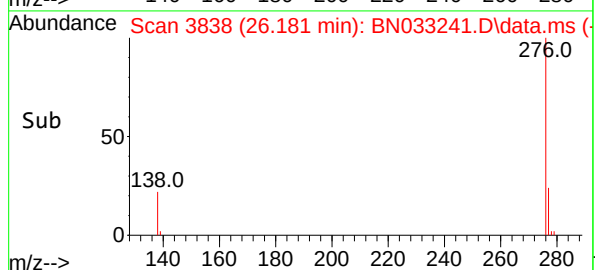
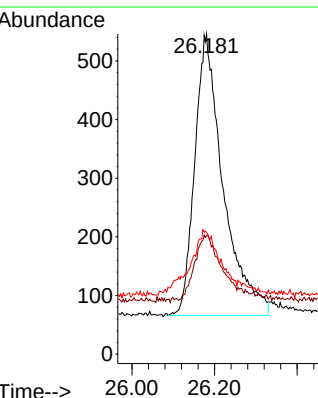
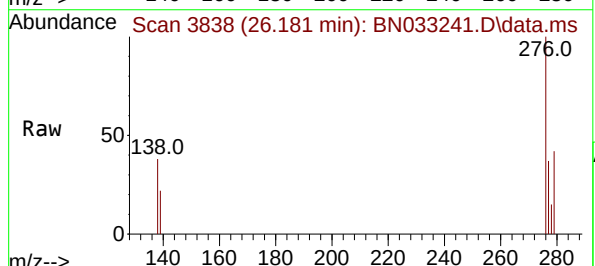
Tgt Ion:276 Resp: 2292

Ion Ratio Lower Upper

276 100

277 37.0 21.0 31.4#

138 37.9 21.4 32.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033242.D
 Acq On : 05 Aug 2024 19:16
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:38:31 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.524	152	954	0.400	ng	0.01
7) Naphthalene-d8	10.351	136	3497	0.400	ng	0.03
13) Acenaphthene-d10	14.137	164	2672	0.400	ng	0.01
19) Phenanthrene-d10	16.920	188	5886	0.400	ng	0.00
29) Chrysene-d12	21.133	240	6331	0.400	ng	0.00
35) Perylene-d12	23.294	264	8030	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.343	112	437m	0.184	ng	0.05
5) Phenol-d6	7.069	99	517m	0.160	ng	0.08
8) Nitrobenzene-d5	8.984	82	544m	0.192	ng	0.06
11) 2-Methylnaphthalene-d10	11.973	152	969m	0.185	ng	0.05
14) 2,4,6-Tribromophenol	15.728	330	166	0.167	ng	0.01
15) 2-Fluorobiphenyl	12.832	172	1640	0.179	ng	0.03
27) Fluoranthene-d10	18.955	212	3250	0.197	ng	0.00
31) Terphenyl-d14	19.554	244	2277	0.208	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.054	88	384	0.126	ng	# 96
3) n-Nitrosodimethylamine	3.487	42	222	0.191	ng	# 61
6) bis(2-Chloroethyl)ether	7.084	93	490m	0.176	ng	
9) Naphthalene	10.415	128	1907	0.201	ng	# 82
10) Hexachlorobutadiene	10.522	225	367	0.208	ng	# 97
12) 2-Methylnaphthalene	12.041	142	1018m	0.180	ng	
16) Acenaphthylene	13.891	152	1862	0.175	ng	99
17) Acenaphthene	14.211	154	1406	0.183	ng	97
18) Fluorene	15.238	166	1927	0.185	ng	99
20) 4,6-Dinitro-2-methylph...	15.592	198	80	0.309	ng	97
21) 4-Bromophenyl-phenylether	16.126	248	613	0.196	ng	98
22) Hexachlorobenzene	16.212	284	635	0.195	ng	99
23) Atrazine	16.411	200	568	0.193	ng	96
24) Pentachlorophenol	16.647	266	173	0.159	ng	95
25) Phenanthrene	16.970	178	2956	0.187	ng	100
26) Anthracene	17.081	178	2249	0.169	ng	# 87
28) Fluoranthene	18.987	202	4306	0.198	ng	99
30) Pyrene	19.350	202	4627	0.209	ng	99
32) Benzo(a)anthracene	21.125	228	3303	0.181	ng	95
33) Chrysene	21.169	228	5367	0.219	ng	98
34) Bis(2-ethylhexyl)phtha...	21.008	149	1711	0.391	ng	# 83
36) Indeno(1,2,3-cd)pyrene	25.496	276	6847	0.189	ng	96
37) Benzo(b)fluoranthene	22.651	252	4300	0.177	ng	# 85
38) Benzo(k)fluoranthene	22.695	252	5966m	0.194	ng	
39) Benzo(a)pyrene	23.218	252	4630	0.189	ng	# 77
40) Dibenzo(a,h)anthracene	25.493	278	5356	0.187	ng	# 85
41) Benzo(g,h,i)perylene	26.162	276	6344	0.193	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033242.D
 Acq On : 05 Aug 2024 19:16
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

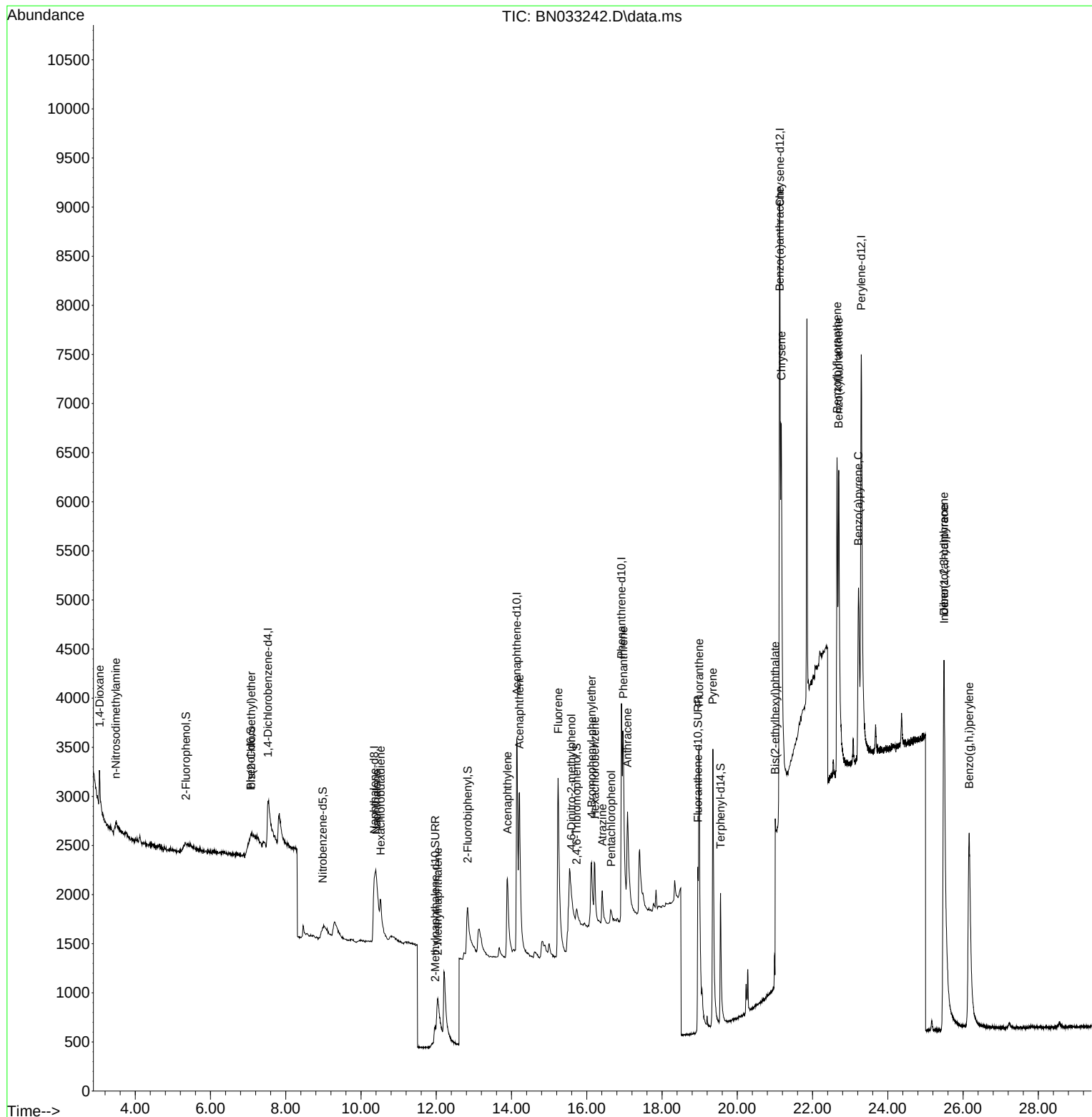
SSTDICC0.2

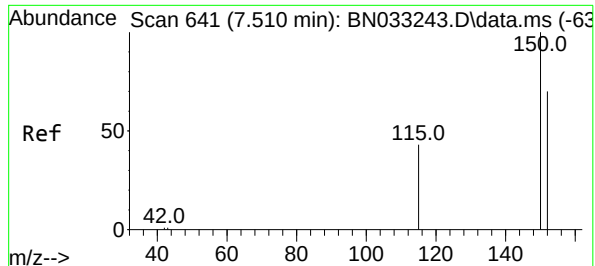
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

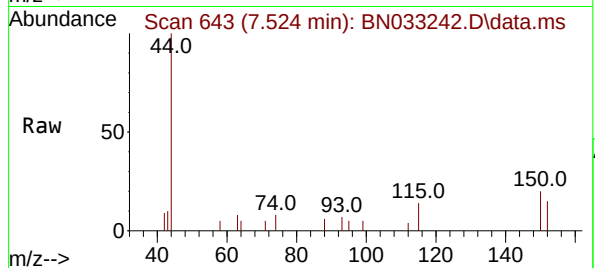
Quant Time: Aug 05 23:38:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:33:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.524 min Scan# 64
Delta R.T. 0.014 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

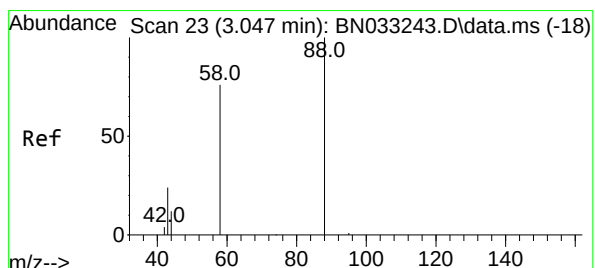
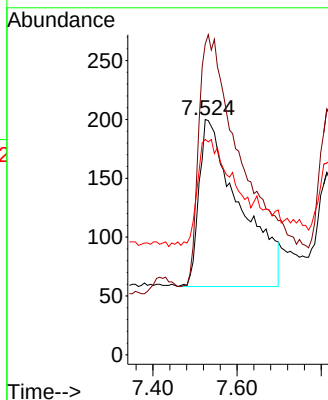
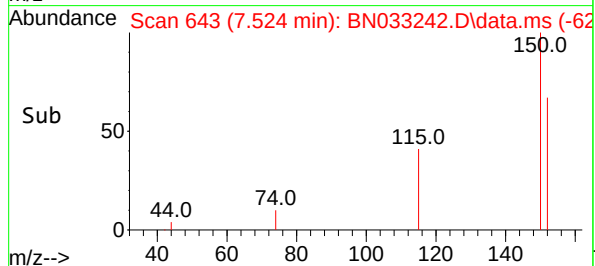
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 954
Ion Ratio Lower Upper
152 100
150 132.0 108.2 162.2
115 91.5 70.5 105.7

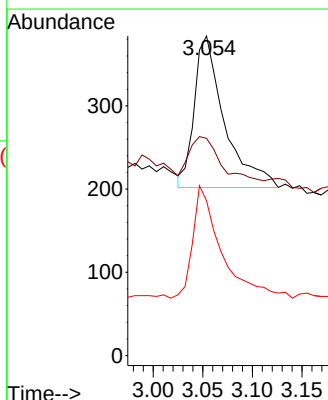
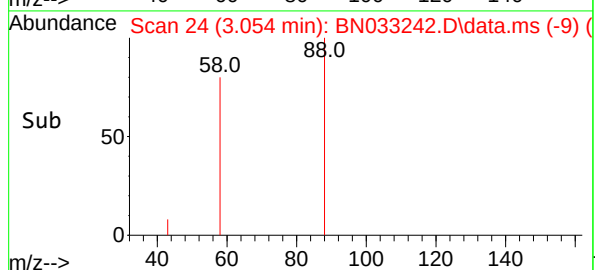
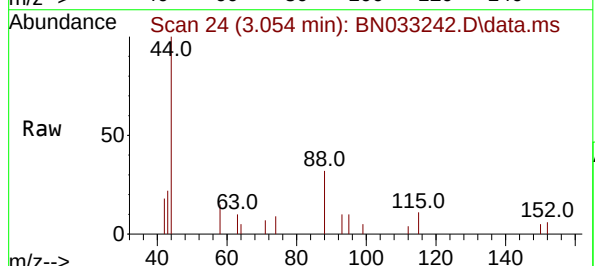
Manual Integrations
APPROVED

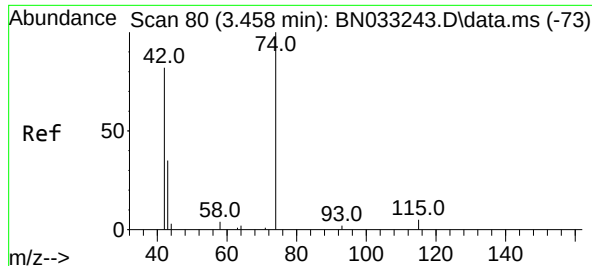
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.126 ng
RT: 3.054 min Scan# 24
Delta R.T. 0.007 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

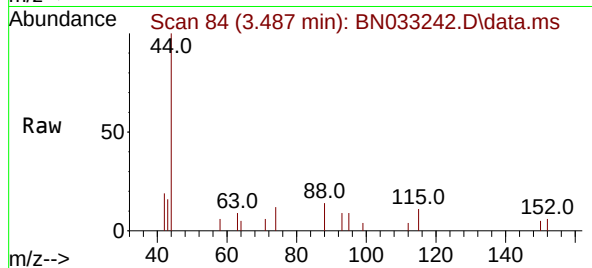
Tgt Ion: 88 Resp: 384
Ion Ratio Lower Upper
88 100
43 28.9 18.6 28.0#
58 69.5 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.191 ng
RT: 3.487 min Scan# 84
Delta R.T. 0.029 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

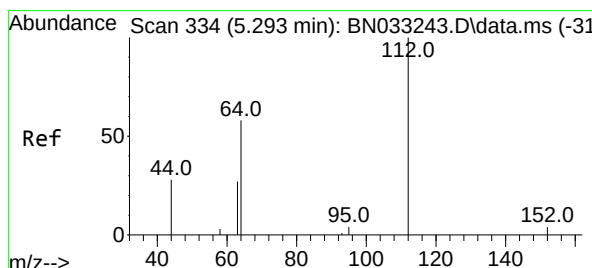
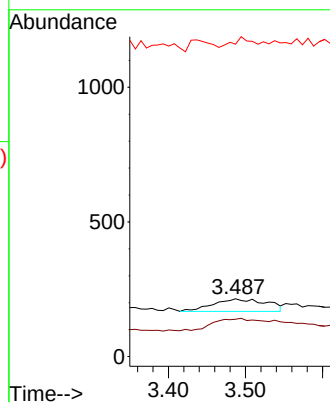
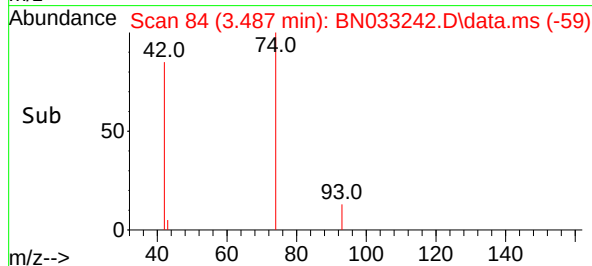
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 22
Ion Ratio Lower Upper
42 100
74 143.2 0.0 0.0
44 27.0 9.6 14.4

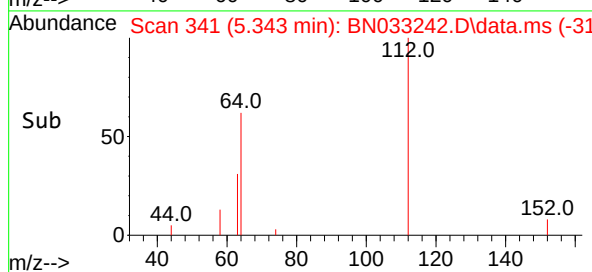
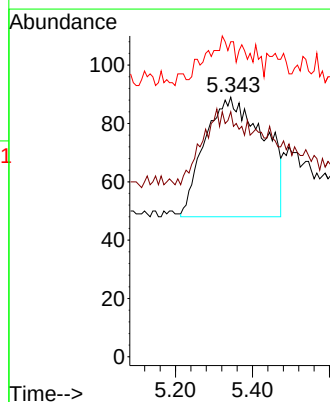
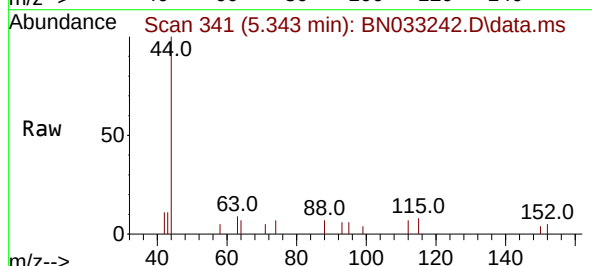
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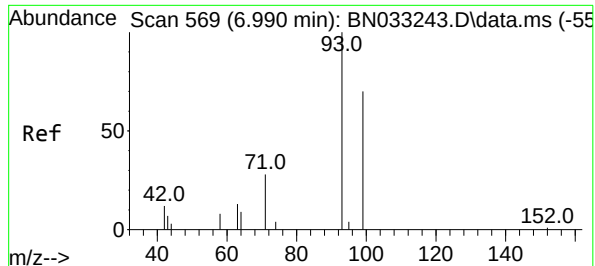
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.184 ng m
RT: 5.343 min Scan# 341
Delta R.T. 0.050 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion:112 Resp: 437
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





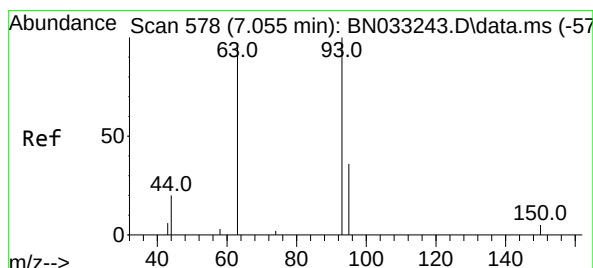
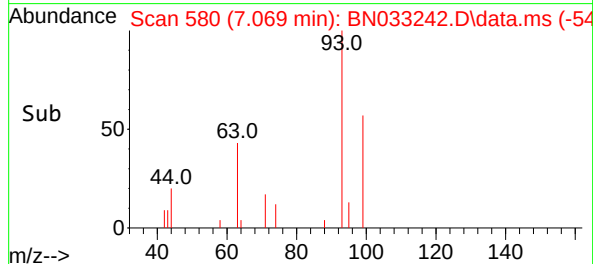
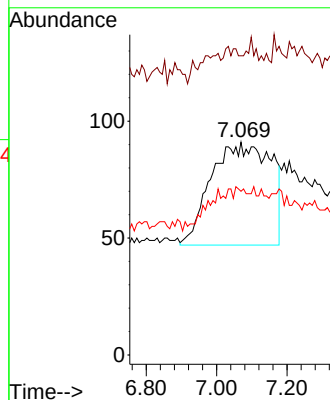
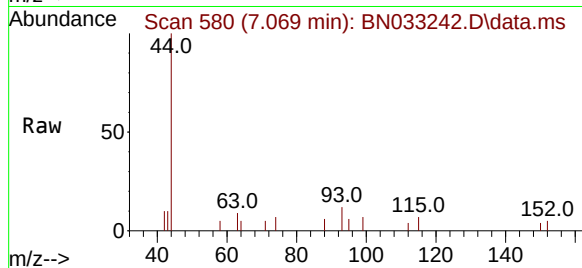
#5
Phenol-d6
Concen: 0.160 ng m
RT: 7.069 min Scan# 51
Delta R.T. 0.079 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 51
Ion Ratio Lower Upper
99 100
42 1.2 0.0 0.0#
71 0.0 0.0 0.0

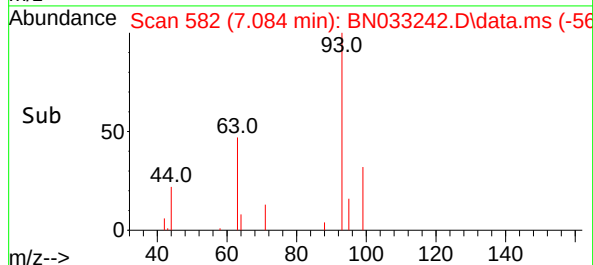
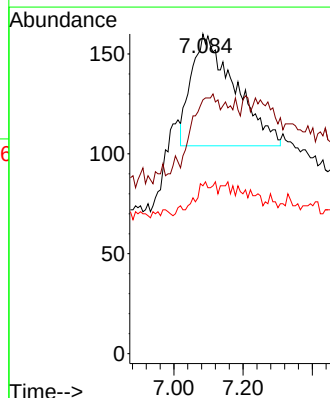
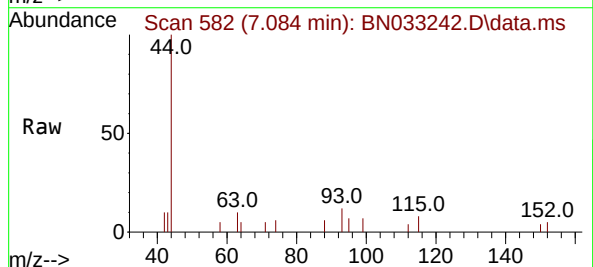
Manual Integrations
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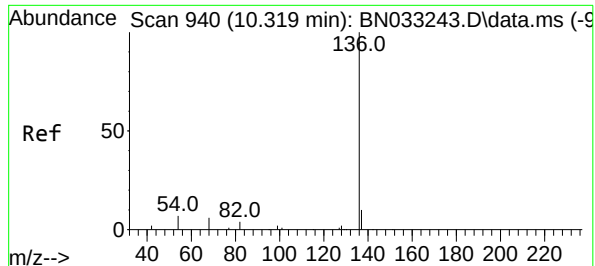
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.176 ng m
RT: 7.084 min Scan# 582
Delta R.T. 0.029 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion: 93 Resp: 490
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 7.3 0.0 0.0#





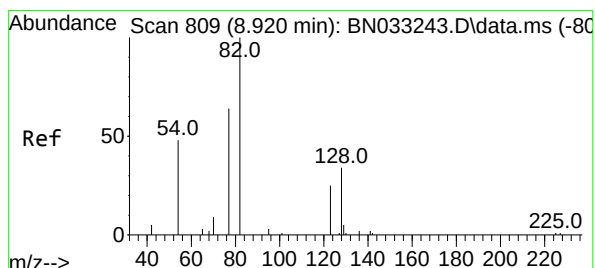
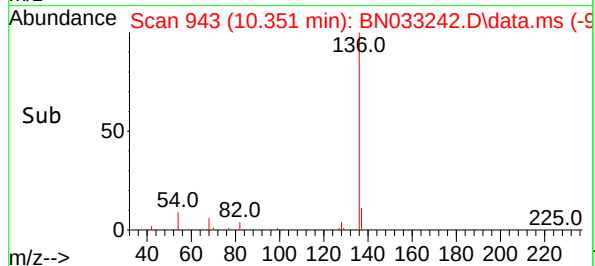
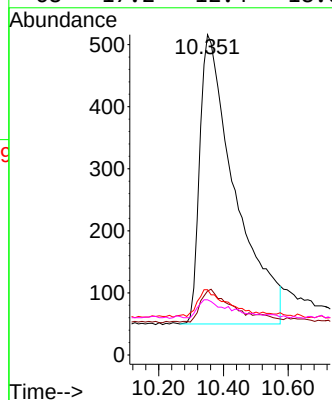
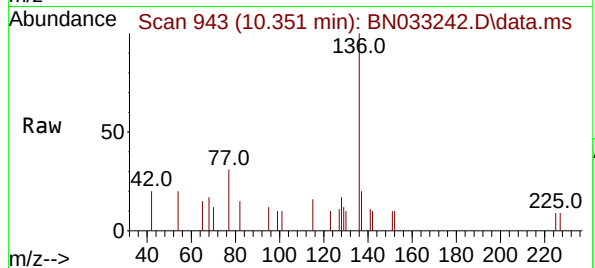
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 940
Delta R.T. 0.032 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:	136	Resp:	349
Ion	Ratio	Lower	Upper
136	100		
137	20.0	14.1	21.1
54	20.3	13.8	20.8
68	17.2	12.4	18.6

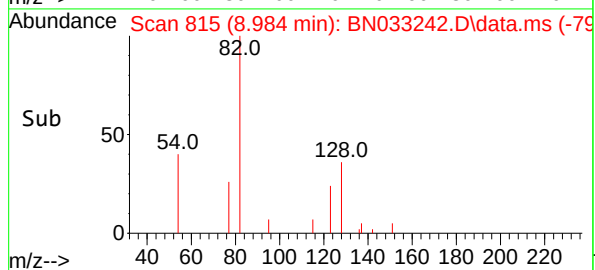
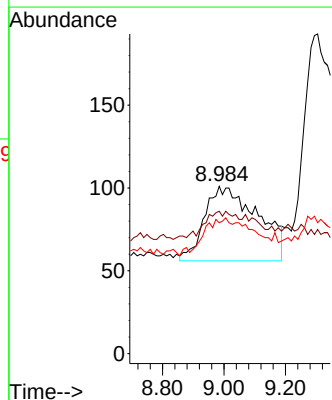
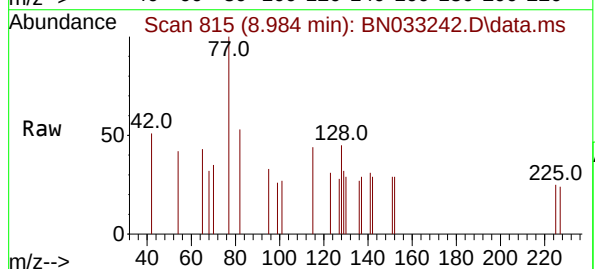
Manual Integrations
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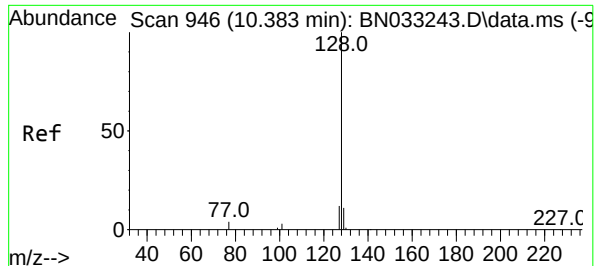
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.192 ng m
RT: 8.984 min Scan# 815
Delta R.T. 0.064 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion:	82	Resp:	544
Ion	Ratio	Lower	Upper
82	100		
128	85.1	54.8	82.2#
54	78.2	55.9	83.9





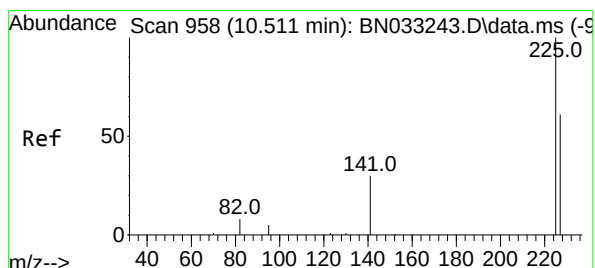
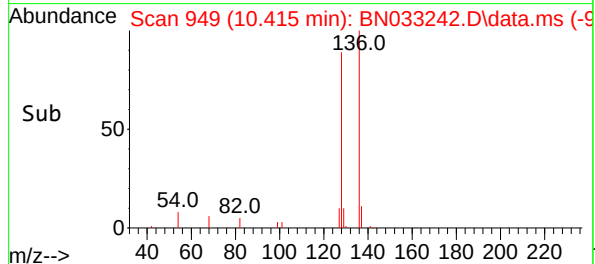
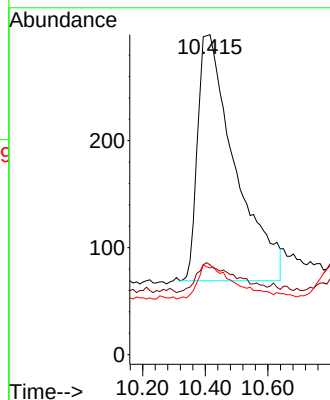
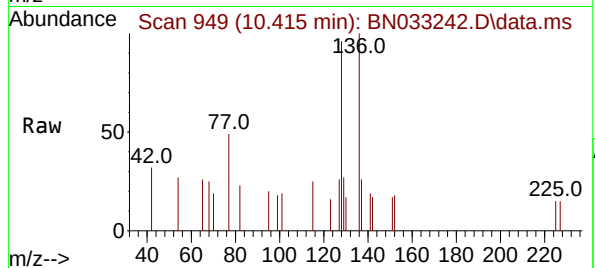
#9
Naphthalene
Concen: 0.201 ng
RT: 10.415 min Scan# 946
Delta R.T. 0.032 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 190
Ion Ratio Lower Upper
128 100
129 28.1 15.4 23.0
127 27.1 15.8 23.6

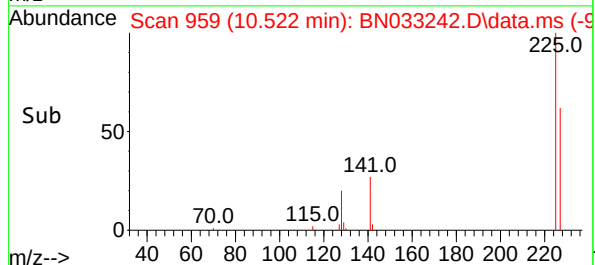
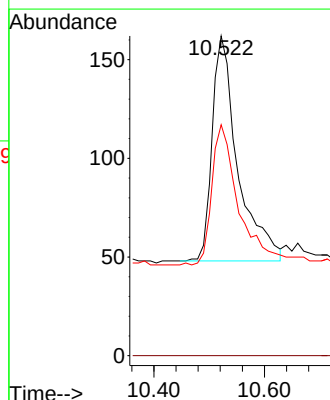
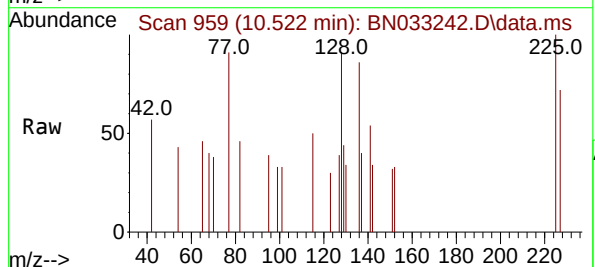
Manual Integrations
APPROVED

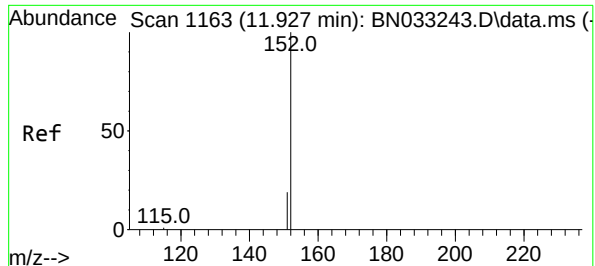
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.208 ng
RT: 10.522 min Scan# 959
Delta R.T. 0.011 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

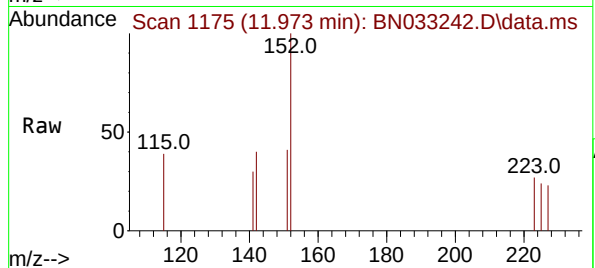
Tgt Ion:225 Resp: 367
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.185 ng m
RT: 11.973 min Scan# 1193
Delta R.T. 0.046 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

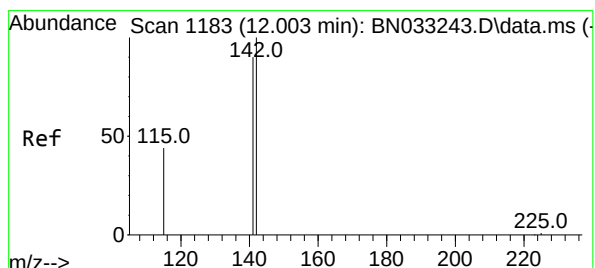
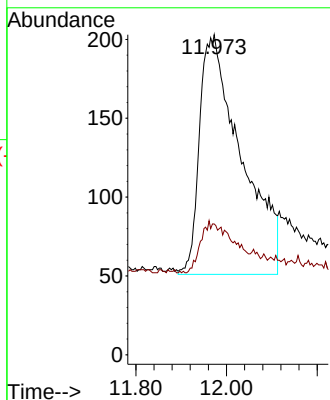
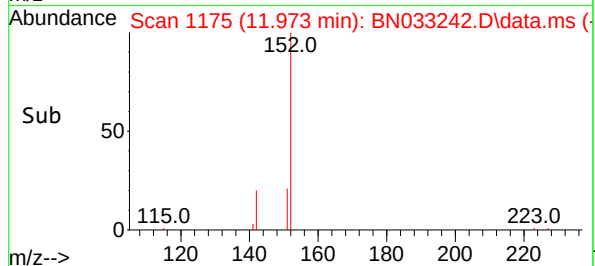
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 969
Ion Ratio Lower Upper
152 100
151 5.5 11.9 17.9

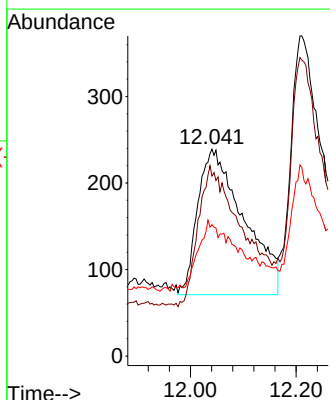
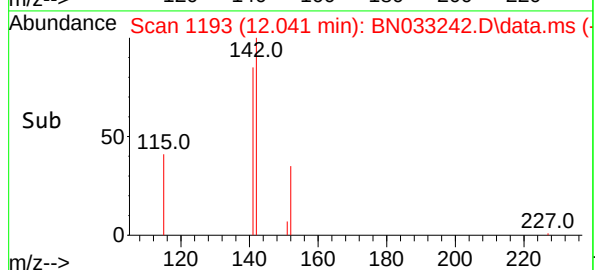
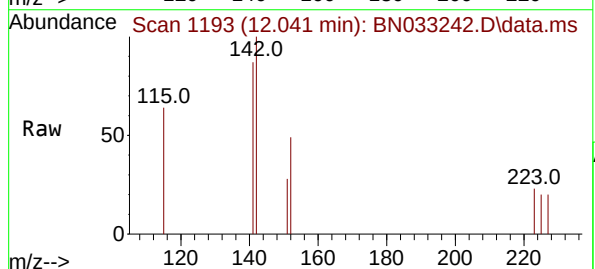
Manual Integrations
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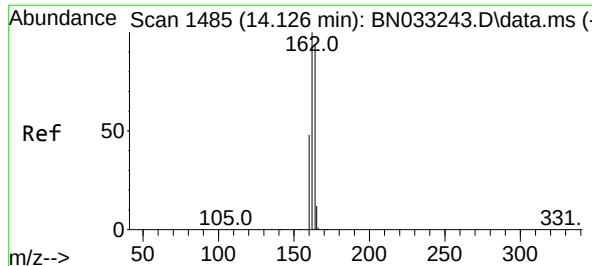
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.180 ng m
RT: 12.041 min Scan# 1193
Delta R.T. 0.038 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

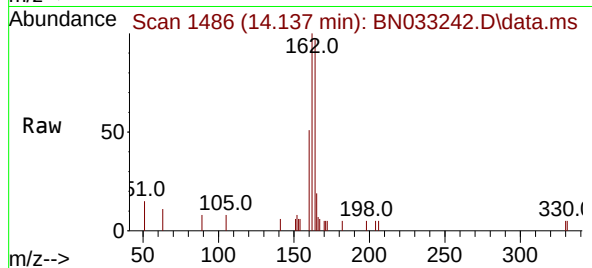
Tgt Ion:142 Resp: 1018
Ion Ratio Lower Upper
142 100
141 87.0 68.7 103.1
115 63.6 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.011 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

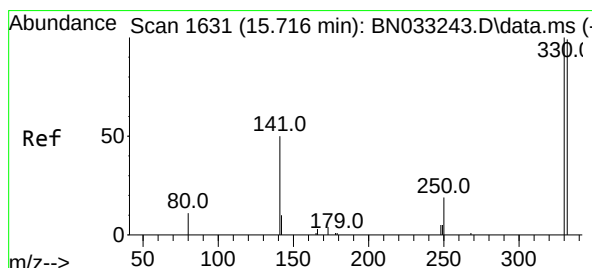
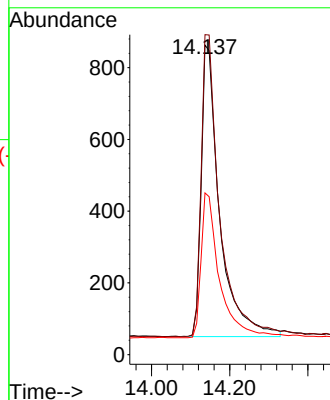
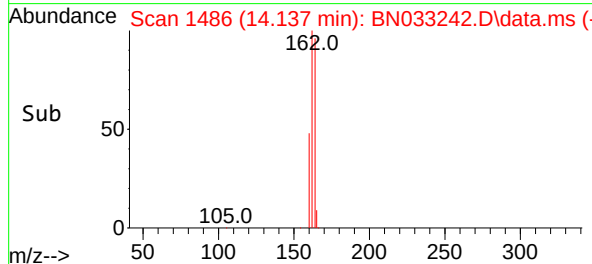
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:164 Resp: 267
Ion Ratio Lower Upper
164 100
162 103.4 84.6 127.0
160 52.3 42.4 63.6

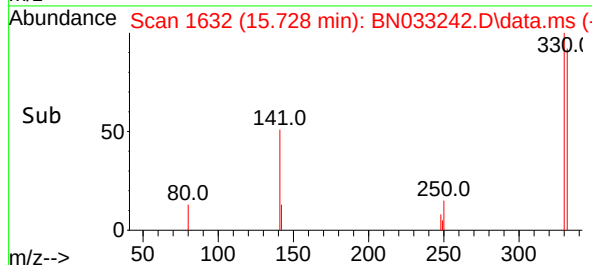
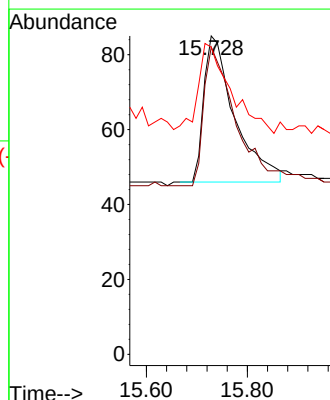
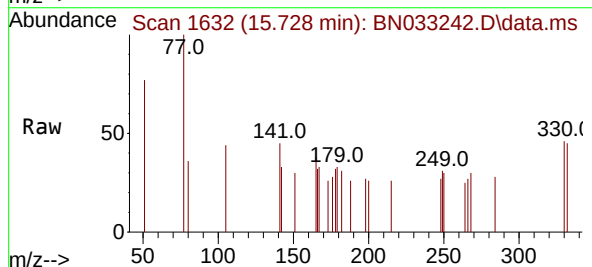
Manual Integrations
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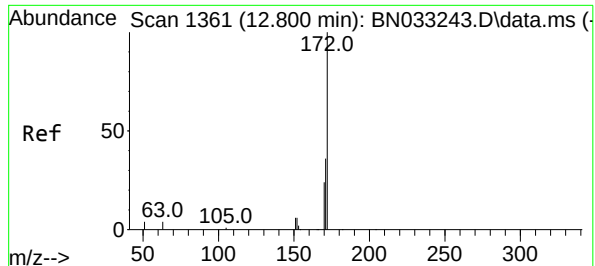
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#14
2,4,6-Tribromophenol
Concen: 0.167 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion:330 Resp: 166
Ion Ratio Lower Upper
330 100
332 100.0 73.7 110.5
141 65.1 44.8 67.2





#15

2-Fluorobiphenyl

Concen: 0.179 ng

RT: 12.832 min Scan# 11

Delta R.T. 0.032 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

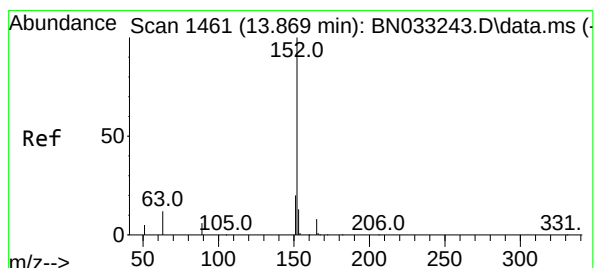
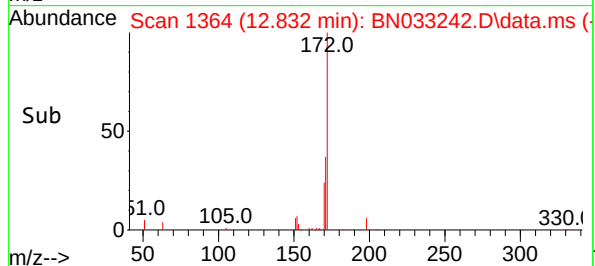
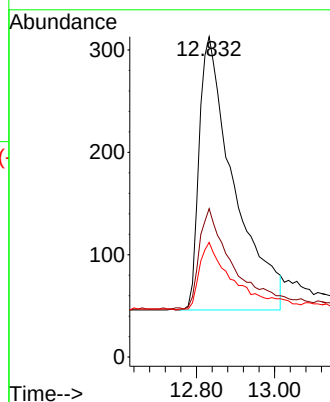
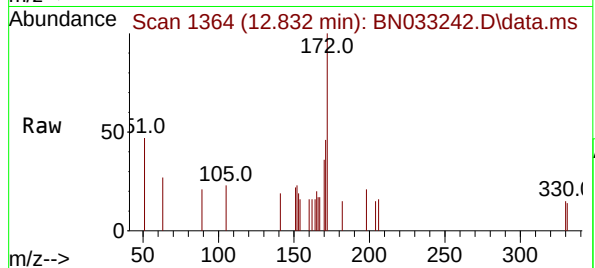
SSTDICC0.2

Tgt Ion:	172	Resp:	1640
Ion	Ratio	Lower	Upper
172	100		
171	46.3	32.3	48.5
170	35.8	23.4	35.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 0.175 ng

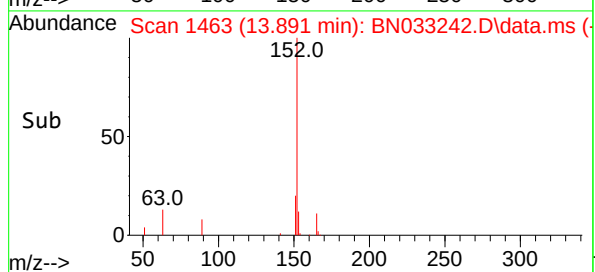
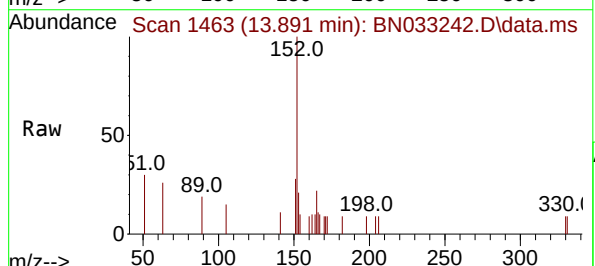
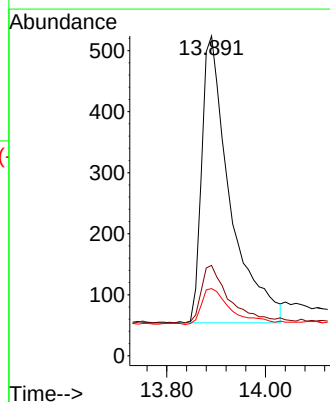
RT: 13.891 min Scan# 1463

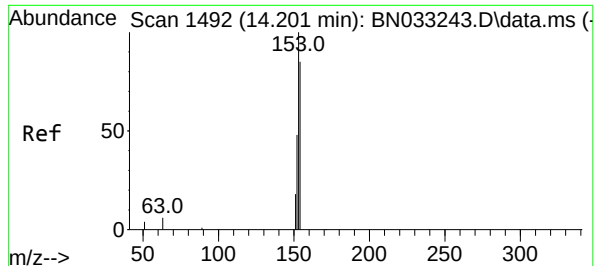
Delta R.T. 0.021 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

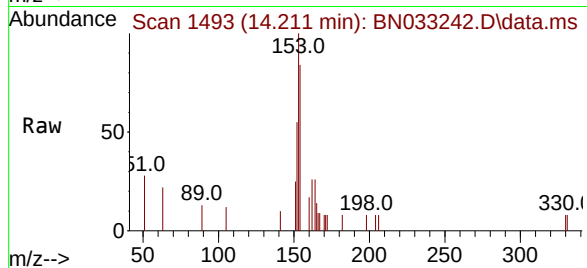
Tgt Ion:	152	Resp:	1862
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.6	10.2	15.2





#17
Acenaphthene
Concen: 0.183 ng
RT: 14.211 min Scan# 1493
Delta R.T. 0.010 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

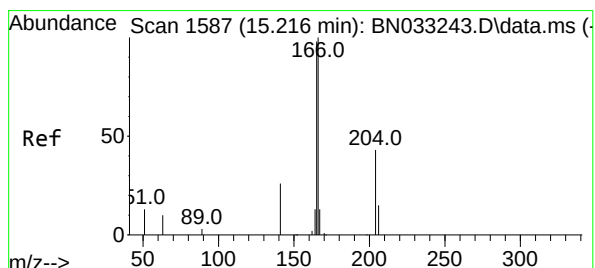
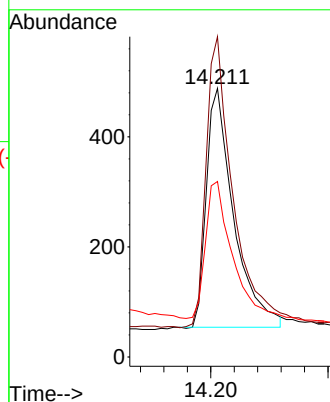
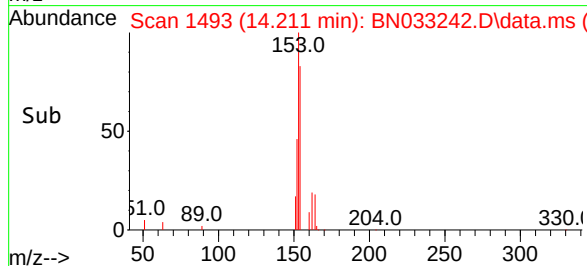
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 1400
Ion Ratio Lower Upper
154 100
153 120.7 92.7 139.1
152 55.5 44.0 66.0

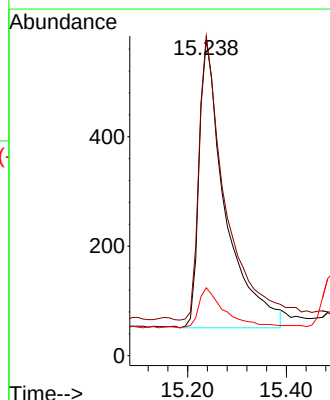
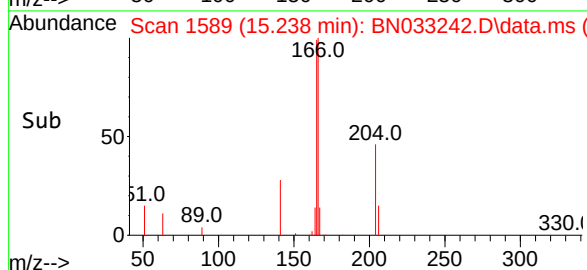
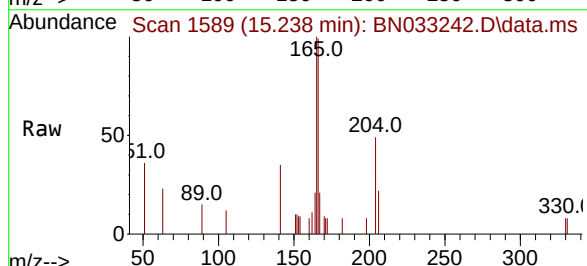
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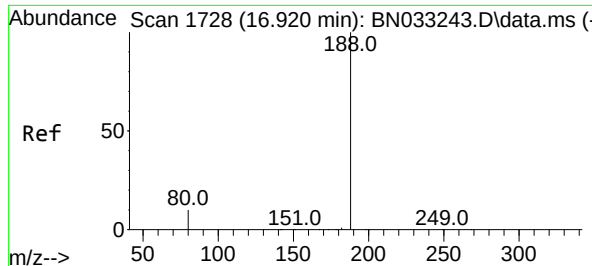
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.185 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.022 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion:166 Resp: 1927
Ion Ratio Lower Upper
166 100
165 98.2 79.6 119.4
167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.920 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

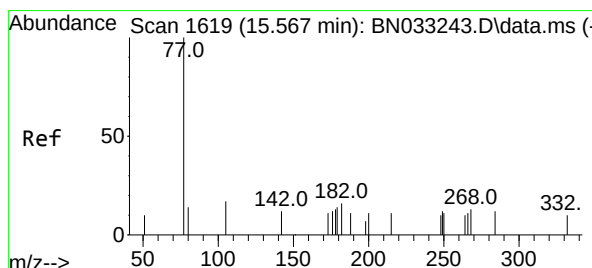
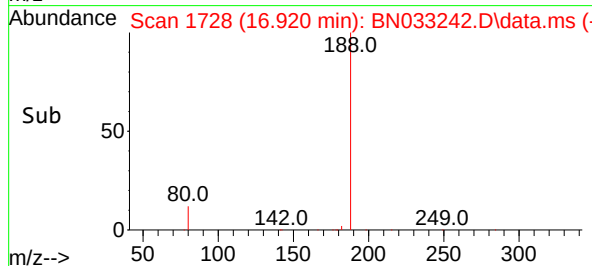
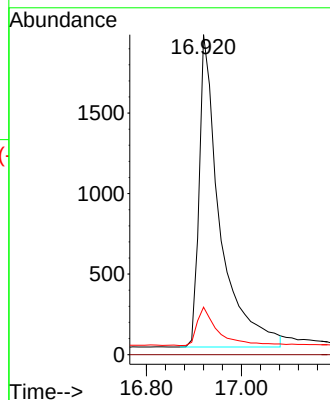
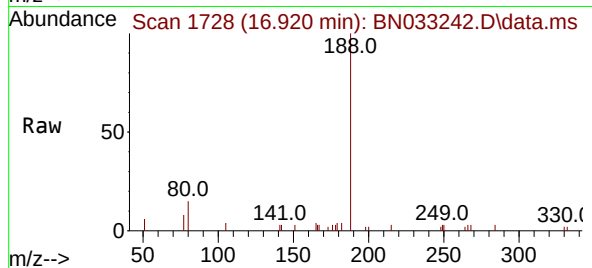
ClientSampleId :

SSTDICC0.2

Tgt Ion:	188	Resp:	588
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.8	10.2	15.4

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.309 ng

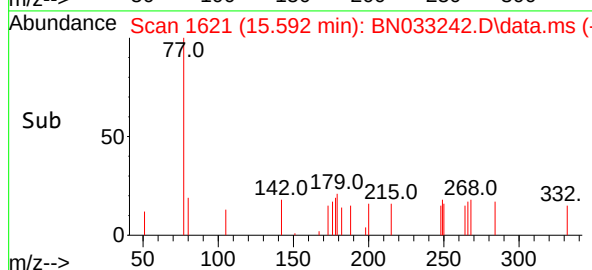
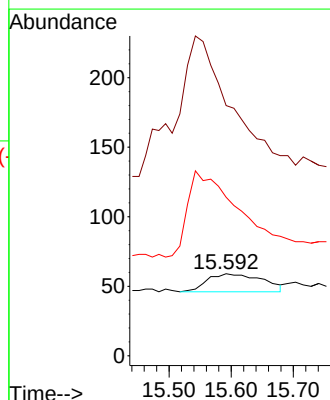
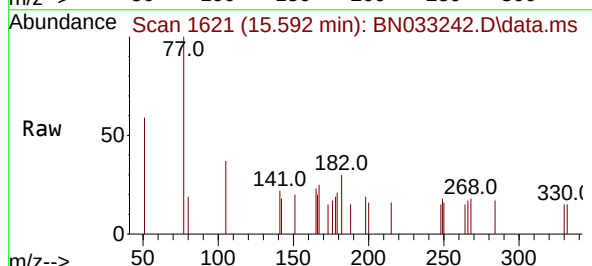
RT: 15.592 min Scan# 1621

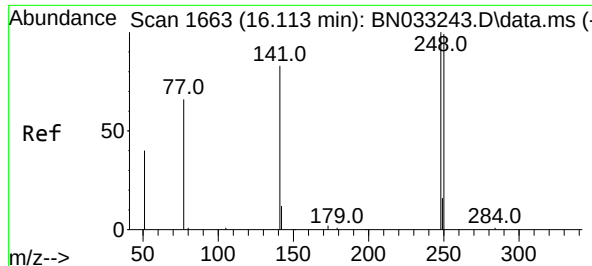
Delta R.T. 0.025 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Tgt Ion:	198	Resp:	80
Ion Ratio	Lower	Upper	
198	100		
51	305.1	250.6	375.8
105	193.2	152.6	229.0





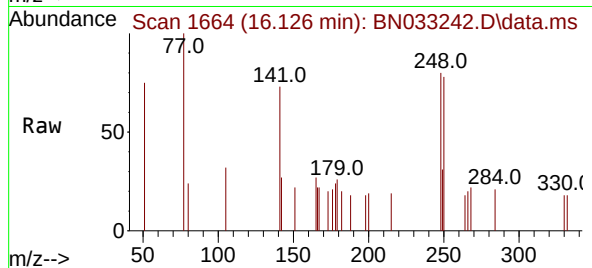
#21
4-Bromophenyl-phenylether
Concen: 0.196 ng
RT: 16.126 min Scan# 1664
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

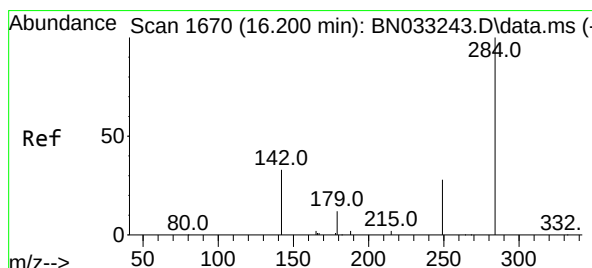
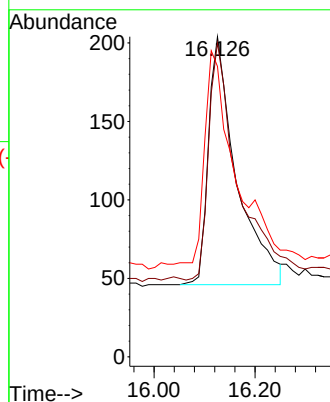
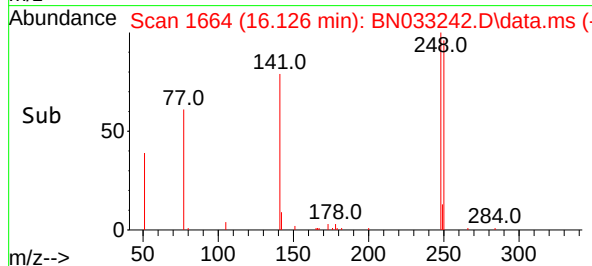


Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.0	80.0	120.0
141	90.7	71.0	106.6

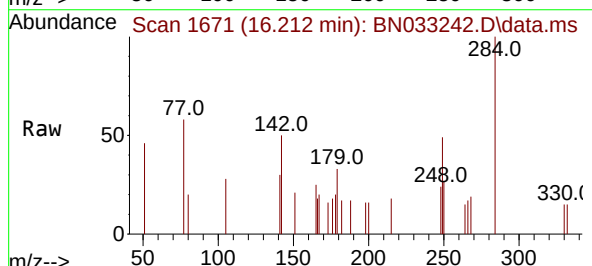
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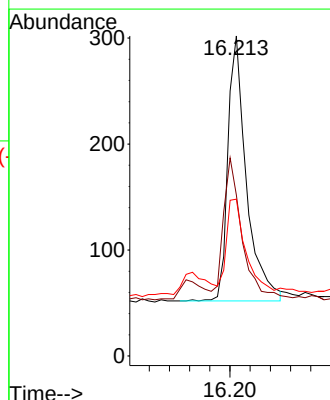
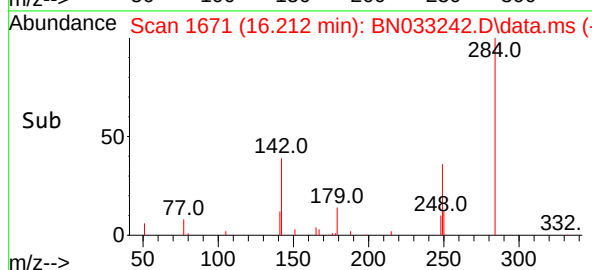
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

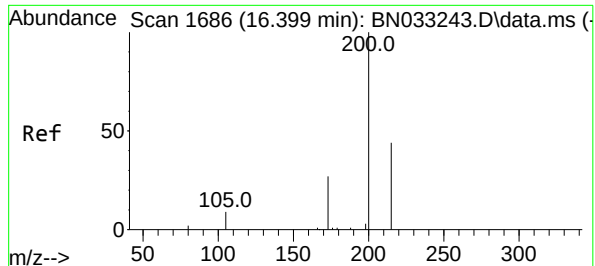


#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.212 min Scan# 1671
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16



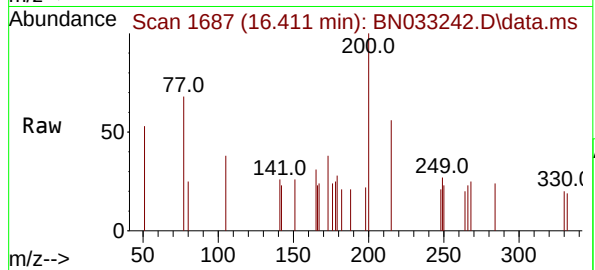
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.8	38.8	58.2
249	35.1	27.8	41.6





#23
Atrazine
Concen: 0.193 ng
RT: 16.411 min Scan# 1686
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

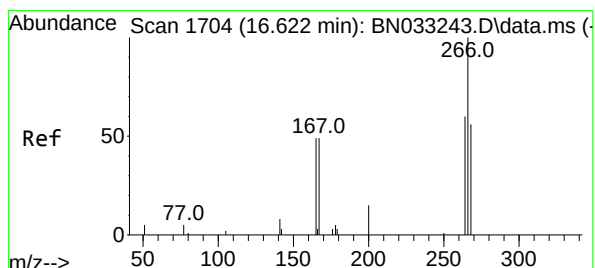
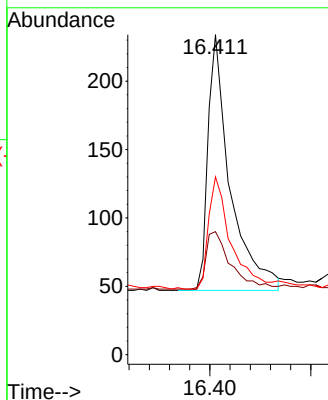
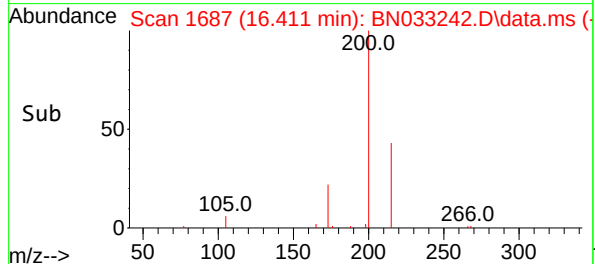
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 568
Ion Ratio Lower Upper
200 100
173 38.5 29.2 43.8
215 55.6 41.5 62.3

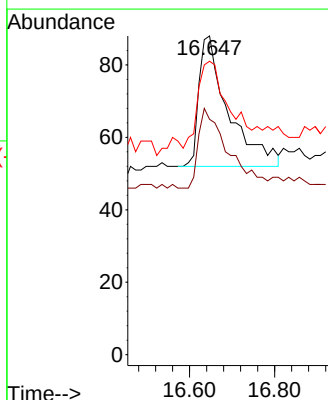
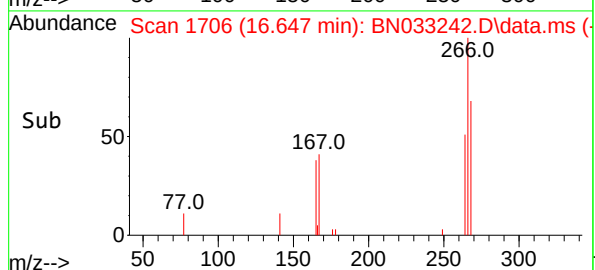
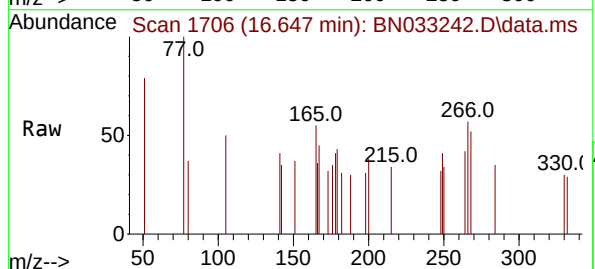
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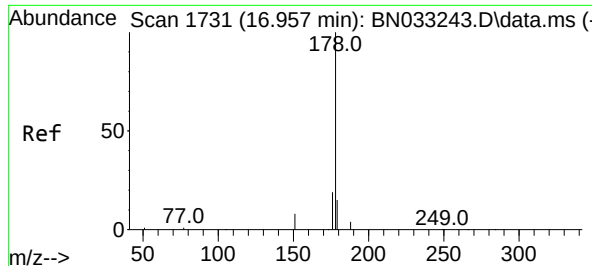
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.159 ng
RT: 16.647 min Scan# 1706
Delta R.T. 0.025 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

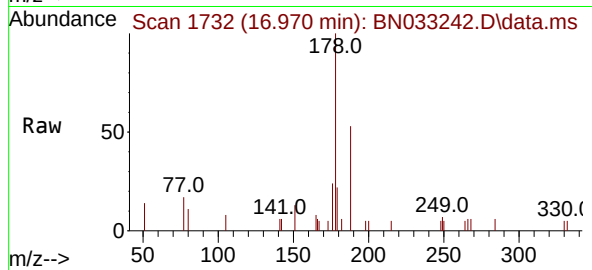
Tgt Ion:266 Resp: 173
Ion Ratio Lower Upper
266 100
264 61.3 49.3 73.9
268 69.4 50.2 75.2





#25
Phenanthrene
Concen: 0.187 ng
RT: 16.970 min Scan# 1731
Delta R.T. 0.013 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

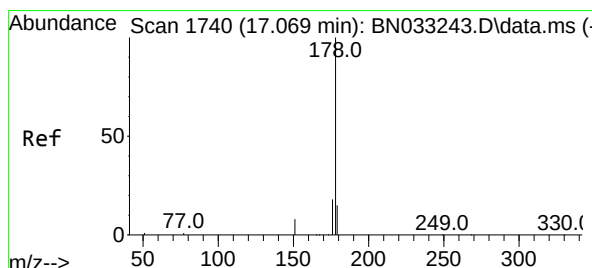
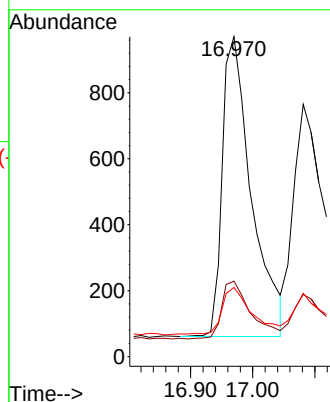
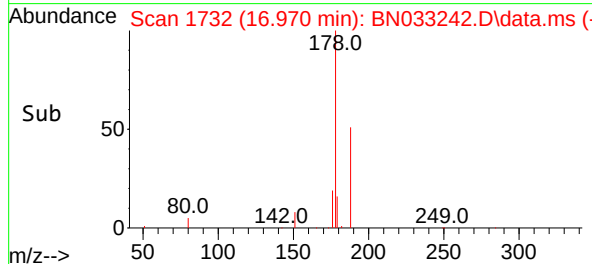
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 2950
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.6 12.4 18.6

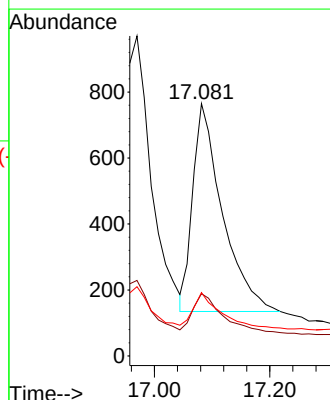
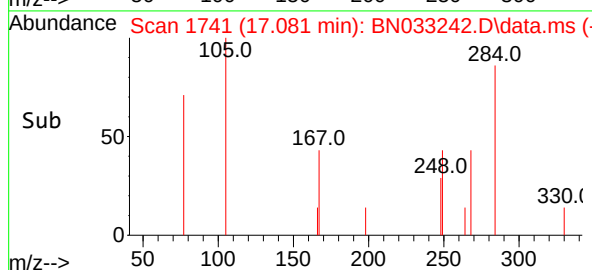
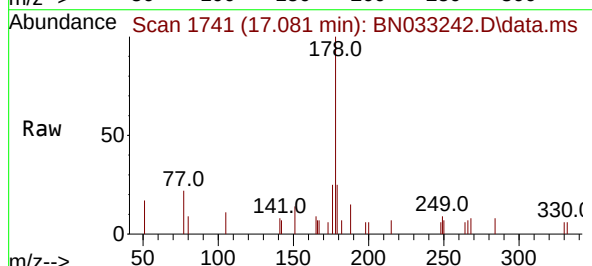
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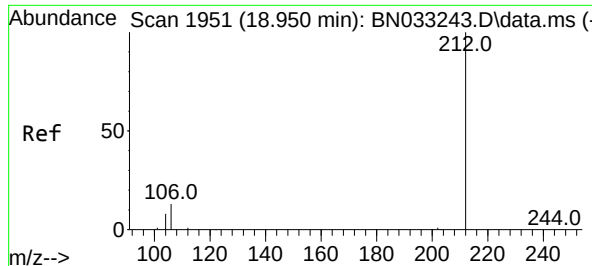
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.169 ng
RT: 17.081 min Scan# 1741
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Tgt Ion:178 Resp: 2249
Ion Ratio Lower Upper
178 100
176 18.6 10.5 15.7#
179 15.2 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.197 ng

RT: 18.955 min Scan# 1951

Delta R.T. 0.005 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

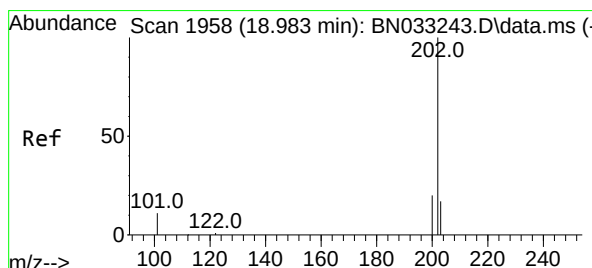
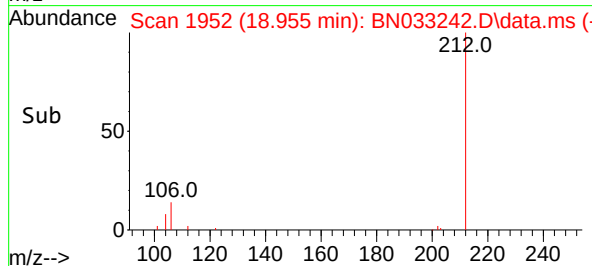
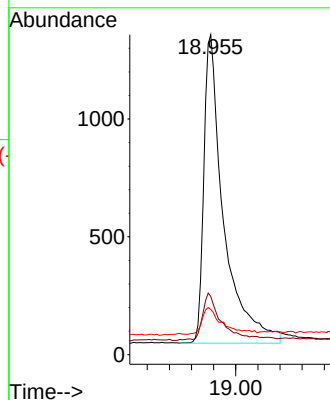
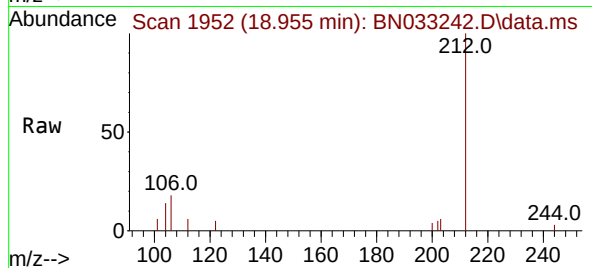
SSTDIC0.2

Tgt Ion:	212	Resp:	3250
Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.4	17.0
104	9.0	7.1	10.7

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.198 ng

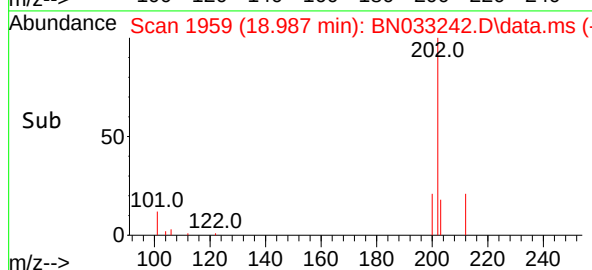
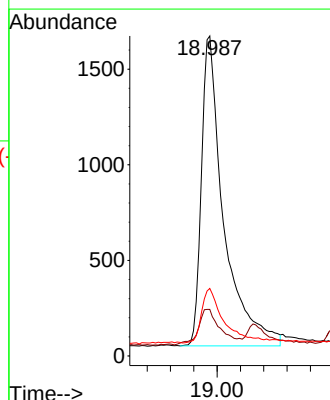
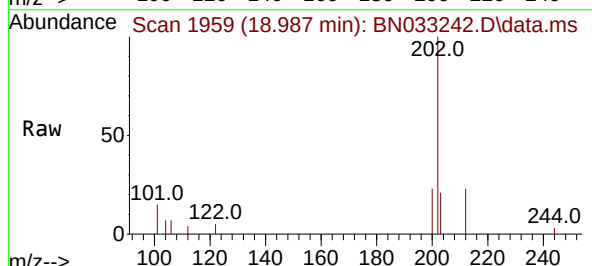
RT: 18.987 min Scan# 1959

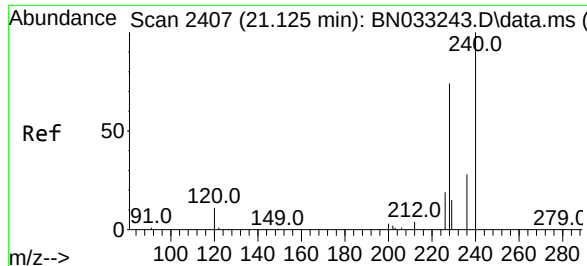
Delta R.T. 0.005 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Tgt Ion:	202	Resp:	4306
Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.6	13.0
203	17.6	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. 0.008 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

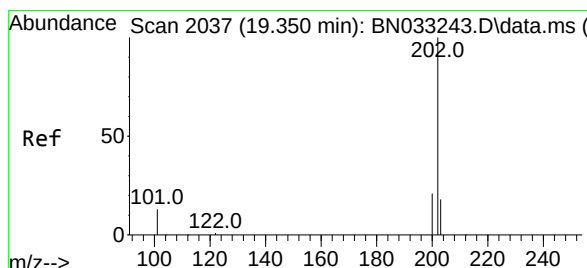
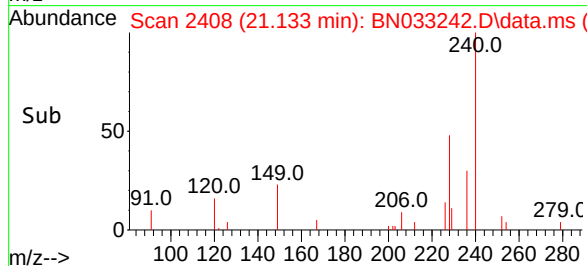
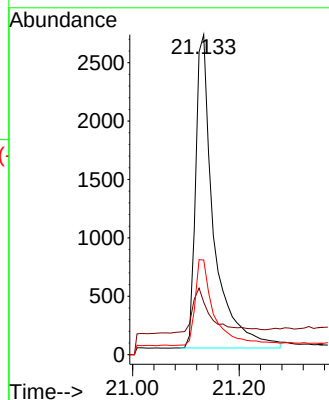
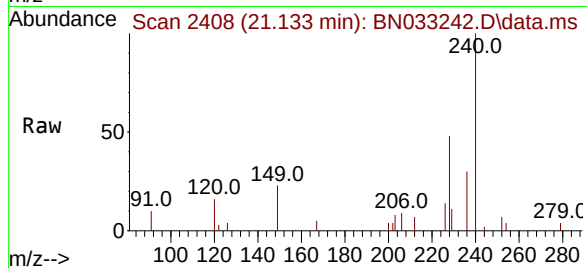
ClientSampleId :

SSTDICC0.2

Tgt Ion:	240	Resp:	633
Ion Ratio	Lower	Upper	
240	100		
120	16.4	13.3	19.9
236	29.6	23.8	35.6

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.209 ng

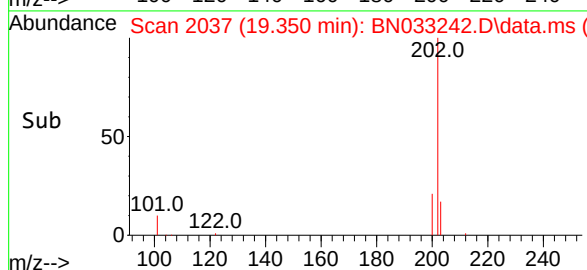
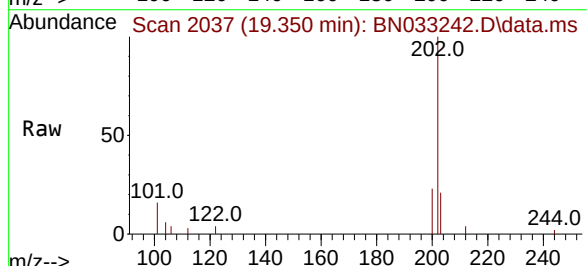
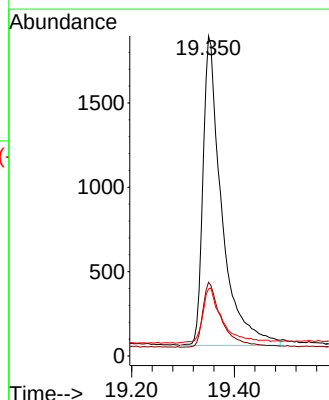
RT: 19.350 min Scan# 2037

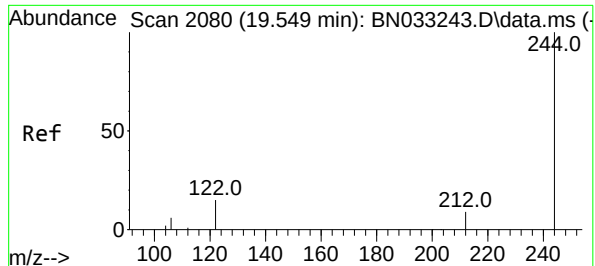
Delta R.T. -0.000 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Tgt Ion:	202	Resp:	4627
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	18.7	14.4	21.6





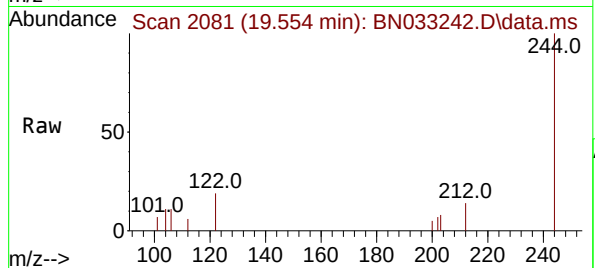
#31
Terphenyl-d14
Concen: 0.208 ng
RT: 19.554 min Scan# 2081
Delta R.T. 0.005 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

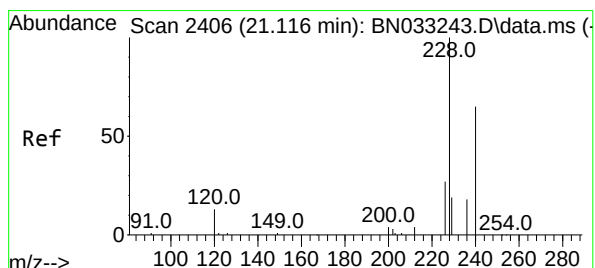
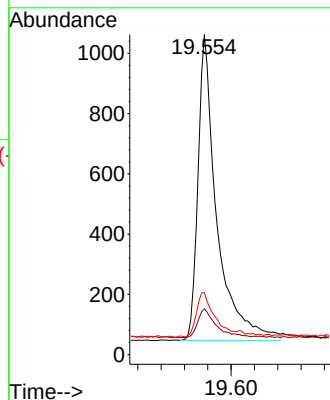
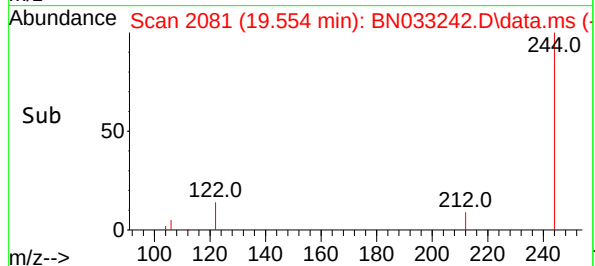


Tgt Ion:244 Resp: 227
Ion Ratio Lower Upper
244 100
212 14.3 9.9 14.9
122 19.4 14.1 21.1

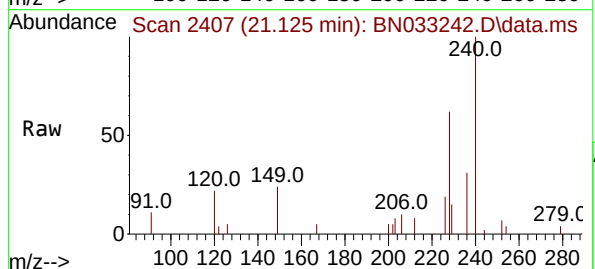
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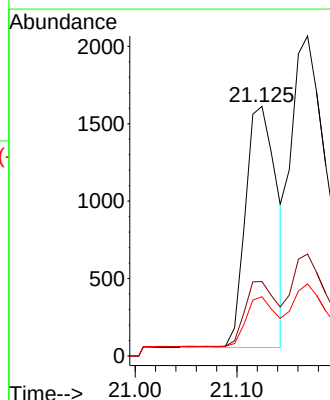
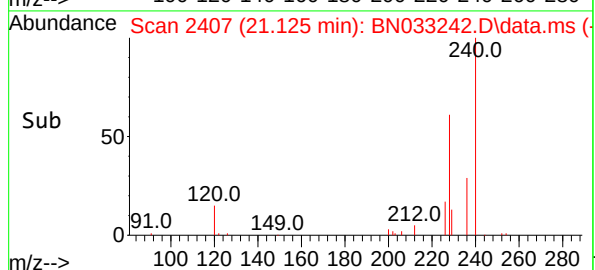
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

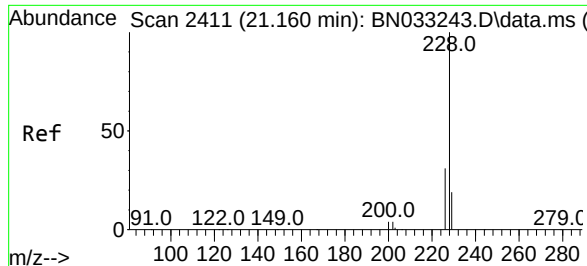


#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.009 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16



Tgt Ion:228 Resp: 3303
Ion Ratio Lower Upper
228 100
226 29.8 22.4 33.6
229 23.7 16.6 25.0





#33

Chrysene

Concen: 0.219 ng

RT: 21.169 min Scan# 2411

Delta R.T. 0.009 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

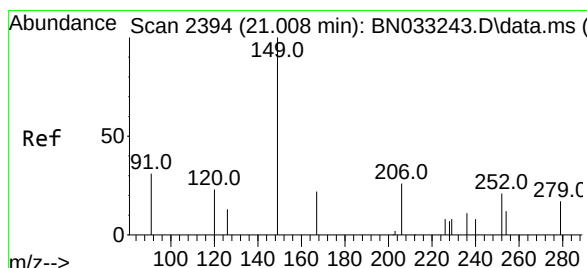
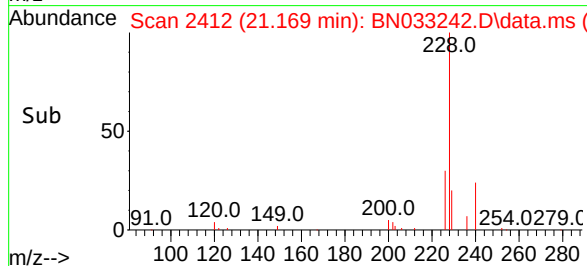
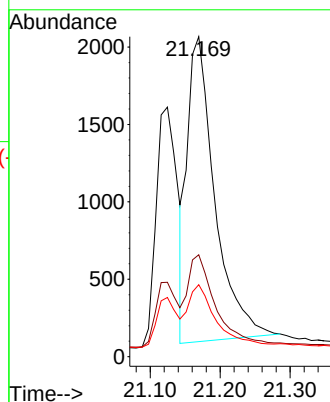
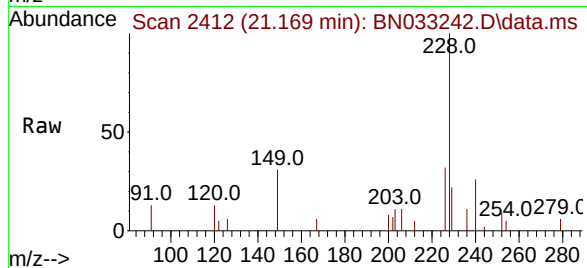
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.1	37.7
229	22.5	16.2	24.2

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.391 ng

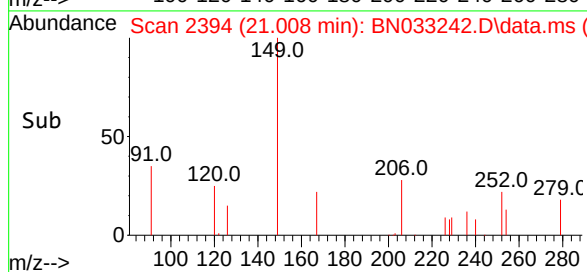
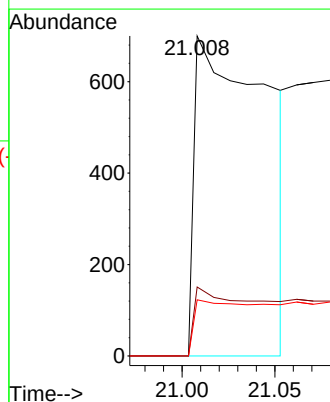
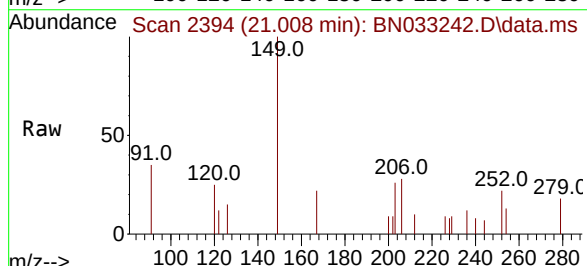
RT: 21.008 min Scan# 2394

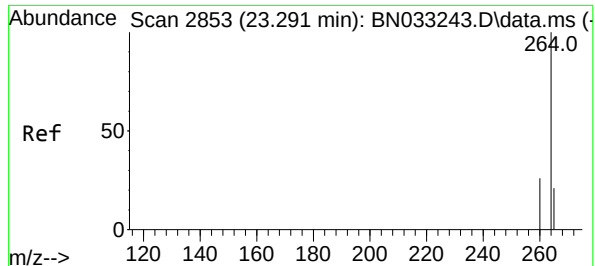
Delta R.T. -0.000 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Tgt Ion	Ratio	Lower	Upper
149	100		
167	13.2	19.8	29.6
279	11.7	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.294 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033242.D

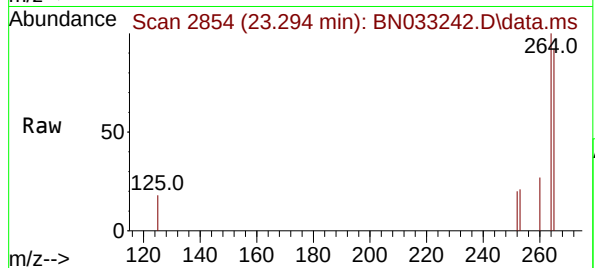
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



Tgt Ion:264 Resp: 8030

Ion Ratio Lower Upper

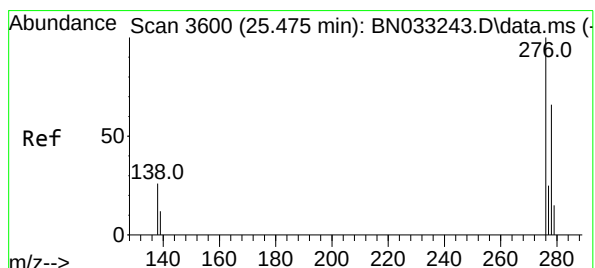
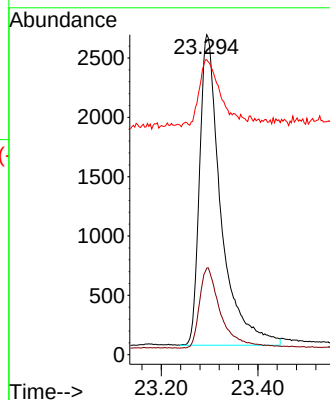
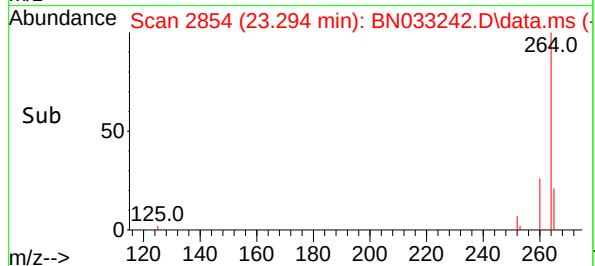
264 100

260 27.1 21.4 32.2

265 92.2 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 0.189 ng

RT: 25.496 min Scan# 3607

Delta R.T. 0.020 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

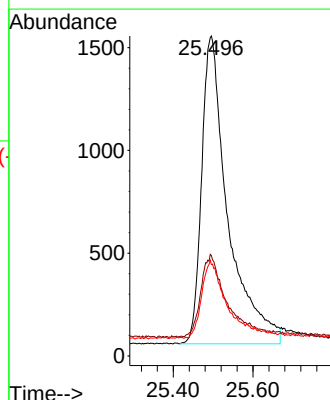
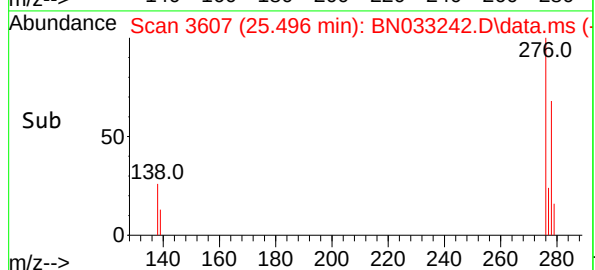
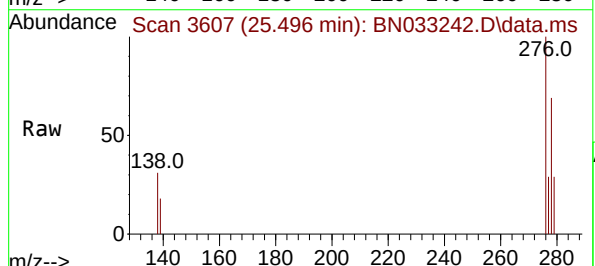
Tgt Ion:276 Resp: 6847

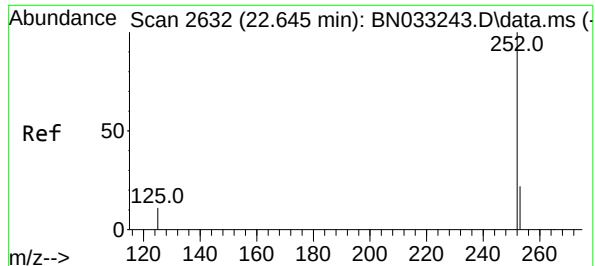
Ion Ratio Lower Upper

276 100

138 24.4 20.4 30.6

277 22.2 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 0.177 ng

RT: 22.651 min Scan# 2634

Delta R.T. 0.006 min

Lab File: BN033242.D

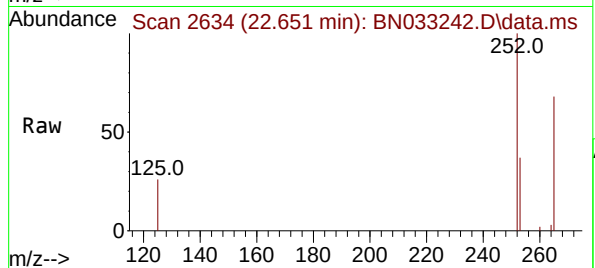
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:252 Resp: 4300

Ion Ratio Lower Upper

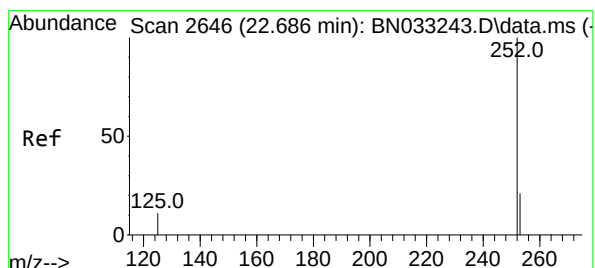
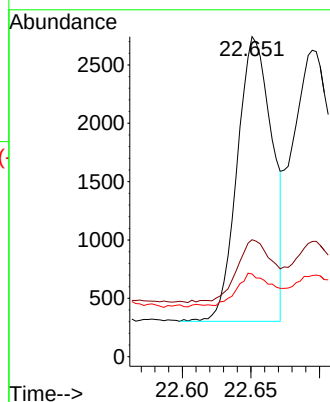
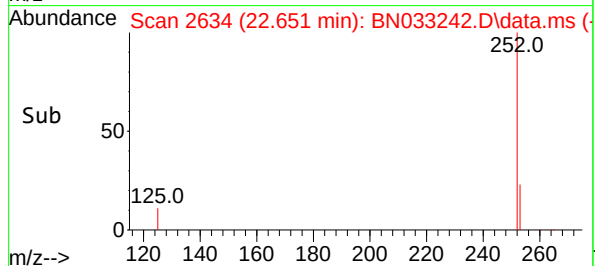
252 100

253 36.5 23.3 34.9

125 25.9 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#38

Benzo(k)fluoranthene

Concen: 0.194 ng m

RT: 22.695 min Scan# 2649

Delta R.T. 0.009 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

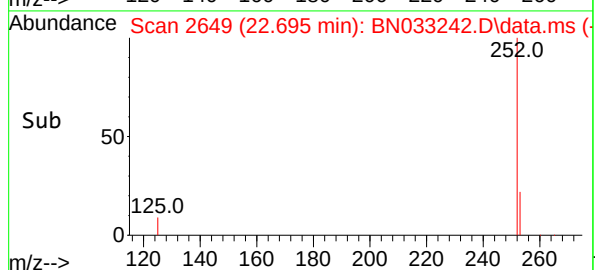
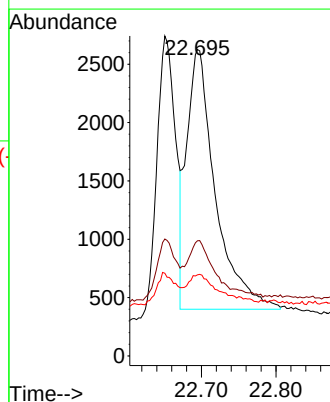
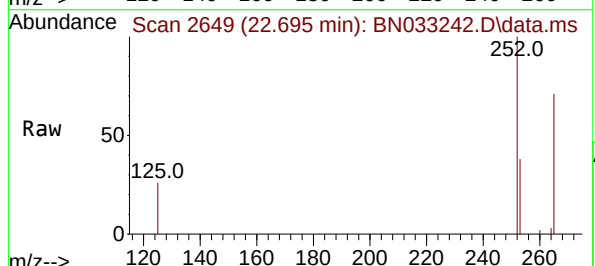
Tgt Ion:252 Resp: 5966

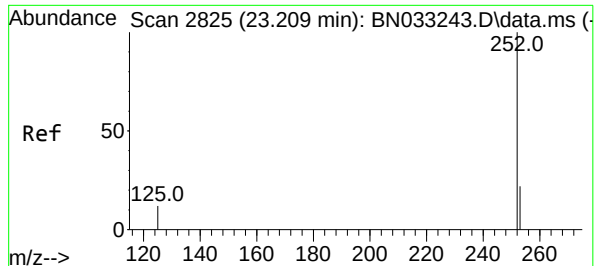
Ion Ratio Lower Upper

252 100

253 37.6 23.7 35.5

125 26.5 15.4 23.0





#39

Benzo(a)pyrene

Concen: 0.189 ng

RT: 23.218 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

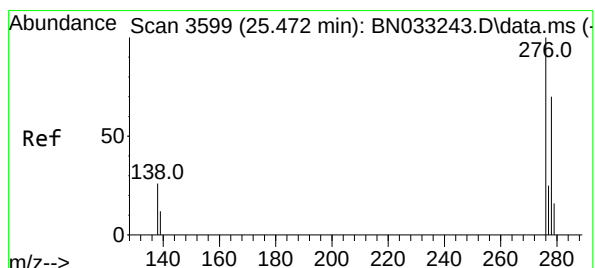
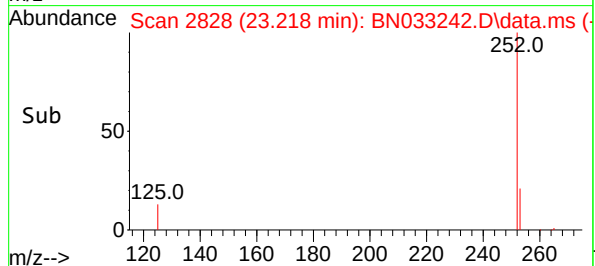
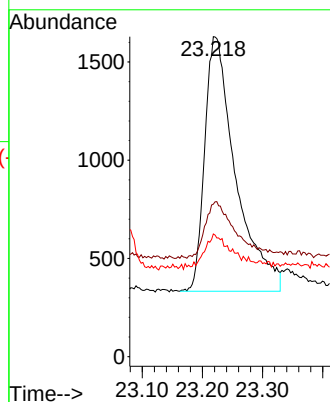
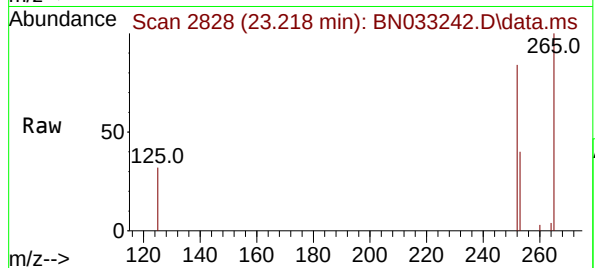
SSTDICC0.2

Tgt Ion:	252	Resp:	4630
Ion Ratio	Lower	Upper	
252	100		
253	47.6	28.4	42.6
125	38.4	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.187 ng

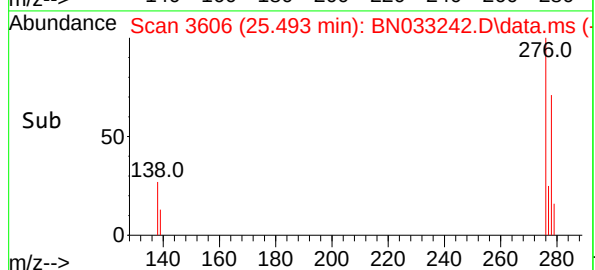
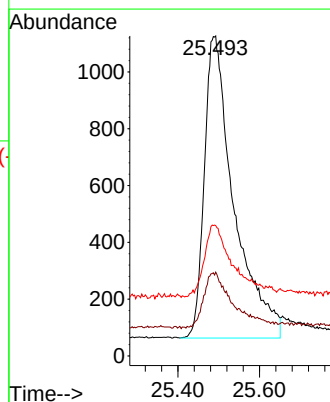
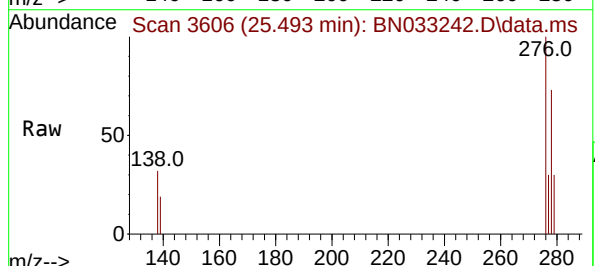
RT: 25.493 min Scan# 3606

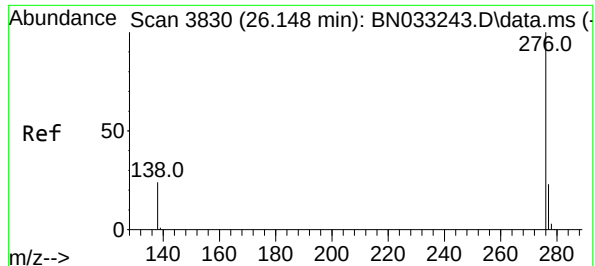
Delta R.T. 0.021 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

Tgt Ion:	278	Resp:	5356
Ion Ratio	Lower	Upper	
278	100		
139	26.2	16.7	25.1
279	40.7	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.193 ng

RT: 26.162 min Scan# 3835

Delta R.T. 0.015 min

Lab File: BN033242.D

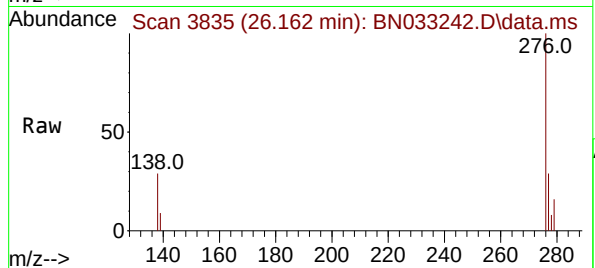
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6344

Ion Ratio Lower Upper

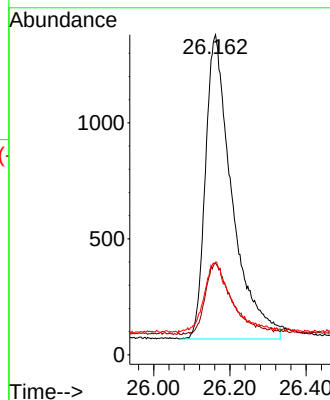
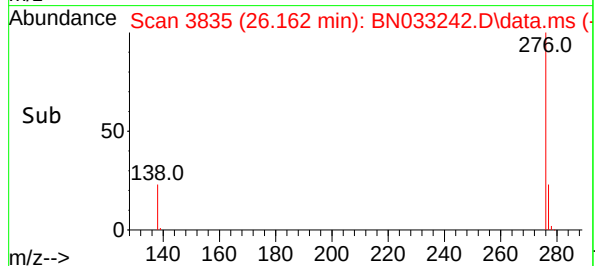
276 100

277 28.7 21.0 31.4

138 29.0 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033243.D
 Acq On : 05 Aug 2024 19:53
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:41:26 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	966	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	3640	0.400	ng	0.00
13) Acenaphthene-d10	14.126	164	2509	0.400	ng	0.00
19) Phenanthrene-d10	16.920	188	5788	0.400	ng	0.00
29) Chrysene-d12	21.125	240	6783	0.400	ng	0.00
35) Perylene-d12	23.291	264	8596	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.293	112	1062m	0.441	ng	0.00
5) Phenol-d6	6.990	99	1372m	0.419	ng	0.00
8) Nitrobenzene-d5	8.920	82	992	0.336	ng	0.00
11) 2-Methylnaphthalene-d10	11.927	152	2115	0.388	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	331	0.355	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	3246	0.377	ng	0.00
27) Fluoranthene-d10	18.950	212	6133	0.379	ng	0.00
31) Terphenyl-d14	19.549	244	4239	0.362	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.047	88	588	0.313	ng	89
3) n-Nitrosodimethylamine	3.458	42	410	0.348	ng	# 95
6) bis(2-Chloroethyl)ether	7.055	93	1156	0.391	ng	# 8
9) Naphthalene	10.383	128	3821	0.386	ng	100
10) Hexachlorobutadiene	10.511	225	730	0.397	ng	# 100
12) 2-Methylnaphthalene	12.003	142	2019	0.343	ng	100
16) Acenaphthylene	13.869	152	3697	0.369	ng	100
17) Acenaphthene	14.201	154	2812	0.389	ng	100
18) Fluorene	15.216	166	3687	0.377	ng	99
20) 4,6-Dinitro-2-methylph...	15.567	198	201	0.420	ng	100
21) 4-Bromophenyl-phenylether	16.113	248	1171	0.381	ng	100
22) Hexachlorobenzene	16.200	284	1211	0.378	ng	100
23) Atrazine	16.399	200	1052	0.364	ng	100
24) Pentachlorophenol	16.622	266	387	0.361	ng	99
25) Phenanthrene	16.957	178	5625	0.361	ng	100
26) Anthracene	17.069	178	4684	0.359	ng	# 87
28) Fluoranthene	18.983	202	7997	0.374	ng	100
30) Pyrene	19.350	202	8471	0.357	ng	100
32) Benzo(a)anthracene	21.116	228	7186	0.368	ng	100
33) Chrysene	21.160	228	9651	0.368	ng	100
34) Bis(2-ethylhexyl)phtha...	21.008	149	1425	0.304	ng	100
36) Indeno(1,2,3-cd)pyrene	25.475	276	14171	0.365	ng	100
37) Benzo(b)fluoranthene	22.645	252	9159	0.351	ng	100
38) Benzo(k)fluoranthene	22.686	252	11637	0.354	ng	100
39) Benzo(a)pyrene	23.209	252	9287	0.355	ng	100
40) Dibenzo(a,h)anthracene	25.472	278	11210	0.365	ng	100
41) Benzo(g,h,i)perylene	26.148	276	13202	0.375	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033243.D
 Acq On : 05 Aug 2024 19:53
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Quant Time: Aug 05 23:41:26 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

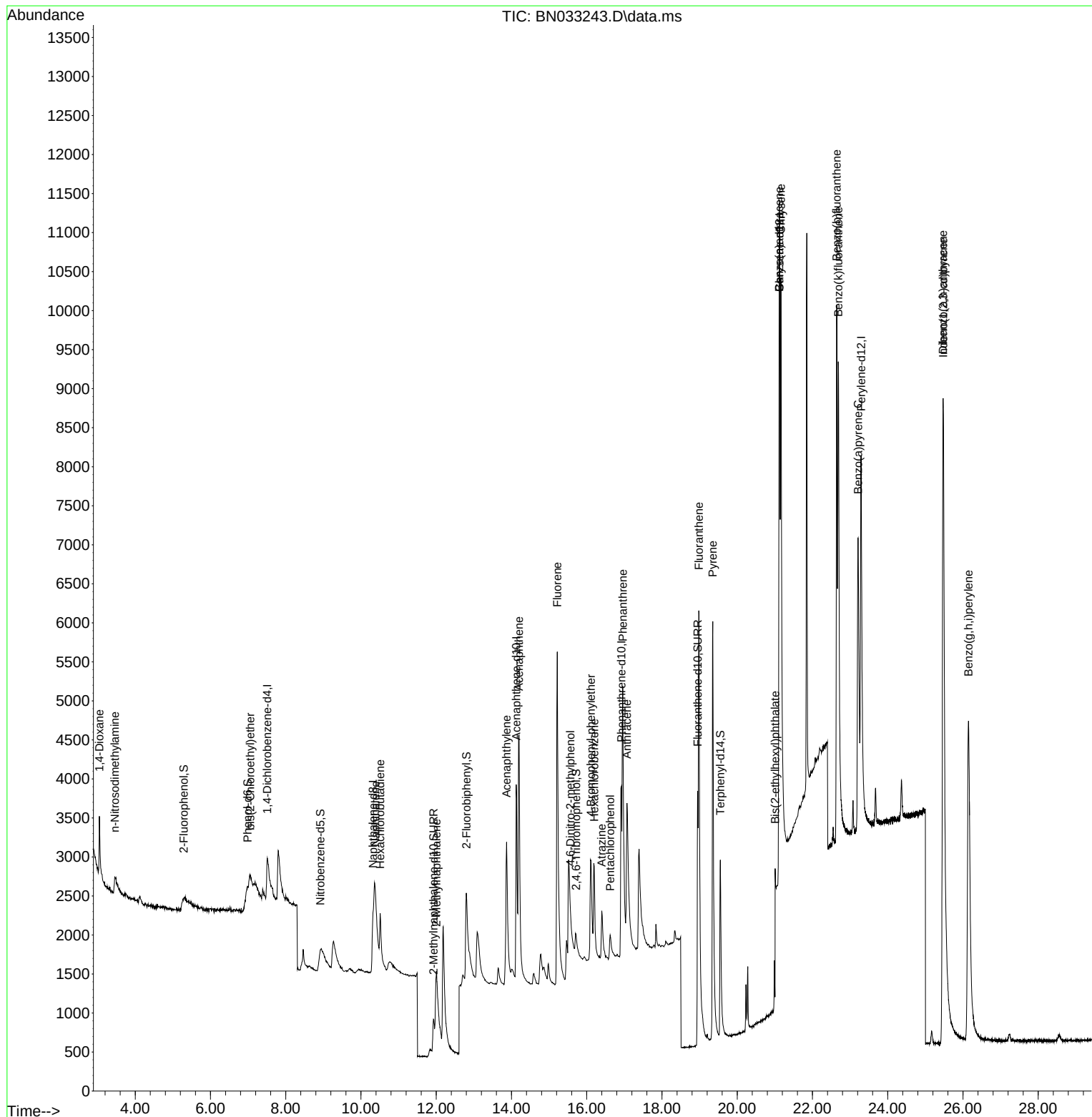
QLast Update : Mon Aug 05 23:33:19 2024

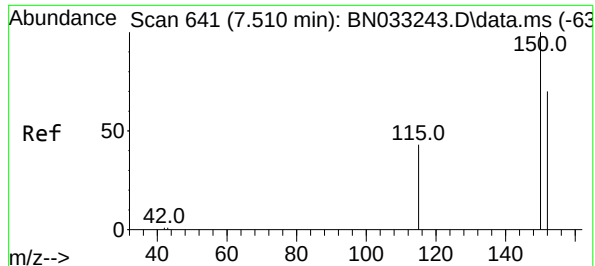
Response via : Initial Calibration

Manual Integrations

APPROVED

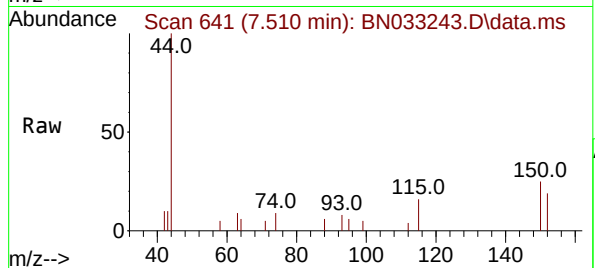
Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.510 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

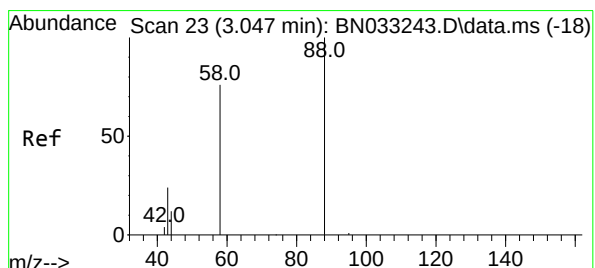
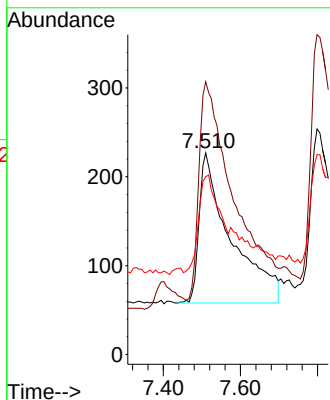
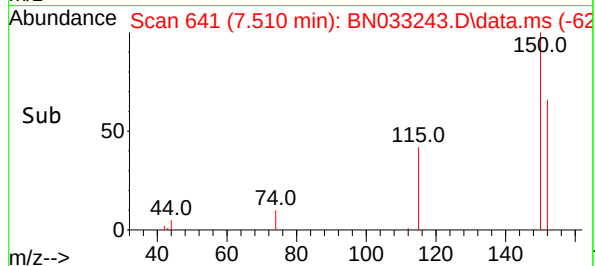
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 960
Ion Ratio Lower Upper
152 100
150 135.2 108.2 162.2
115 88.1 70.5 105.7

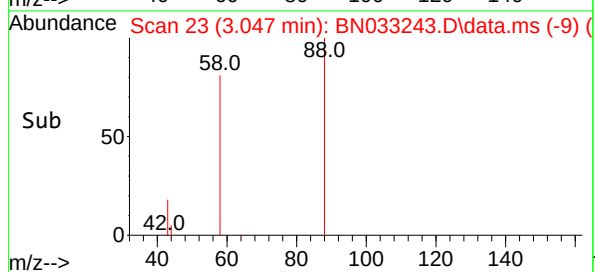
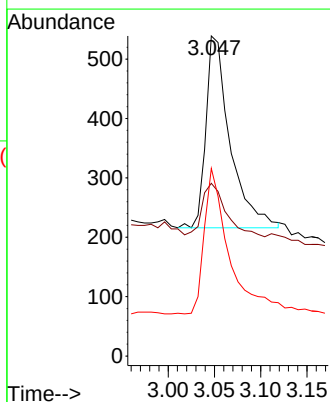
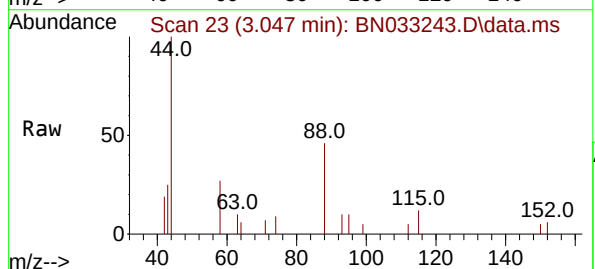
Manual Integrations
APPROVED

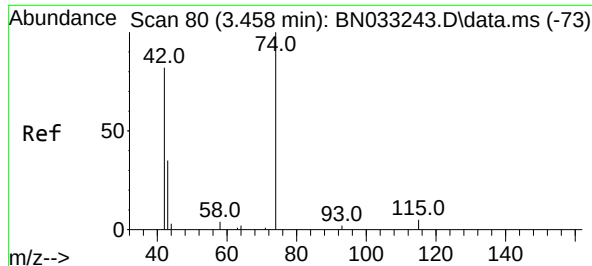
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.313 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion: 88 Resp: 588
Ion Ratio Lower Upper
88 100
43 27.6 18.6 28.0
58 77.6 54.5 81.7





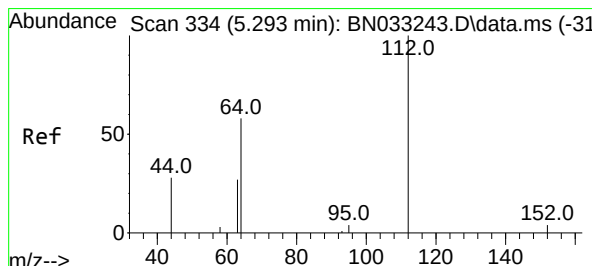
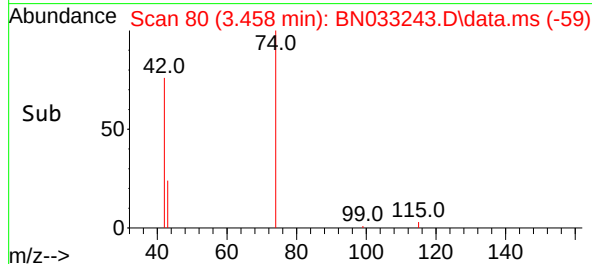
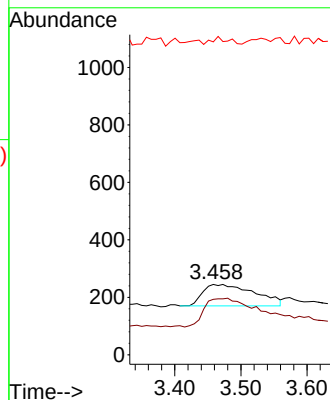
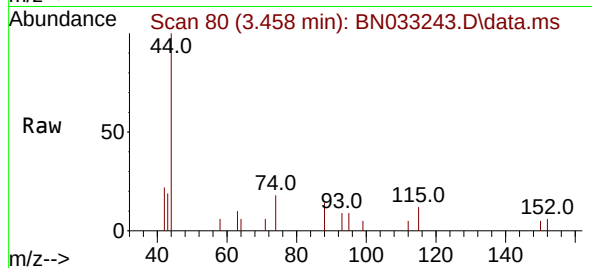
#3
n-Nitrosodimethylamine
Concen: 0.348 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 410
Ion Ratio Lower Upper
42 100
74 0.0 0.0 0.0
44 10.2 9.6 14.4

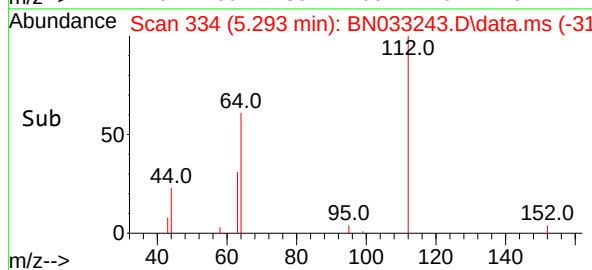
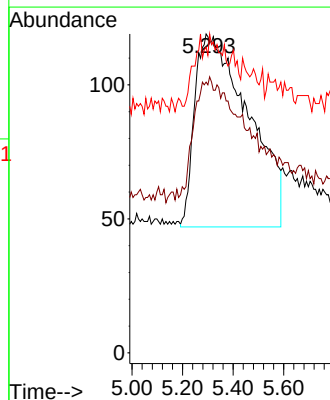
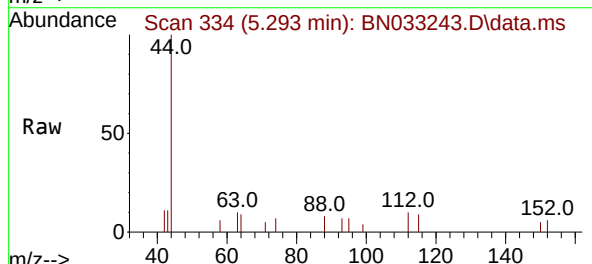
Manual Integrations
APPROVED

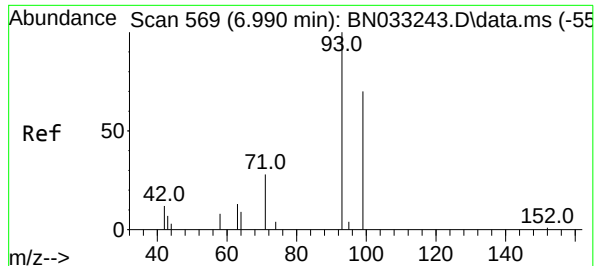
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.441 ng m
RT: 5.293 min Scan# 334
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:112 Resp: 1062
Ion Ratio Lower Upper
112 100
64 24.3 18.0 27.0
63 0.0 0.0 0.0





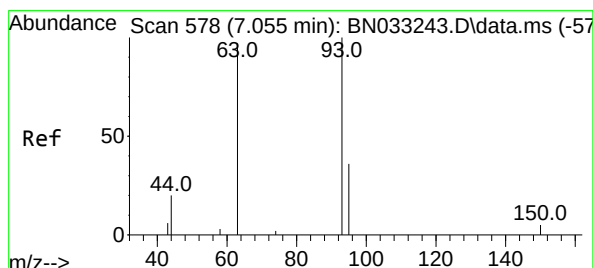
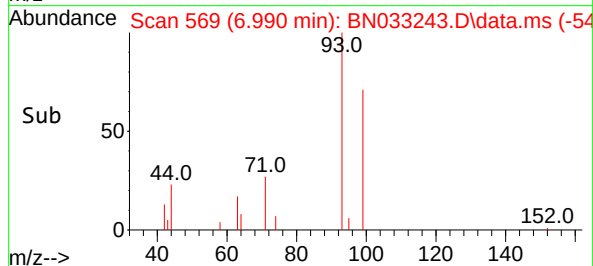
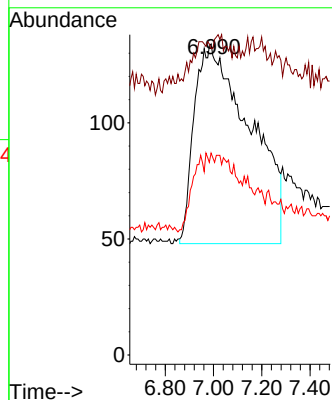
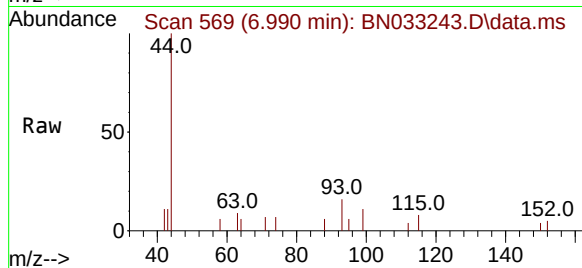
#5
Phenol-d6
Concen: 0.419 ng m
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 137
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 0.0 0.0 0.0

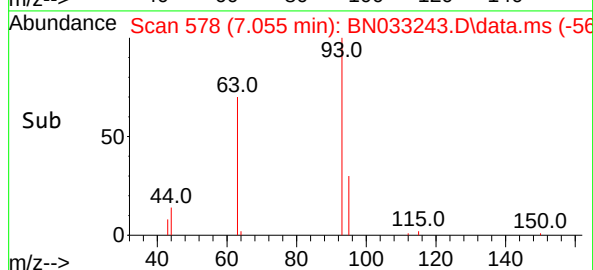
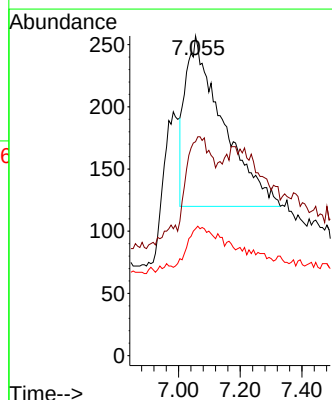
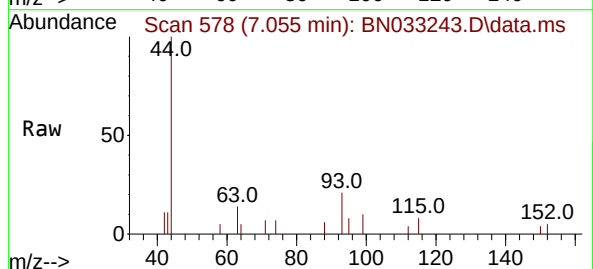
Manual Integrations
APPROVED

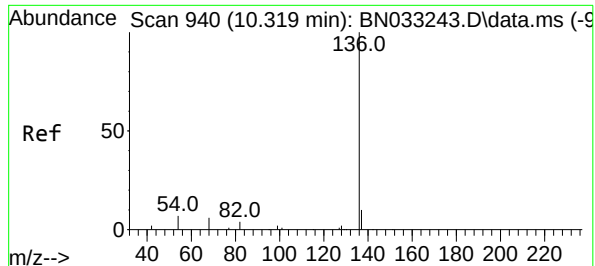
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion: 93 Resp: 1156
Ion Ratio Lower Upper
93 100
63 37.0 1.1 1.7#
95 15.4 0.0 0.0#





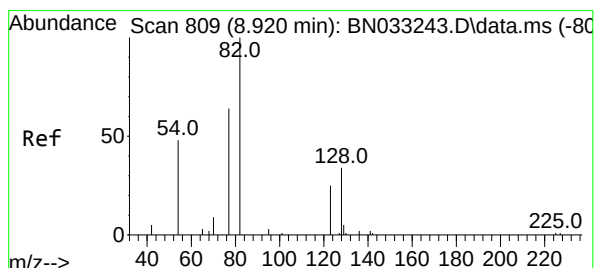
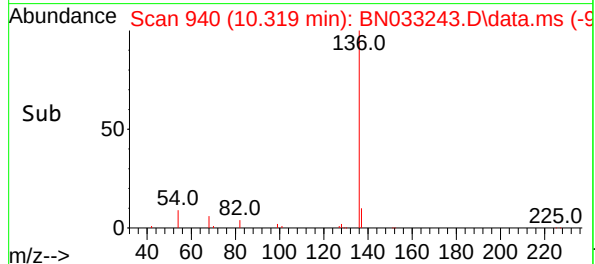
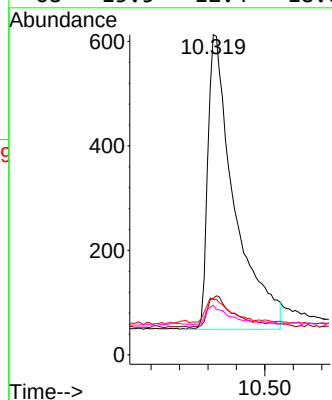
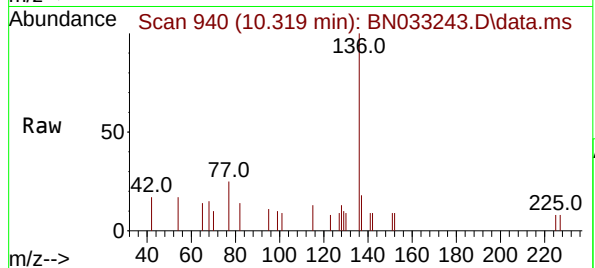
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:	136	Resp:	3640
Ion	Ratio	Lower	Upper
136	100		
137	17.6	14.1	21.1
54	17.3	13.8	20.8
68	15.5	12.4	18.6

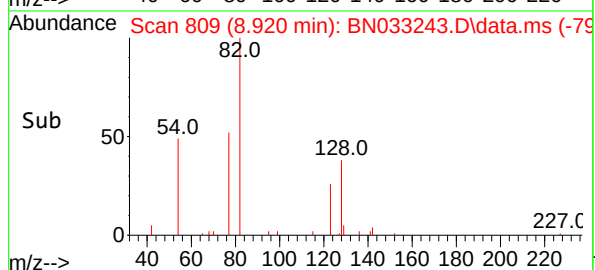
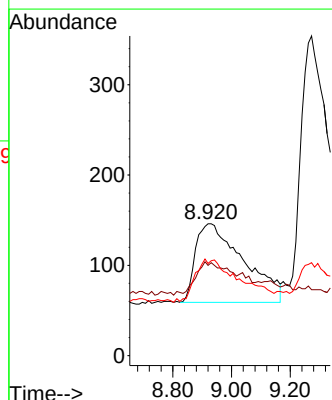
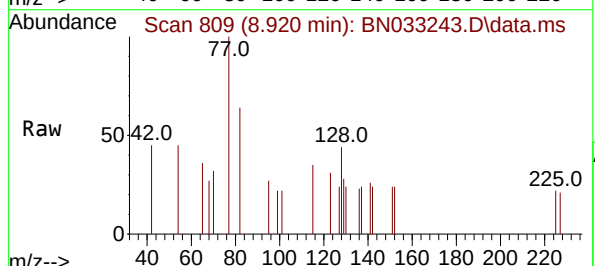
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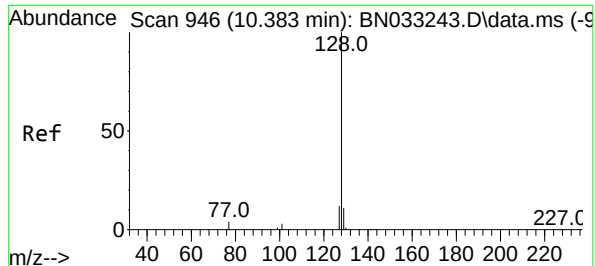
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.920 min Scan# 809
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:	82	Resp:	992
Ion	Ratio	Lower	Upper
82	100		
128	68.5	54.8	82.2
54	69.9	55.9	83.9





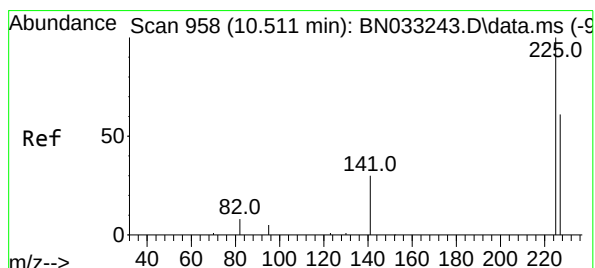
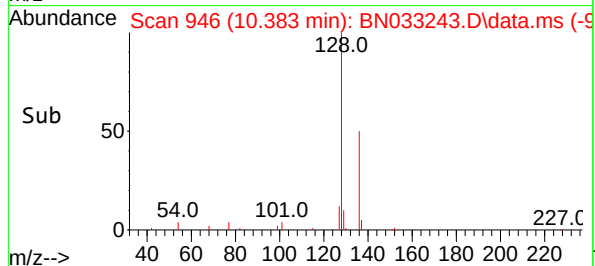
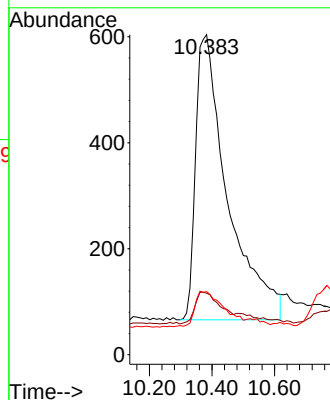
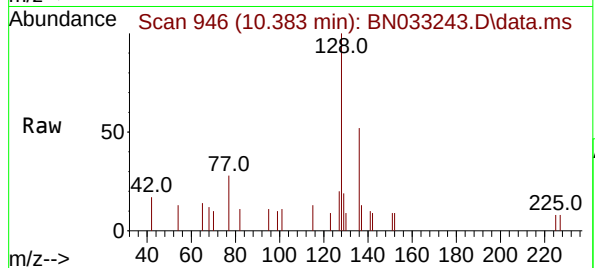
#9
Naphthalene
Concen: 0.386 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 382
Ion Ratio Lower Upper
128 100
129 19.2 15.4 23.0
127 19.7 15.8 23.6

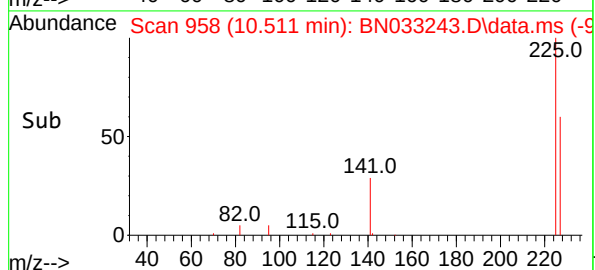
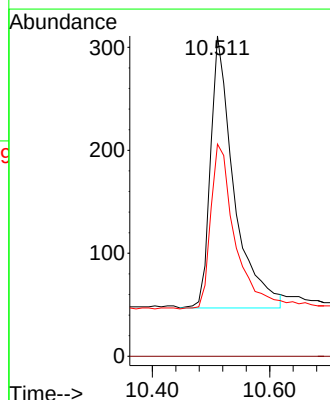
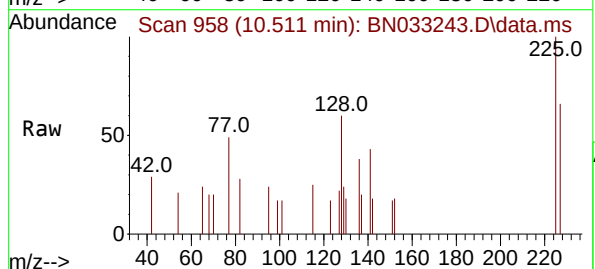
Manual Integrations
APPROVED

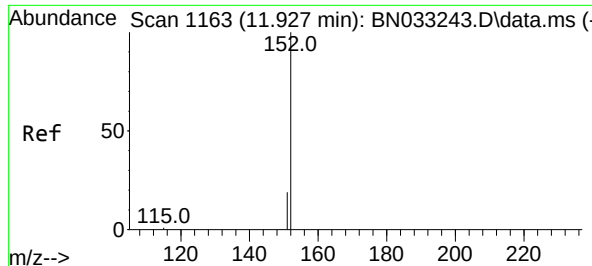
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.397 ng
RT: 10.511 min Scan# 958
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

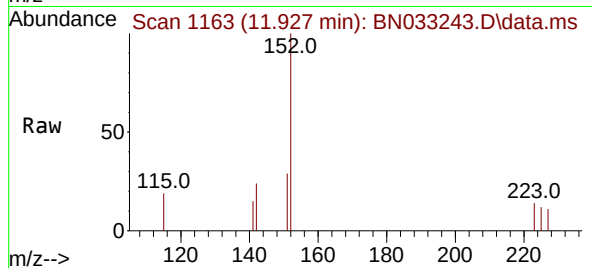
Tgt Ion:225 Resp: 730
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.388 ng
RT: 11.927 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

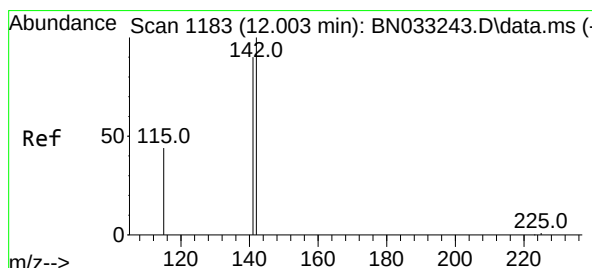
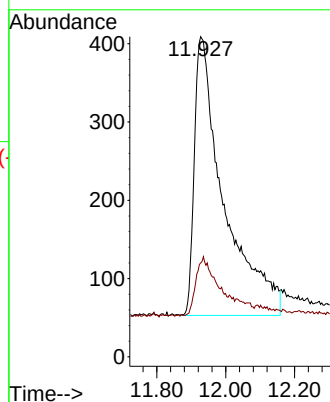
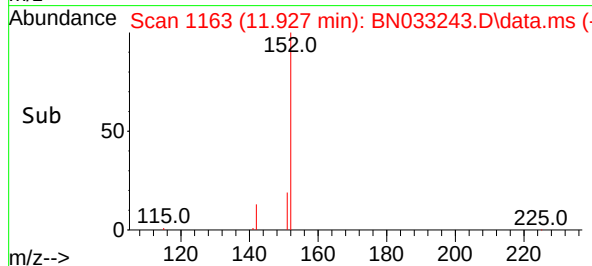
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 211
Ion Ratio Lower Upper
152 100
151 14.3 11.9 17.9

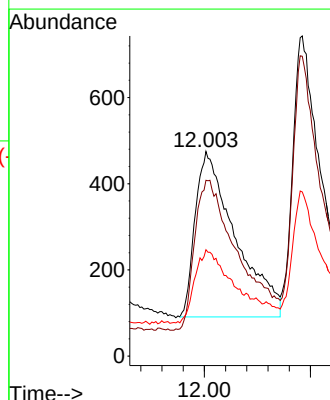
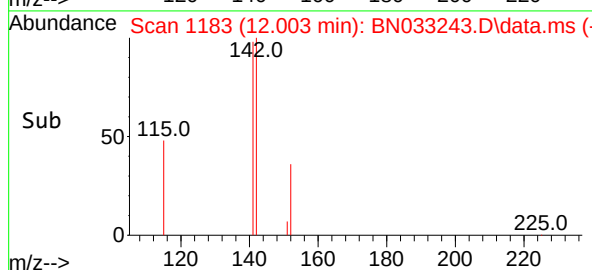
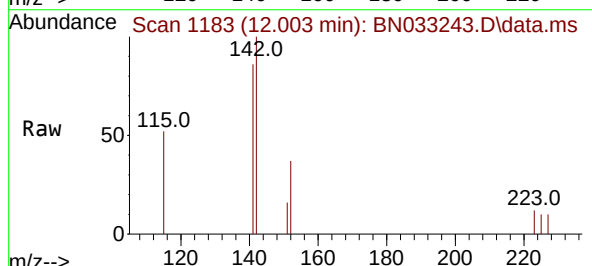
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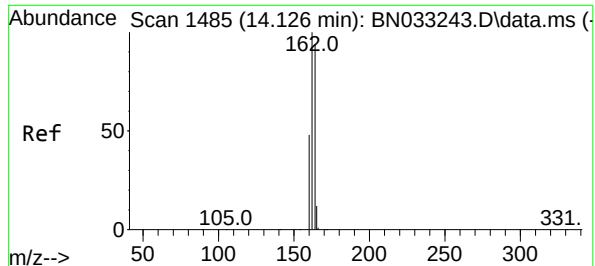
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.343 ng
RT: 12.003 min Scan# 1183
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:142 Resp: 2019
Ion Ratio Lower Upper
142 100
141 85.9 68.7 103.1
115 52.0 41.6 62.4





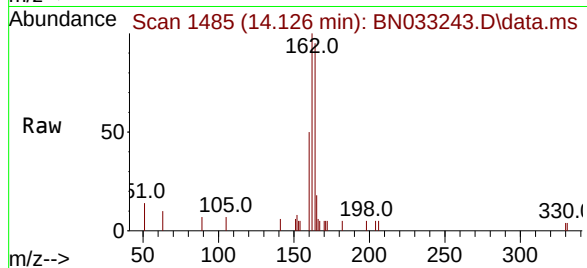
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.126 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

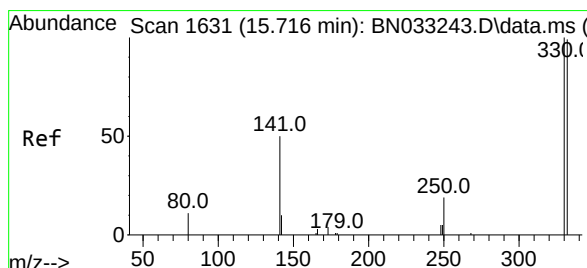
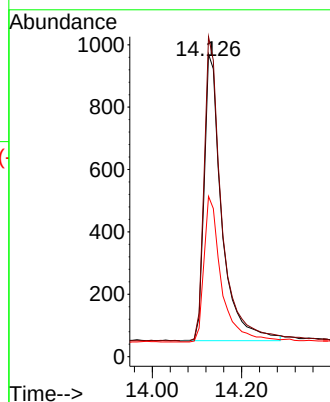
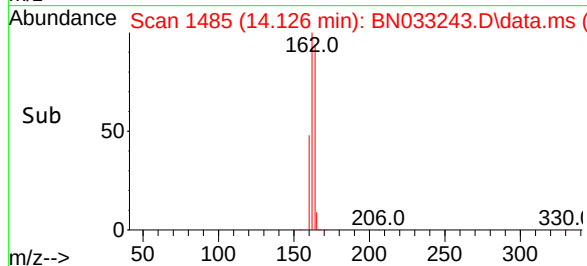


Tgt Ion:164 Resp: 250
Ion Ratio Lower Upper
164 100
162 105.8 84.6 127.0
160 53.0 42.4 63.6

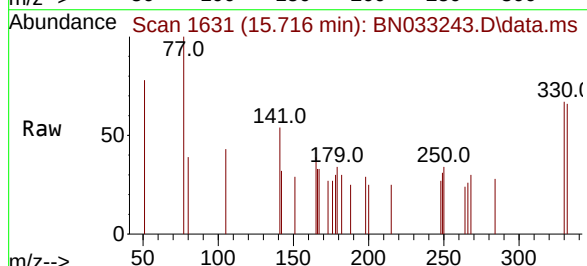
Manual Integrations

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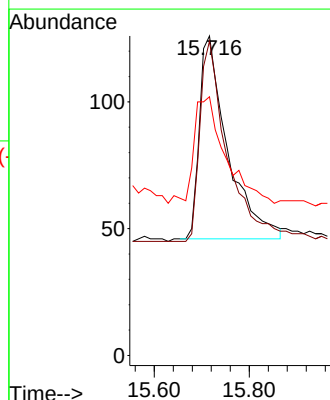
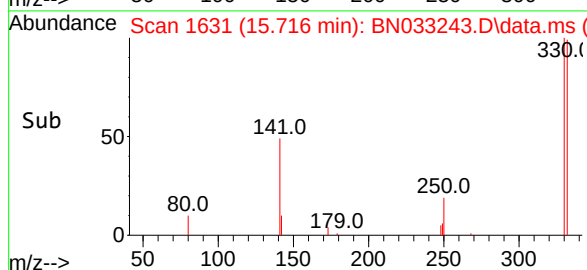
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

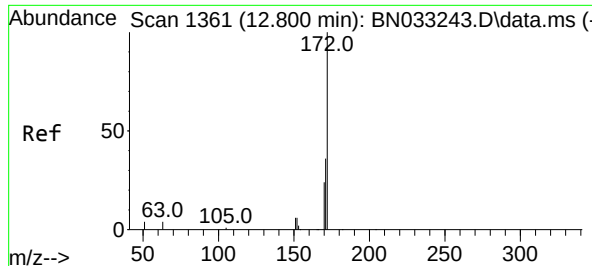


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53



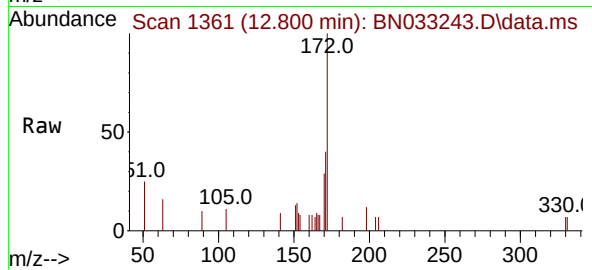
Tgt Ion:330 Resp: 331
Ion Ratio Lower Upper
330 100
332 95.8 73.7 110.5
141 56.8 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.377 ng
RT: 12.800 min Scan# 1361
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

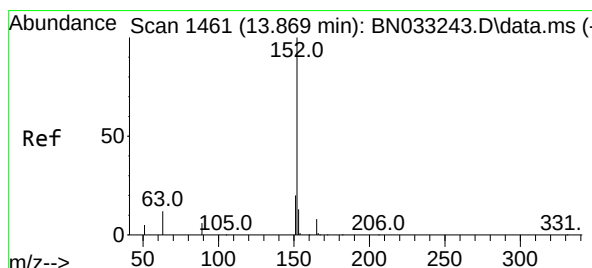
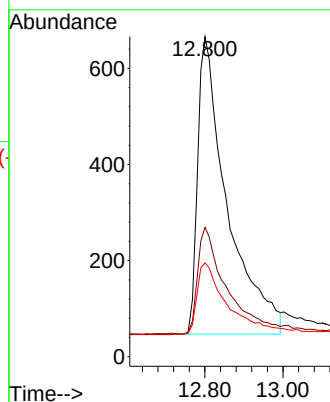
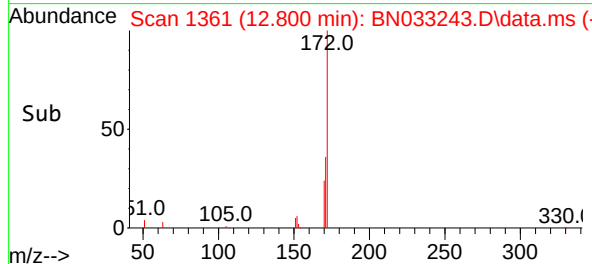
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:172 Resp: 3240
Ion Ratio Lower Upper
172 100
171 40.4 32.3 48.5
170 29.3 23.4 35.2

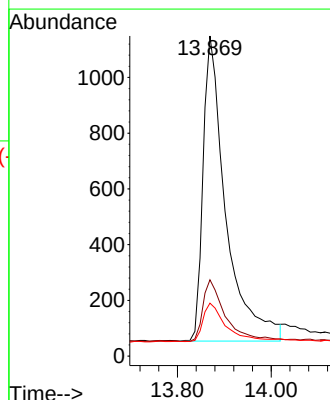
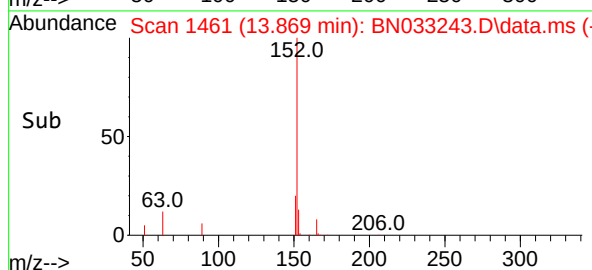
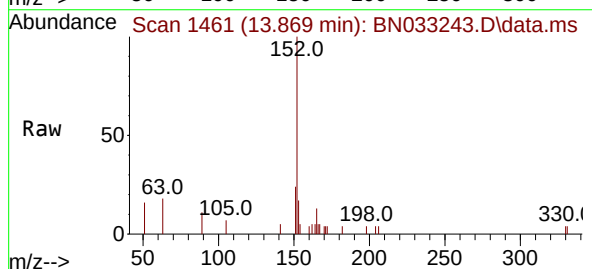
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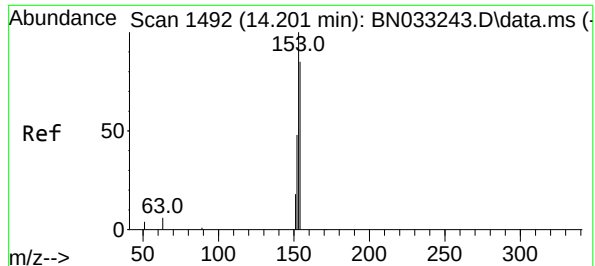
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.869 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:152 Resp: 3697
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 12.6 10.2 15.2





#17

Acenaphthene

Concen: 0.389 ng

RT: 14.201 min Scan# 1492

Delta R.T. -0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

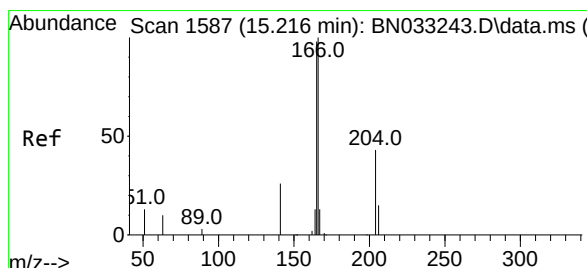
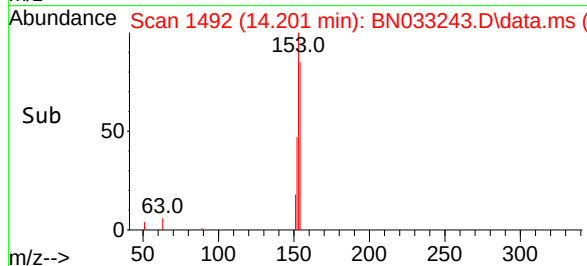
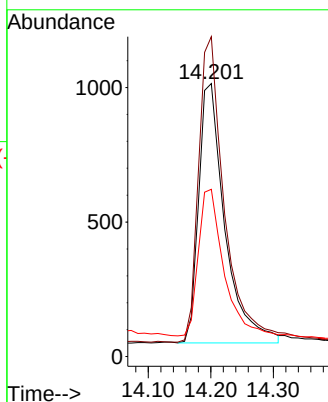
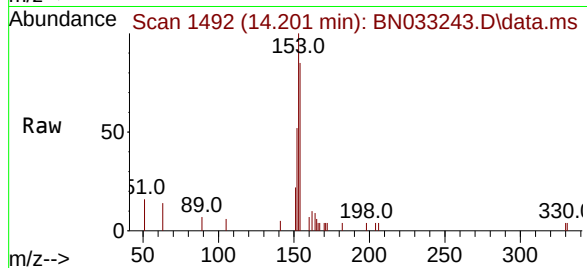
SSTDICCC0.4

Tgt Ion:	154	Resp:	281
Ion Ratio	Lower	Upper	
154	100		
153	115.6	92.7	139.1
152	54.6	44.0	66.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18

Fluorene

Concen: 0.377 ng

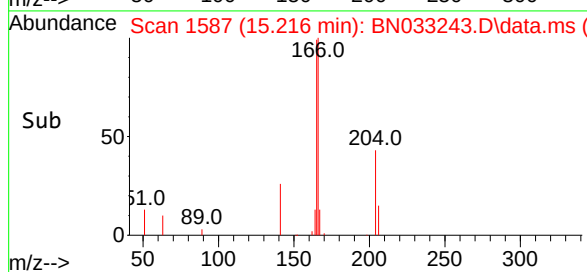
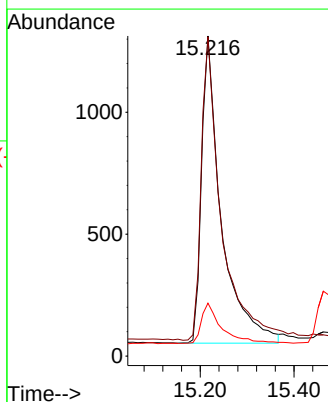
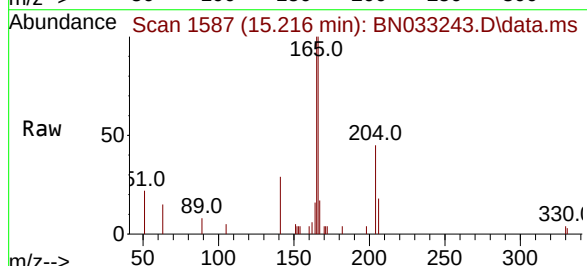
RT: 15.216 min Scan# 1587

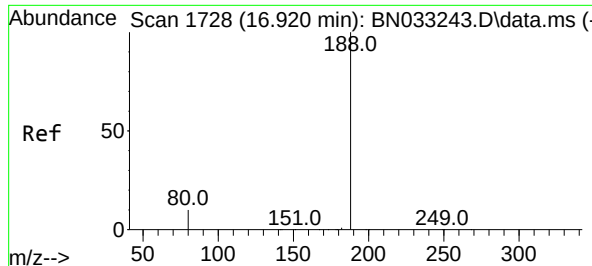
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:	166	Resp:	3687
Ion Ratio	Lower	Upper	
166	100		
165	100.2	79.6	119.4
167	13.3	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.920 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

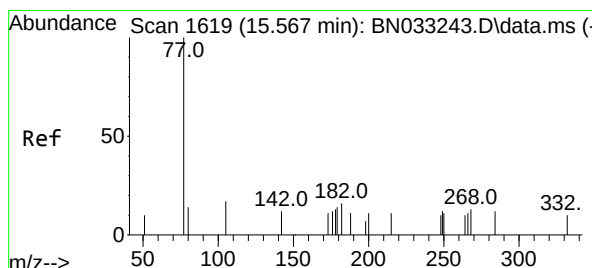
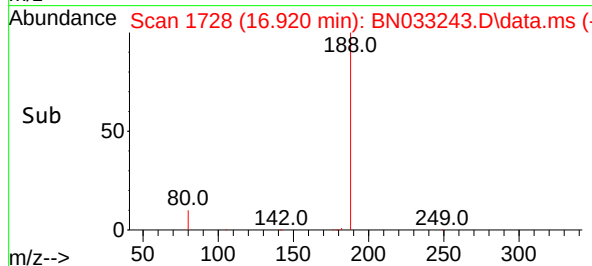
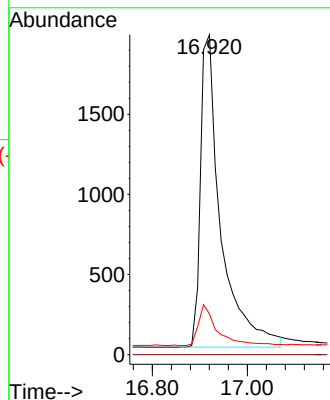
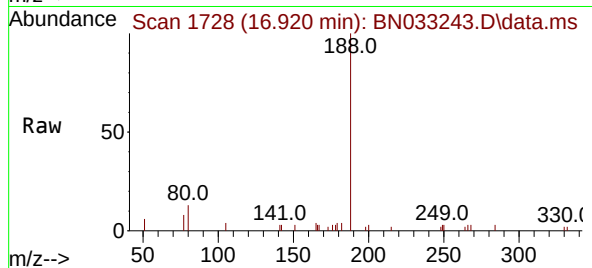
ClientSampleId :

SSTDICCC0.4

Tgt Ion:188	Resp:	578
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.8	15.4

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

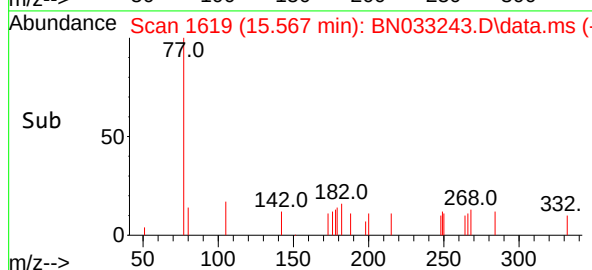
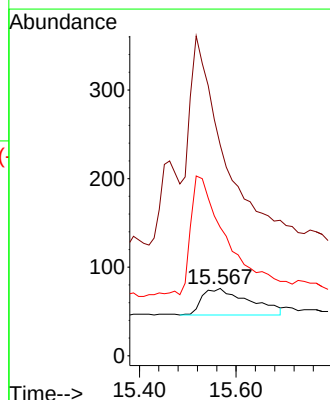
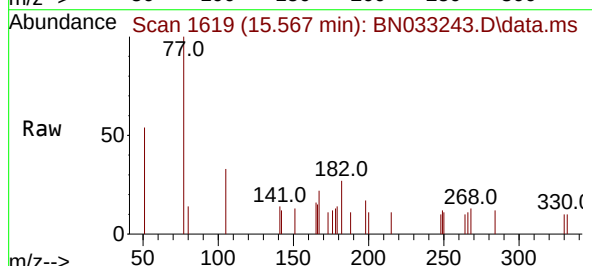
RT: 15.567 min Scan# 1619

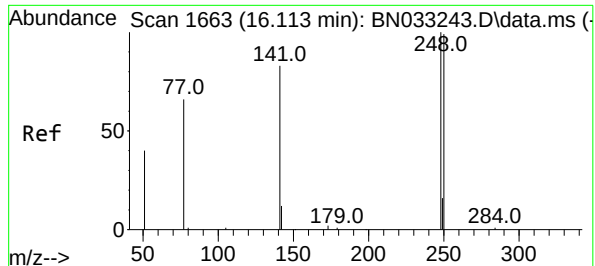
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:198	Resp:	201
Ion Ratio	Lower	Upper
198	100	
51	313.2	250.6
105	190.8	152.6





#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.113 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

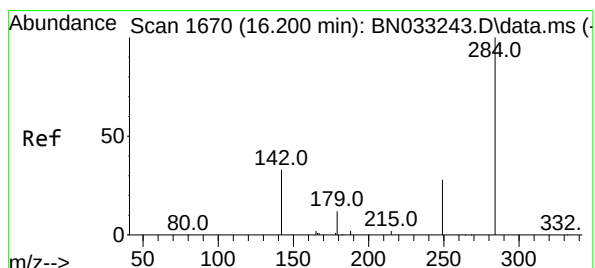
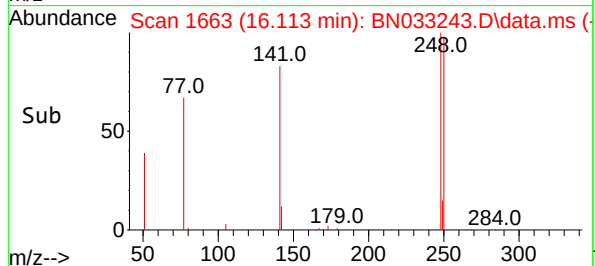
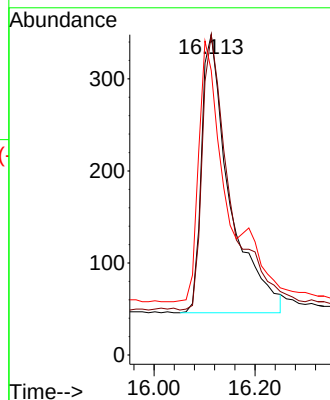
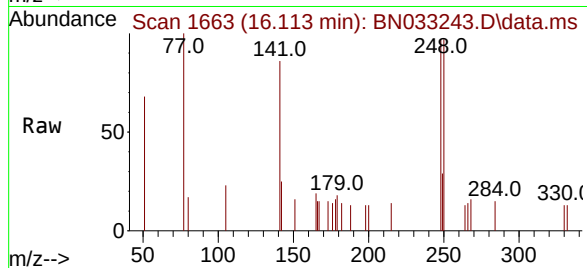
ClientSampleId :

SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.0	120.0
141	88.8	71.0	106.6

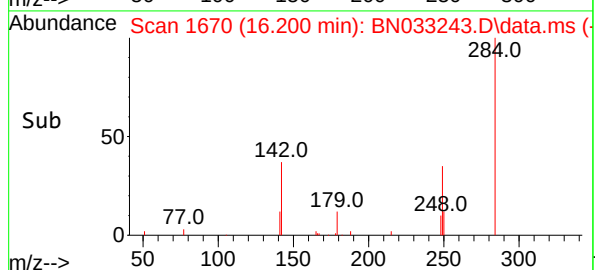
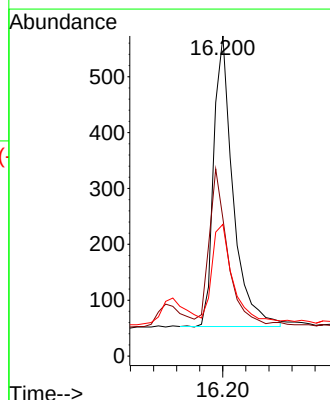
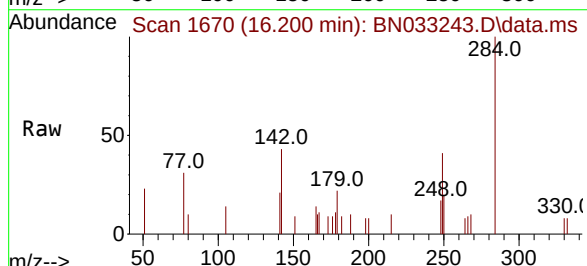
Manual Integrations
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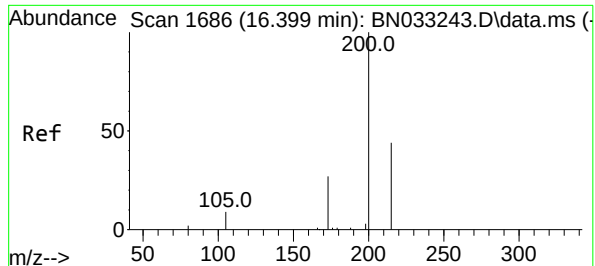
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	48.5	38.8	58.2
249	34.7	27.8	41.6





#23

Atrazine

Concen: 0.364 ng

RT: 16.399 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

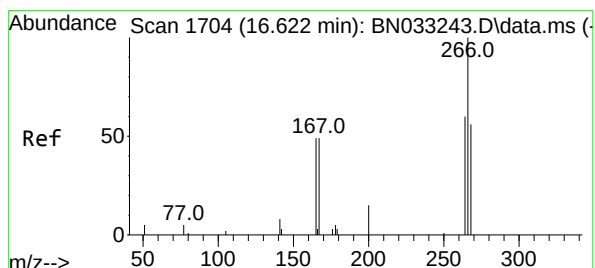
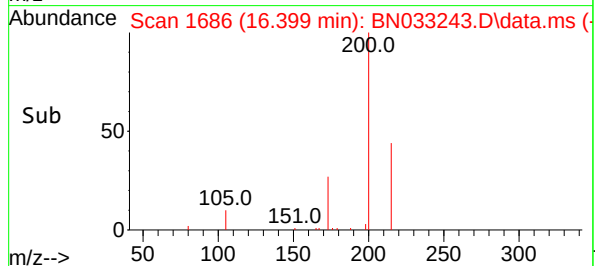
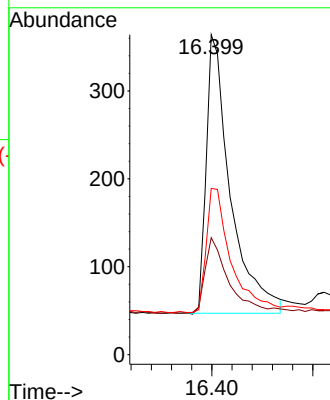
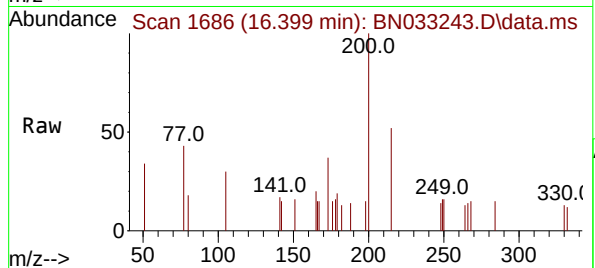
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	200	Resp:	105
Ion Ratio	Lower	Upper	
200	100		
173	36.5	29.2	43.8
215	51.9	41.5	62.3

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24

Pentachlorophenol

Concen: 0.361 ng

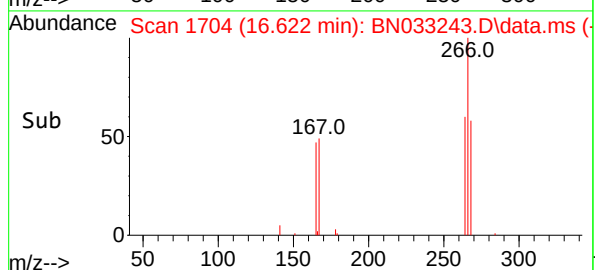
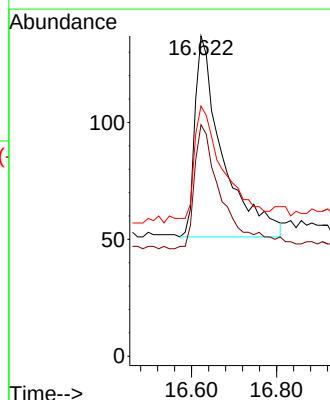
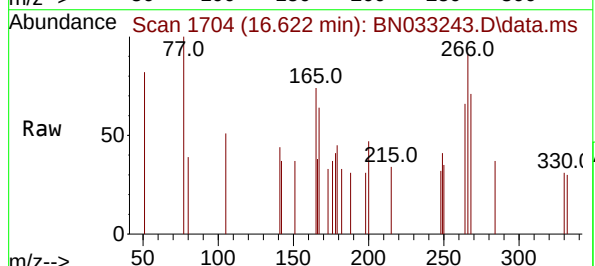
RT: 16.622 min Scan# 1704

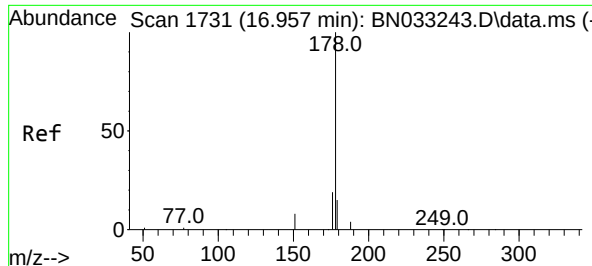
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

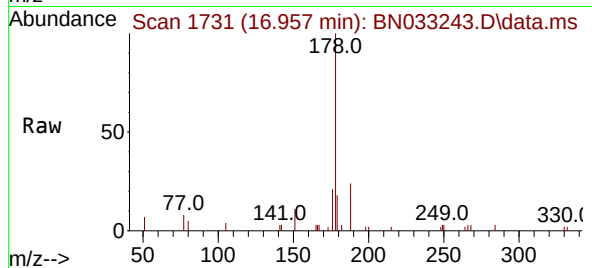
Tgt Ion:	266	Resp:	387
Ion Ratio	Lower	Upper	
266	100		
264	62.3	49.3	73.9
268	63.3	50.2	75.2





#25
Phenanthrene
Concen: 0.361 ng
RT: 16.957 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

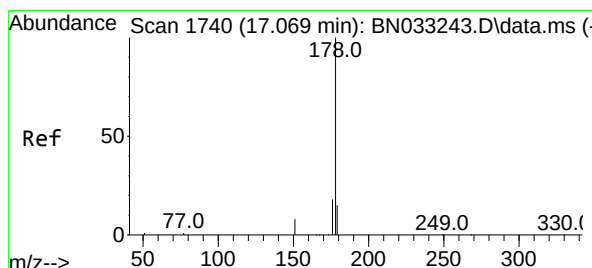
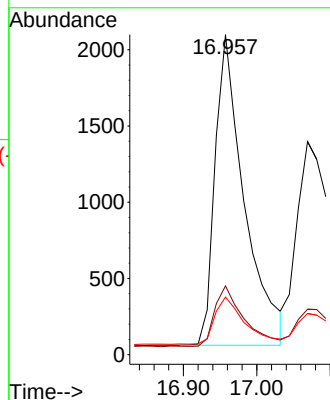
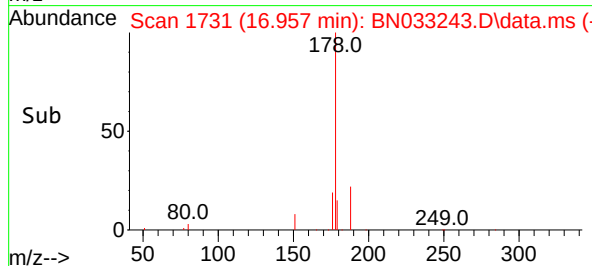
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:178 Resp: 5629
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.6 12.4 18.6

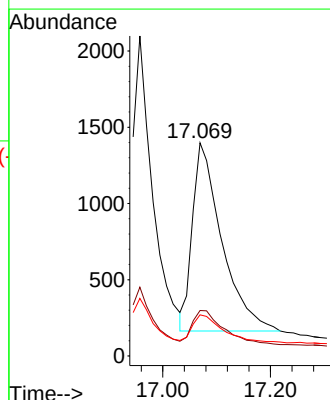
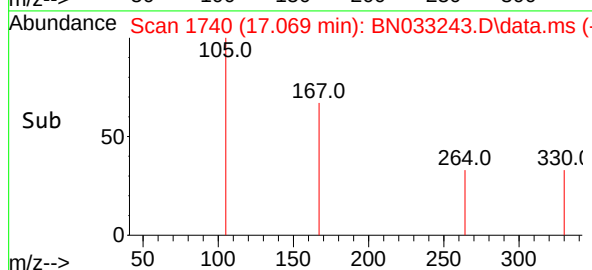
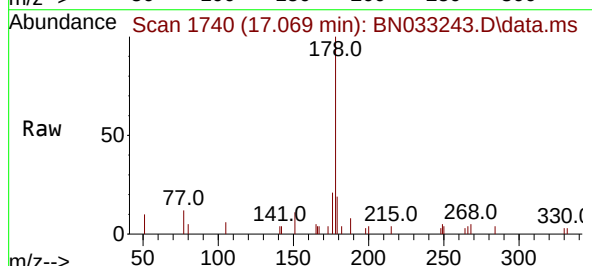
Manual Integrations
APPROVED

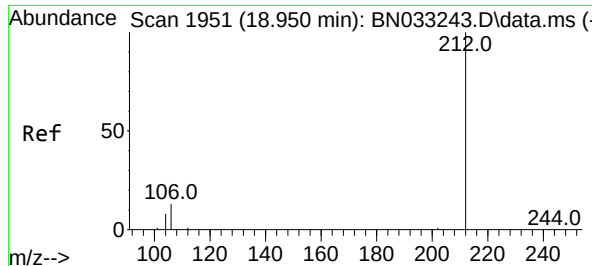
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.359 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:178 Resp: 4684
Ion Ratio Lower Upper
178 100
176 19.3 10.5 15.7#
179 14.5 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 18.950 min Scan# 1951

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

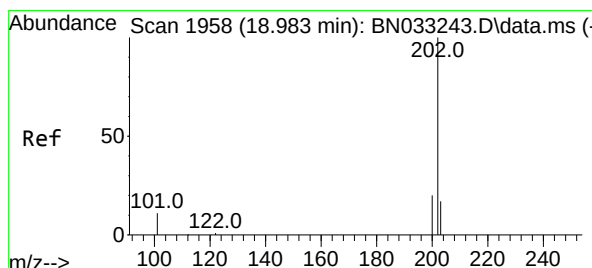
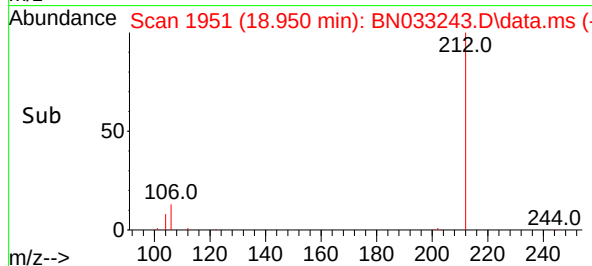
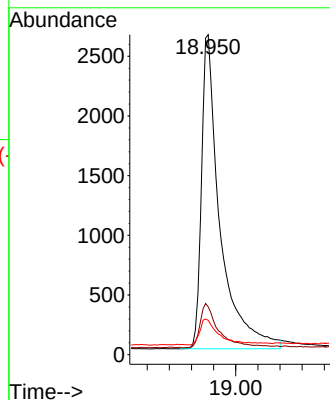
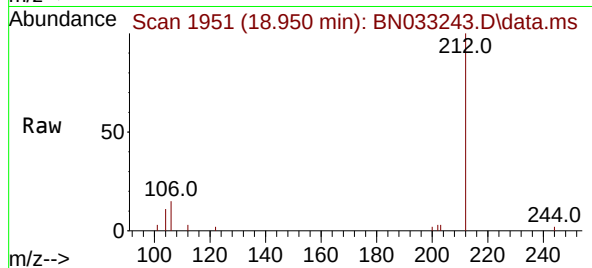
SSTDICCC0.4

Tgt Ion:	212	Resp:	613
Ion Ratio	Lower	Upper	
212	100		
106	14.3	11.4	17.0
104	8.9	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.374 ng

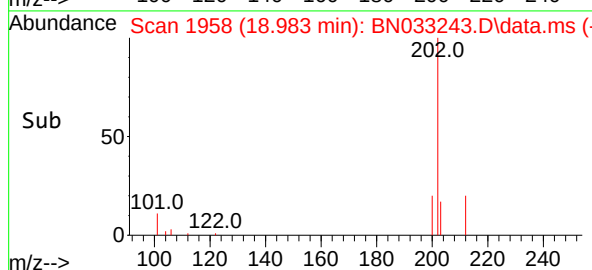
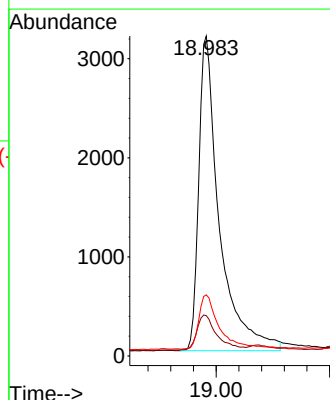
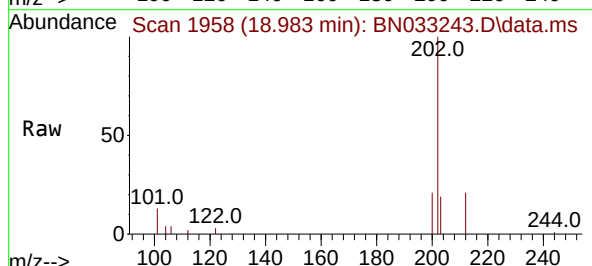
RT: 18.983 min Scan# 1958

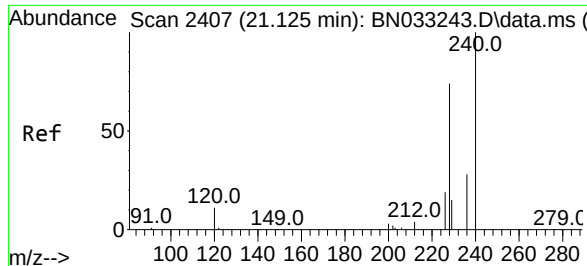
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:	202	Resp:	7997
Ion Ratio	Lower	Upper	
202	100		
101	10.9	8.6	13.0
203	17.4	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.125 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

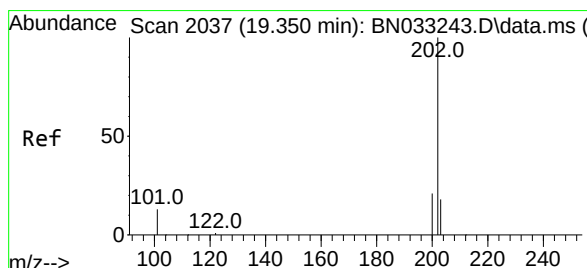
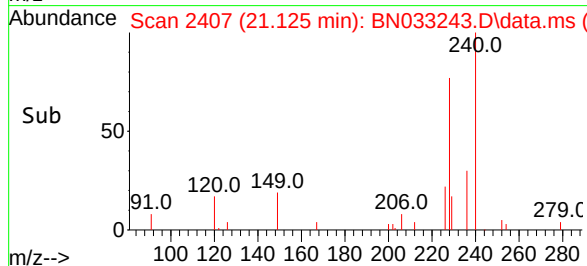
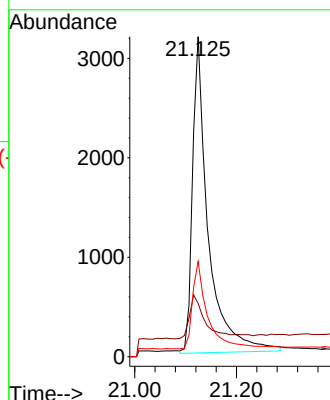
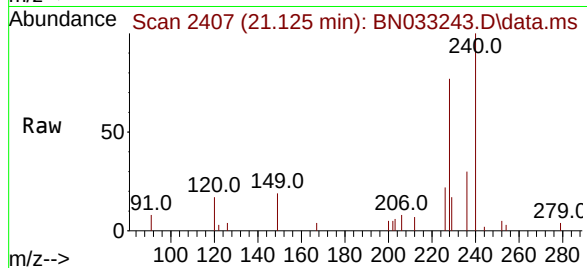
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	240	Resp:	678
Ion Ratio	Lower	Upper	
240	100		
120	16.6	13.3	19.9
236	29.7	23.8	35.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.357 ng

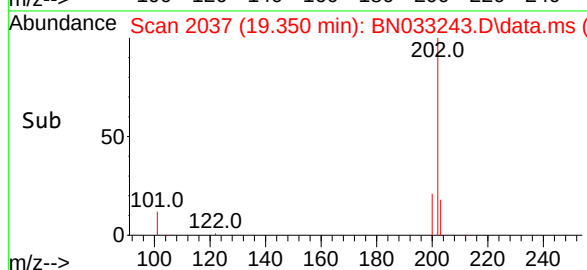
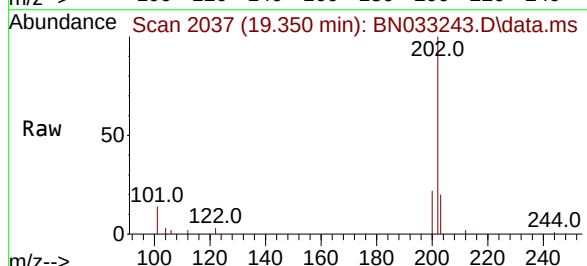
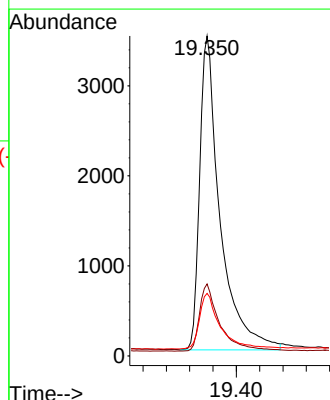
RT: 19.350 min Scan# 2037

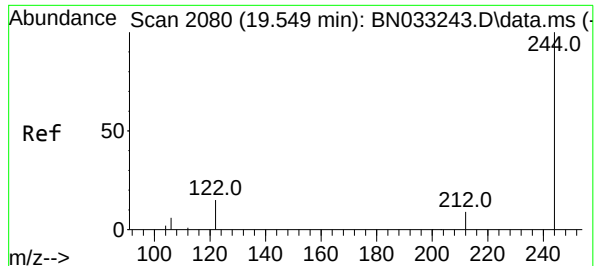
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:	202	Resp:	8471
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.0	25.4
203	18.0	14.4	21.6





#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.549 min Scan# 2080
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

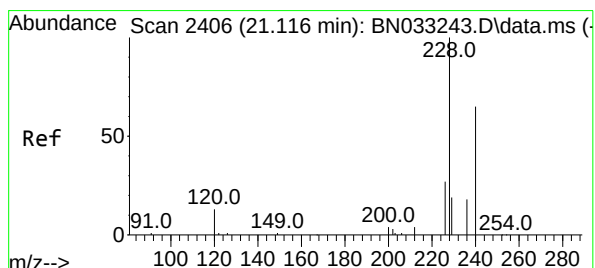
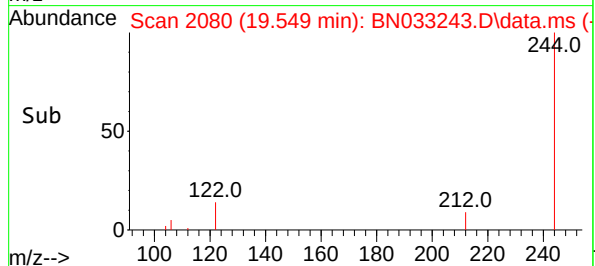
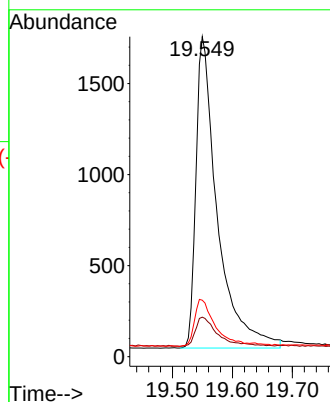
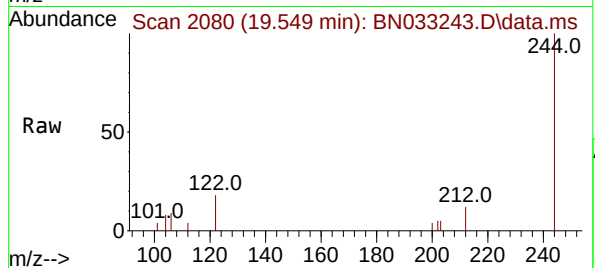
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.9	14.9
122	17.6	14.1	21.1

Manual Integrations

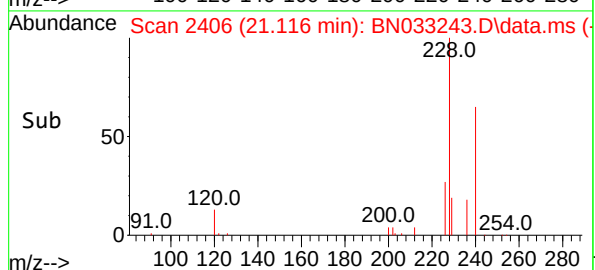
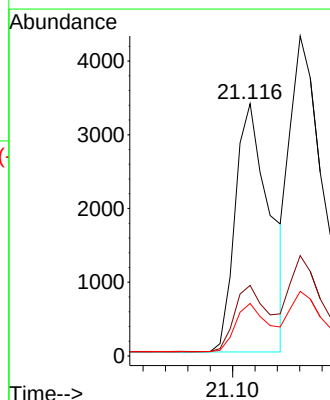
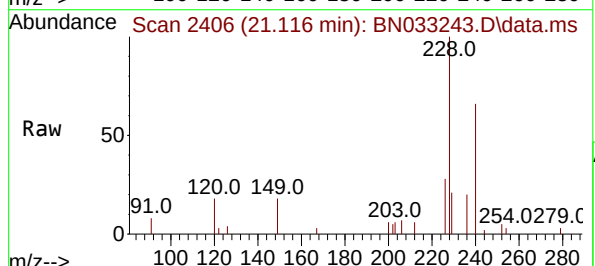
APPROVED

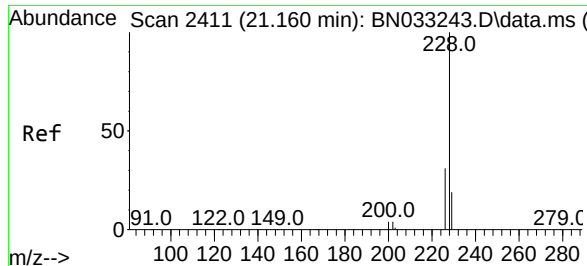
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.4	33.6
229	20.8	16.6	25.0





#33

Chrysene

Concen: 0.368 ng

RT: 21.160 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

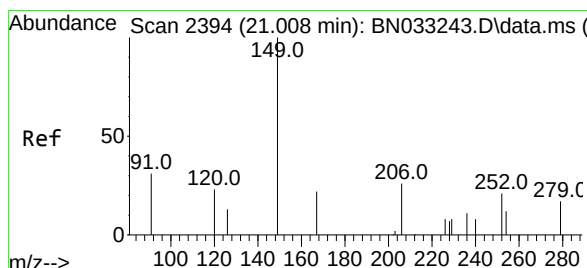
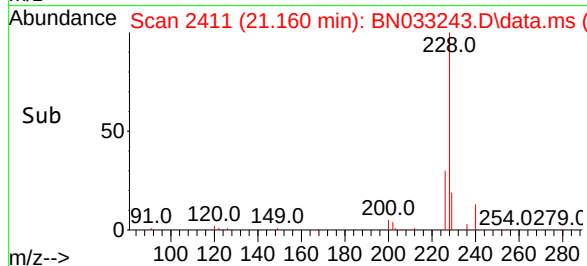
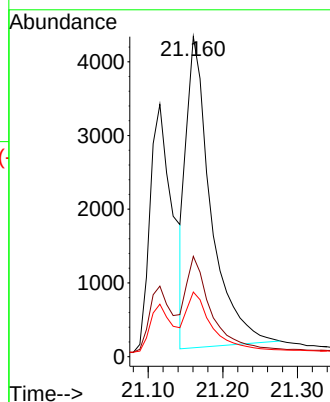
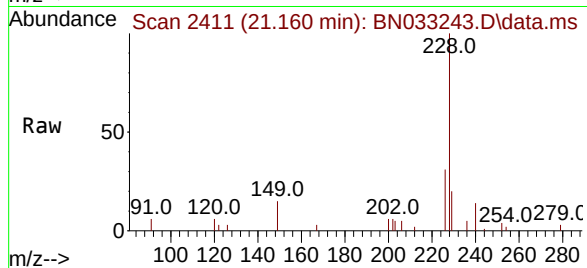
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	228	Resp:	965
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.1	37.7
229	20.2	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.304 ng

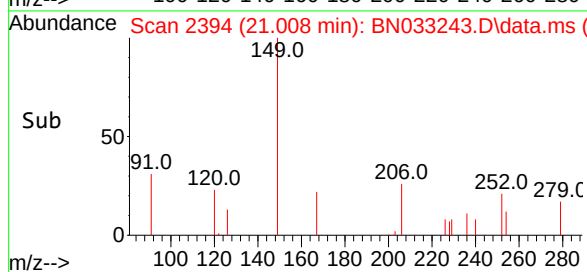
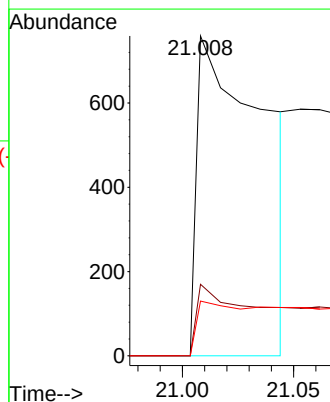
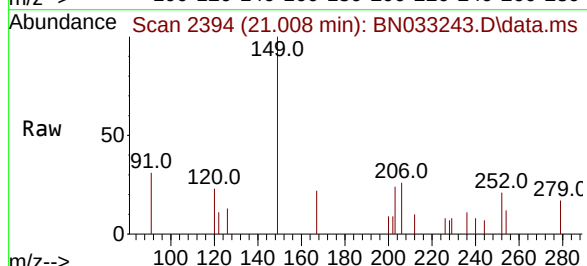
RT: 21.008 min Scan# 2394

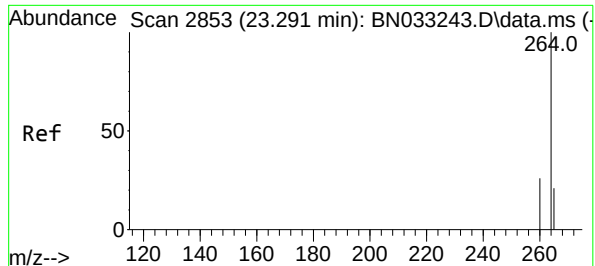
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

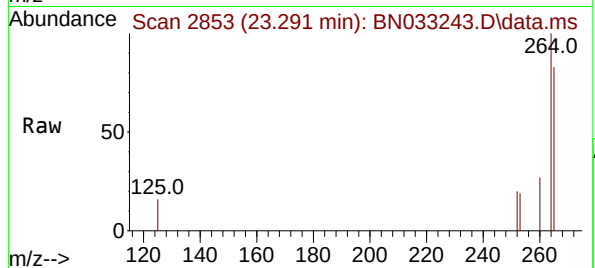
Tgt Ion:	149	Resp:	1425
Ion Ratio	Lower	Upper	
149	100		
167	24.7	19.8	29.6
279	10.3	8.2	12.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.291 min Scan# 2853
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

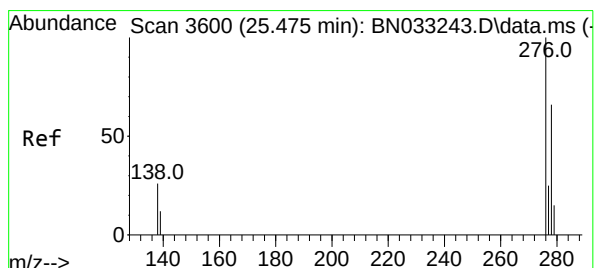
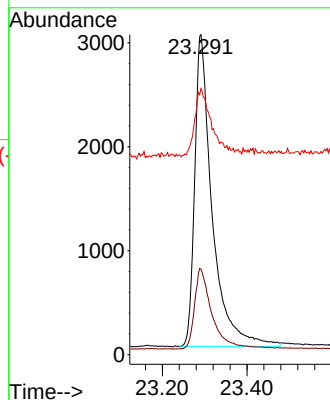
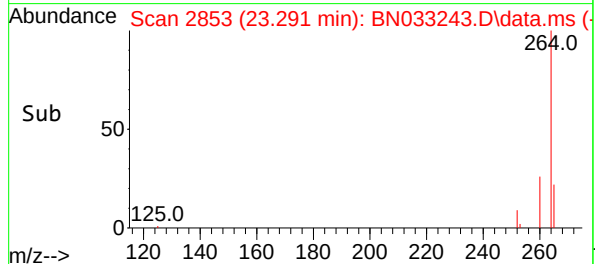
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:264 Resp: 8590
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 83.2 66.6 99.8

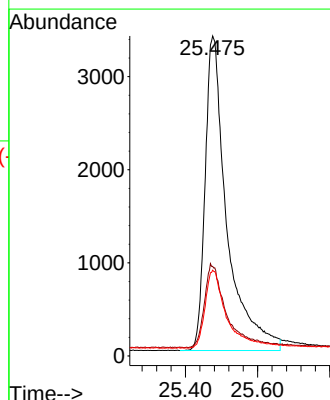
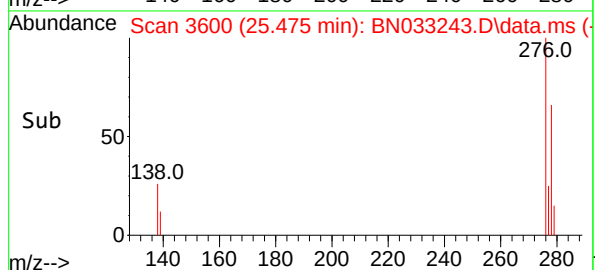
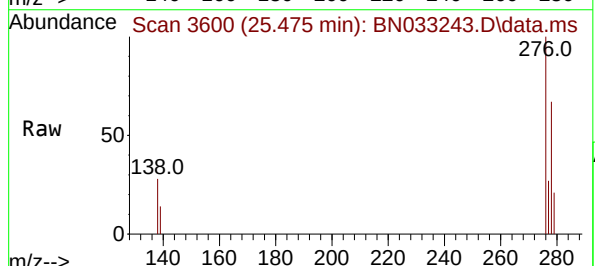
Manual Integrations
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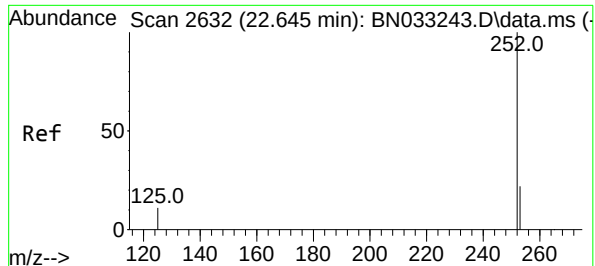
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.365 ng
RT: 25.475 min Scan# 3600
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Tgt Ion:276 Resp: 14171
Ion Ratio Lower Upper
276 100
138 25.6 20.4 30.6
277 24.9 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 0.351 ng

RT: 22.645 min Scan# 2632

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

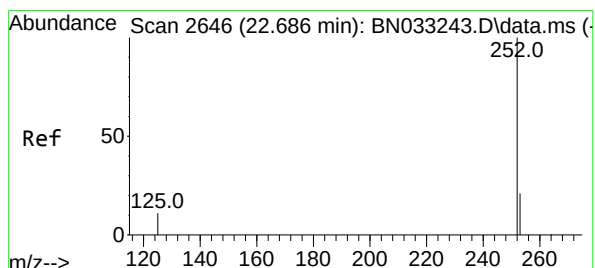
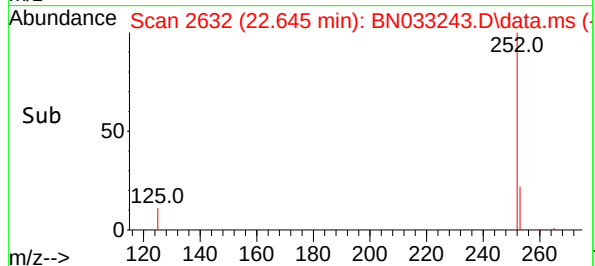
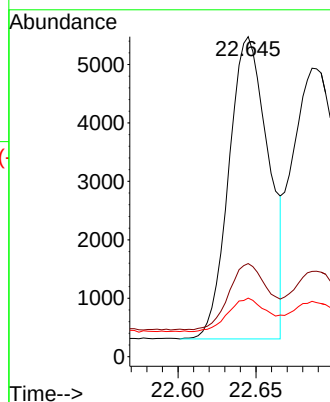
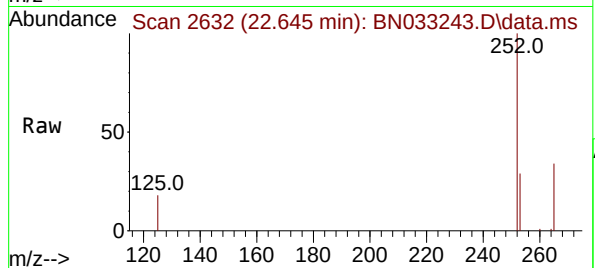
SSTDICCC0.4

Tgt Ion:	252	Resp:	915
Ion Ratio	Lower	Upper	
252	100		
253	29.1	23.3	34.9
125	18.3	14.6	22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.354 ng

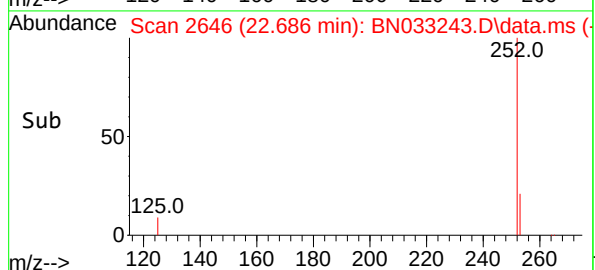
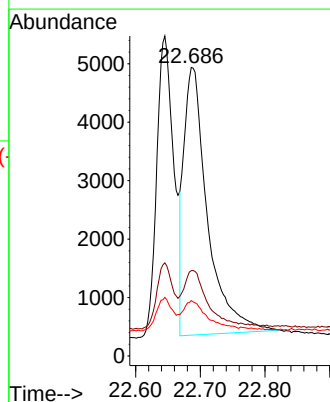
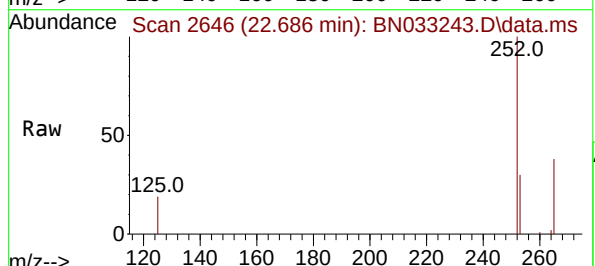
RT: 22.686 min Scan# 2646

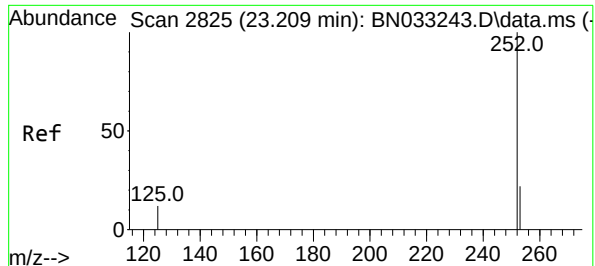
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:	252	Resp:	11637
Ion Ratio	Lower	Upper	
252	100		
253	29.6	23.7	35.5
125	19.2	15.4	23.0





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.209 min Scan# 2825

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

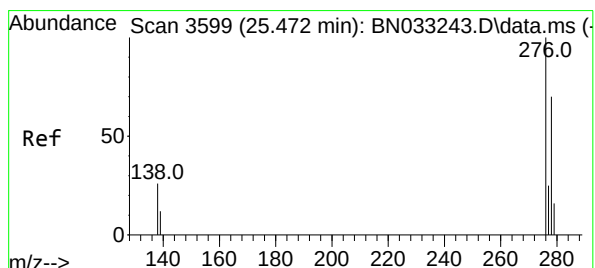
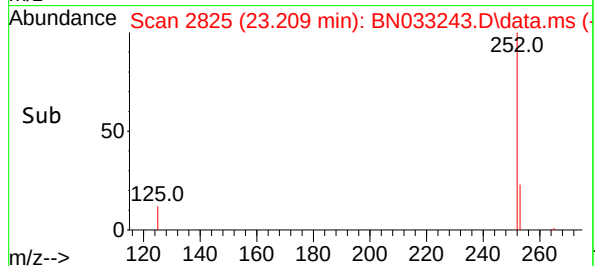
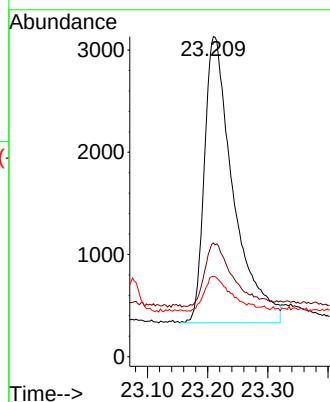
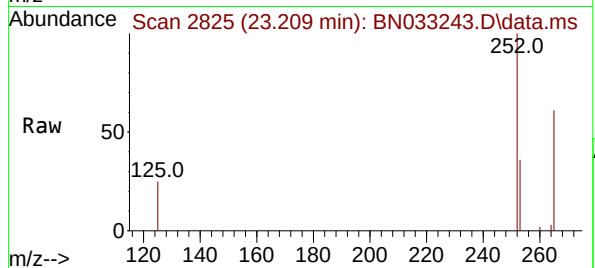
SSTDICCC0.4

Tgt Ion:	252	Resp:	928
Ion Ratio	Lower	Upper	
252	100		
253	35.5	28.4	42.6
125	25.1	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

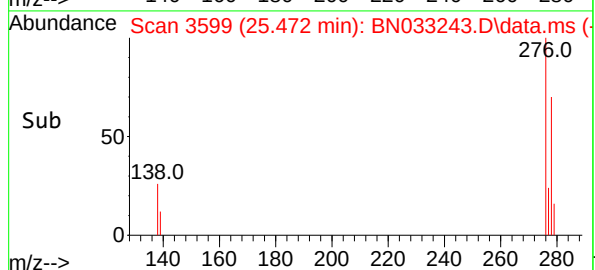
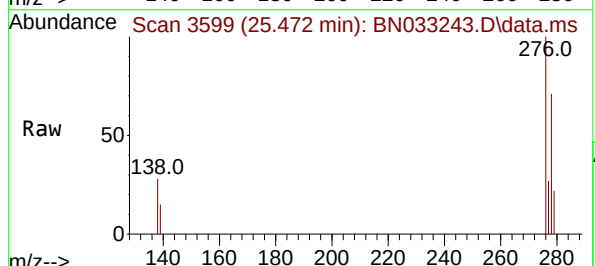
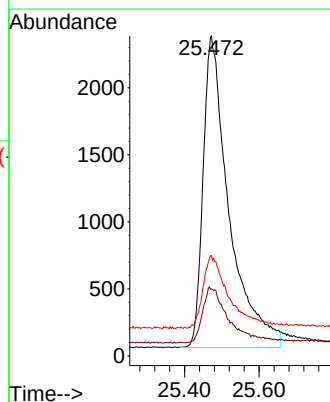
RT: 25.472 min Scan# 3599

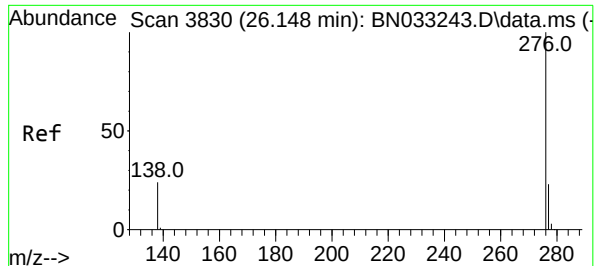
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Tgt Ion:	278	Resp:	11210
Ion Ratio	Lower	Upper	
278	100		
139	20.9	16.7	25.1
279	31.3	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.375 ng

RT: 26.148 min Scan# 3830

Delta R.T. 0.000 min

Lab File: BN033243.D

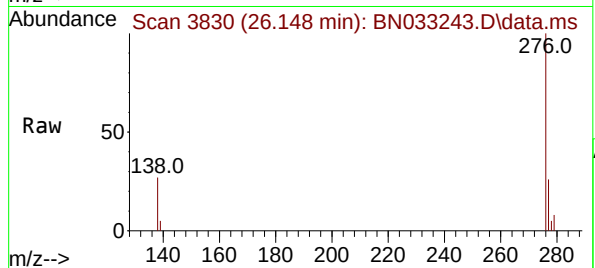
Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 1320

Ion Ratio Lower Upper

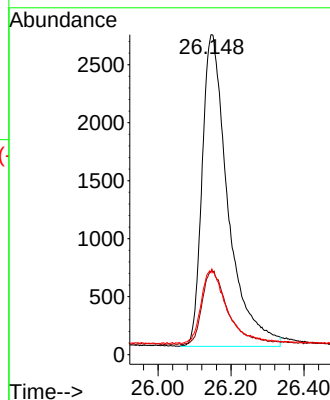
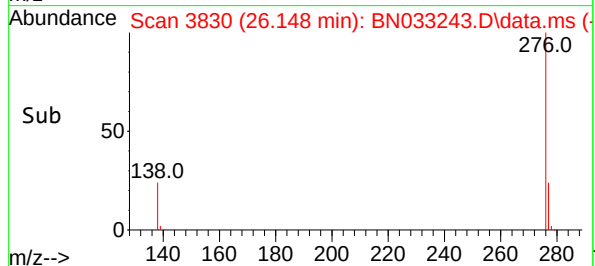
276 100

277 26.2 21.0 31.4

138 26.7 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033244.D
 Acq On : 05 Aug 2024 20:30
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:42:31 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.495	152	1161	0.400	ng	-0.01
7) Naphthalene-d8	10.276	136	4085	0.400	ng	#-0.04
13) Acenaphthene-d10	14.115	164	2767	0.400	ng	-0.01
19) Phenanthrene-d10	16.895	188	6032	0.400	ng	-0.03
29) Chrysene-d12	21.115	240	6464	0.400	ng	0.00
35) Perylene-d12	23.288	264	7672	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.278	112	2519m	0.870	ng	-0.02
5) Phenol-d6	6.867	99	3345m	0.849	ng	-0.12
8) Nitrobenzene-d5	8.802	82	2962	0.895	ng	-0.12
11) 2-Methylnaphthalene-d10	11.878	152	5160	0.843	ng	-0.05
14) 2,4,6-Tribromophenol	15.679	330	842	0.820	ng	-0.04
15) 2-Fluorobiphenyl	12.757	172	8417	0.887	ng	-0.04
27) Fluoranthene-d10	18.936	212	14290	0.847	ng	-0.01
31) Terphenyl-d14	19.540	244	9846	0.882	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.046	88	1413	0.866	ng	# 93
3) n-Nitrosodimethylamine	3.458	42	1170	0.826	ng	# 75
6) bis(2-Chloroethyl)ether	7.011	93	2945	0.814	ng	# 9
9) Naphthalene	10.319	128	9636	0.868	ng	# 89
10) Hexachlorobutadiene	10.500	225	1717	0.832	ng	# 98
12) 2-Methylnaphthalene	11.954	142	5744	0.871	ng	94
16) Acenaphthylene	13.848	152	9436	0.855	ng	99
17) Acenaphthene	14.179	154	6903	0.866	ng	99
18) Fluorene	15.184	166	9364	0.868	ng	99
20) 4,6-Dinitro-2-methylph...	15.494	198	611m	0.769	ng	
21) 4-Bromophenyl-phenylether	16.088	248	2892	0.904	ng	95
22) Hexachlorobenzene	16.187	284	2917	0.873	ng	99
23) Atrazine	16.386	200	2542	0.843	ng	91
24) Pentachlorophenol	16.597	266	957	0.856	ng	98
25) Phenanthrene	16.932	178	13977	0.861	ng	100
26) Anthracene	17.044	178	11873	0.873	ng	# 86
28) Fluoranthene	18.968	202	18585	0.835	ng	99
30) Pyrene	19.340	202	19695	0.872	ng	100
32) Benzo(a)anthracene	21.106	228	16950	0.911	ng	99
33) Chrysene	21.151	228	21198	0.848	ng	98
34) Bis(2-ethylhexyl)phtha...	21.008	149	2134	0.477	ng	# 77
36) Indeno(1,2,3-cd)pyrene	25.454	276	29716	0.857	ng	98
37) Benzo(b)fluoranthene	22.633	252	20392	0.876	ng	# 92
38) Benzo(k)fluoranthene	22.677	252	25641	0.875	ng	# 91
39) Benzo(a)pyrene	23.200	252	20066	0.859	ng	# 87
40) Dibenzo(a,h)anthracene	25.454	278	23363	0.853	ng	94
41) Benzo(g,h,i)perylene	26.127	276	27000	0.860	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033244.D
 Acq On : 05 Aug 2024 20:30
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

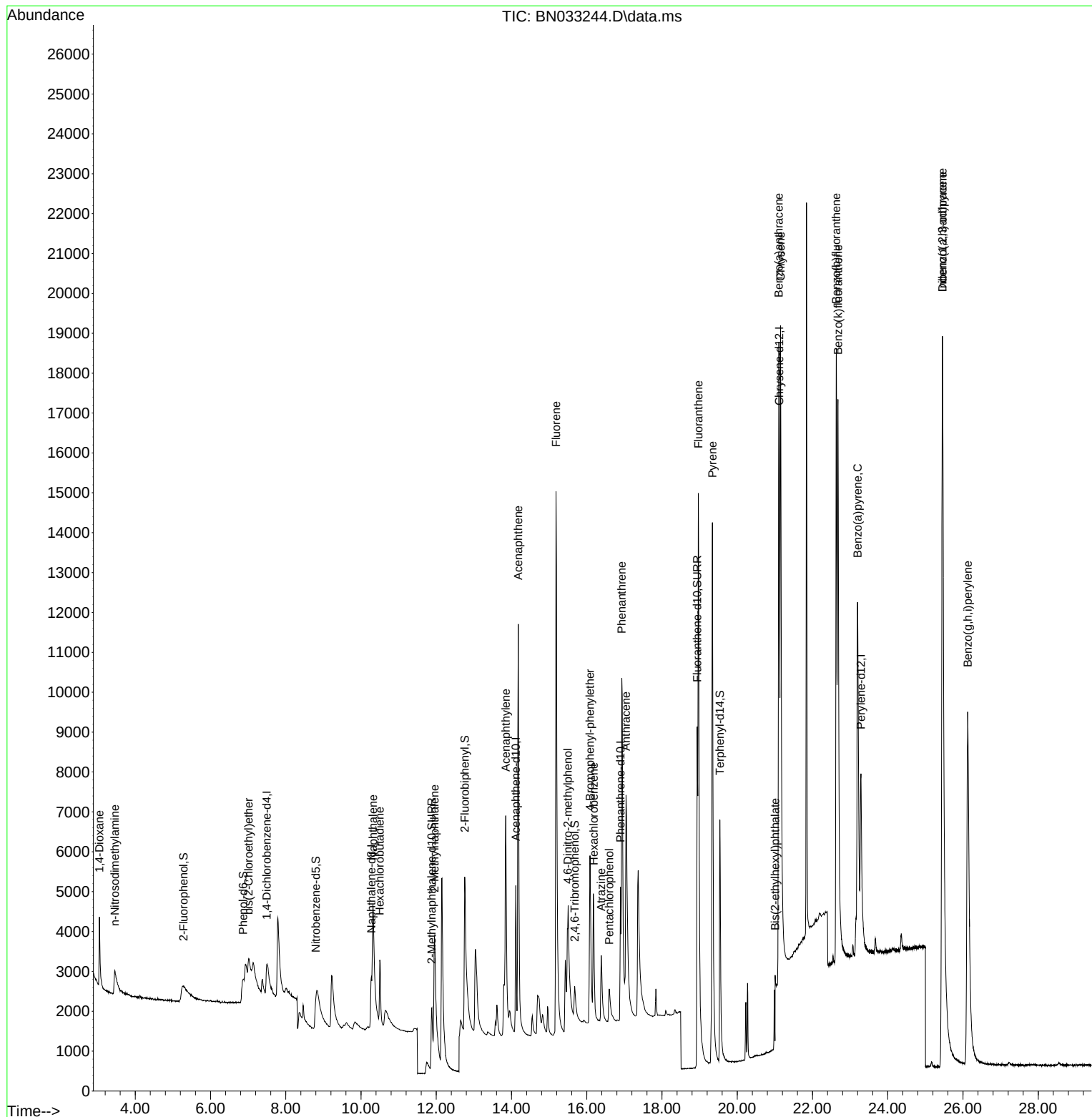
SSTDICC0.8

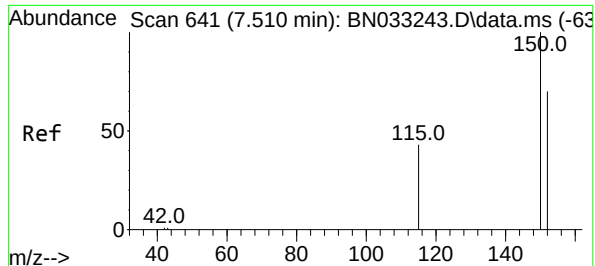
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

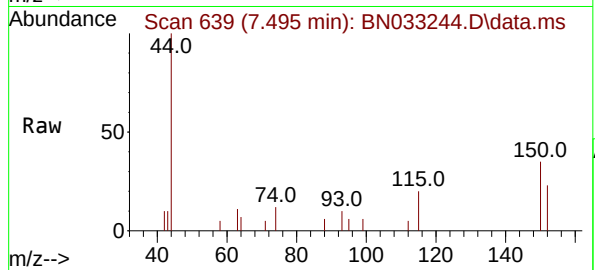
Quant Time: Aug 05 23:42:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:33:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.495 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

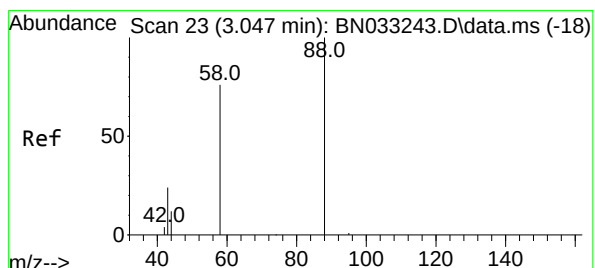
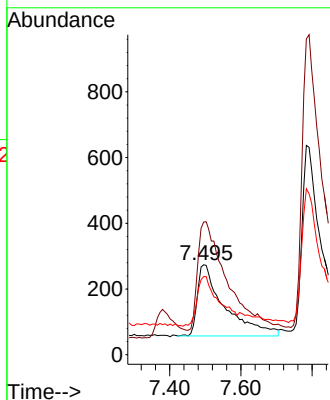
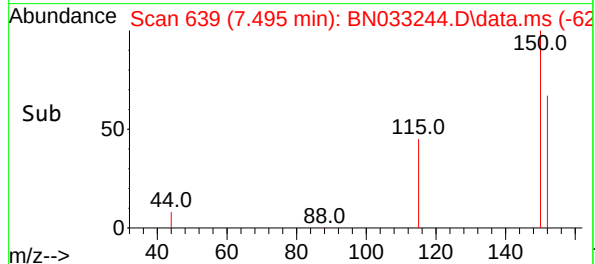
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 116
Ion Ratio Lower Upper
152 100
150 147.4 108.2 162.2
115 86.9 70.5 105.7

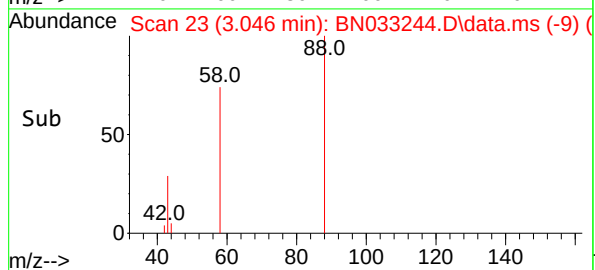
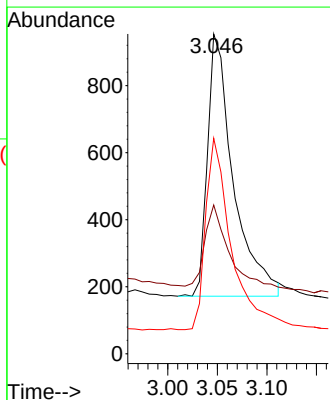
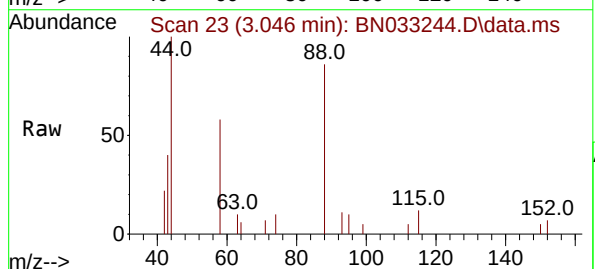
Manual Integrations
APPROVED

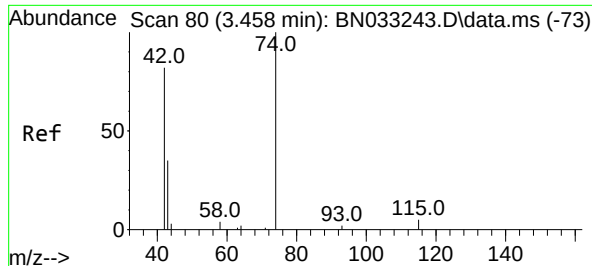
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.866 ng
RT: 3.046 min Scan# 23
Delta R.T. -0.001 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

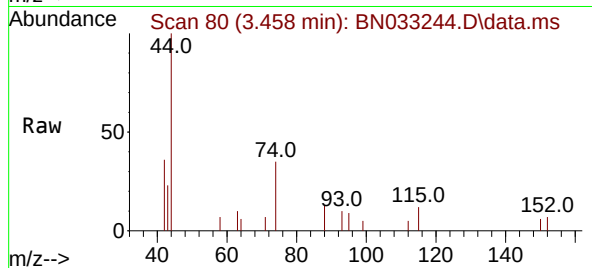
Tgt Ion: 88 Resp: 1413
Ion Ratio Lower Upper
88 100
43 28.2 18.6 28.0#
58 72.8 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.826 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

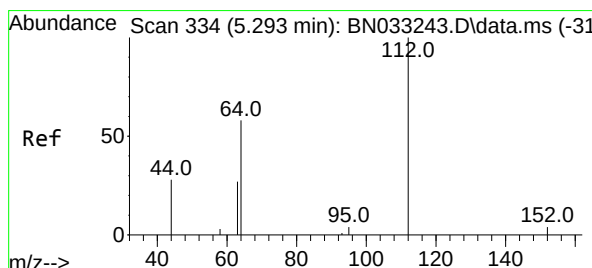
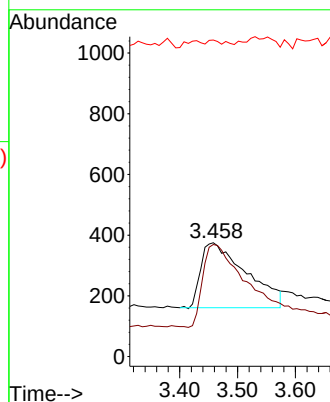
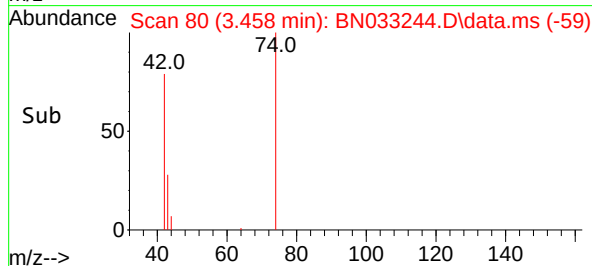
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 42 Resp: 1170
Ion Ratio Lower Upper
42 100
74 126.7 0.0 0.0#
44 2.5 9.6 14.4#

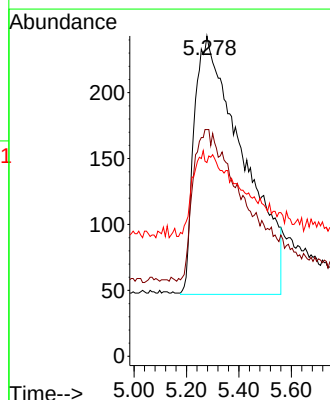
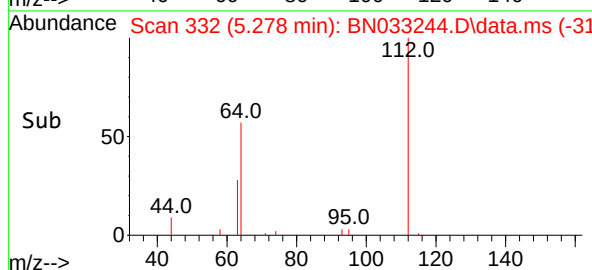
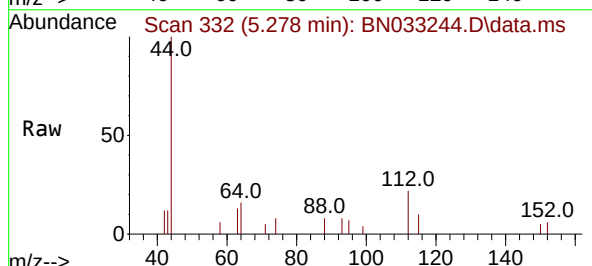
Manual Integrations
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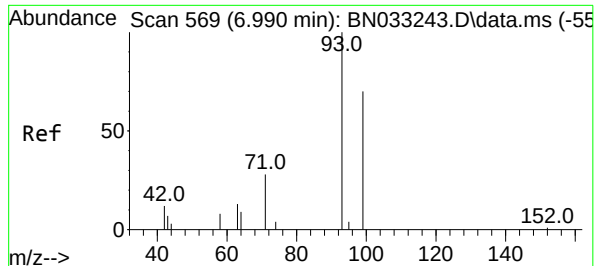
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.870 ng m
RT: 5.278 min Scan# 332
Delta R.T. -0.015 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

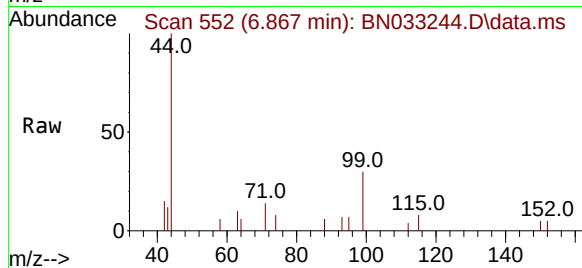
Tgt Ion:112 Resp: 2519
Ion Ratio Lower Upper
112 100
64 50.7 18.0 27.0#
63 9.7 0.0 0.0#





#5
Phenol-d6
Concen: 0.849 ng m
RT: 6.867 min Scan# 51
Delta R.T. -0.123 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

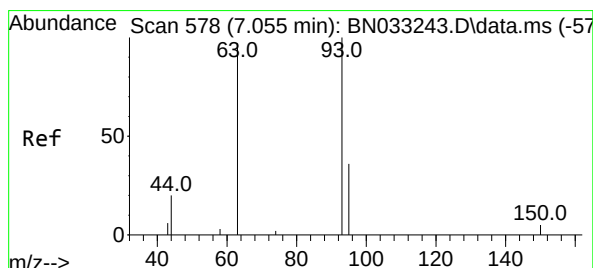
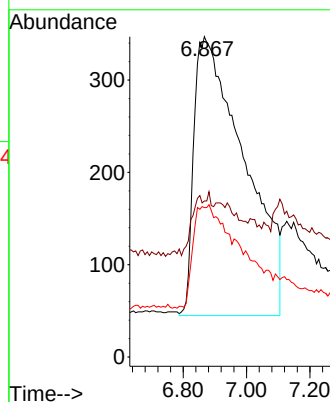
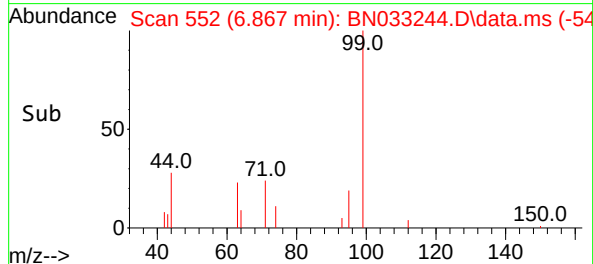
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 99 Resp: 334
Ion Ratio Lower Upper
99 100
42 0.3 0.0 0.0
71 0.9 0.0 0.0

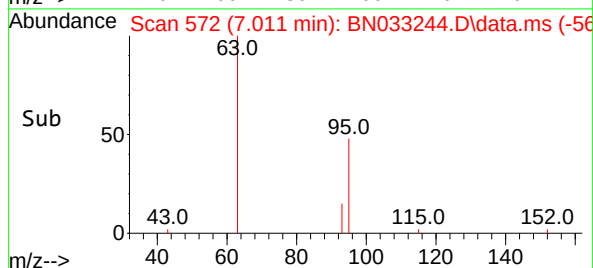
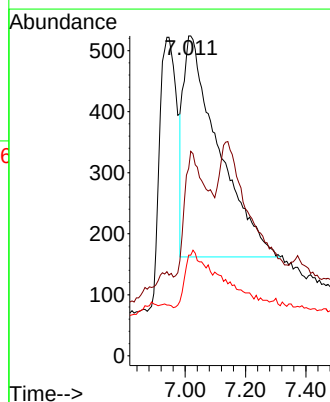
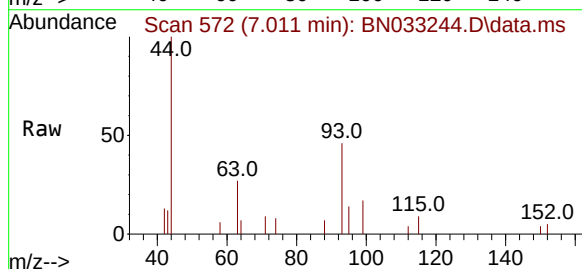
Manual Integrations
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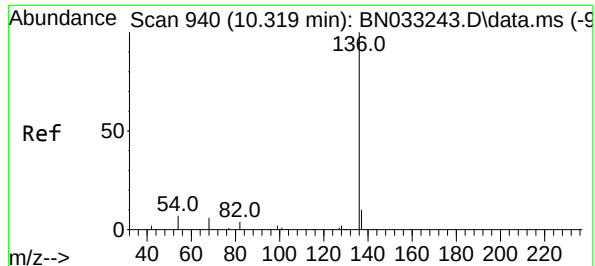
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.814 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.044 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion: 93 Resp: 2945
Ion Ratio Lower Upper
93 100
63 37.0 1.1 1.7#
95 15.5 0.0 0.0#





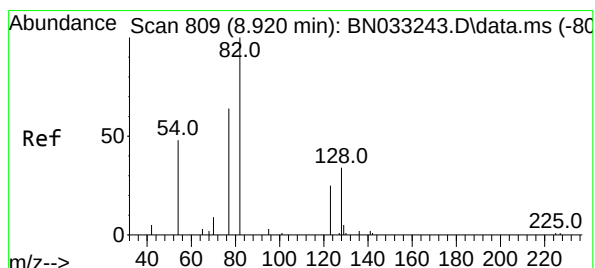
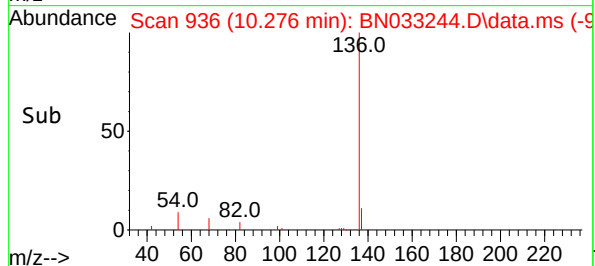
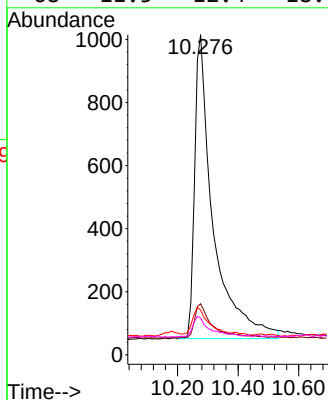
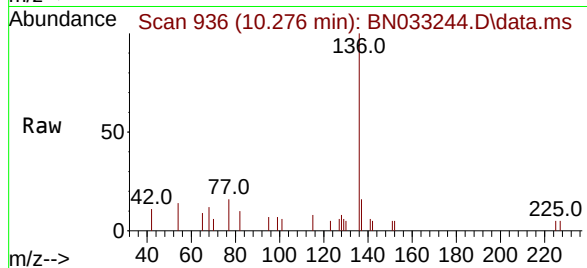
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.276 min Scan# 91
Delta R.T. -0.043 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
136	100		
137	16.0	14.1	21.1
54	14.0	13.8	20.8
68	11.5	12.4	18.6

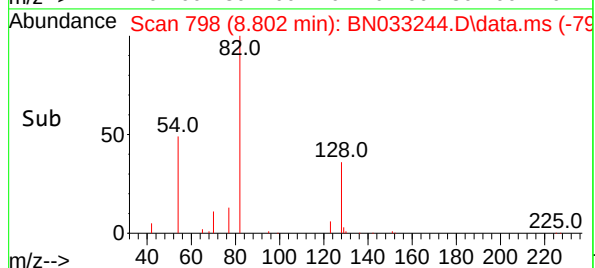
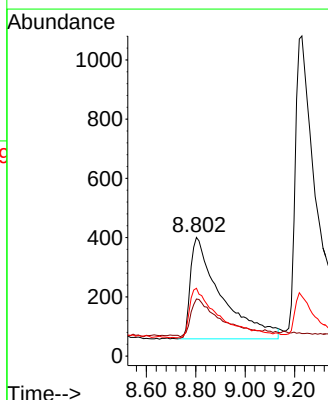
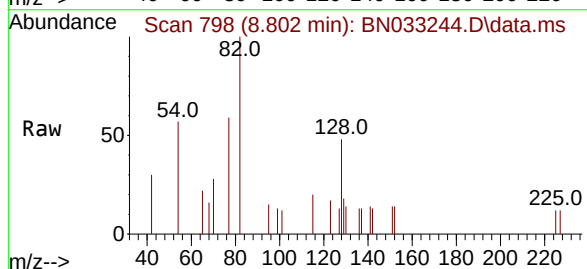
Manual Integrations
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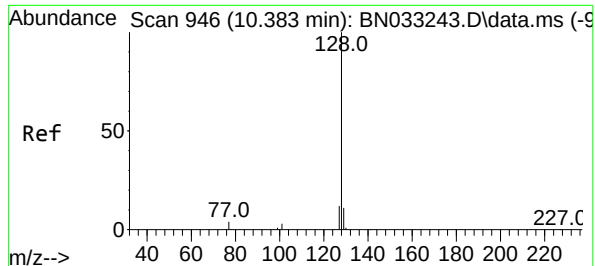
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.895 ng
RT: 8.802 min Scan# 798
Delta R.T. -0.118 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.1	54.8	82.2
54	57.1	55.9	83.9





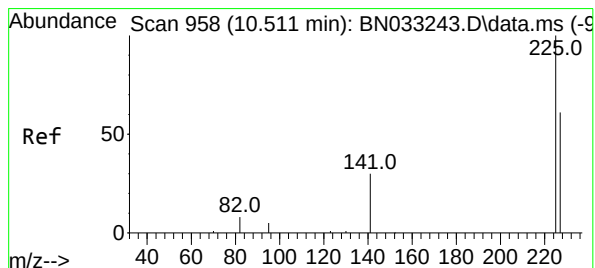
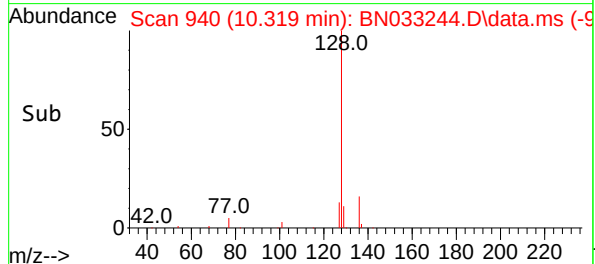
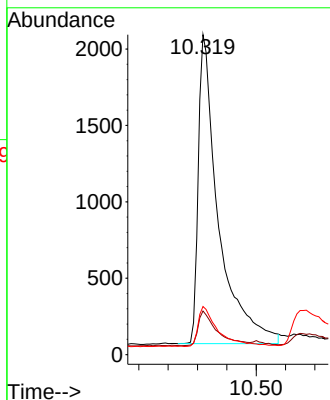
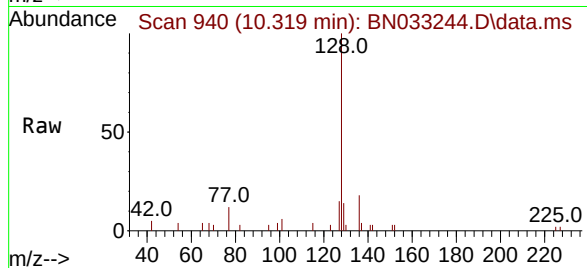
#9
Naphthalene
Concen: 0.868 ng
RT: 10.319 min Scan# 946
Delta R.T. -0.064 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 9630
Ion Ratio Lower Upper
128 100
129 13.7 15.4 23.0
127 15.0 15.8 23.6

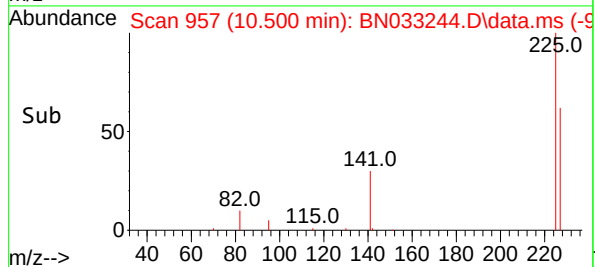
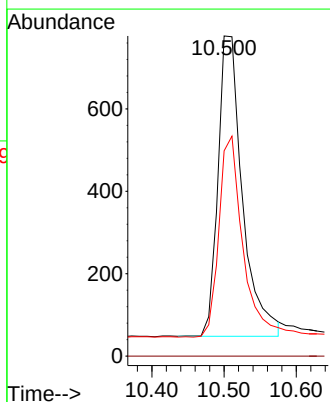
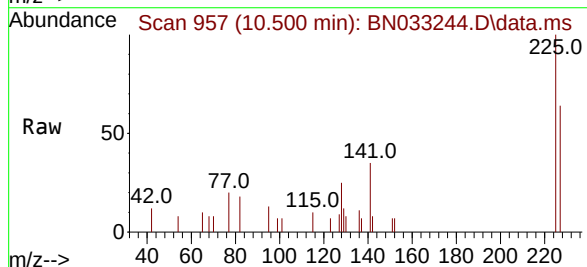
Manual Integrations
APPROVED

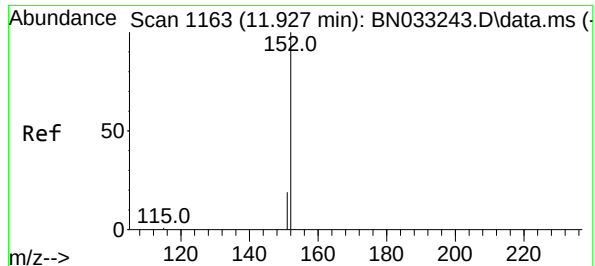
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.832 ng
RT: 10.500 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

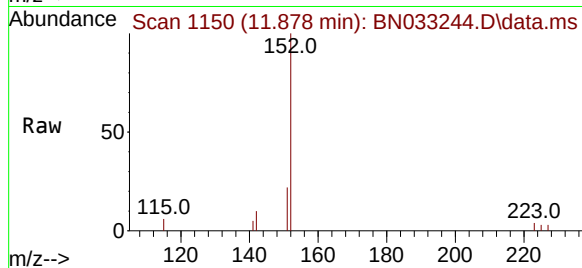
Tgt Ion:225 Resp: 1717
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.843 ng
RT: 11.878 min Scan# 1163
Delta R.T. -0.049 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

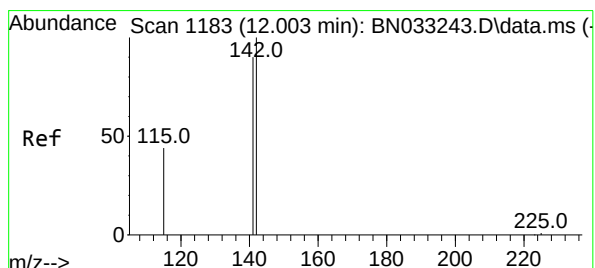
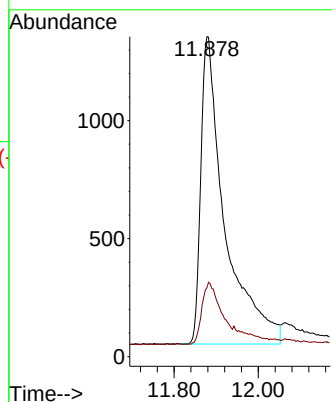
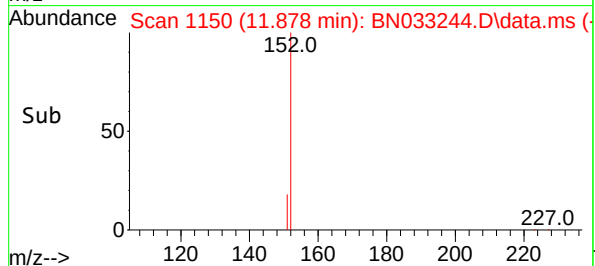
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 5160
Ion Ratio Lower Upper
152 100
151 20.0 11.9 17.9

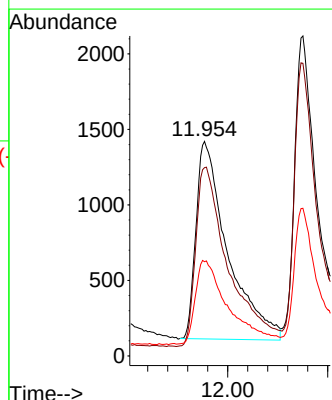
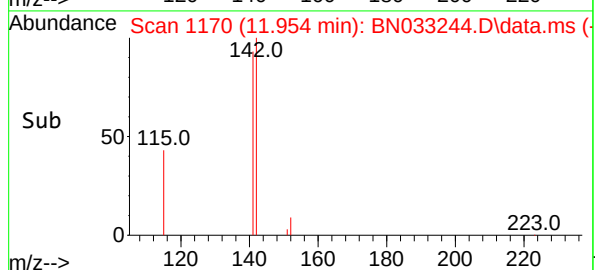
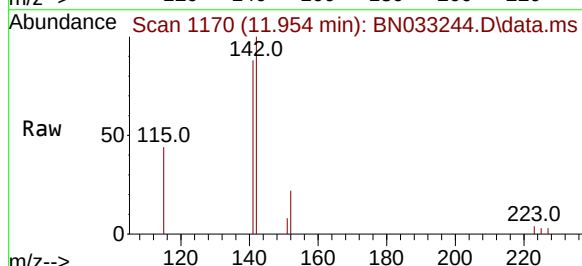
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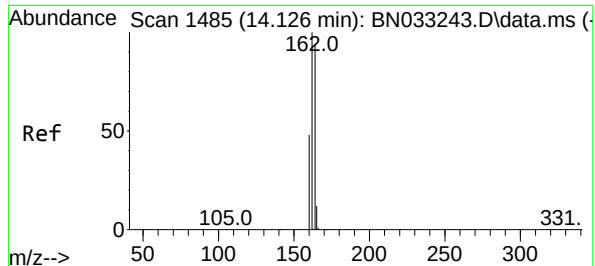
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.871 ng
RT: 11.954 min Scan# 1170
Delta R.T. -0.049 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

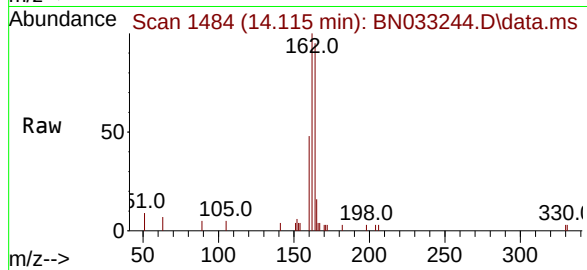
Tgt Ion:142 Resp: 5744
Ion Ratio Lower Upper
142 100
141 87.8 68.7 103.1
115 43.9 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.115 min Scan# 1484
Delta R.T. -0.011 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

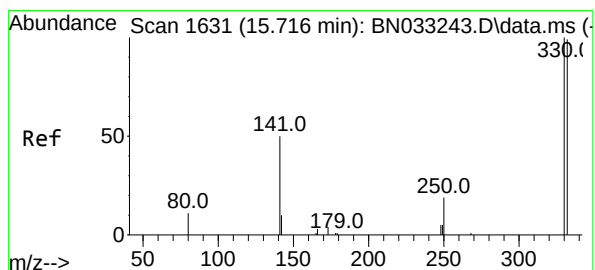
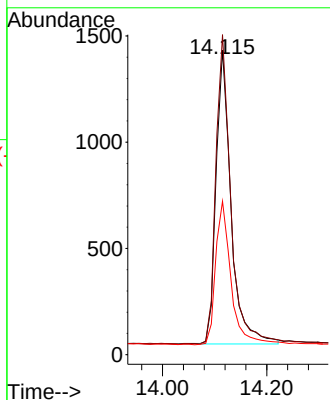
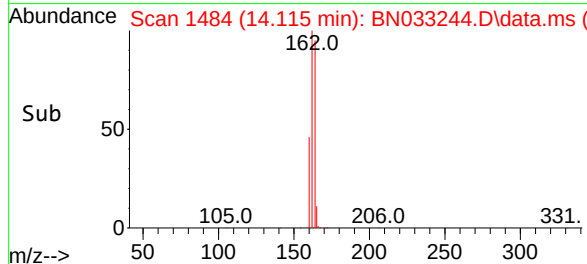
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8



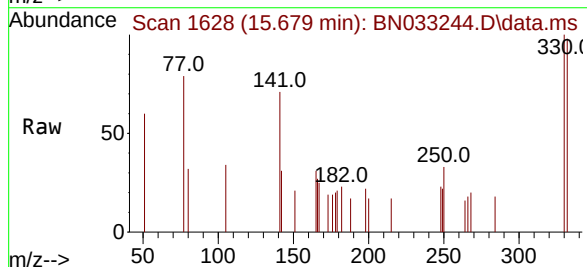
Tgt Ion:164 Resp: 276
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 50.3 42.4 63.6

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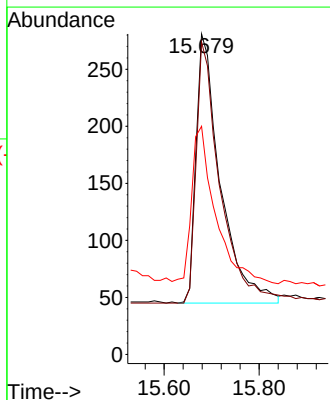
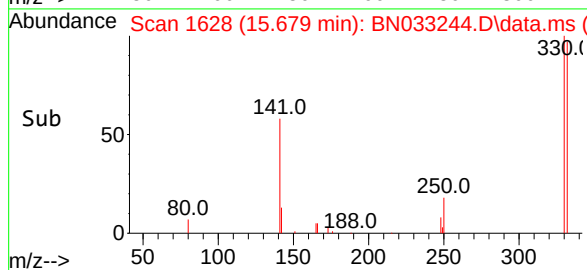
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

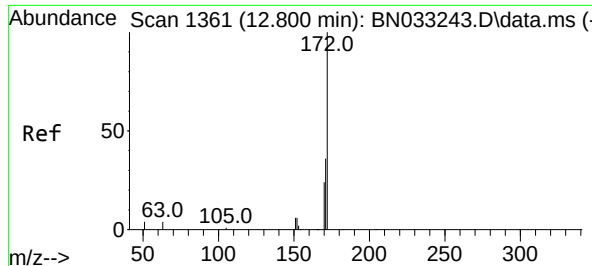


#14
2,4,6-Tribromophenol
Concen: 0.820 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.037 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30



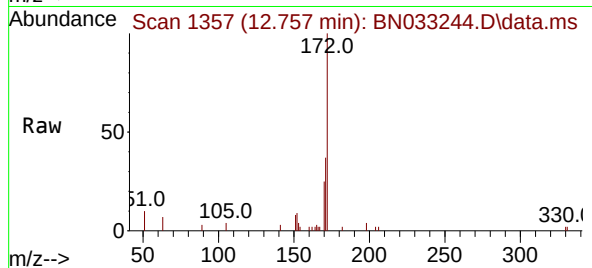
Tgt Ion:330 Resp: 842
Ion Ratio Lower Upper
330 100
332 95.1 73.7 110.5
141 56.8 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.887 ng
RT: 12.757 min Scan# 1459
Delta R.T. -0.043 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

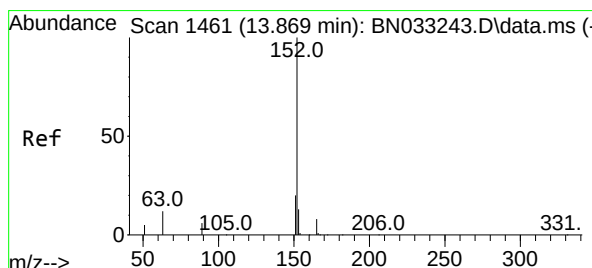
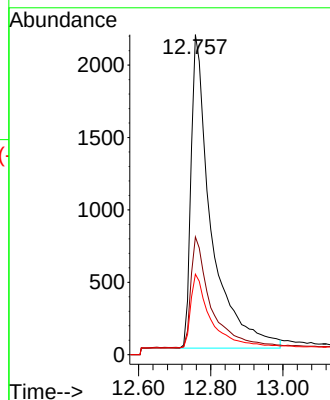
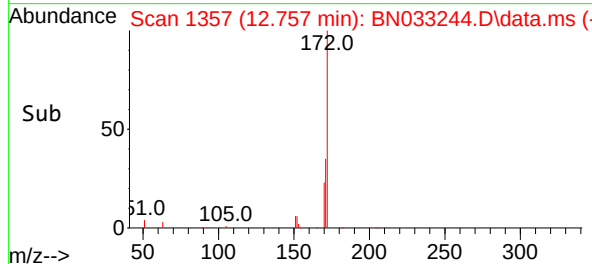
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:172 Resp: 841
Ion Ratio Lower Upper
172 100
171 36.8 32.3 48.5
170 25.2 23.4 35.2

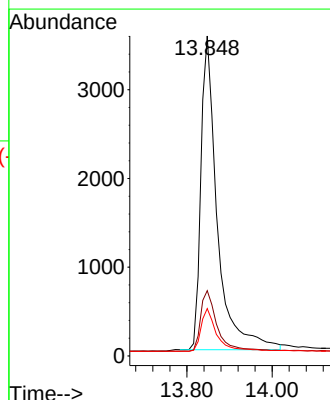
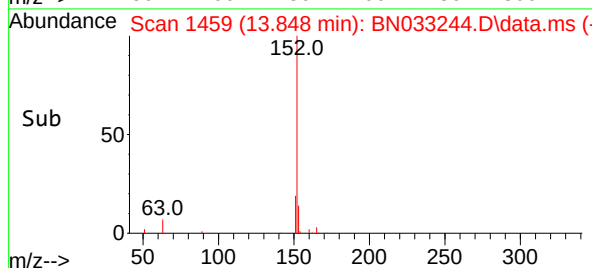
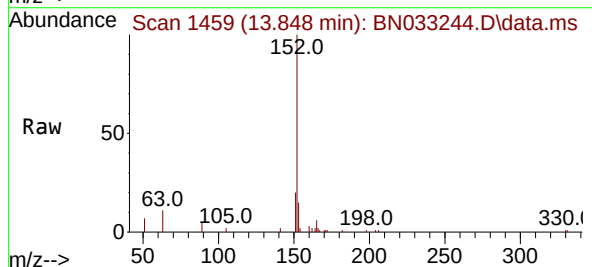
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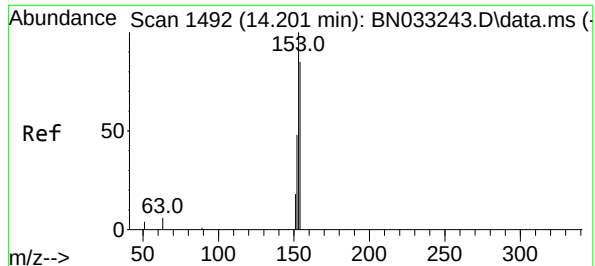
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.855 ng
RT: 13.848 min Scan# 1459
Delta R.T. -0.022 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

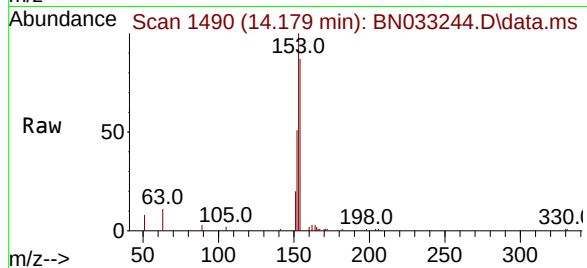
Tgt Ion:152 Resp: 9436
Ion Ratio Lower Upper
152 100
151 19.4 16.1 24.1
153 13.2 10.2 15.2





#17
Acenaphthene
Concen: 0.866 ng
RT: 14.179 min Scan# 1492
Delta R.T. -0.022 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

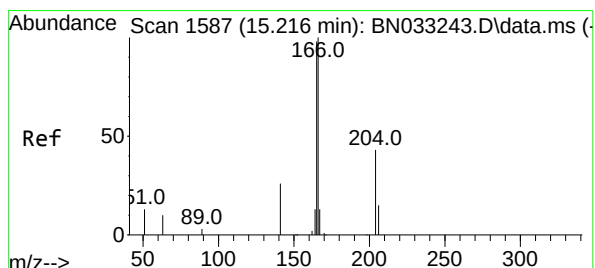
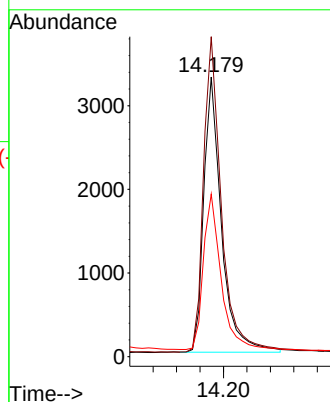
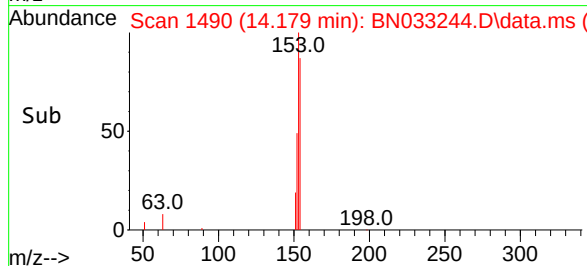
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:154 Resp: 690
Ion Ratio Lower Upper
154 100
153 115.7 92.7 139.1
152 56.1 44.0 66.0

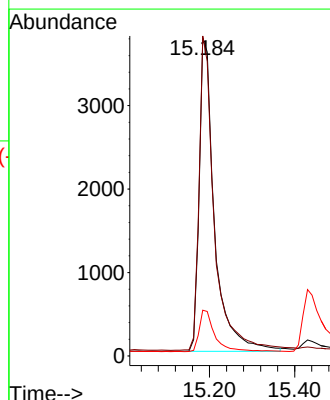
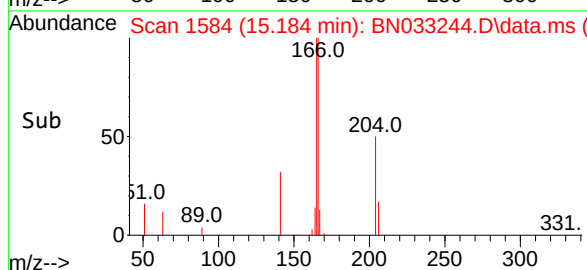
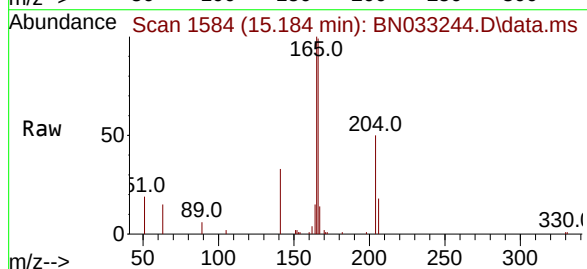
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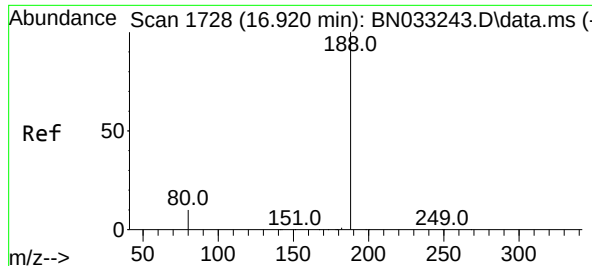
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.868 ng
RT: 15.184 min Scan# 1584
Delta R.T. -0.032 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion:166 Resp: 9364
Ion Ratio Lower Upper
166 100
165 98.8 79.6 119.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.895 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

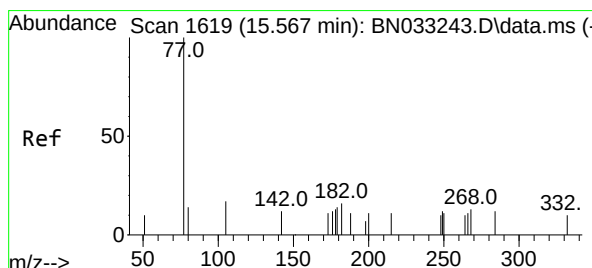
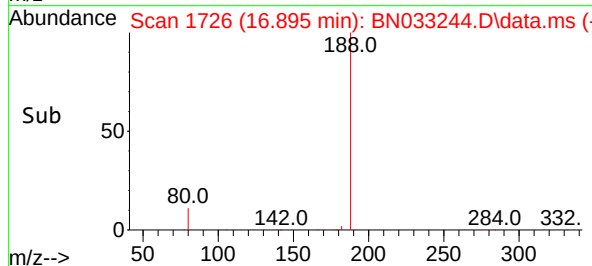
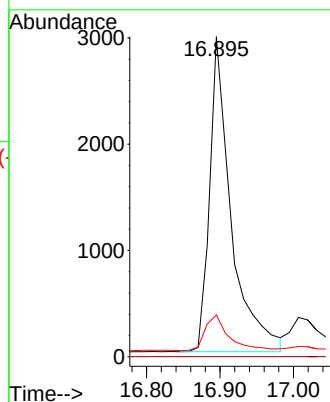
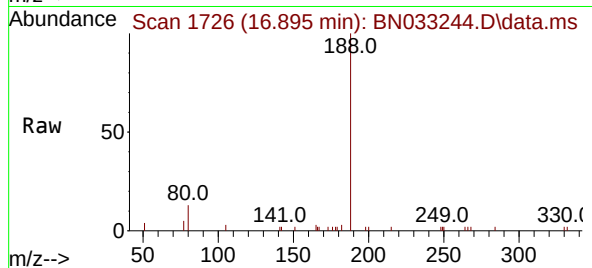
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	10.2	15.4

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Supervised By :mohammad ahmed 08/07/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.769 ng m

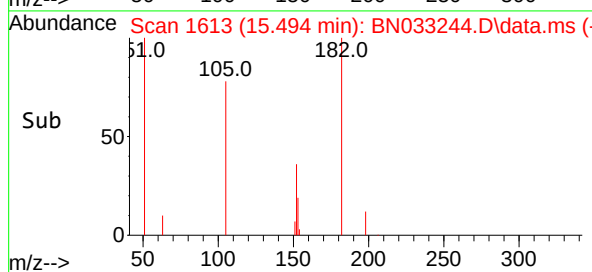
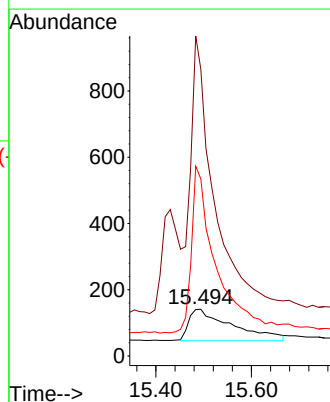
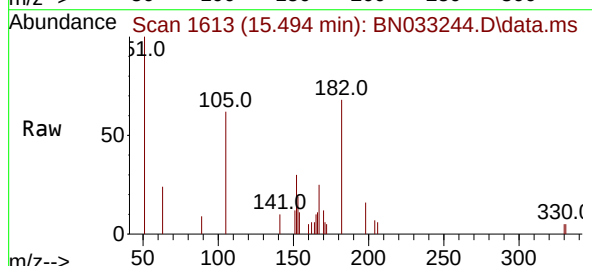
RT: 15.494 min Scan# 1613

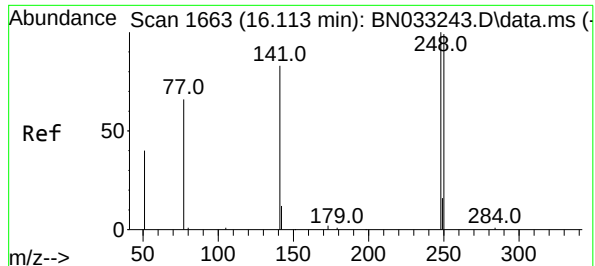
Delta R.T. -0.073 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

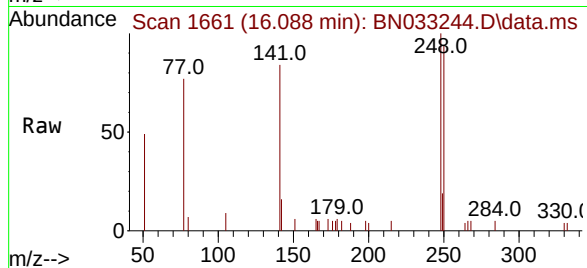
Tgt Ion	Ratio	Lower	Upper
198	100		
51	613.5	250.6	375.8#
105	378.7	152.6	229.0#





#21
4-Bromophenyl-phenylether
Concen: 0.904 ng
RT: 16.088 min Scan# 1661
Delta R.T. -0.025 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

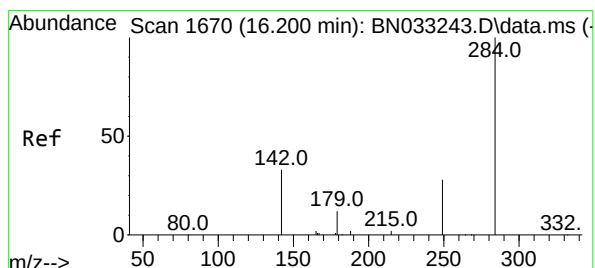
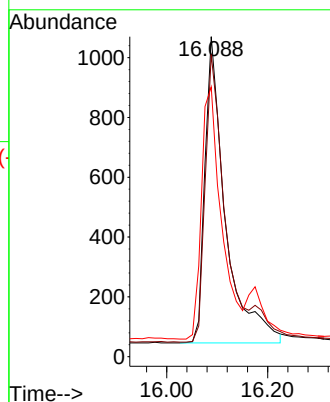
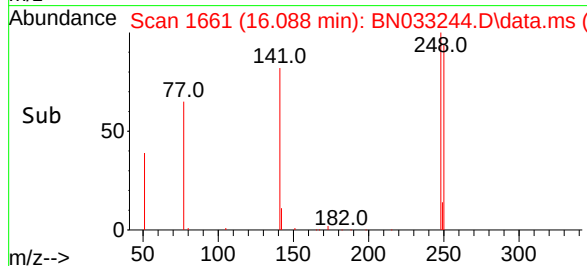
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:248 Resp: 2892
Ion Ratio Lower Upper
248 100
250 94.4 80.0 120.0
141 84.3 71.0 106.6

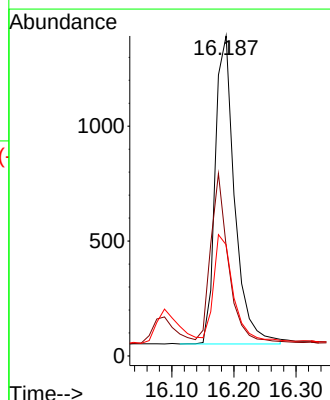
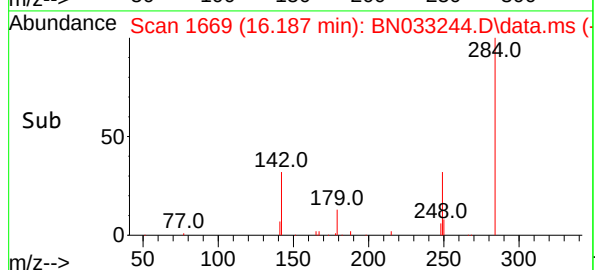
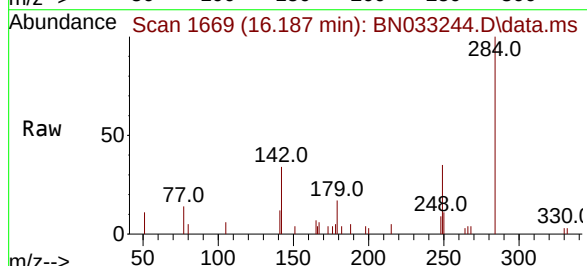
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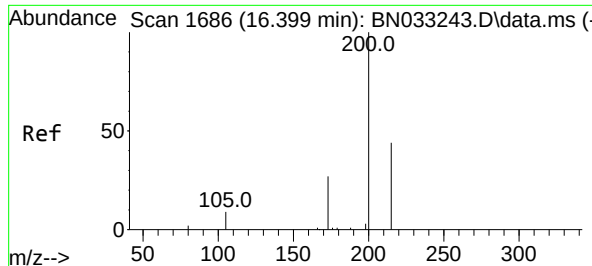
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.873 ng
RT: 16.187 min Scan# 1669
Delta R.T. -0.013 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

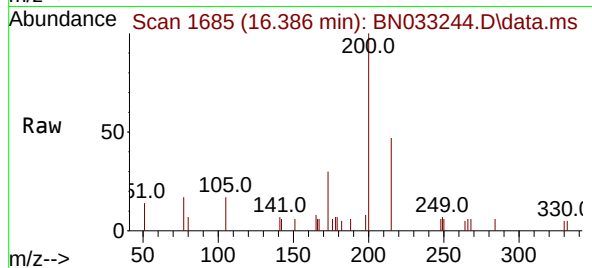
Tgt Ion:284 Resp: 2917
Ion Ratio Lower Upper
284 100
142 49.3 38.8 58.2
249 34.4 27.8 41.6





#23
Atrazine
Concen: 0.843 ng
RT: 16.386 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

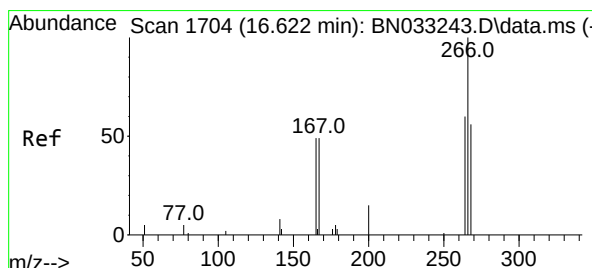
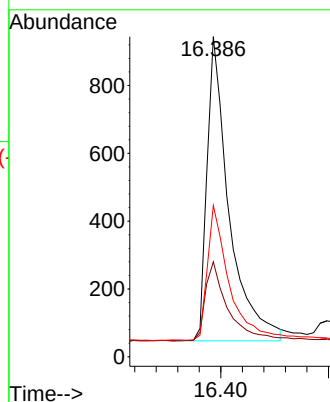
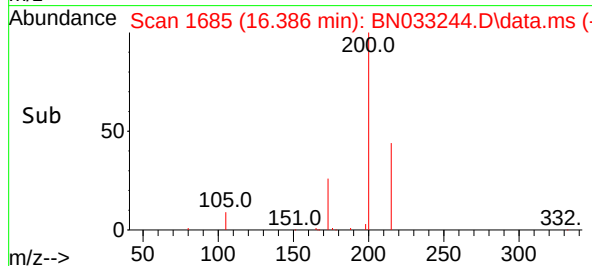
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:200 Resp: 254.2
Ion Ratio Lower Upper
200 100
173 29.7 29.2 43.8
215 47.2 41.5 62.3

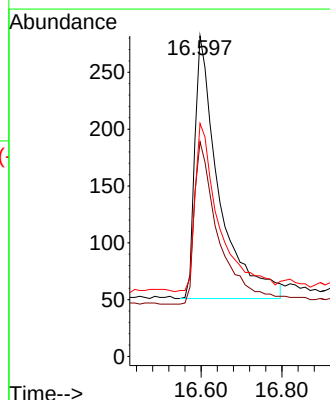
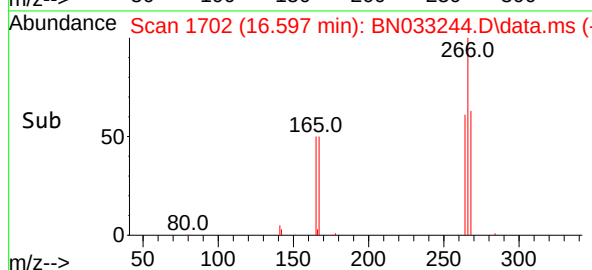
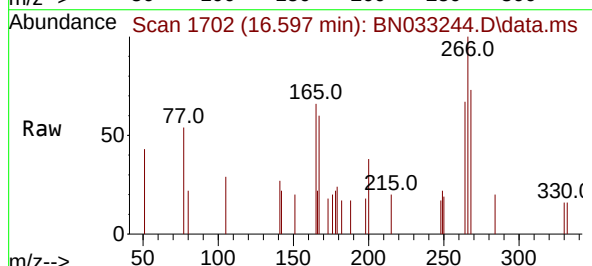
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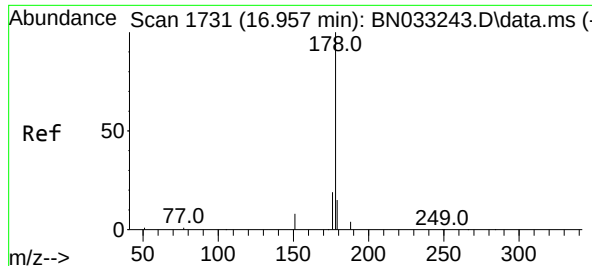
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.856 ng
RT: 16.597 min Scan# 1702
Delta R.T. -0.025 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

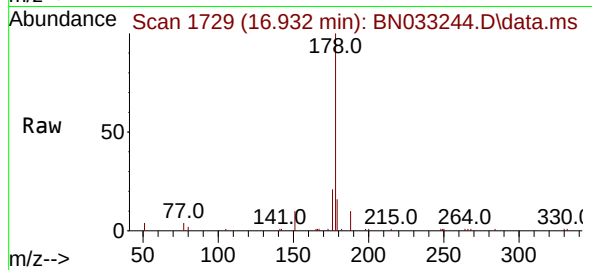
Tgt Ion:266 Resp: 957
Ion Ratio Lower Upper
266 100
264 62.7 49.3 73.9
268 64.3 50.2 75.2





#25
Phenanthrene
Concen: 0.861 ng
RT: 16.932 min Scan# 1730
Delta R.T. -0.025 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

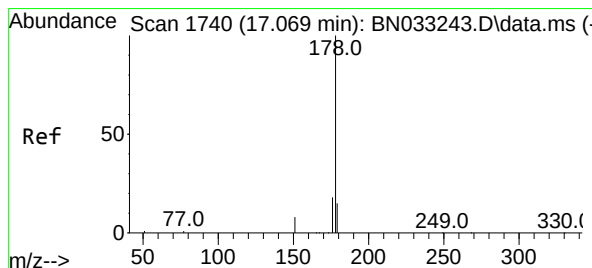
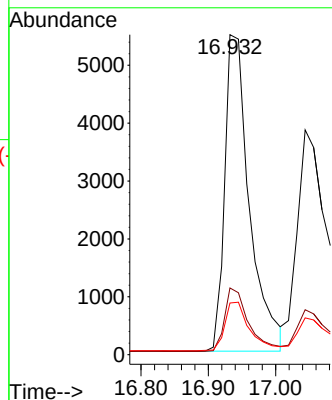
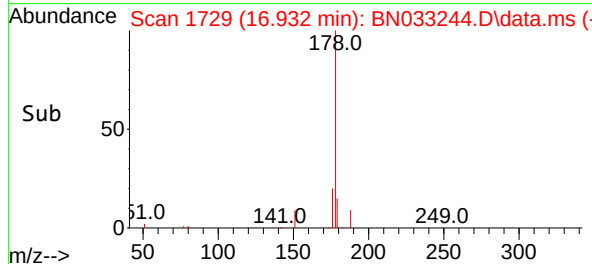
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:178 Resp: 1397
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.4 12.4 18.6

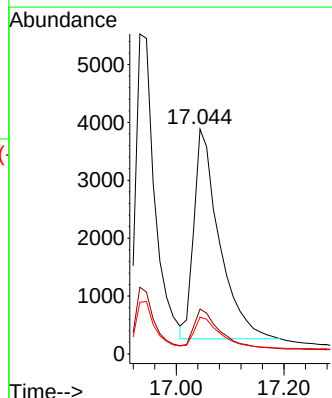
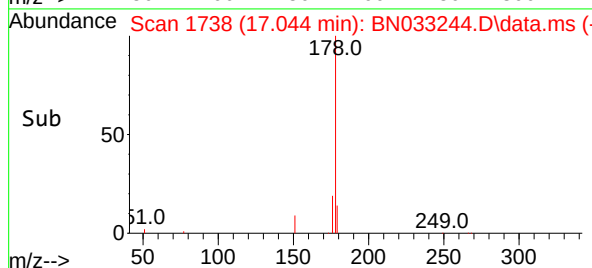
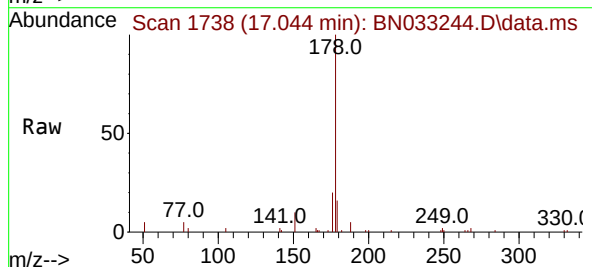
Manual Integrations
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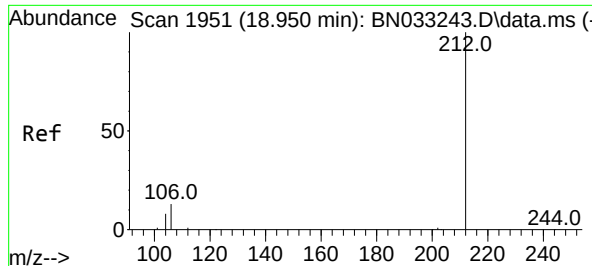
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.873 ng
RT: 17.044 min Scan# 1738
Delta R.T. -0.025 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion:178 Resp: 11873
Ion Ratio Lower Upper
178 100
176 19.3 10.5 15.7#
179 15.1 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.847 ng

RT: 18.936 min Scan# 1948

Delta R.T. -0.014 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

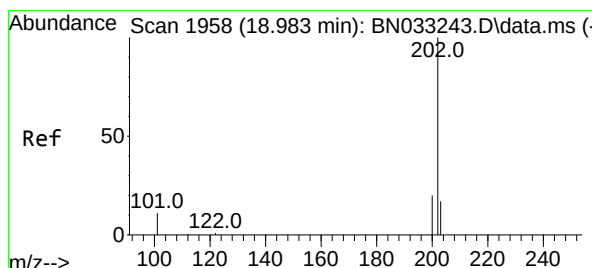
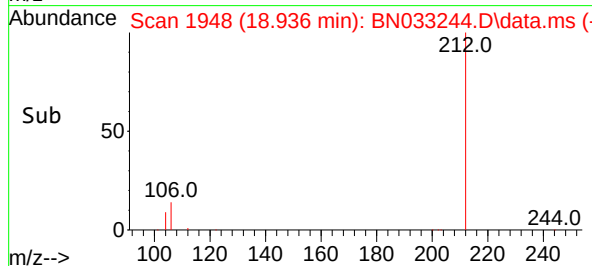
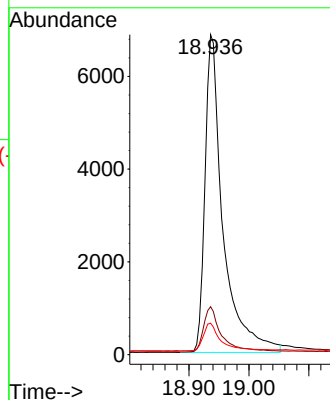
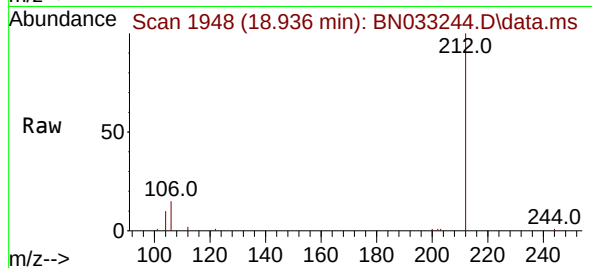
SSTDICC0.8

Tgt Ion:	212	Resp:	14290
Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.4	17.0
104	8.7	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.835 ng

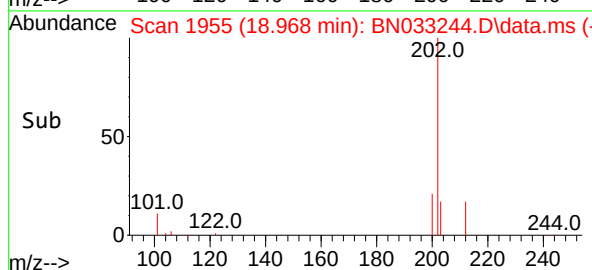
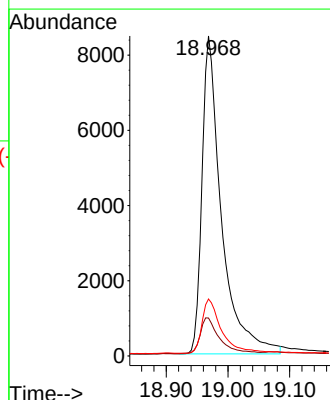
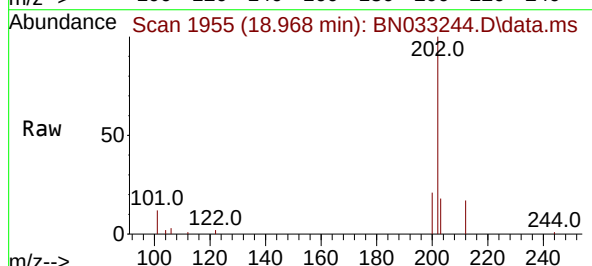
RT: 18.968 min Scan# 1955

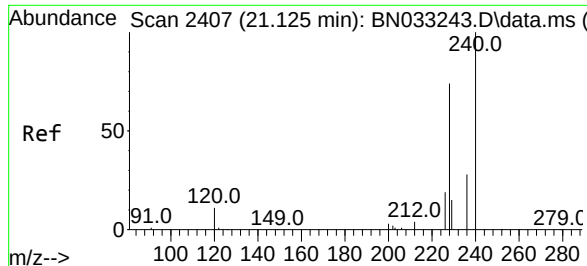
Delta R.T. -0.014 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Tgt Ion:	202	Resp:	18585
Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.6	13.0
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.115 min Scan# 2406

Delta R.T. -0.010 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

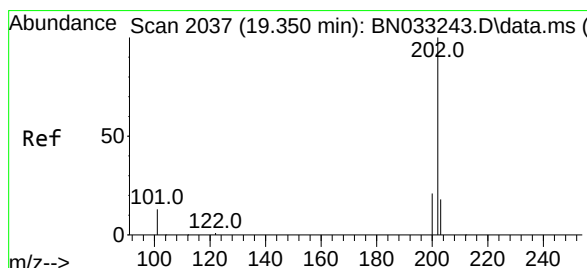
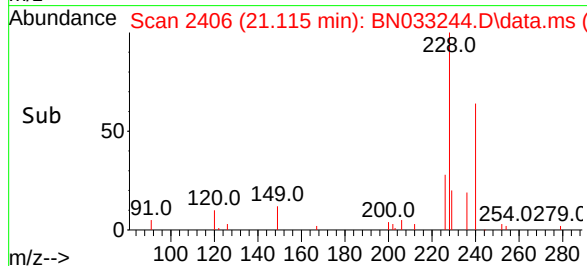
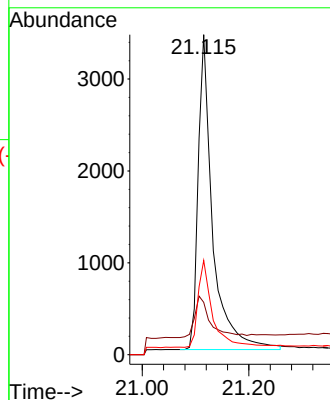
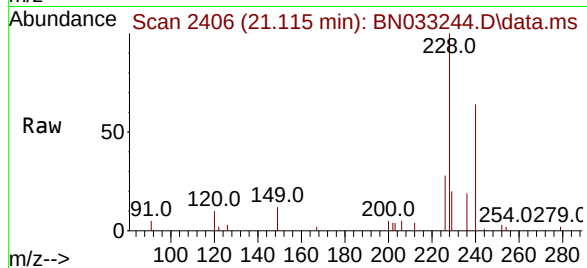
SSTDICC0.8

Tgt Ion:	240	Resp:	646
Ion Ratio	Lower	Upper	
240	100		
120	16.4	13.3	19.9
236	29.5	23.8	35.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.872 ng

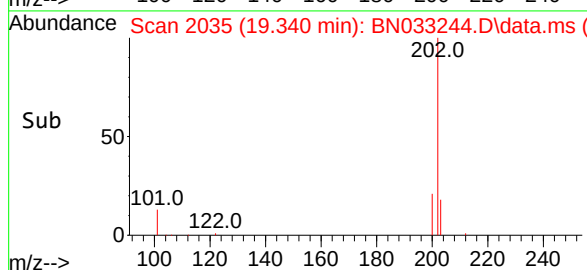
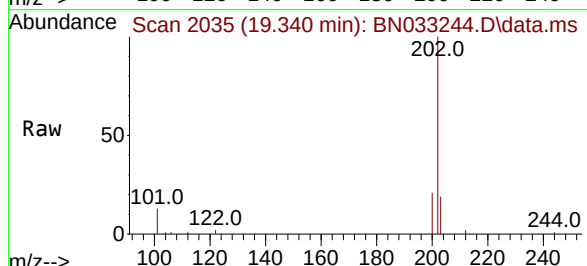
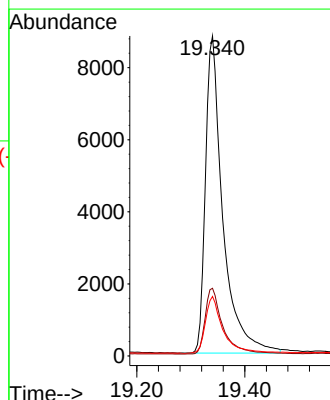
RT: 19.340 min Scan# 2035

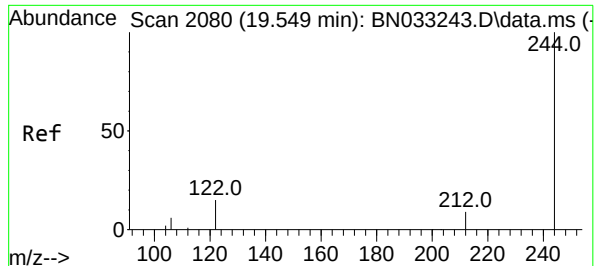
Delta R.T. -0.010 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Tgt Ion:	202	Resp:	19695
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.0	25.4
203	18.0	14.4	21.6





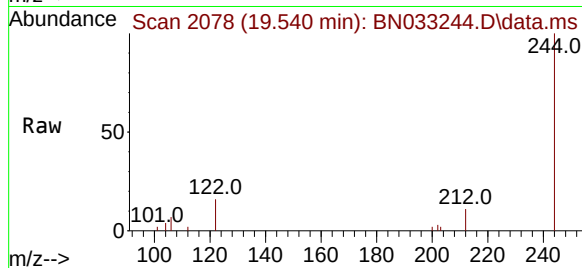
#31
Terphenyl-d14
Concen: 0.882 ng
RT: 19.540 min Scan# 2080
Delta R.T. -0.010 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

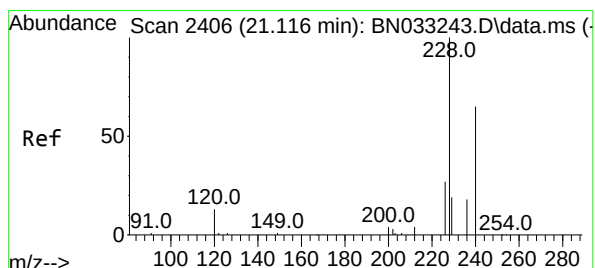
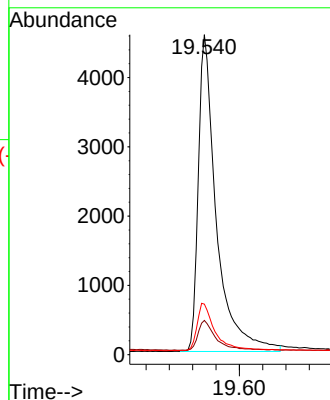
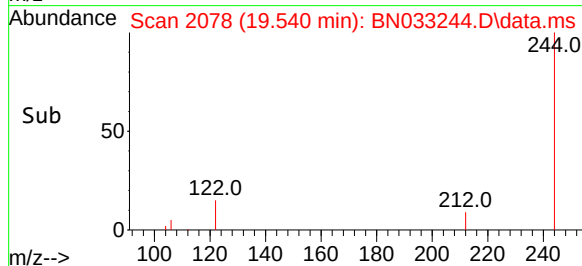


Tgt Ion:244 Resp: 9840
Ion Ratio Lower Upper
244 100
212 10.7 9.9 14.9
122 15.8 14.1 21.1

Manual Integrations

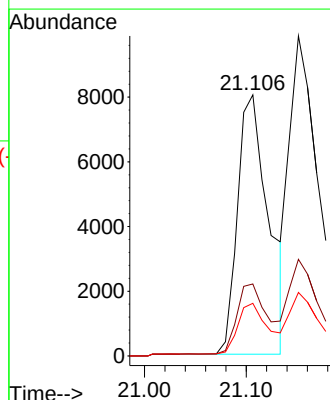
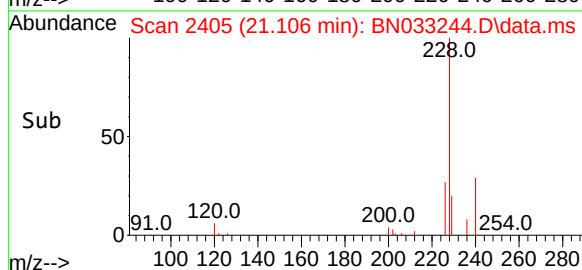
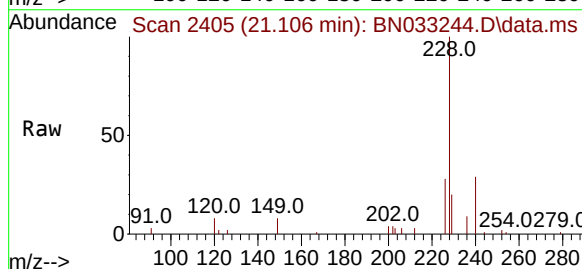
APPROVED

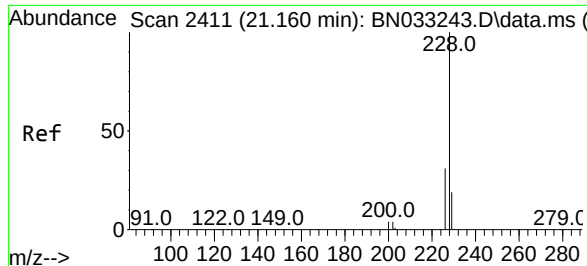
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.911 ng
RT: 21.106 min Scan# 2405
Delta R.T. -0.010 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion:228 Resp: 16950
Ion Ratio Lower Upper
228 100
226 27.5 22.4 33.6
229 20.2 16.6 25.0





#33

Chrysene

Concen: 0.848 ng

RT: 21.151 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

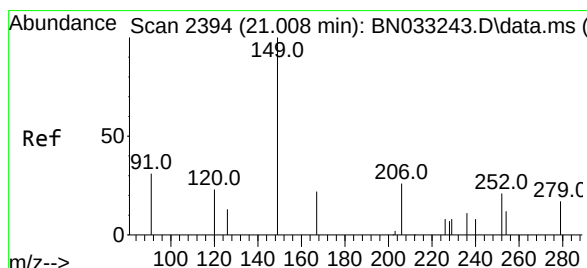
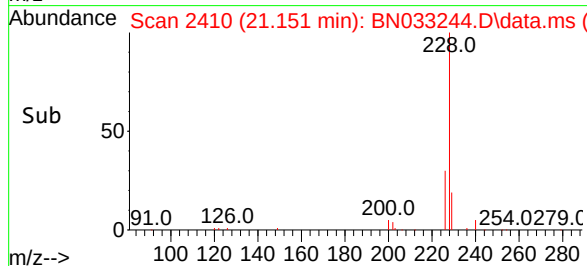
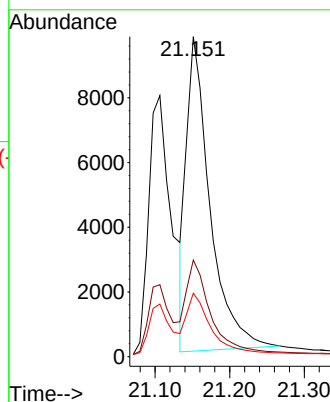
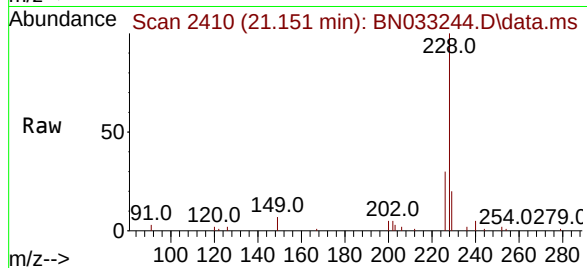
ClientSampleId :

SSTDICC0.8

Tgt Ion:	228	Resp:	21198
Ion Ratio	Lower	Upper	
228	100		
226	30.2	25.1	37.7
229	19.9	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.477 ng

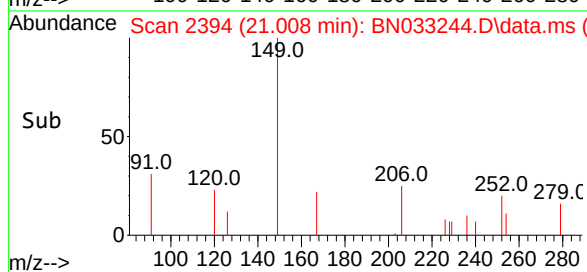
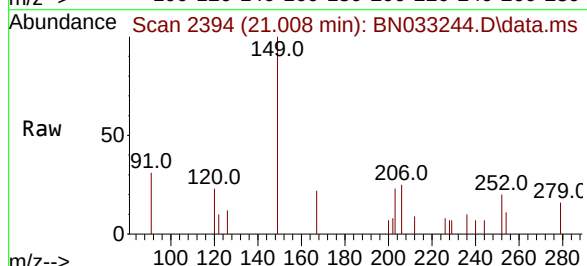
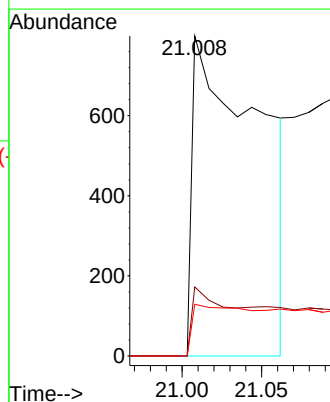
RT: 21.008 min Scan# 2394

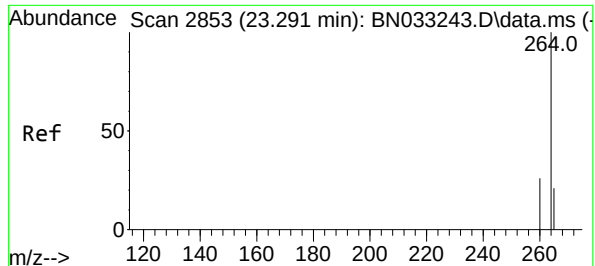
Delta R.T. -0.000 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

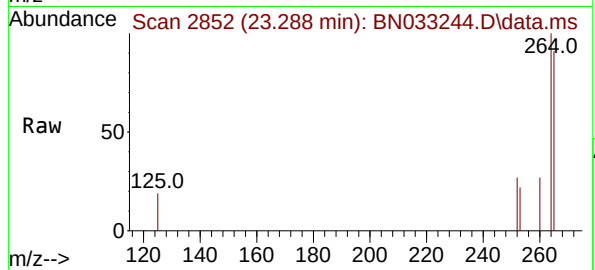
Tgt Ion:	149	Resp:	2134
Ion Ratio	Lower	Upper	
149	100		
167	11.2	19.8	29.6#
279	15.6	8.2	12.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.288 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

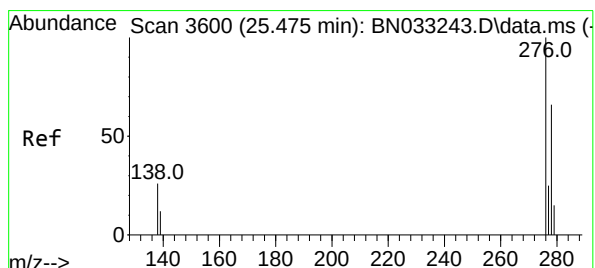
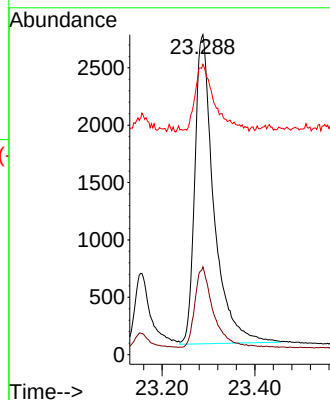
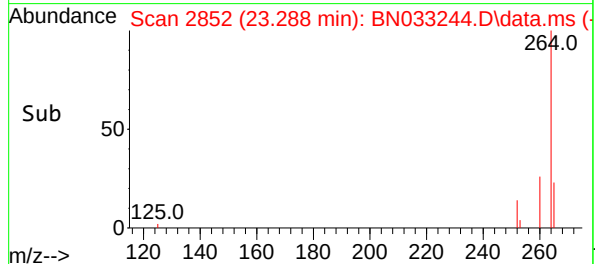
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8



Tgt Ion:264 Resp: 7672
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 90.7 66.6 99.8

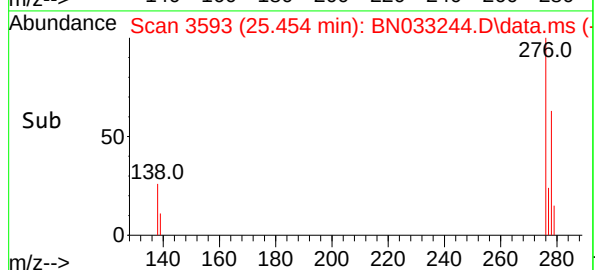
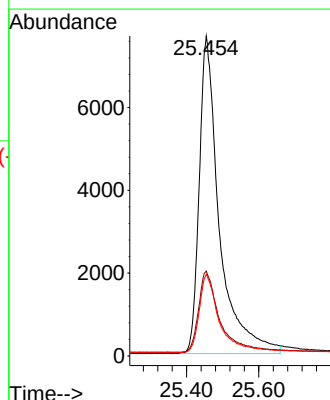
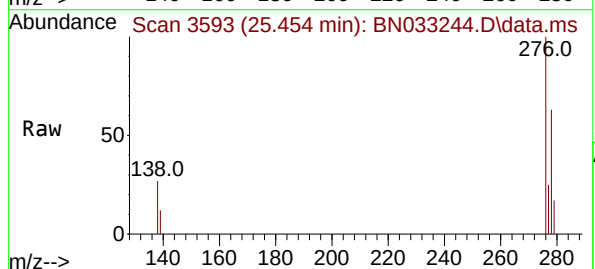
Manual Integrations
APPROVED

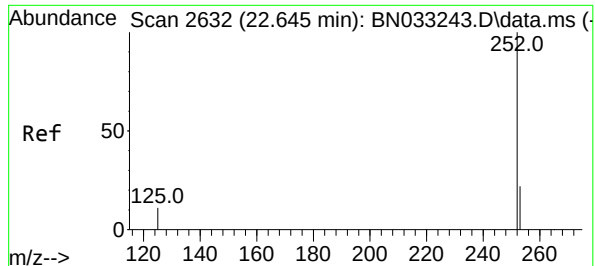
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.857 ng
RT: 25.454 min Scan# 3593
Delta R.T. -0.021 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Tgt Ion:276 Resp: 29716
Ion Ratio Lower Upper
276 100
138 27.0 20.4 30.6
277 24.6 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 0.876 ng

RT: 22.633 min Scan# 2632

Delta R.T. -0.012 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

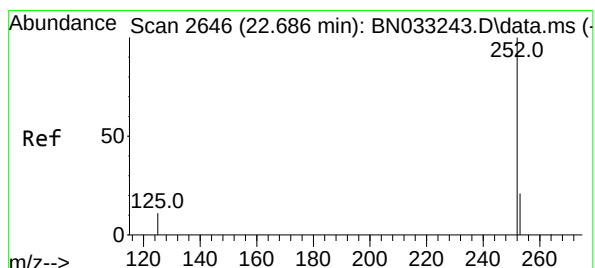
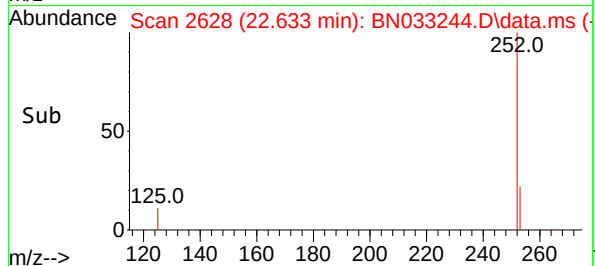
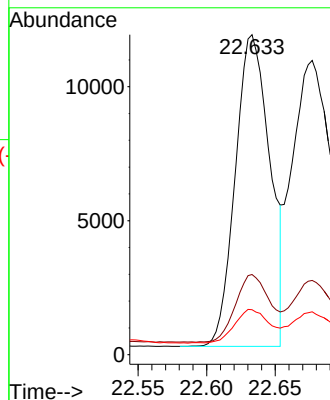
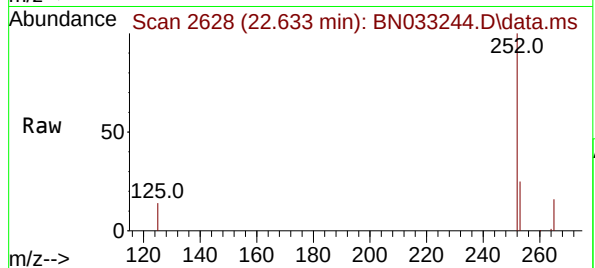
SSTDIC0.8

Tgt Ion:252	Resp:	20392
Ion Ratio	Lower	Upper
252	100	
253	25.0	23.3 34.9
125	14.0	14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.875 ng

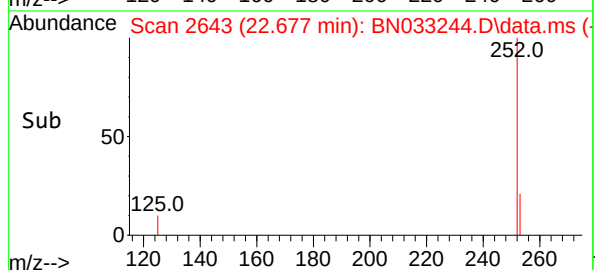
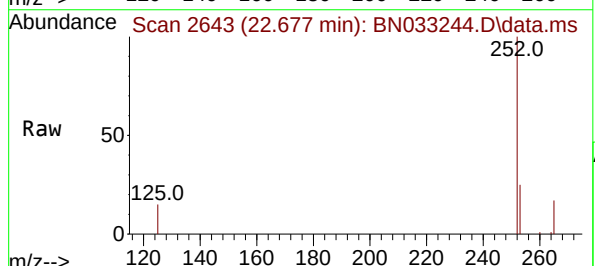
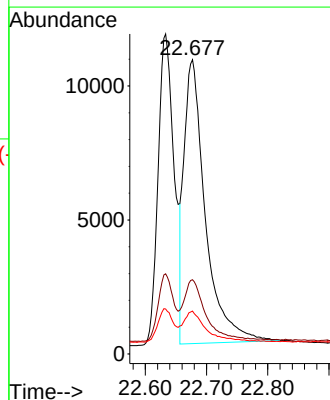
RT: 22.677 min Scan# 2643

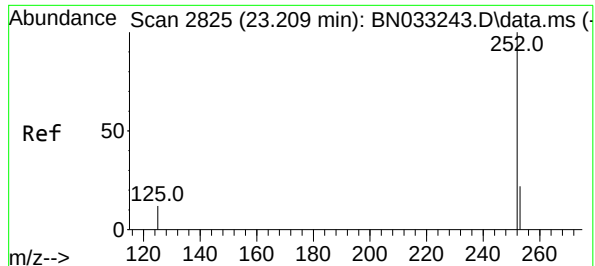
Delta R.T. -0.009 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Tgt Ion:252	Resp:	25641
Ion Ratio	Lower	Upper
252	100	
253	25.2	23.7 35.5
125	14.6	15.4 23.0





#39

Benzo(a)pyrene

Concen: 0.859 ng

RT: 23.200 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033244.D

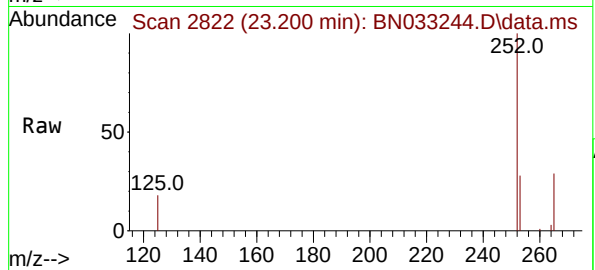
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

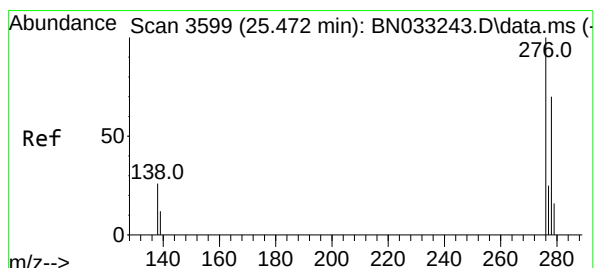
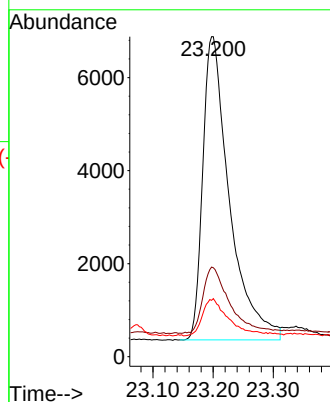
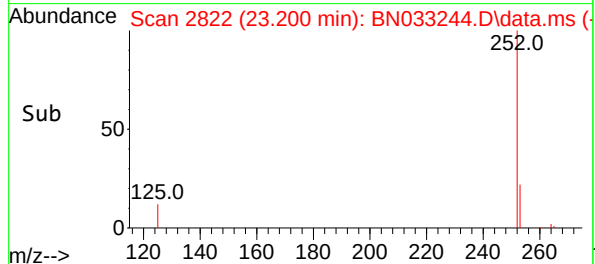


Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.8	28.4	42.6
125	18.2	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.853 ng

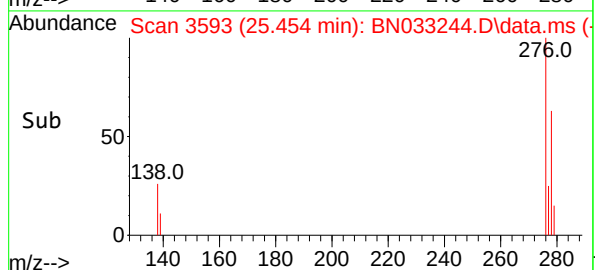
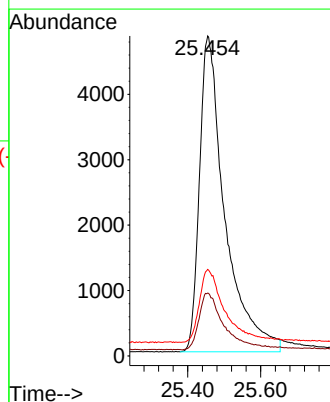
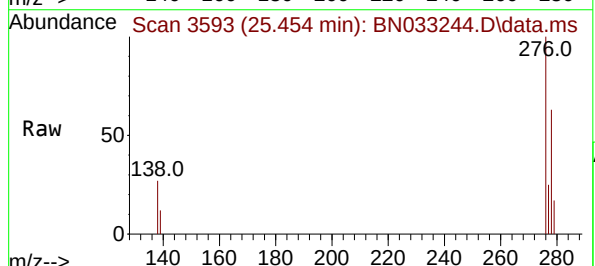
RT: 25.454 min Scan# 3593

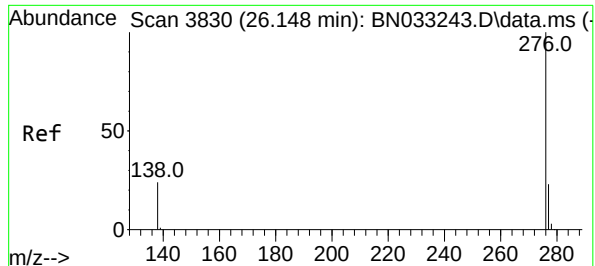
Delta R.T. -0.018 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.6	16.7	25.1
279	27.0	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.860 ng

RT: 26.127 min Scan# 3823

Delta R.T. -0.021 min

Lab File: BN033244.D

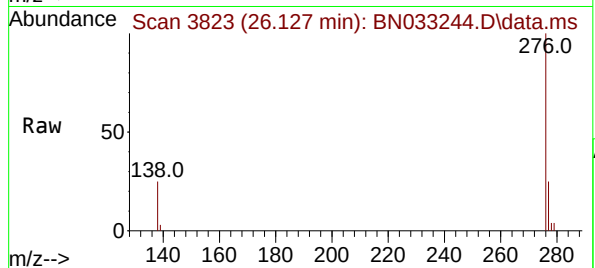
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 27000

Ion Ratio Lower Upper

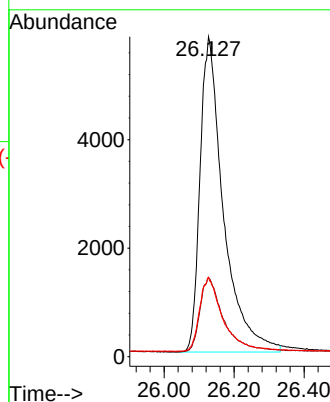
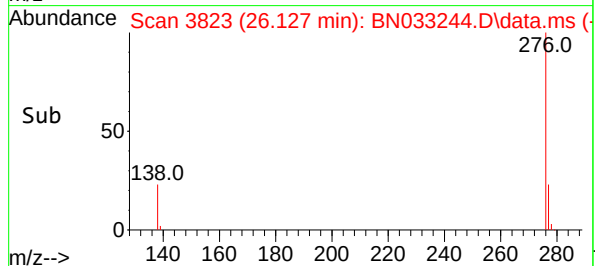
276 100

277 24.7 21.0 31.4

138 24.9 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033245.D
 Acq On : 05 Aug 2024 21:07
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:44:22 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.474	152	1116	0.400	ng	-0.04
7) Naphthalene-d8	10.244	136	3936	0.400	ng	#-0.07
13) Acenaphthene-d10	14.101	164	2680	0.400	ng	-0.03
19) Phenanthrene-d10	16.890	188	5864	0.400	ng	-0.03
29) Chrysene-d12	21.104	240	6449	0.400	ng	-0.02
35) Perylene-d12	23.280	264	7359	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	4642m	1.668	ng	-0.07
5) Phenol-d6	6.788	99	6469m	1.709	ng	-0.20
8) Nitrobenzene-d5	8.728	82	5741	1.800	ng	-0.19
11) 2-Methylnaphthalene-d10	11.848	152	10073	1.708	ng	-0.08
14) 2,4,6-Tribromophenol	15.661	330	1656	1.665	ng	-0.06
15) 2-Fluorobiphenyl	12.732	172	15960	1.737	ng	-0.07
27) Fluoranthene-d10	18.929	212	27262	1.662	ng	-0.02
31) Terphenyl-d14	19.533	244	18805	1.688	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.047	88	2463	1.766	ng	95
3) n-Nitrosodimethylamine	3.429	42	2236	1.643	ng	# 84
6) bis(2-Chloroethyl)ether	6.968	93	6447	1.836	ng	# 11
9) Naphthalene	10.287	128	18011	1.684	ng	# 86
10) Hexachlorobutadiene	10.500	225	3223m	1.622	ng	
12) 2-Methylnaphthalene	11.928	142	11647	1.832	ng	93
16) Acenaphthylene	13.834	152	18666	1.745	ng	99
17) Acenaphthene	14.165	154	13093	1.696	ng	99
18) Fluorene	15.170	166	17880	1.712	ng	100
20) 4,6-Dinitro-2-methylph...	15.437	198	1462m	1.547	ng	
21) 4-Bromophenyl-phenylether	16.071	248	5488	1.764	ng	96
22) Hexachlorobenzene	16.170	284	5490	1.690	ng	99
23) Atrazine	16.369	200	4801	1.639	ng	90
24) Pentachlorophenol	16.580	266	1962	1.806	ng	99
25) Phenanthrene	16.927	178	26931	1.707	ng	100
26) Anthracene	17.026	178	23929	1.810	ng	# 87
28) Fluoranthene	18.962	202	35521	1.642	ng	99
30) Pyrene	19.333	202	37401	1.659	ng	100
32) Benzo(a)anthracene	21.095	228	31989	1.722	ng	99
33) Chrysene	21.140	228	40041	1.605	ng	99
34) Bis(2-ethylhexyl)phtha...	21.006	149	1926	0.432	ng	95
36) Indeno(1,2,3-cd)pyrene	25.438	276	56857	1.709	ng	98
37) Benzo(b)fluoranthene	22.622	252	40817	1.829	ng	# 88
38) Benzo(k)fluoranthene	22.666	252	48357	1.720	ng	# 88
39) Benzo(a)pyrene	23.187	252	38767	1.729	ng	# 80
40) Dibenzo(a,h)anthracene	25.438	278	44999	1.713	ng	# 91
41) Benzo(g,h,i)perylene	26.113	276	50746	1.686	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033245.D
Acq On : 05 Aug 2024 21:07
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

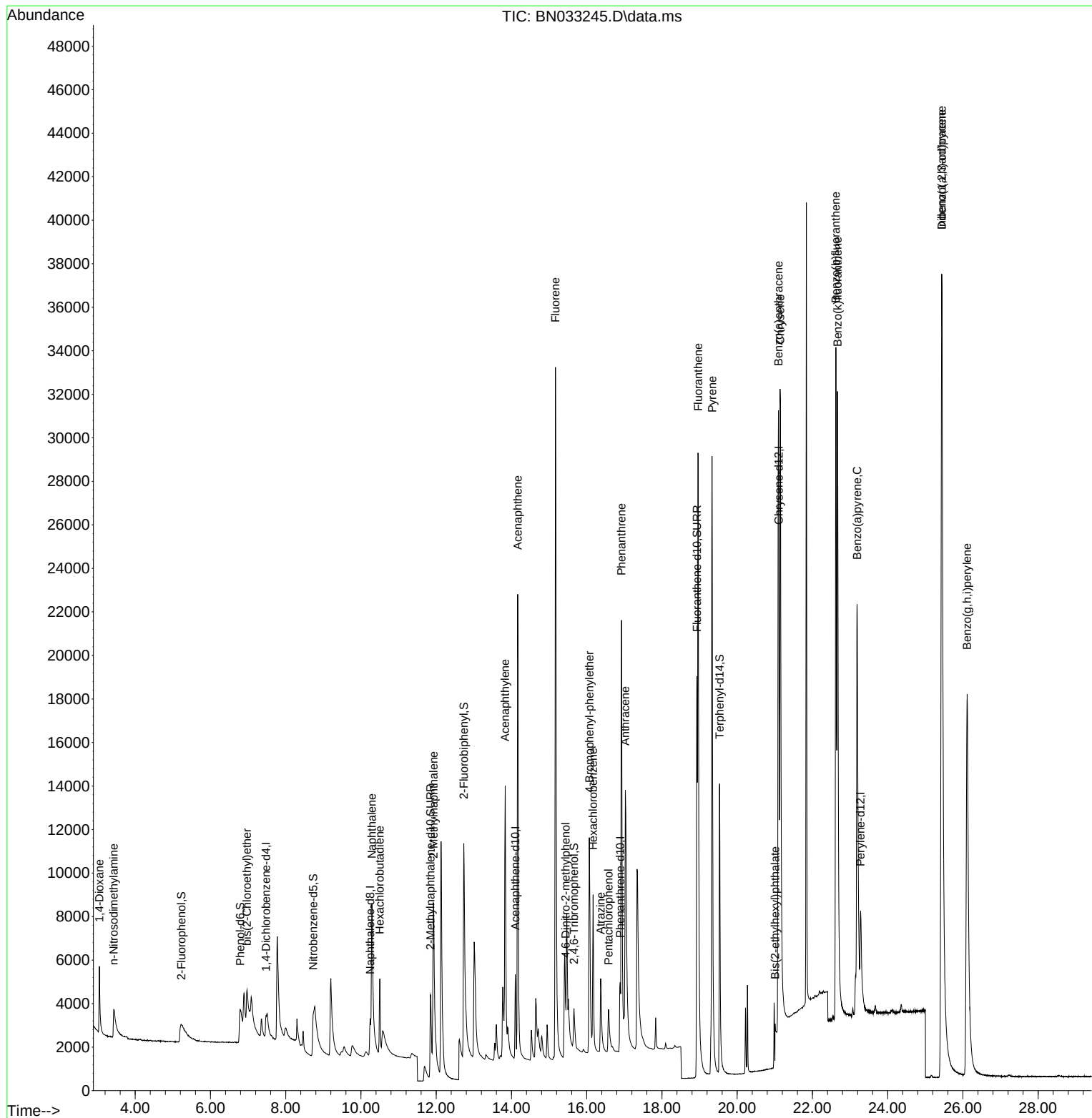
SSTDICC1.6

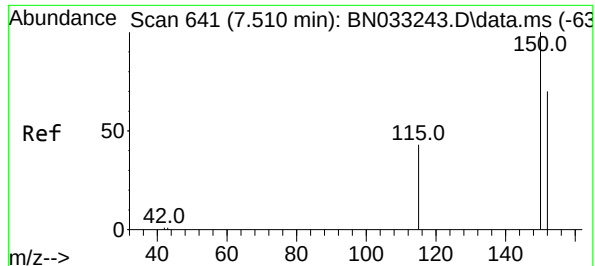
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

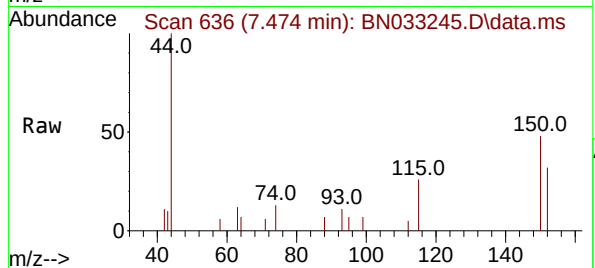
Quant Time: Aug 05 23:44:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.474 min Scan# 61
Delta R.T. -0.036 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

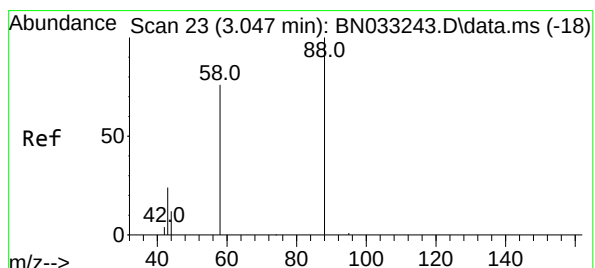
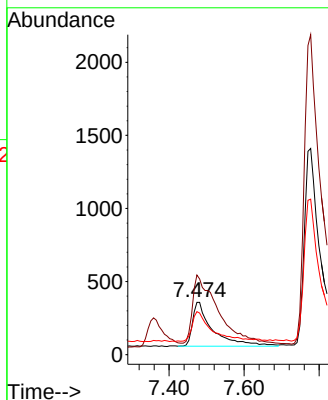
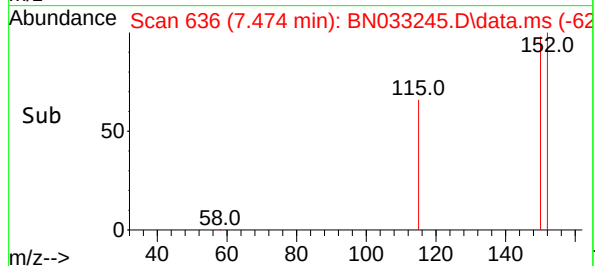
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 1110
Ion Ratio Lower Upper
152 100
150 152.2 108.2 162.2
115 82.1 70.5 105.7

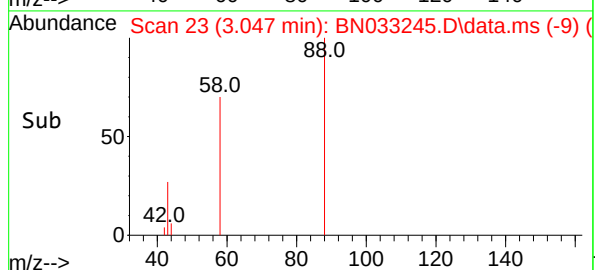
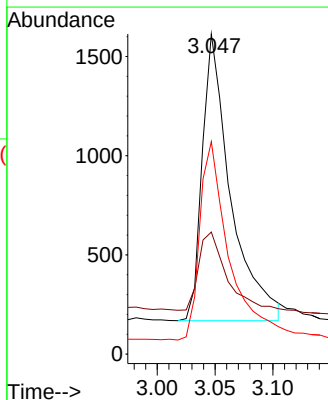
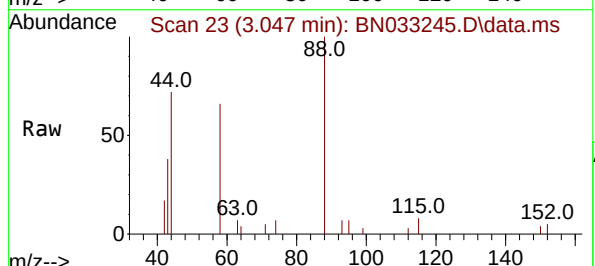
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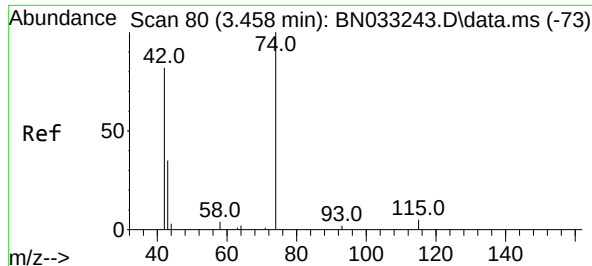
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 1.766 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

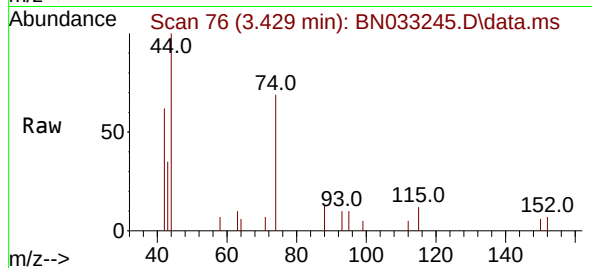
Tgt Ion: 88 Resp: 2463
Ion Ratio Lower Upper
88 100
43 26.7 18.6 28.0
58 71.3 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 1.643 ng
RT: 3.429 min Scan# 70
Delta R.T. -0.029 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

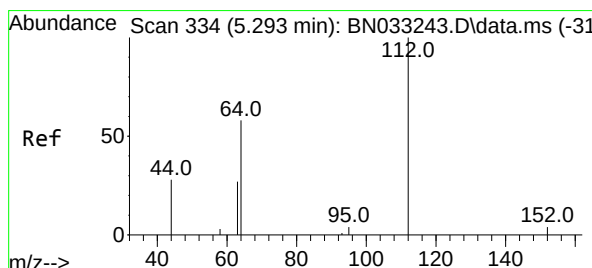
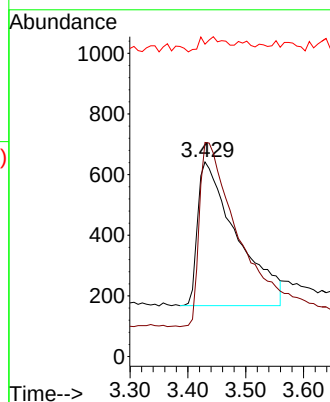
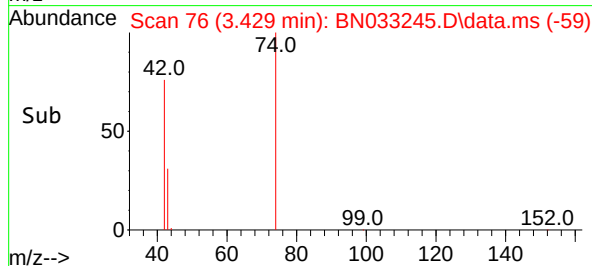
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 42 Resp: 2230
Ion Ratio Lower Upper
42 100
74 129.3 0.0 0.0#
44 5.9 9.6 14.4#

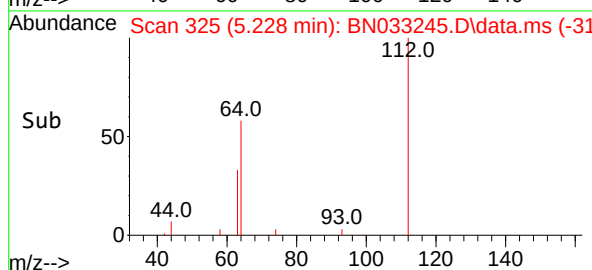
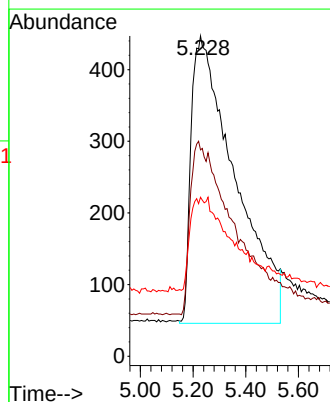
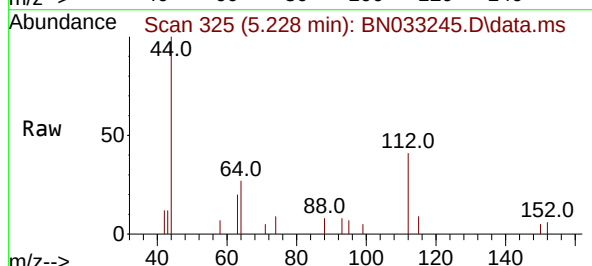
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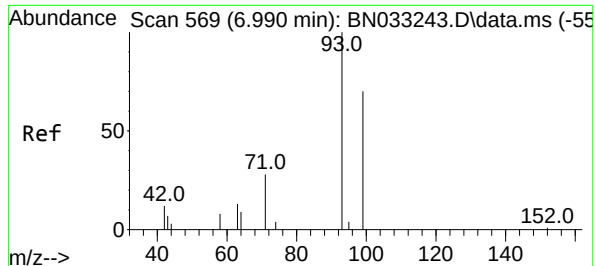
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 1.668 ng m
RT: 5.228 min Scan# 325
Delta R.T. -0.065 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

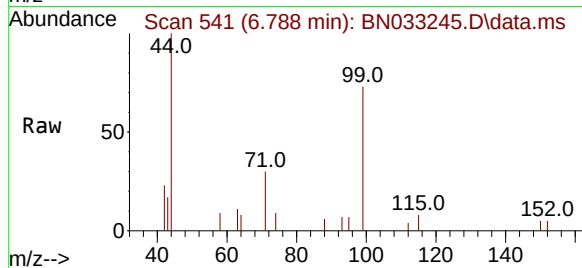
Tgt Ion:112 Resp: 4642
Ion Ratio Lower Upper
112 100
64 53.3 18.0 27.0#
63 6.8 0.0 0.0#





#5
Phenol-d6
Concen: 1.709 ng m
RT: 6.788 min Scan# 541
Delta R.T. -0.202 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

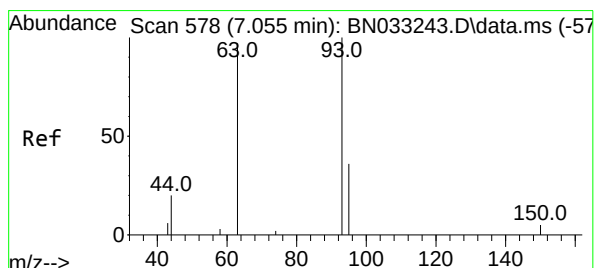
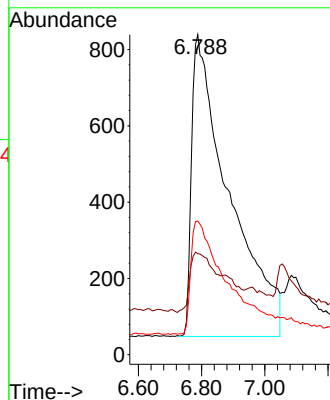
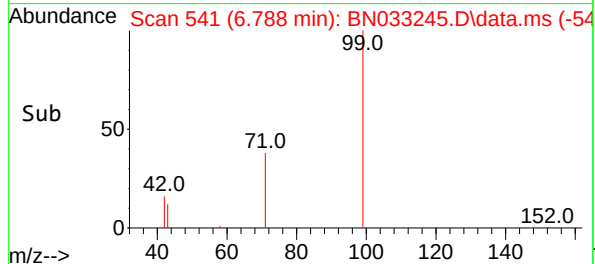
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 99 Resp: 6469
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 0.0 0.0 0.0

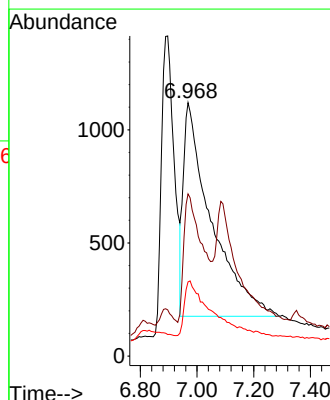
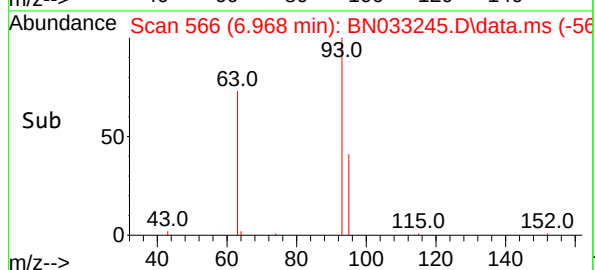
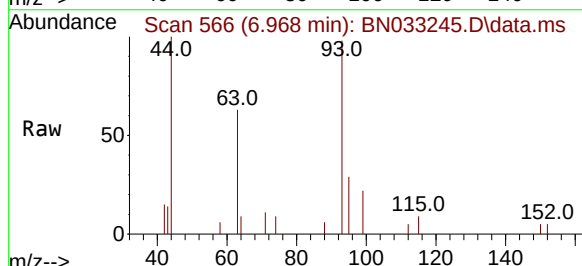
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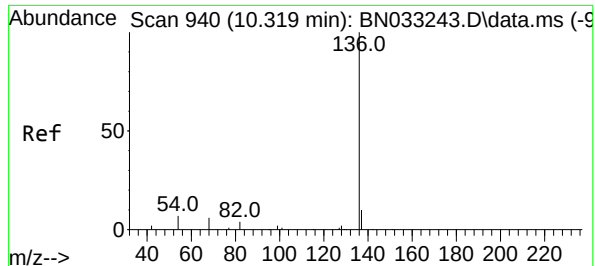
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 1.836 ng
RT: 6.968 min Scan# 566
Delta R.T. -0.087 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

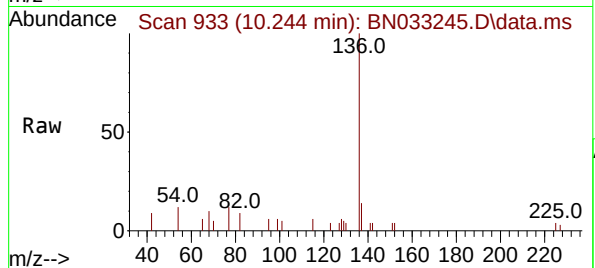
Tgt Ion: 93 Resp: 6447
Ion Ratio Lower Upper
93 100
63 35.9 1.1 1.7#
95 21.3 0.0 0.0#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.244 min Scan# 911
Delta R.T. -0.075 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

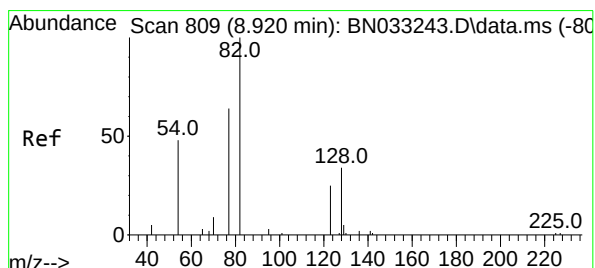
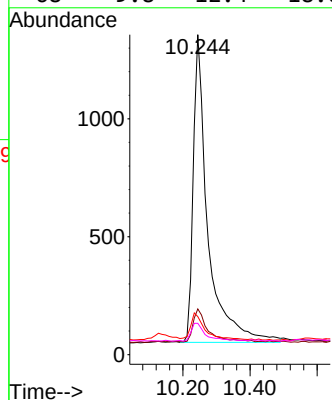
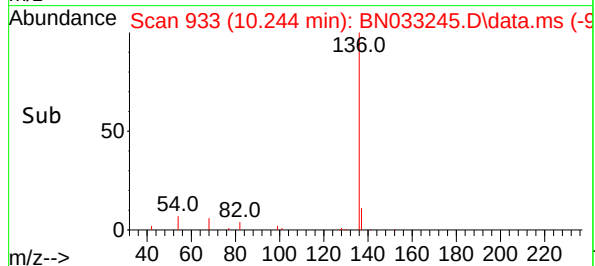
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 136 Resp: 3930
Ion Ratio Lower Upper
136 100
137 14.3 14.1 21.1
54 11.9 13.8 20.8
68 9.8 12.4 18.6#

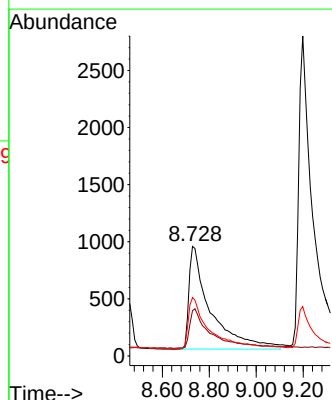
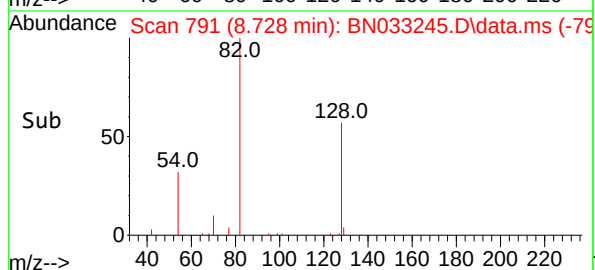
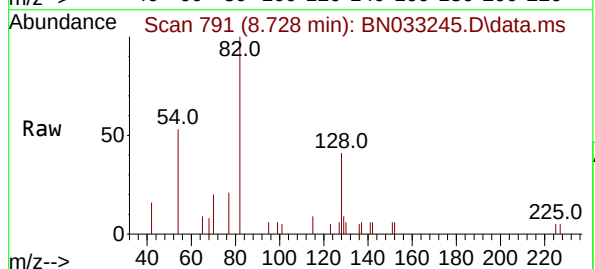
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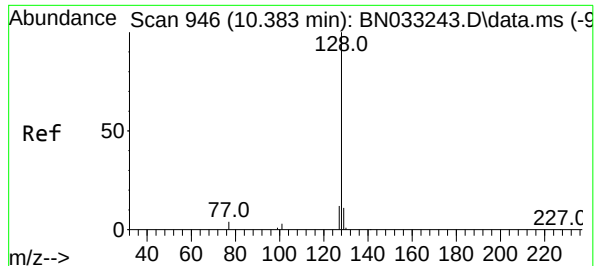
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 1.800 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.192 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Tgt Ion: 82 Resp: 5741
Ion Ratio Lower Upper
82 100
128 41.4 54.8 82.2#
54 53.3 55.9 83.9#





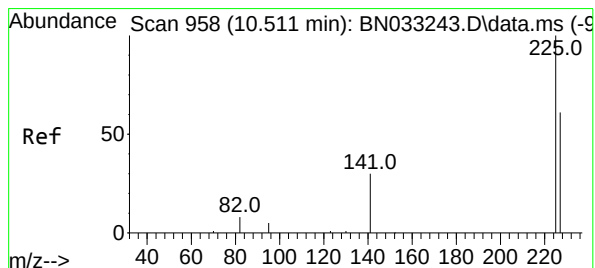
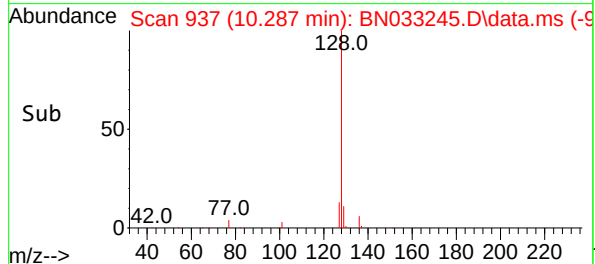
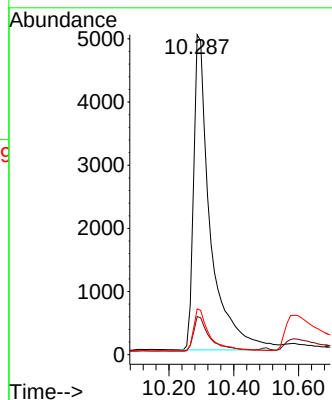
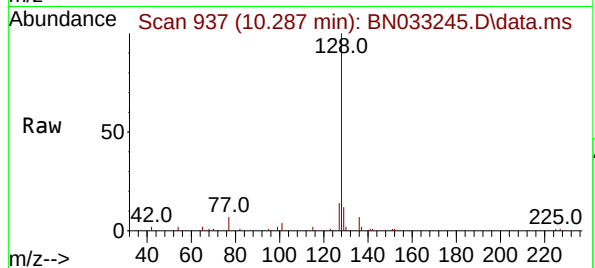
#9
Naphthalene
Concen: 1.684 ng
RT: 10.287 min Scan# 911
Delta R.T. -0.096 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 1801
Ion Ratio Lower Upper
128 100
129 11.9 15.4 23.0
127 14.3 15.8 23.6

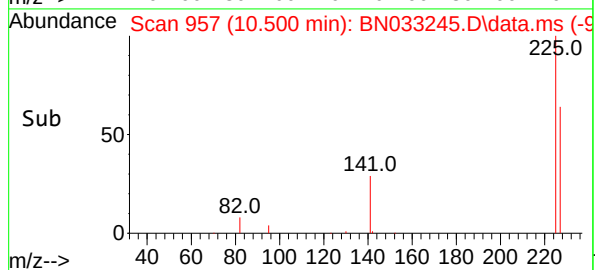
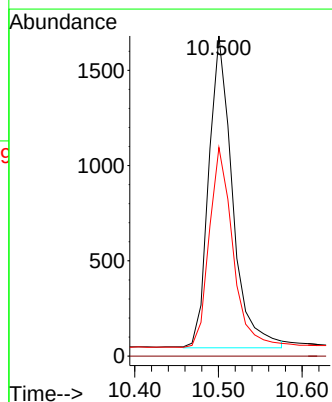
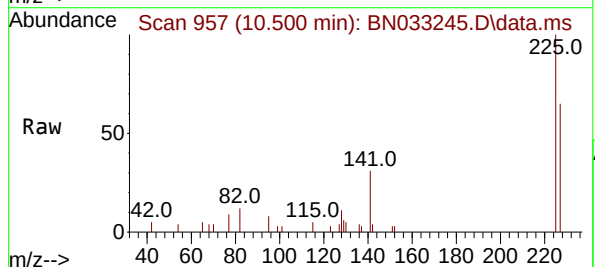
Manual Integrations
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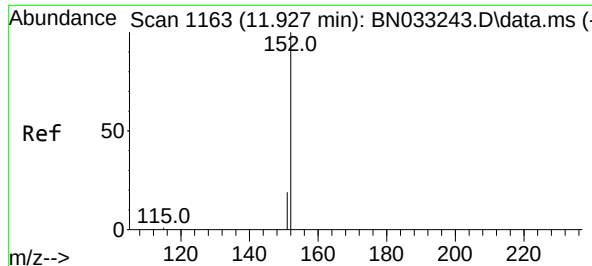
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 1.622 ng m
RT: 10.500 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

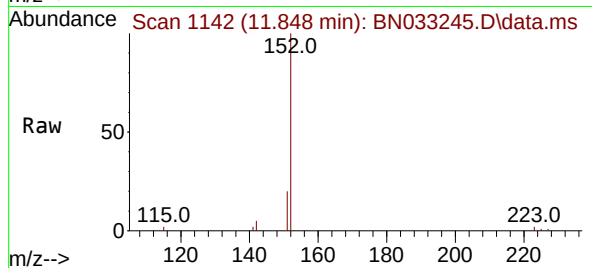
Tgt Ion:225 Resp: 3223
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.8 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 1.708 ng
RT: 11.848 min Scan# 1163
Delta R.T. -0.079 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

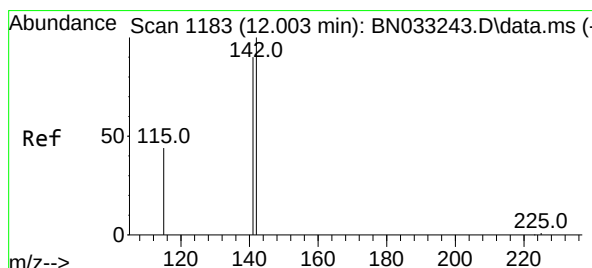
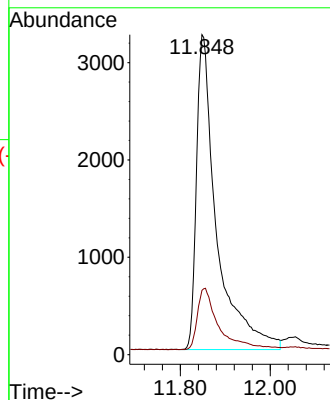
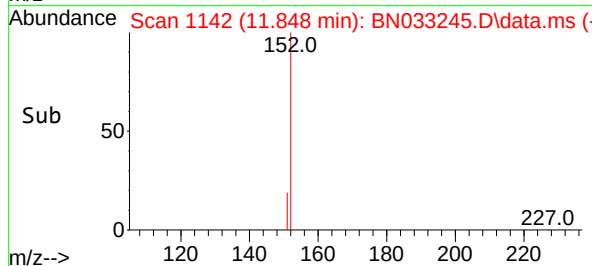
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 1007
Ion Ratio Lower Upper
152 100
151 20.8 11.9 17.9

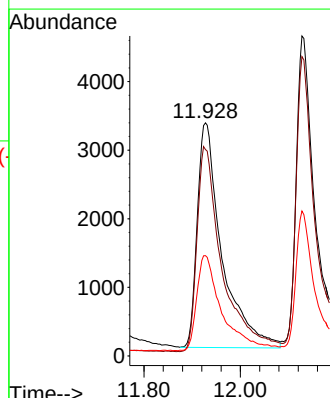
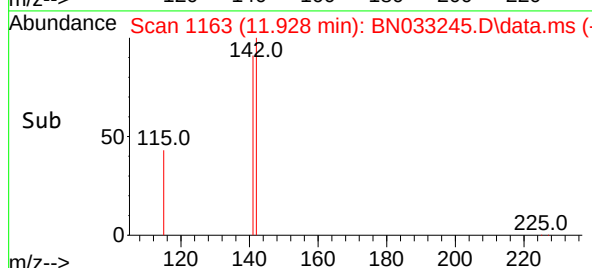
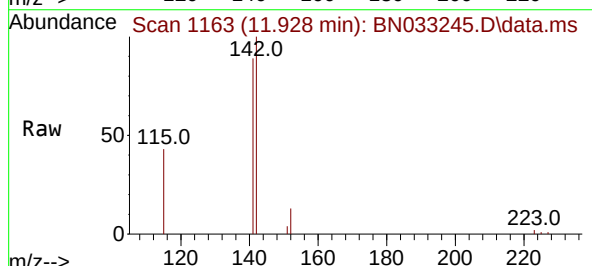
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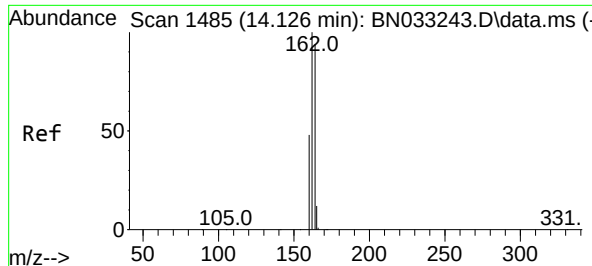
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 1.832 ng
RT: 11.928 min Scan# 1163
Delta R.T. -0.075 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

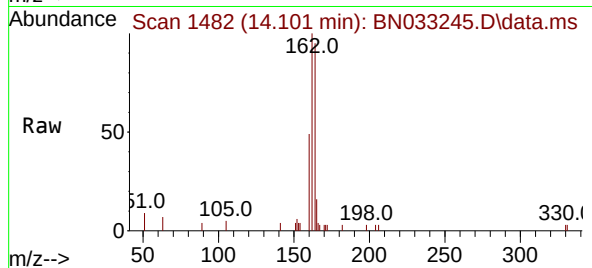
Tgt Ion:142 Resp: 11647
Ion Ratio Lower Upper
142 100
141 88.5 68.7 103.1
115 43.0 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.101 min Scan# 1485
Delta R.T. -0.025 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

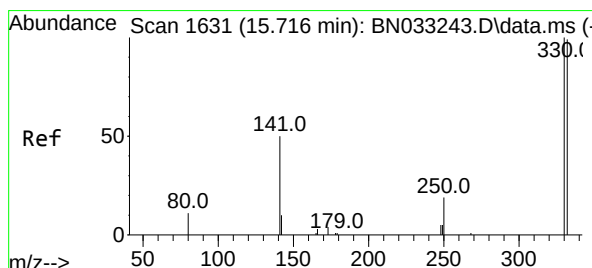
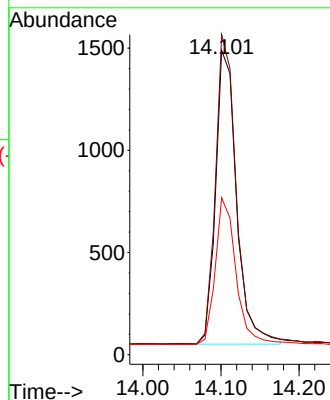
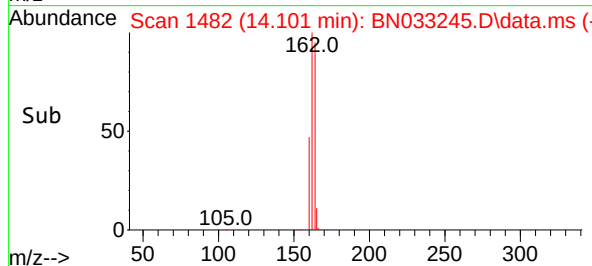
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:164 Resp: 2680
Ion Ratio Lower Upper
164 100
162 105.1 84.6 127.0
160 51.5 42.4 63.6

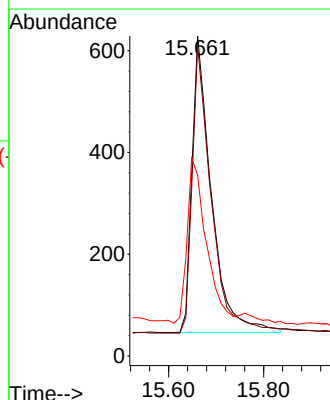
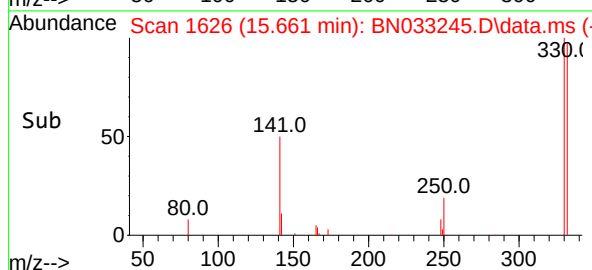
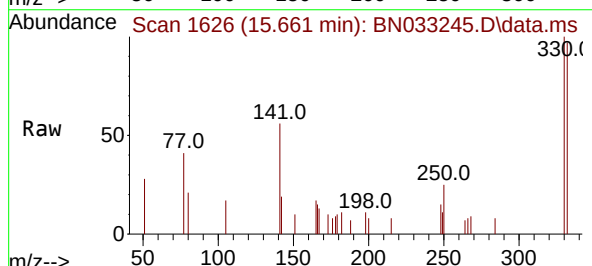
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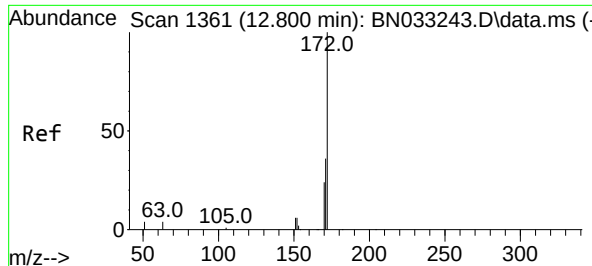
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#14
2,4,6-Tribromophenol
Concen: 1.665 ng
RT: 15.661 min Scan# 1626
Delta R.T. -0.055 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Tgt Ion:330 Resp: 1656
Ion Ratio Lower Upper
330 100
332 95.1 73.7 110.5
141 55.3 44.8 67.2





#15

2-Fluorobiphenyl

Concen: 1.737 ng

RT: 12.732 min Scan# 11

Delta R.T. -0.068 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

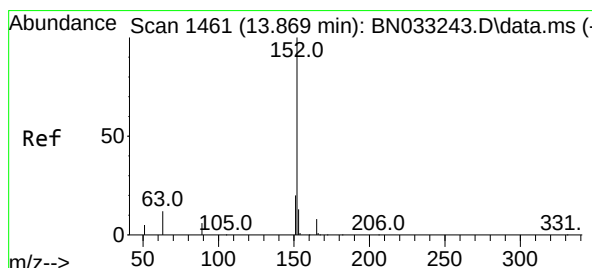
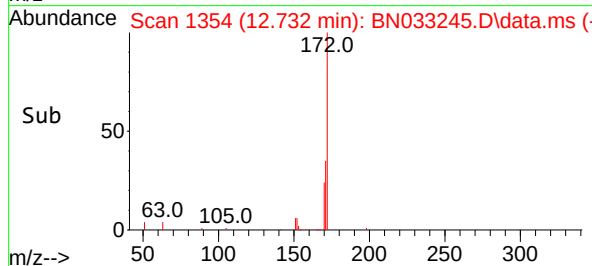
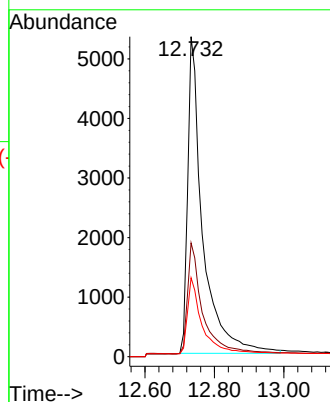
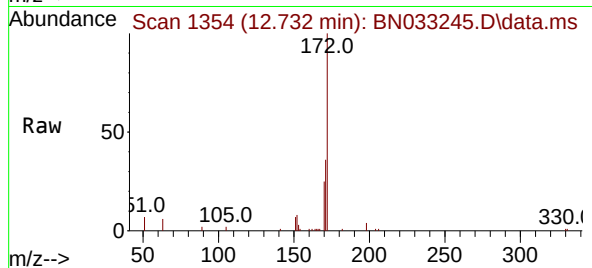
SSTDICC1.6

Tgt Ion:	172	Resp:	1596
Ion Ratio	Lower	Upper	
172	100		
171	35.5	32.3	48.5
170	24.6	23.4	35.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 1.745 ng

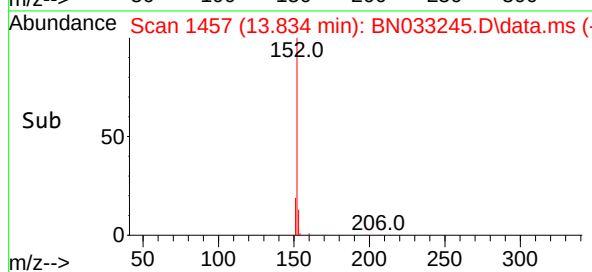
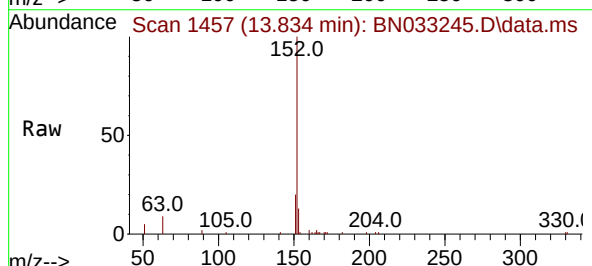
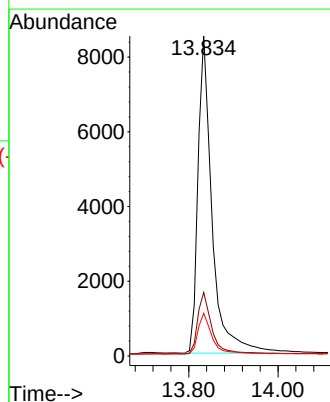
RT: 13.834 min Scan# 1457

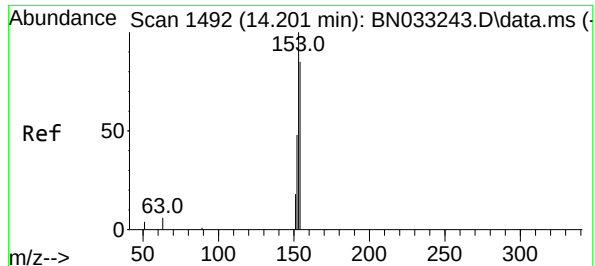
Delta R.T. -0.036 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

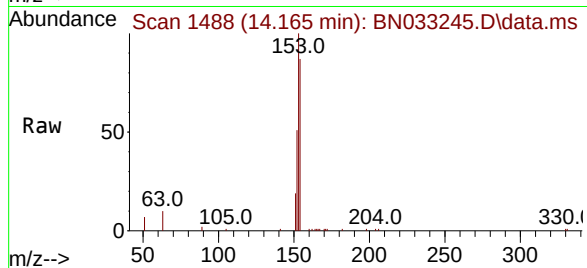
Tgt Ion:	152	Resp:	18666
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.1	24.1
153	12.7	10.2	15.2





#17
Acenaphthene
Concen: 1.696 ng
RT: 14.165 min Scan# 1492
Delta R.T. -0.036 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

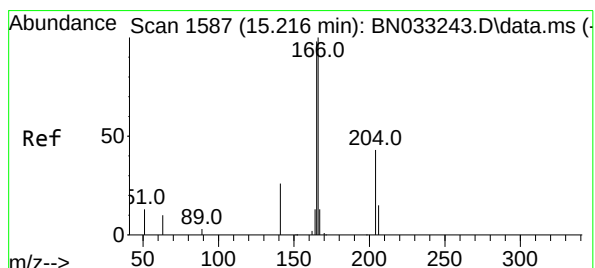
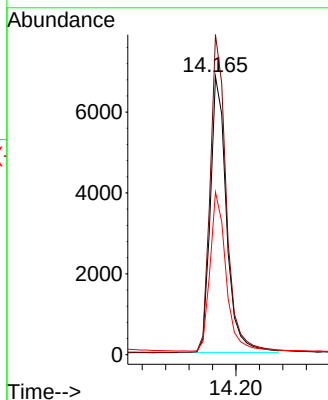
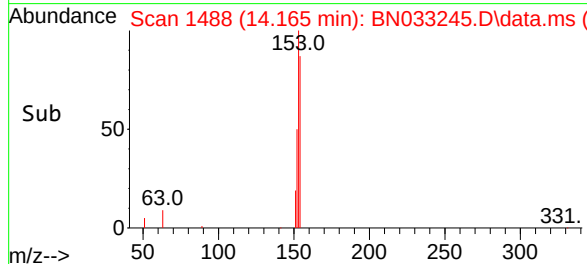
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:154 Resp: 1309
Ion Ratio Lower Upper
154 100
153 115.0 92.7 139.1
152 56.8 44.0 66.0

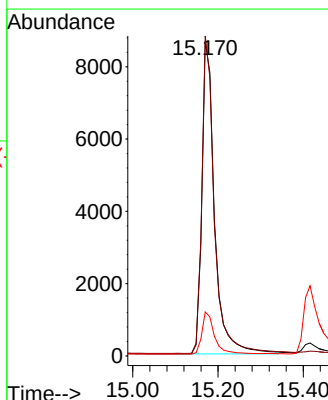
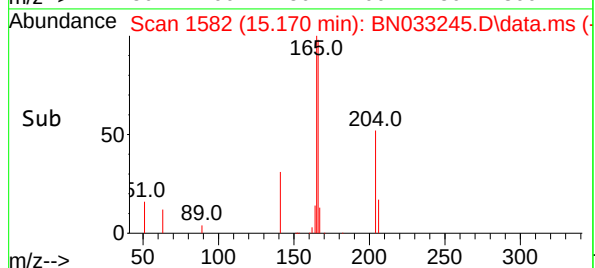
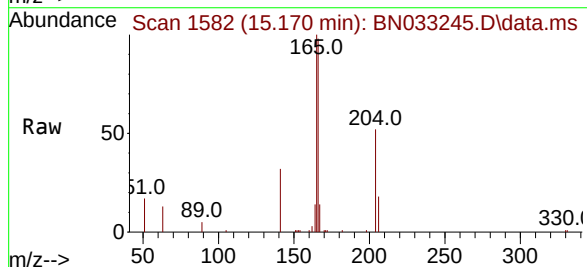
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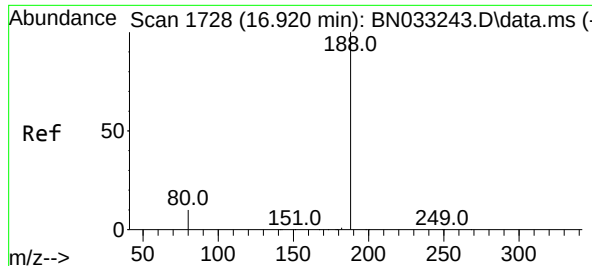
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 1.712 ng
RT: 15.170 min Scan# 1582
Delta R.T. -0.046 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Tgt Ion:166 Resp: 17880
Ion Ratio Lower Upper
166 100
165 99.7 79.6 119.4
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.890 min Scan# 11

Delta R.T. -0.030 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

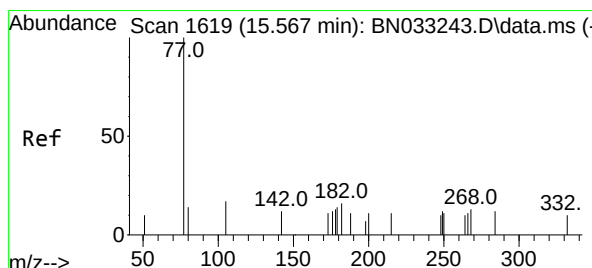
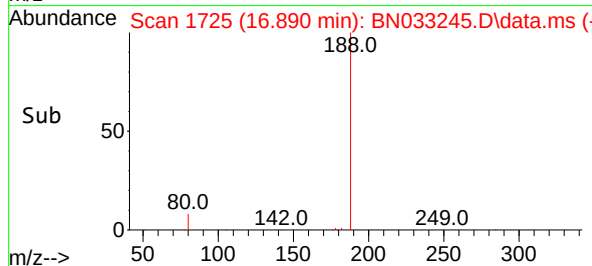
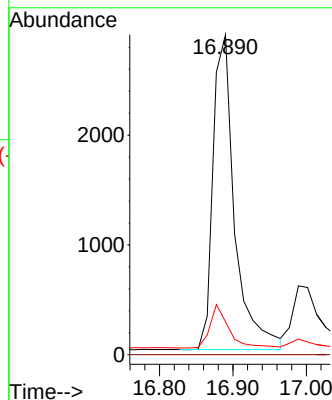
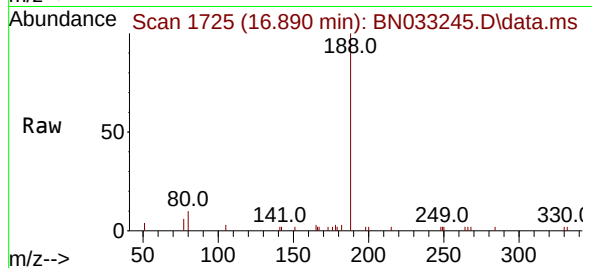
Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	10.2	15.4

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Supervised By :mohammad ahmed 08/07/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 1.547 ng m

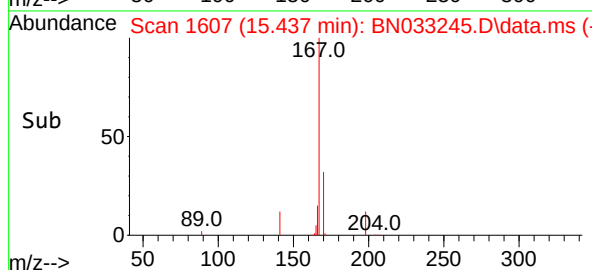
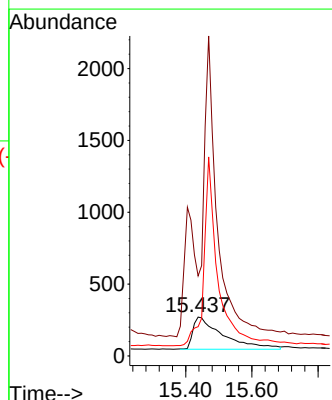
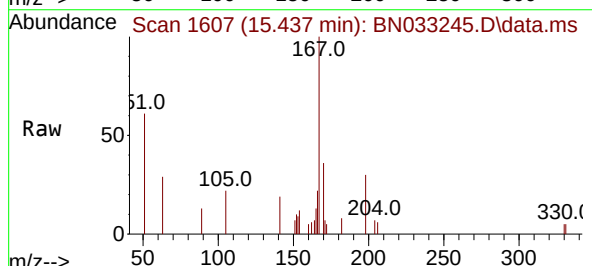
RT: 15.437 min Scan# 1607

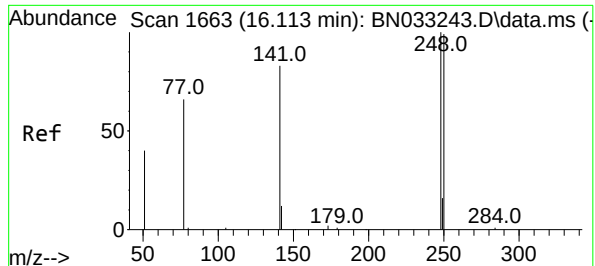
Delta R.T. -0.130 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

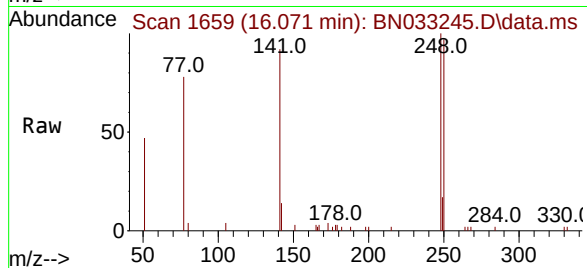
Tgt Ion	Ratio	Lower	Upper
198	100		
51	206.3	250.6	375.8#
105	75.6	152.6	229.0#





#21
4-Bromophenyl-phenylether
Concen: 1.764 ng
RT: 16.071 min Scan# 1659
Delta R.T. -0.043 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

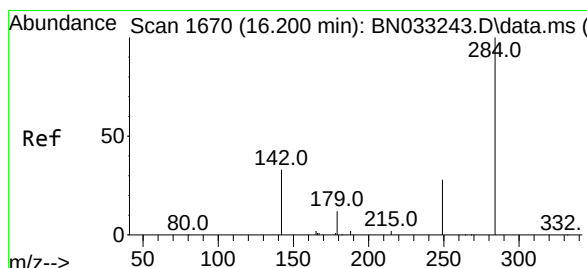
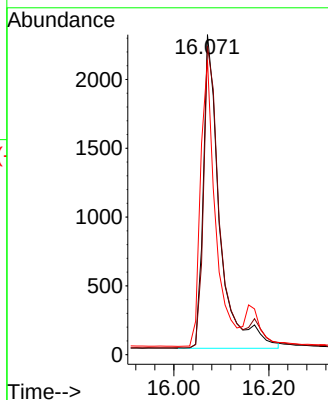
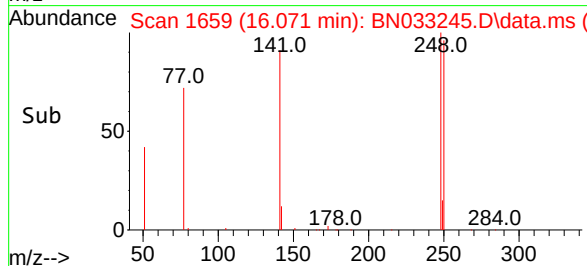
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:248 Resp: 548
Ion Ratio Lower Upper
248 100
250 96.5 80.0 120.0
141 92.1 71.0 106.6

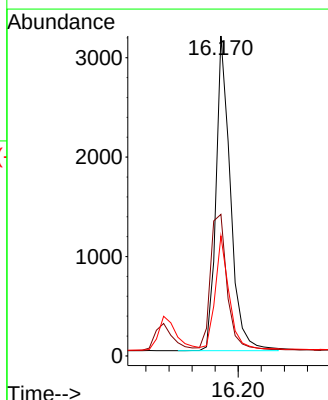
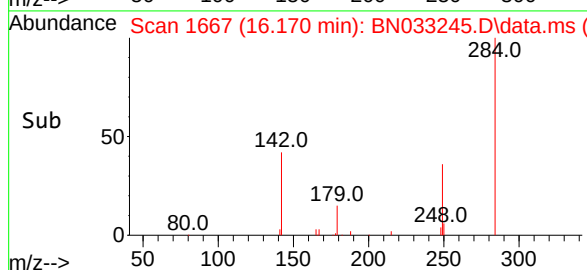
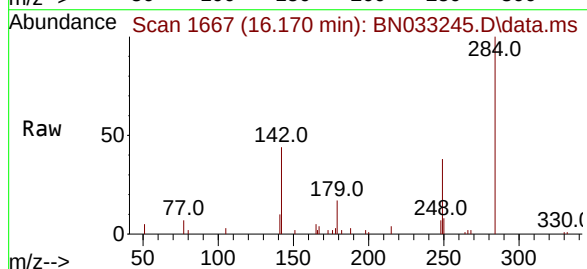
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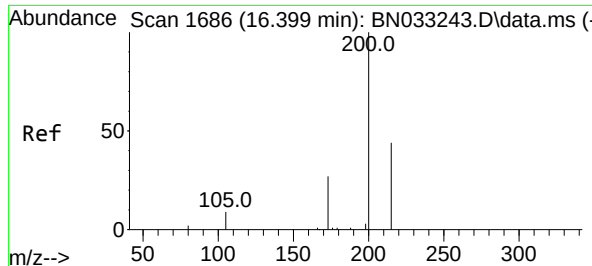
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 1.690 ng
RT: 16.170 min Scan# 1667
Delta R.T. -0.030 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

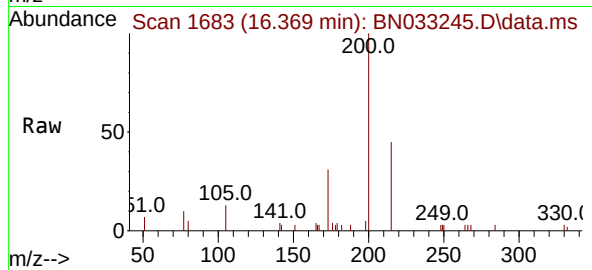
Tgt Ion:284 Resp: 5490
Ion Ratio Lower Upper
284 100
142 49.1 38.8 58.2
249 34.1 27.8 41.6





#23
Atrazine
Concen: 1.639 ng
RT: 16.369 min Scan# 1686
Delta R.T. -0.030 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

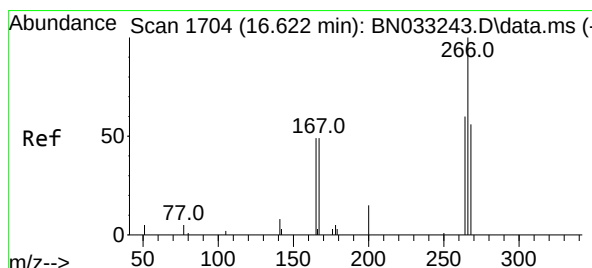
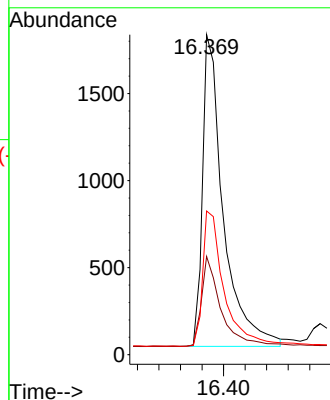
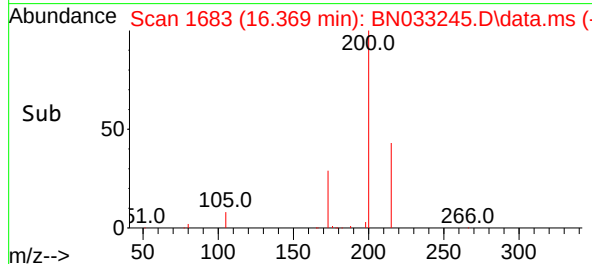
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:200 Resp: 480
Ion Ratio Lower Upper
200 100
173 30.7 29.2 43.8
215 44.9 41.5 62.3

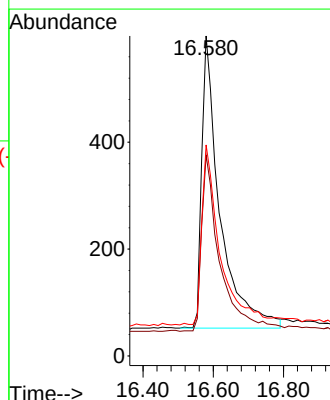
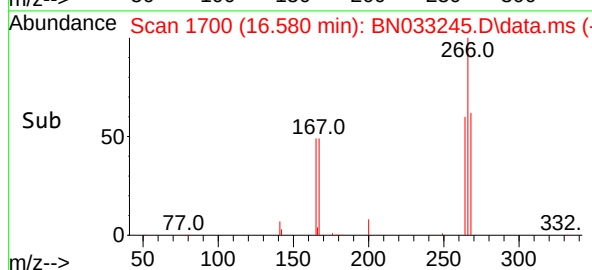
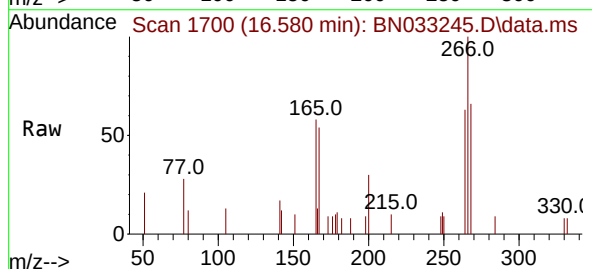
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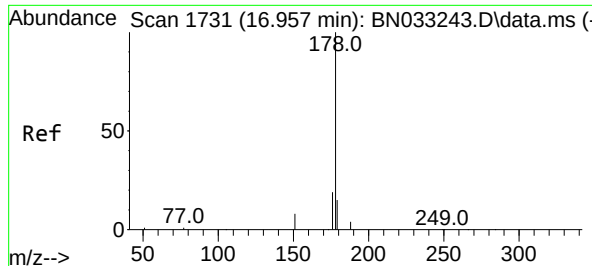
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 1.806 ng
RT: 16.580 min Scan# 1700
Delta R.T. -0.042 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

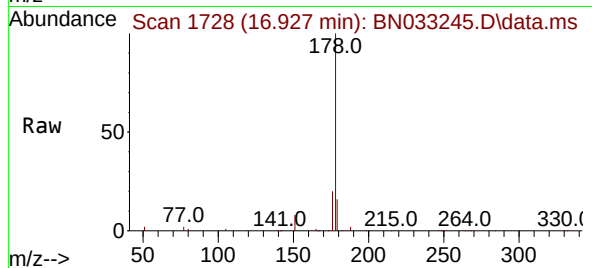
Tgt Ion:266 Resp: 1962
Ion Ratio Lower Upper
266 100
264 60.0 49.3 73.9
268 62.4 50.2 75.2





#25
Phenanthrene
Concen: 1.707 ng
RT: 16.927 min Scan# 1730
Delta R.T. -0.030 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

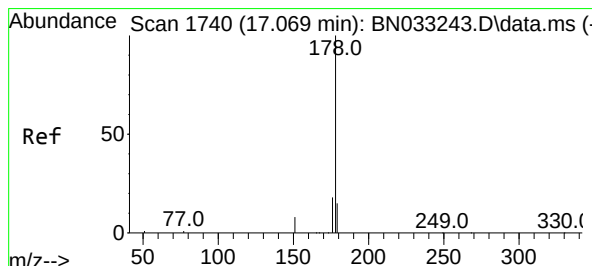
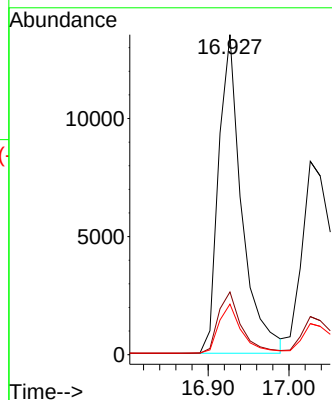
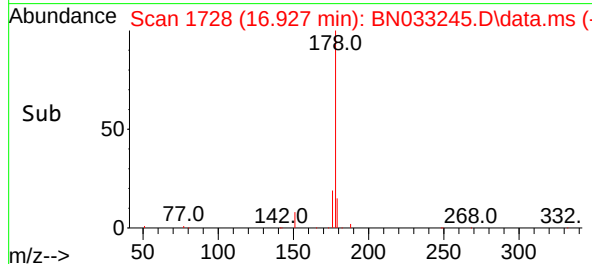
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:178 Resp: 2693
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.3 12.4 18.6

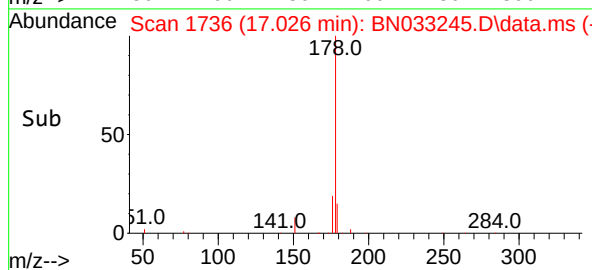
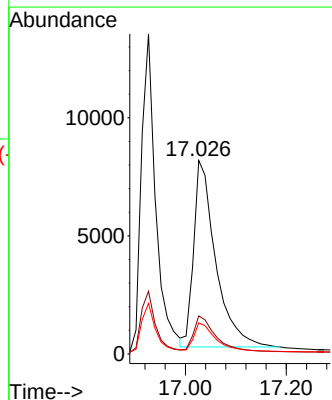
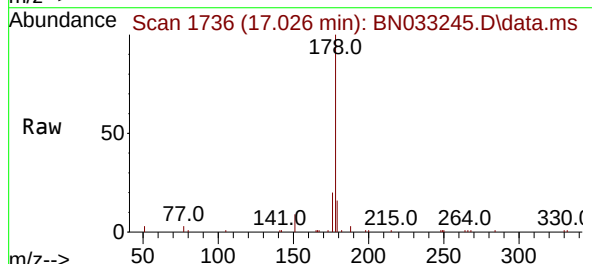
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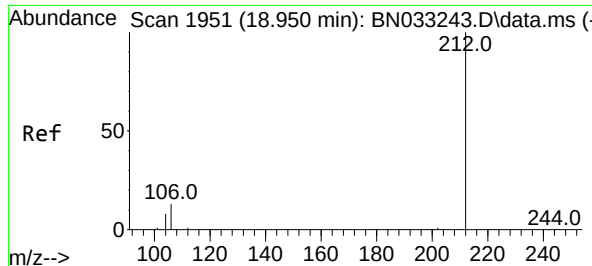
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 1.810 ng
RT: 17.026 min Scan# 1736
Delta R.T. -0.043 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

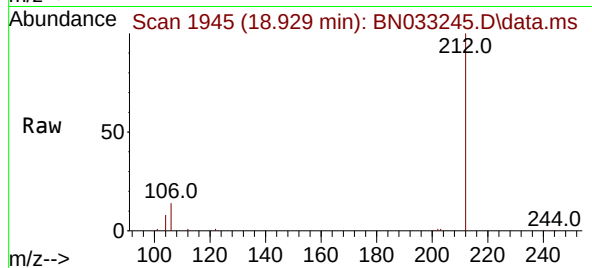
Tgt Ion:178 Resp: 23929
Ion Ratio Lower Upper
178 100
176 18.8 10.5 15.7#
179 15.0 8.6 12.8#





#27
Fluoranthene-d10
Concen: 1.662 ng
RT: 18.929 min Scan# 1945
Delta R.T. -0.021 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

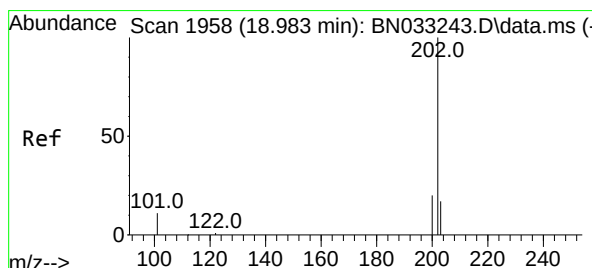
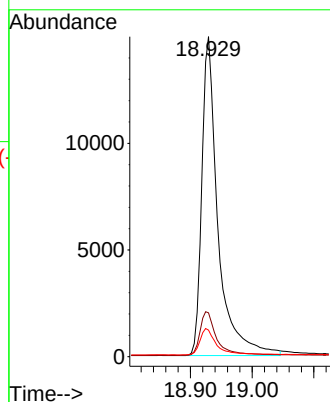
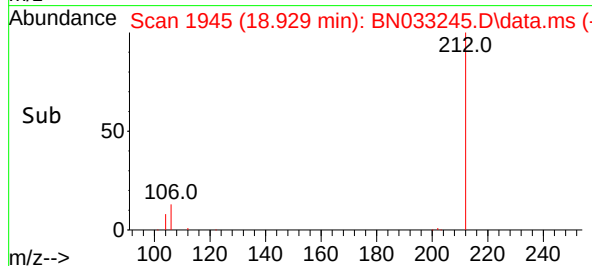
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:212 Resp: 2726
Ion Ratio Lower Upper
212 100
106 14.2 11.4 17.0
104 8.7 7.1 10.7

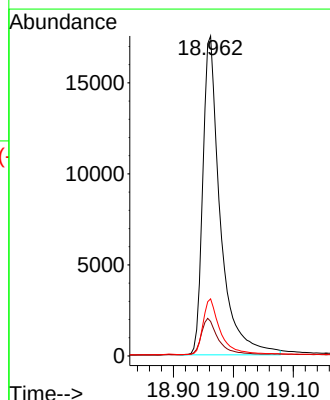
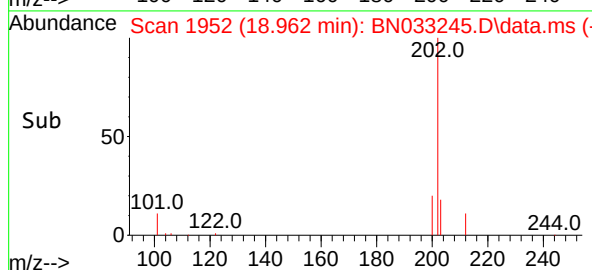
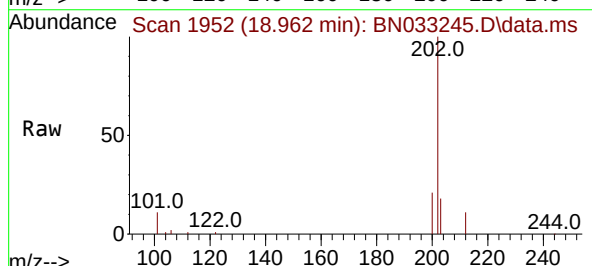
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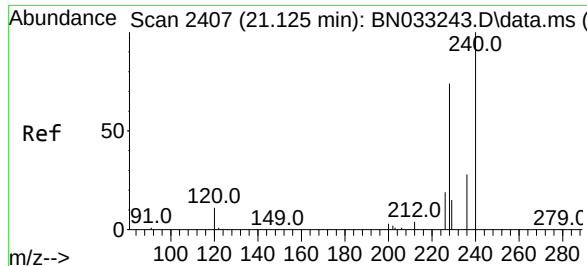
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28
Fluoranthene
Concen: 1.642 ng
RT: 18.962 min Scan# 1952
Delta R.T. -0.021 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Tgt Ion:202 Resp: 35521
Ion Ratio Lower Upper
202 100
101 11.2 8.6 13.0
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.104 min Scan# 2403

Delta R.T. -0.021 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

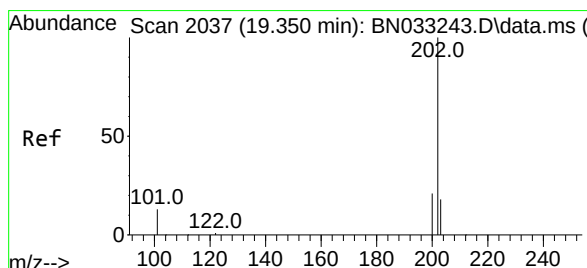
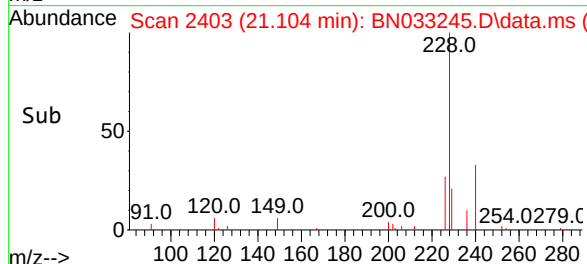
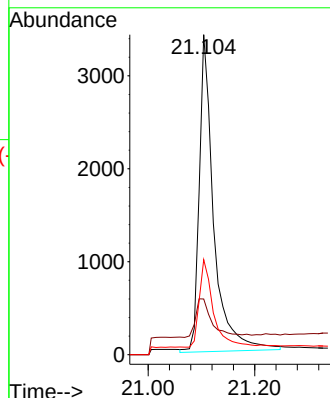
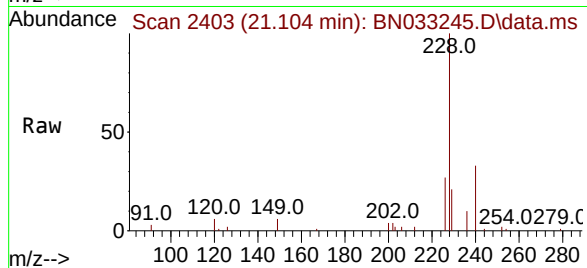
SSTDICC1.6

Tgt Ion:	240	Resp:	6449
Ion Ratio	Lower	Upper	
240	100		
120	17.4	13.3	19.9
236	29.7	23.8	35.6

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 1.659 ng

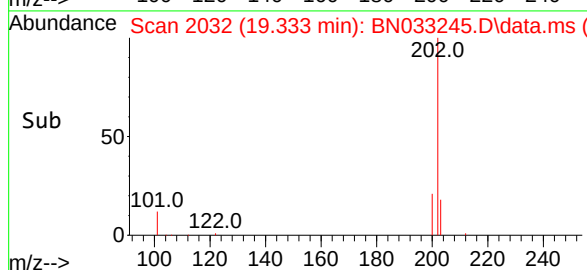
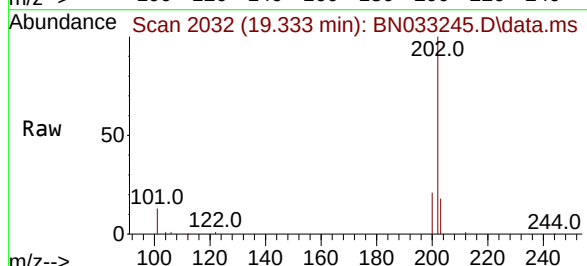
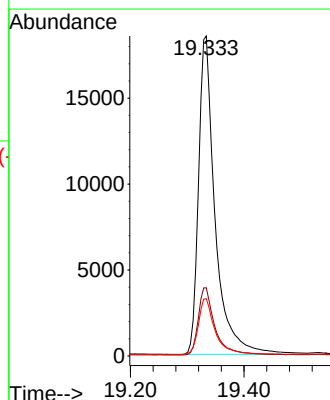
RT: 19.333 min Scan# 2032

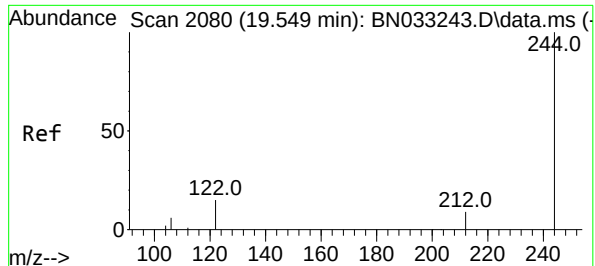
Delta R.T. -0.016 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Tgt Ion:	202	Resp:	37401
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.9	14.4	21.6





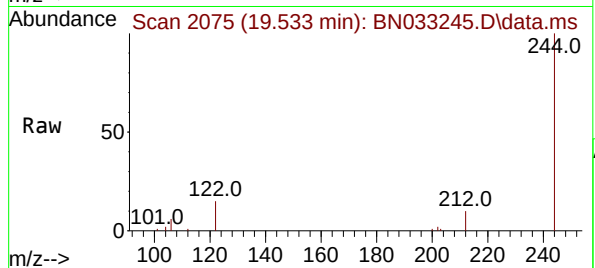
#31
Terphenyl-d14
Concen: 1.688 ng
RT: 19.533 min Scan# 2080
Delta R.T. -0.016 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

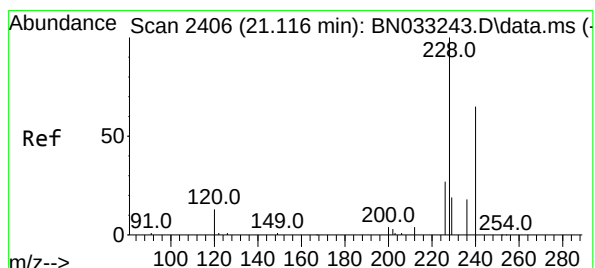
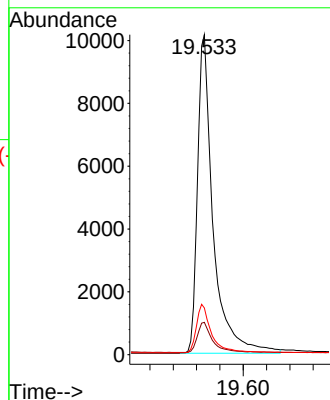
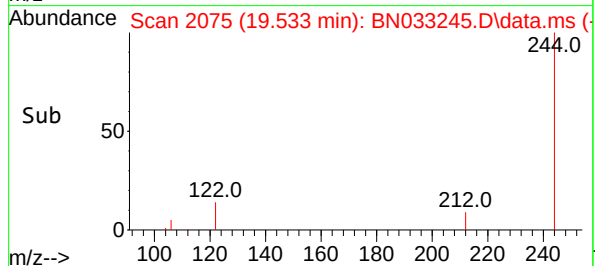


Tgt Ion:244 Resp: 1880
Ion Ratio Lower Upper
244 100
212 10.1 9.9 14.9
122 14.6 14.1 21.1

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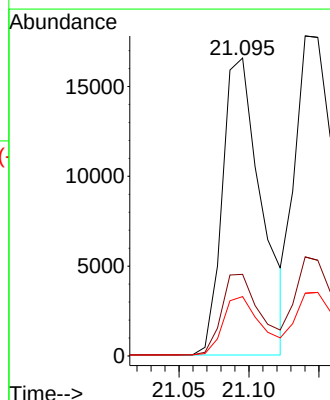
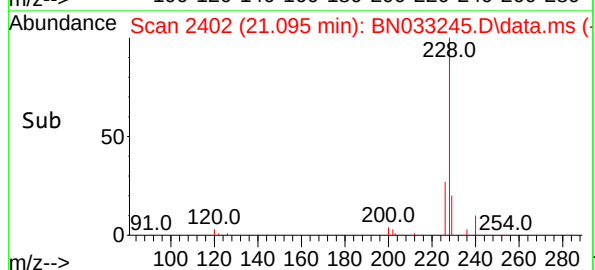
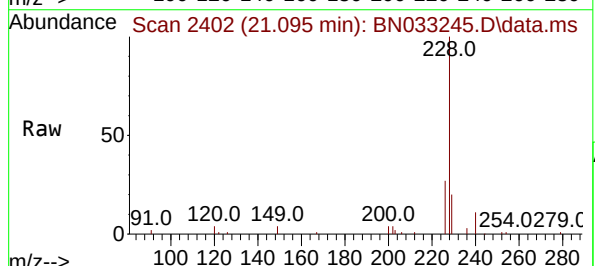
APPROVED

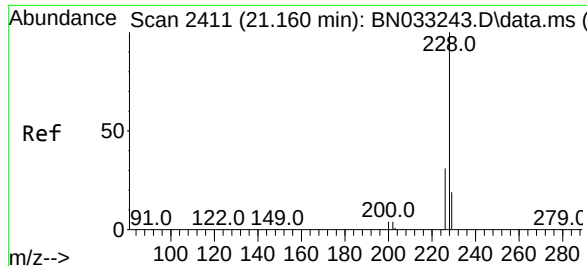
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 1.722 ng
RT: 21.095 min Scan# 2402
Delta R.T. -0.021 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

Tgt Ion:228 Resp: 31989
Ion Ratio Lower Upper
228 100
226 27.4 22.4 33.6
229 19.9 16.6 25.0





#33

Chrysene

Concen: 1.605 ng

RT: 21.140 min Scan# 2411

Delta R.T. -0.020 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

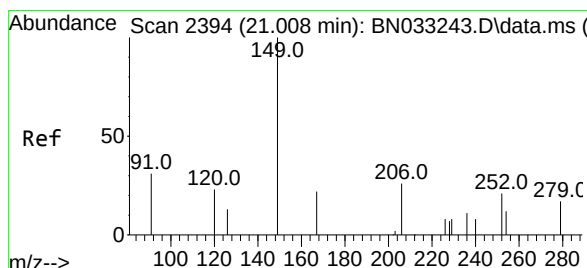
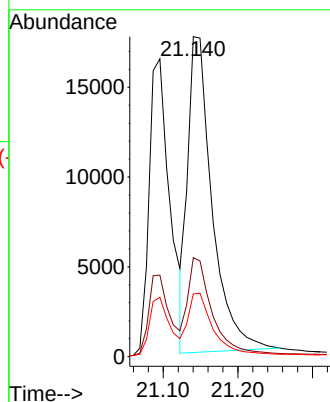
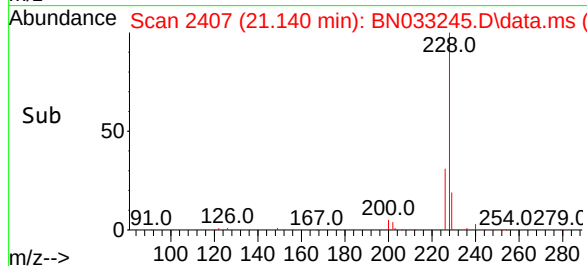
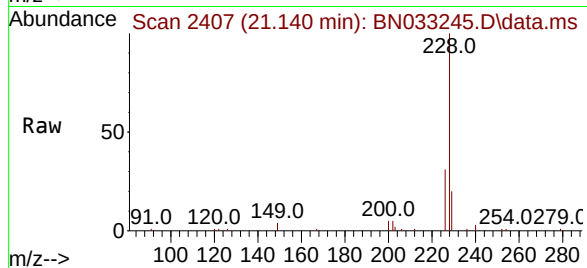
ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.1	37.7
229	19.6	16.2	24.2

Manual Integrations
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.432 ng

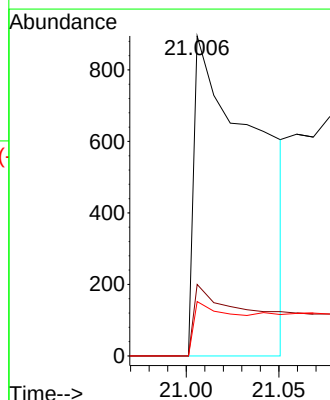
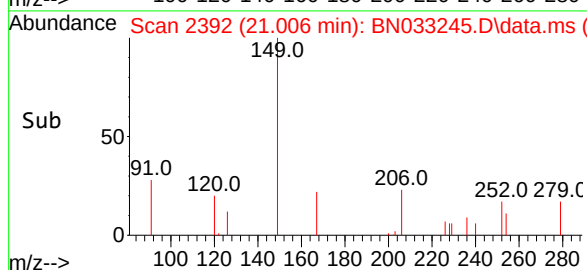
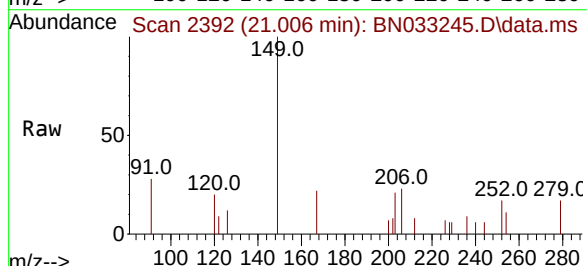
RT: 21.006 min Scan# 2392

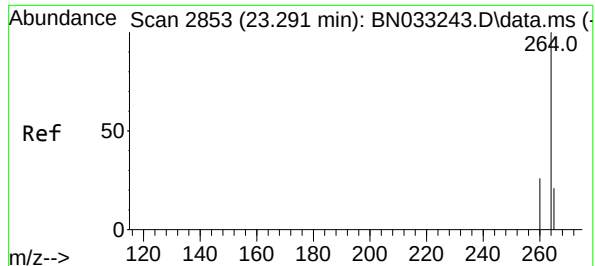
Delta R.T. -0.002 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.4	19.8	29.6
279	11.4	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.280 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN033245.D

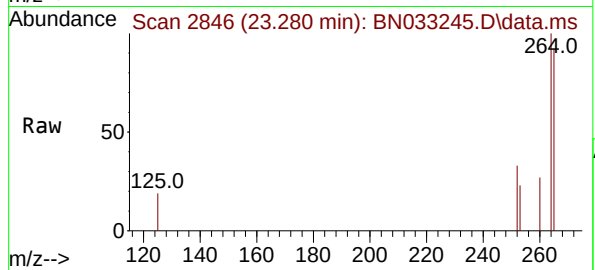
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:264 Resp: 7359

Ion Ratio Lower Upper

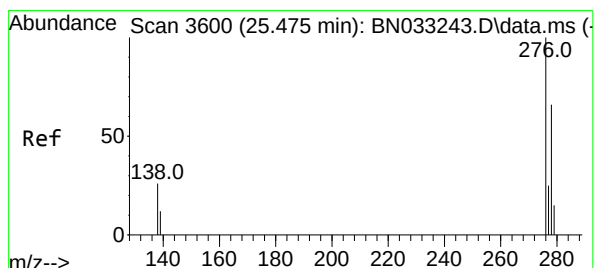
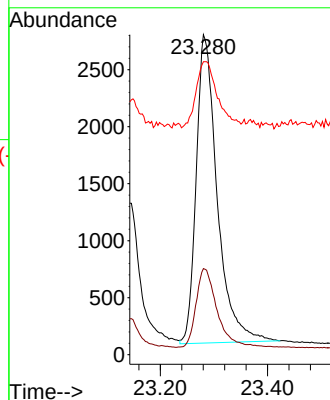
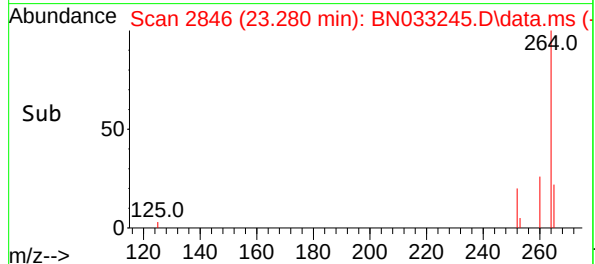
264 100

260 26.9 21.4 32.2

265 91.6 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 1.709 ng

RT: 25.438 min Scan# 3584

Delta R.T. -0.037 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

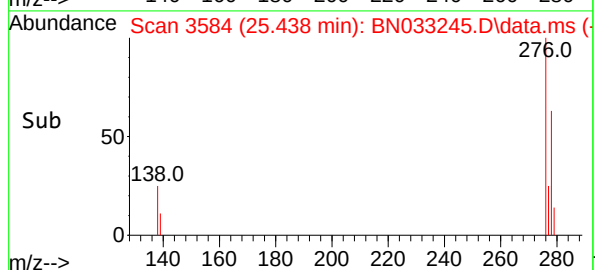
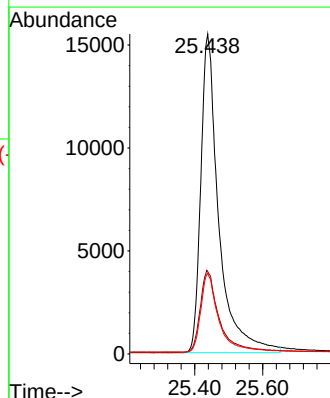
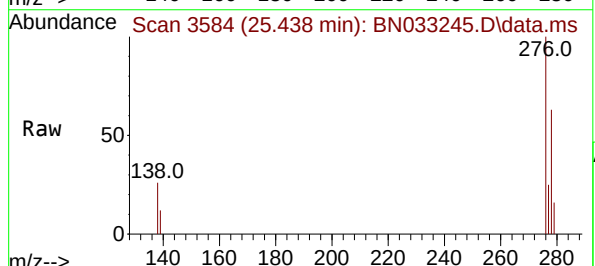
Tgt Ion:276 Resp: 56857

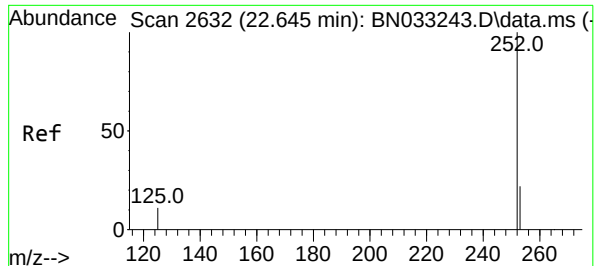
Ion Ratio Lower Upper

276 100

138 26.9 20.4 30.6

277 24.7 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 1.829 ng

RT: 22.622 min Scan# 2621

Delta R.T. -0.023 min

Lab File: BN033245.D

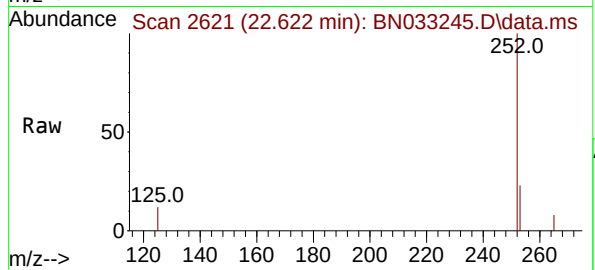
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

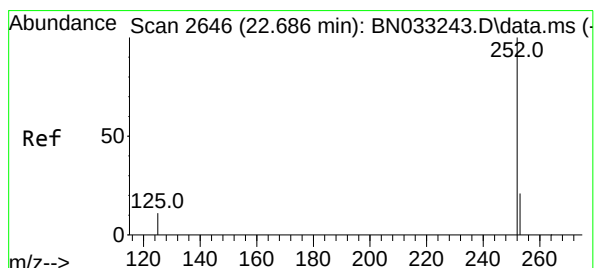
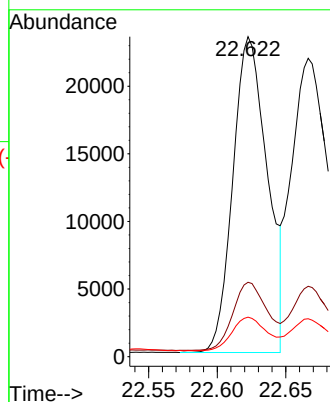
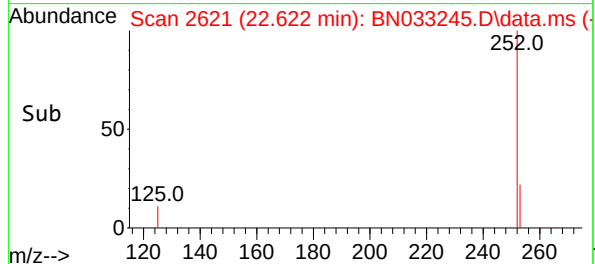


Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	23.3	34.9
125	12.4	14.6	22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

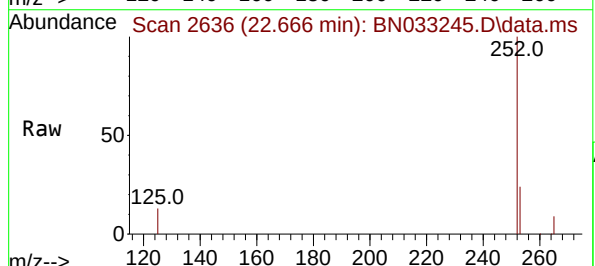
Concen: 1.720 ng

RT: 22.666 min Scan# 2636

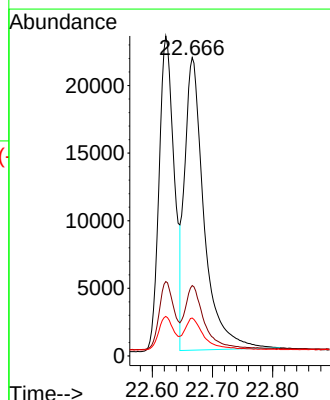
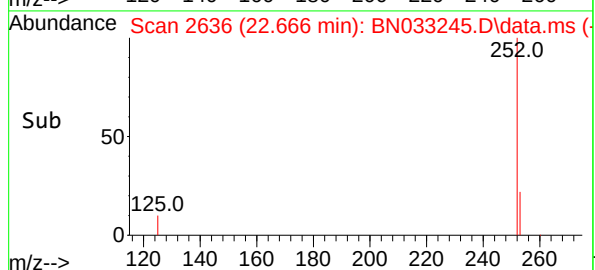
Delta R.T. -0.020 min

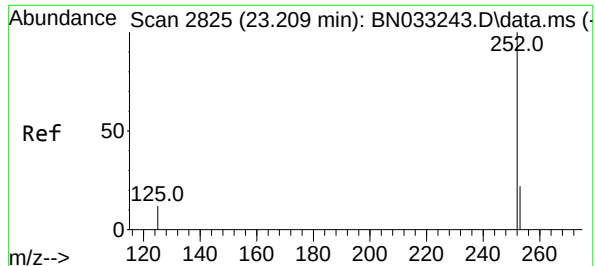
Lab File: BN033245.D

Acq: 05 Aug 2024 21:07



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	23.7	35.5
125	12.7	15.4	23.0





#39

Benzo(a)pyrene

Concen: 1.729 ng

RT: 23.187 min Scan# 2814

Delta R.T. -0.022 min

Lab File: BN033245.D

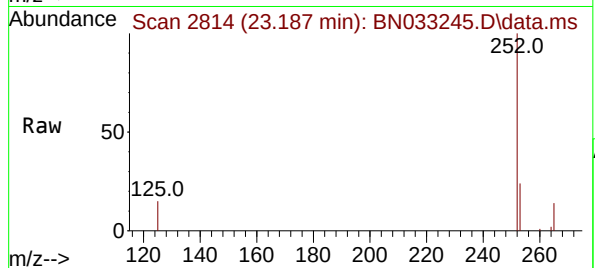
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

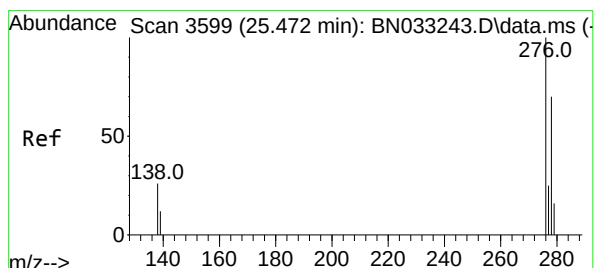
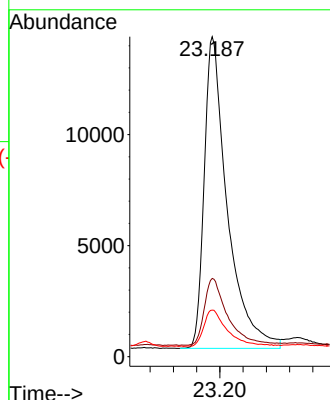
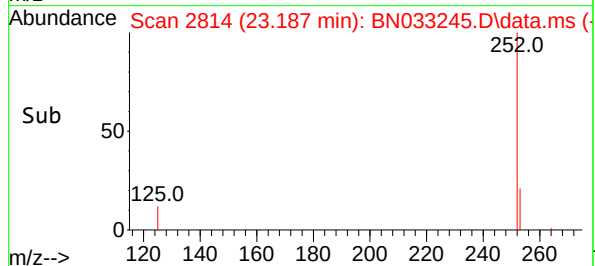
SSTDICC1.6



Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	28.4	42.6
125	14.5	20.1	30.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

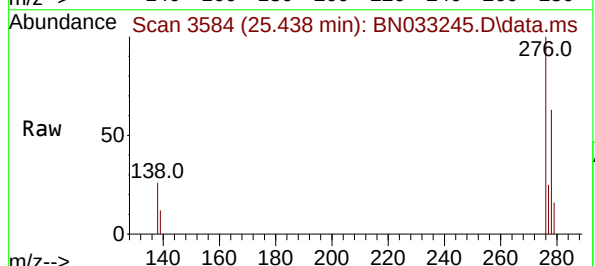
Concen: 1.713 ng

RT: 25.438 min Scan# 3584

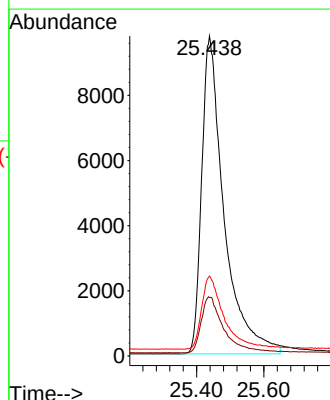
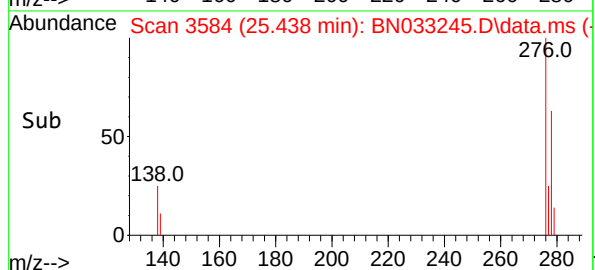
Delta R.T. -0.034 min

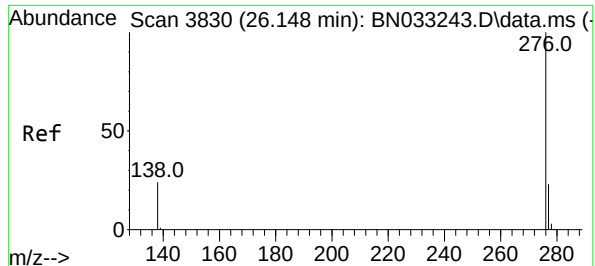
Lab File: BN033245.D

Acq: 05 Aug 2024 21:07



Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.3	16.7	25.1
279	24.9	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 1.686 ng

RT: 26.113 min Scan# 3815

Delta R.T. -0.034 min

Lab File: BN033245.D

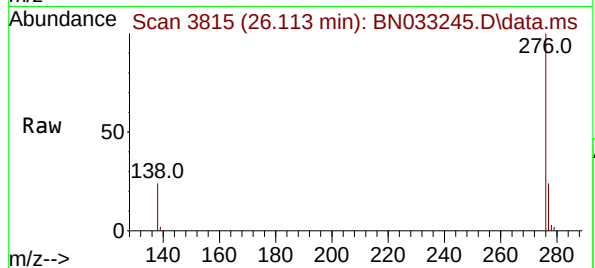
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 50740

Ion Ratio Lower Upper

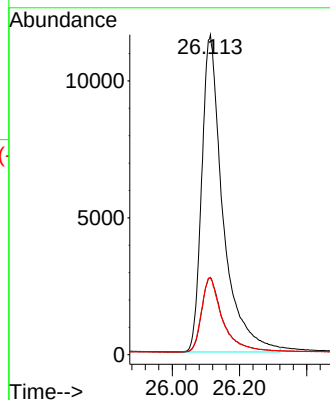
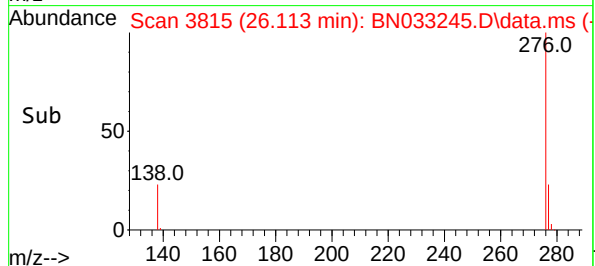
276 100

277 24.0 21.0 31.4

138 24.2 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033246.D
Acq On : 05 Aug 2024 21:44
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 05 23:46:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.467	152	1074	0.400	ng	-0.04
7) Naphthalene-d8	10.223	136	3651	0.400	ng	#-0.10
13) Acenaphthene-d10	14.101	164	2462	0.400	ng	-0.03
19) Phenanthrene-d10	16.877	188	5464	0.400	ng	-0.04
29) Chrysene-d12	21.104	240	6857	0.400	ng	-0.02
35) Perylene-d12	23.277	264	7602	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	7433	2.775	ng	-0.13
5) Phenol-d6	6.730	99	11644m	3.196	ng	-0.26
8) Nitrobenzene-d5	8.685	82	9901m	3.347	ng	-0.23
11) 2-Methylnaphthalene-d10	11.833	152	17432	3.186	ng	-0.09
14) 2,4,6-Tribromophenol	15.649	330	2933	3.210	ng	-0.07
15) 2-Fluorobiphenyl	12.722	172	26958m	3.194	ng	-0.08
27) Fluoranthene-d10	18.920	212	47966	3.137	ng	-0.03
31) Terphenyl-d14	19.529	244	33788	2.853	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.047	88	4007	3.152	ng	# 93
3) n-Nitrosodimethylamine	3.401	42	4335	3.310	ng	# 90
6) bis(2-Chloroethyl)ether	6.932	93	8783m	2.594	ng	
9) Naphthalene	10.276	128	30861	3.110	ng	# 85
10) Hexachlorobutadiene	10.500	225	5329m	2.890	ng	
12) 2-Methylnaphthalene	11.909	142	20455	3.469	ng	93
16) Acenaphthylene	13.823	152	32994	3.358	ng	99
17) Acenaphthene	14.165	154	22394	3.159	ng	99
18) Fluorene	15.170	166	30658	3.195	ng	100
20) 4,6-Dinitro-2-methylph...	15.405	198	2747m	2.879	ng	
21) 4-Bromophenyl-phenylether	16.058	248	8860	3.056	ng	# 87
22) Hexachlorobenzene	16.170	284	9244	3.054	ng	99
23) Atrazine	16.369	200	8527	3.123	ng	# 86
24) Pentachlorophenol	16.567	266	3558	3.514	ng	99
25) Phenanthrene	16.915	178	46851	3.187	ng	99
26) Anthracene	17.014	178	42404	3.442	ng	# 87
28) Fluoranthene	18.953	202	62522	3.101	ng	99
30) Pyrene	19.324	202	66137	2.760	ng	100
32) Benzo(a)anthracene	21.086	228	61499	3.114	ng	98
33) Chrysene	21.140	228	74187	2.797	ng	98
34) Bis(2-ethylhexyl)phtha...	21.006	149	2121	0.447	ng	# 91
36) Indeno(1,2,3-cd)pyrene	25.423	276	114493	3.332	ng	98
37) Benzo(b)fluoranthene	22.617	252	77111	3.345	ng	# 86
38) Benzo(k)fluoranthene	22.660	252	89451	3.080	ng	# 86
39) Benzo(a)pyrene	23.181	252	75145	3.245	ng	# 78
40) Dibenzo(a,h)anthracene	25.423	278	91538	3.373	ng	# 89
41) Benzo(g,h,i)perylene	26.096	276	100615	3.235	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033246.D
Acq On : 05 Aug 2024 21:44
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

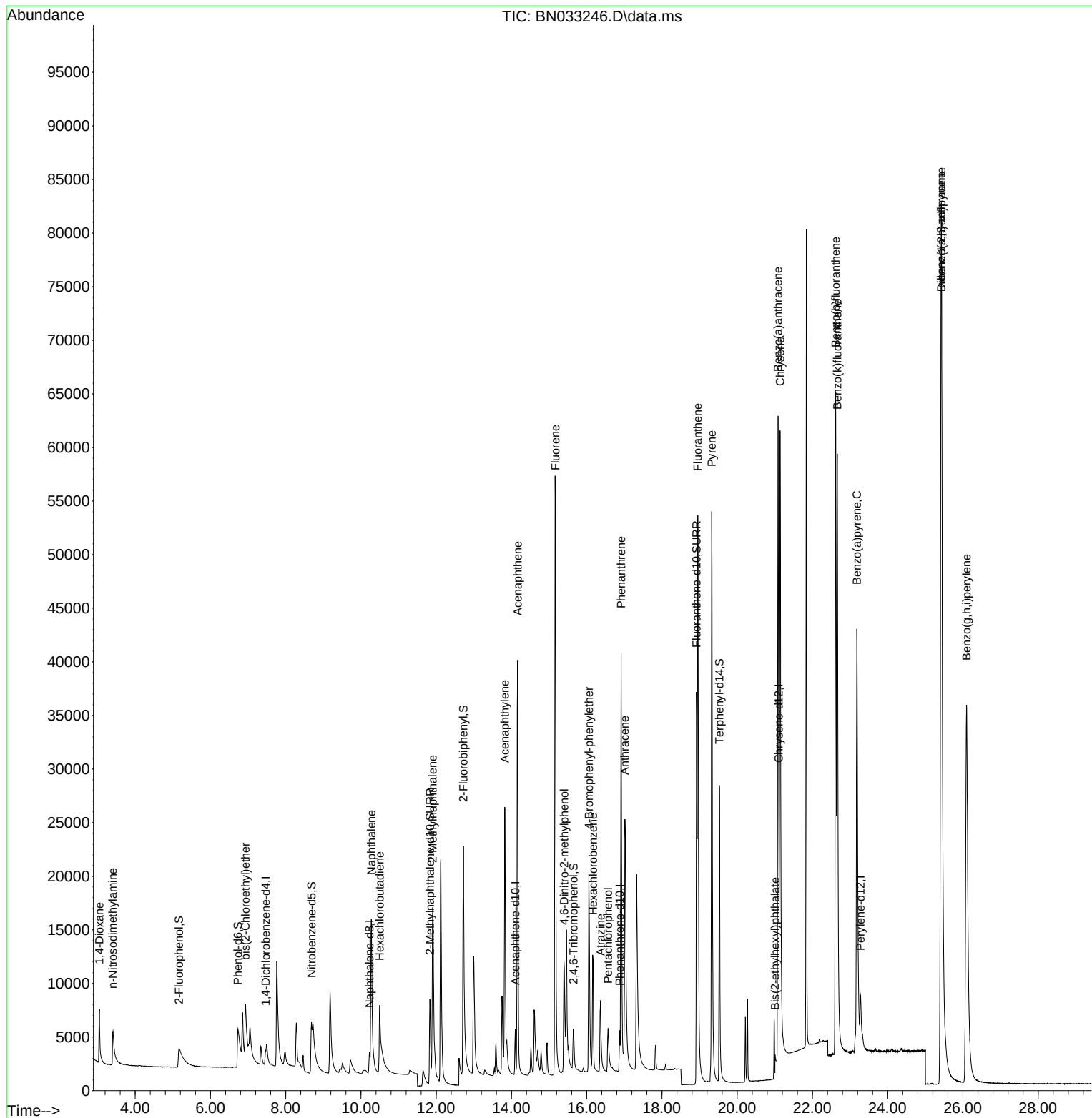
SSTDICC3.2

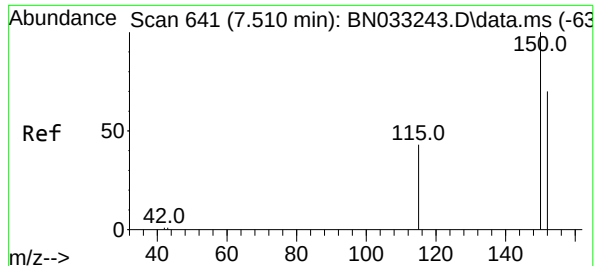
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

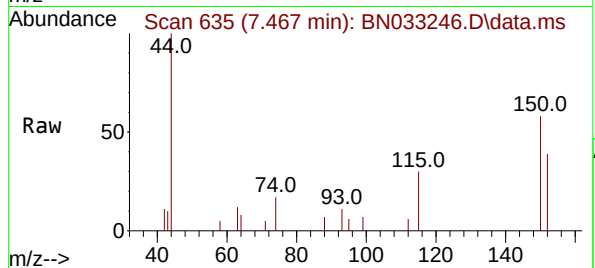
Quant Time: Aug 05 23:46:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.467 min Scan# 61
Delta R.T. -0.043 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

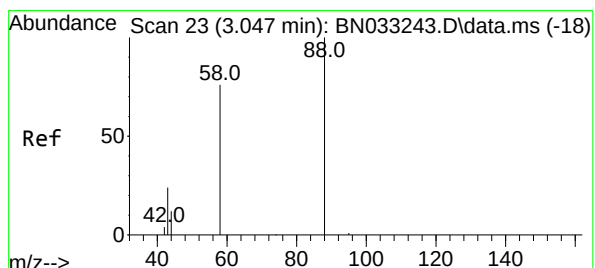
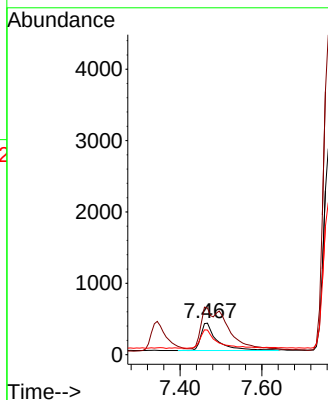
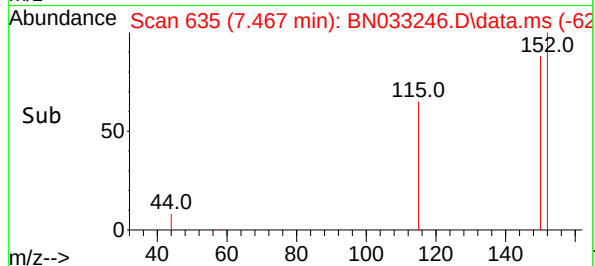
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 152 Resp: 1074
Ion Ratio Lower Upper
152 100
150 148.5 108.2 162.2
115 78.0 70.5 105.7

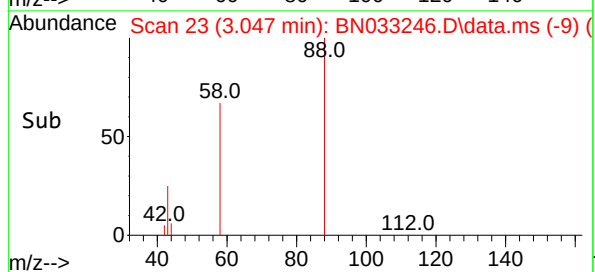
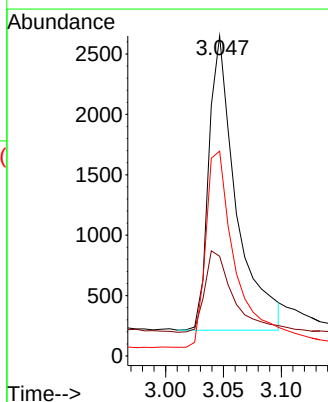
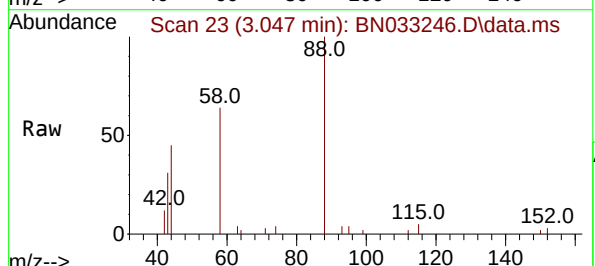
Manual Integrations
APPROVED

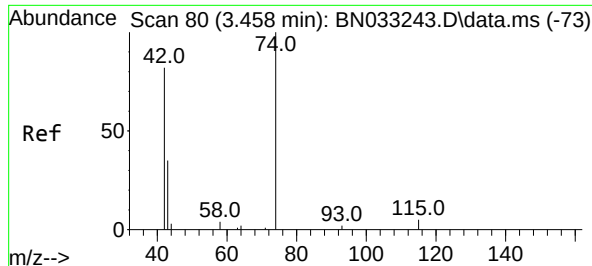
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 3.152 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion: 88 Resp: 4007
Ion Ratio Lower Upper
88 100
43 29.1 18.6 28.0#
58 72.4 54.5 81.7





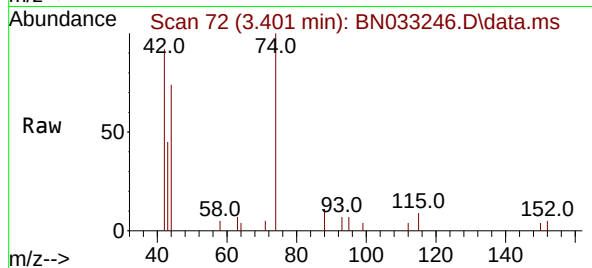
#3
n-Nitrosodimethylamine
Concen: 3.310 ng
RT: 3.401 min Scan# 71
Delta R.T. -0.057 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

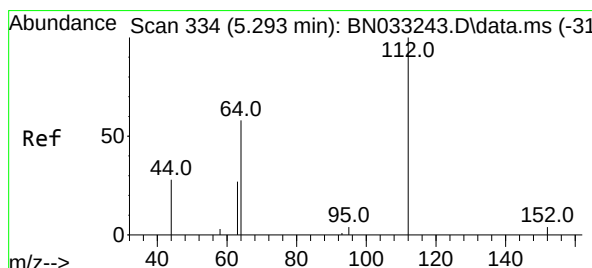
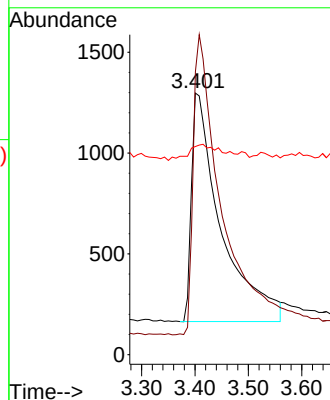
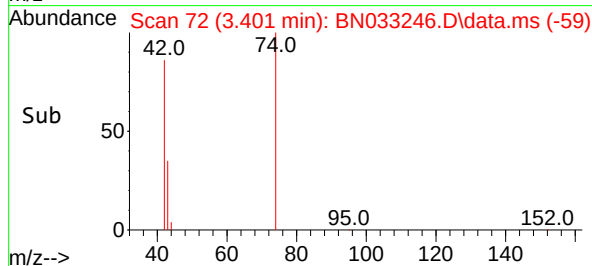
SSTDICC3.2



Tgt Ion: 42 Resp: 4335
Ion Ratio Lower Upper
42 100
74 129.8 0.0 0.0#
44 8.0 9.6 14.4#

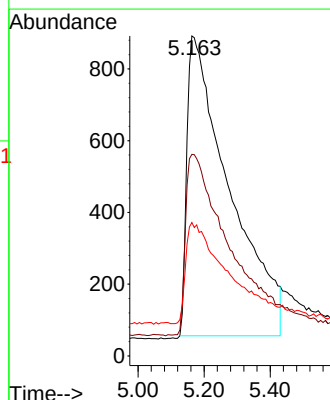
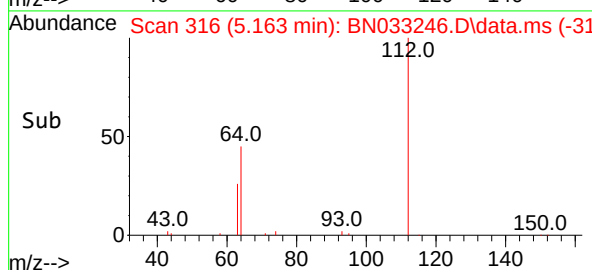
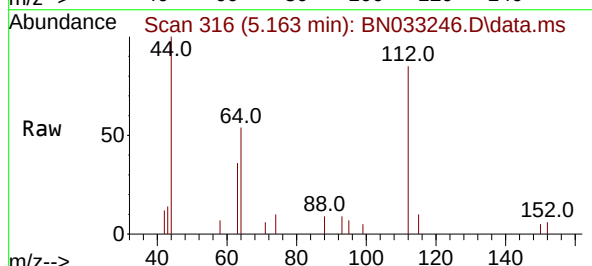
Manual Integrations
APPROVED

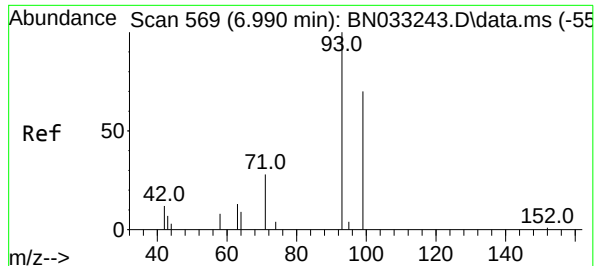
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 2.775 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.130 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion:112 Resp: 7433
Ion Ratio Lower Upper
112 100
64 58.5 18.0 27.0#
63 31.5 0.0 0.0#





#5
Phenol-d6
Concen: 3.196 ng m
RT: 6.730 min Scan# 51
Delta R.T. -0.260 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

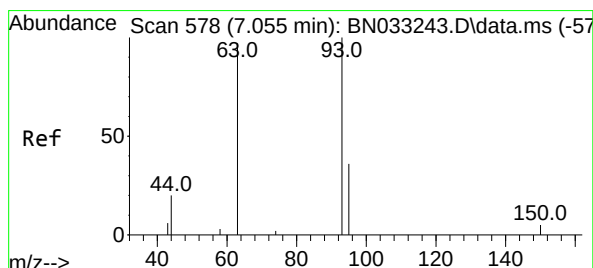
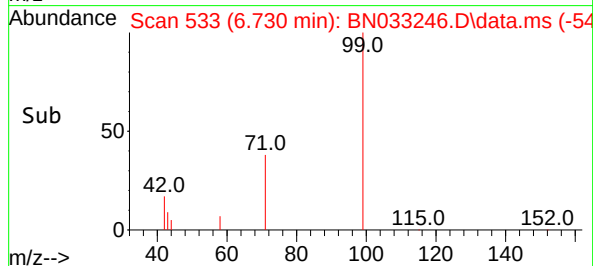
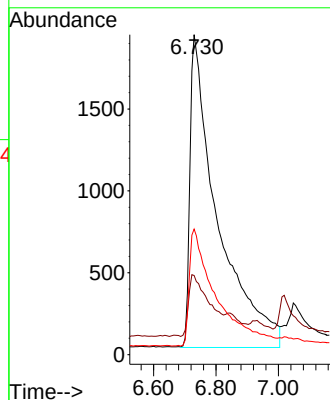
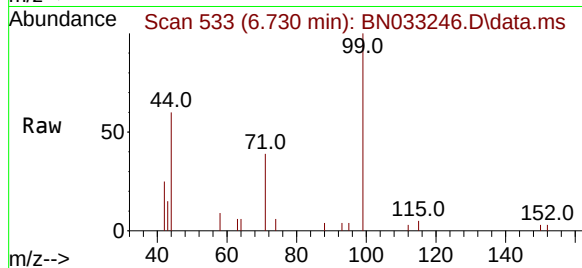
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	0.0	0.0

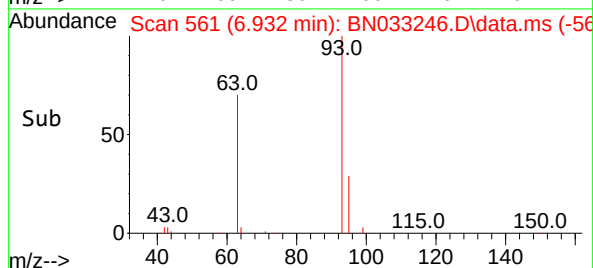
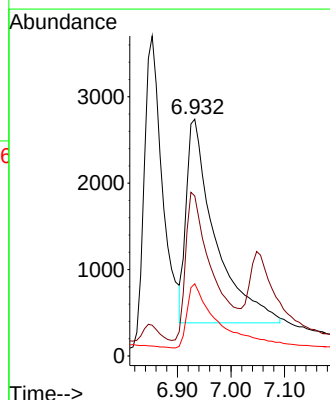
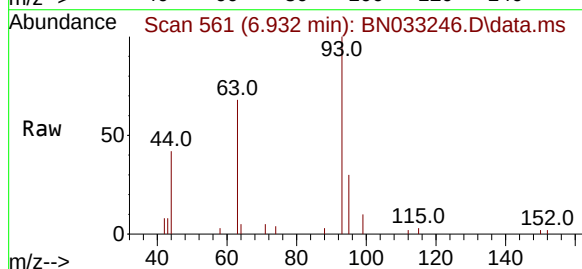
Manual Integrations
APPROVED

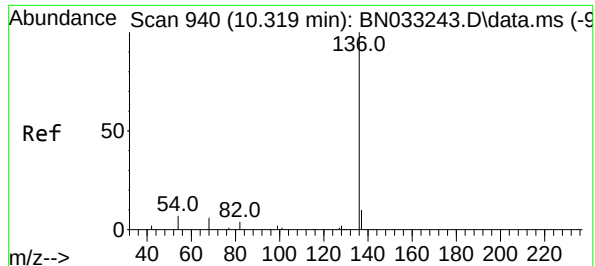
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 2.594 ng m
RT: 6.932 min Scan# 561
Delta R.T. -0.123 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

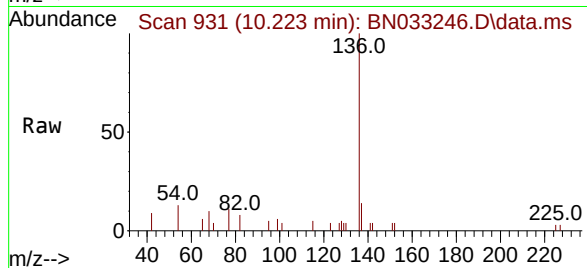
Tgt Ion	Ratio	Lower	Upper
93	100		
63	0.0	1.1	1.7#
95	0.0	0.0	0.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.223 min Scan# 91
Delta R.T. -0.096 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

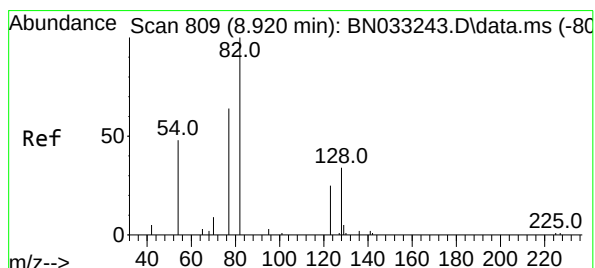
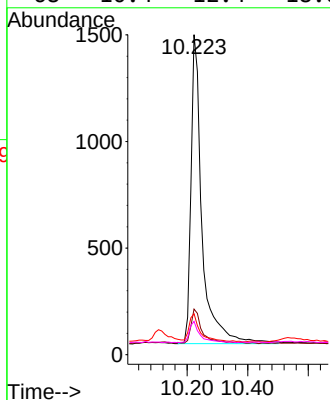
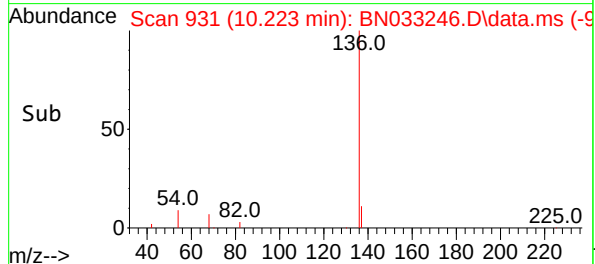
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 136 Resp: 365
Ion Ratio Lower Upper
136 100
137 14.3 14.1 21.1
54 12.8 13.8 20.8
68 10.4 12.4 18.6#

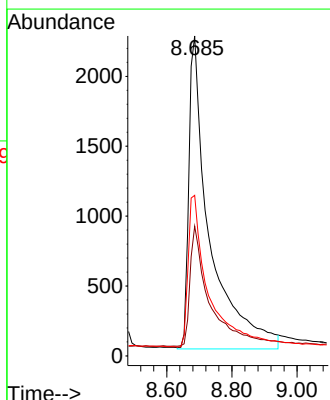
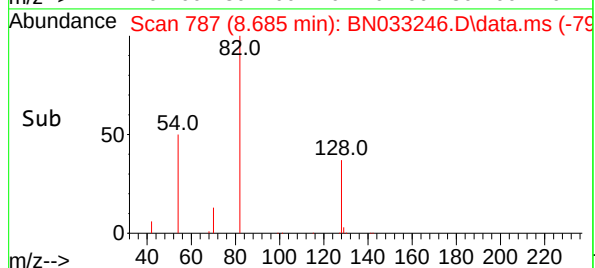
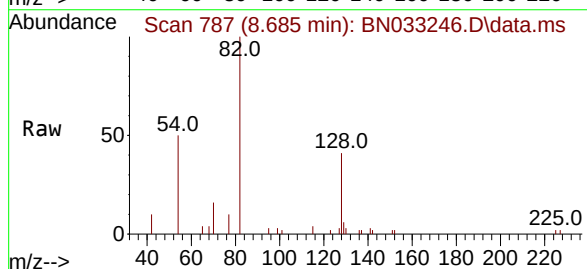
Manual Integrations
APPROVED

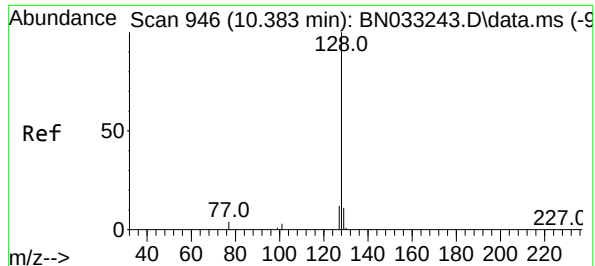
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 3.347 ng m
RT: 8.685 min Scan# 787
Delta R.T. -0.235 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion: 82 Resp: 9901
Ion Ratio Lower Upper
82 100
128 40.5 54.8 82.2#
54 50.2 55.9 83.9#





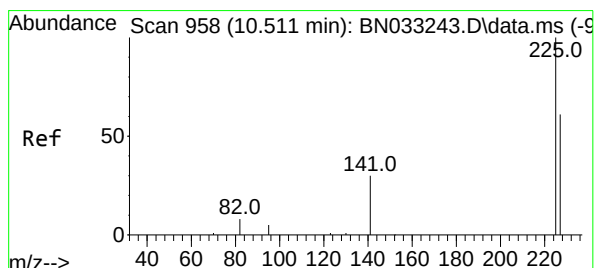
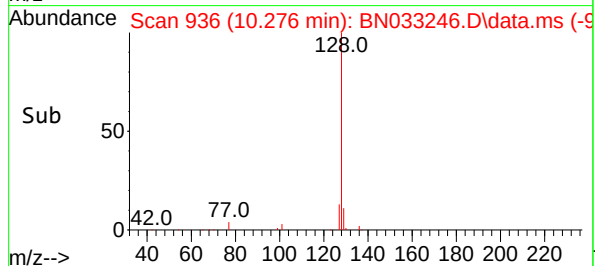
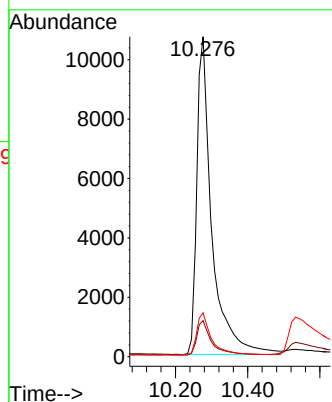
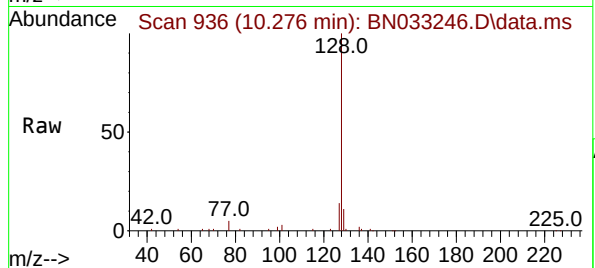
#9
Naphthalene
Concen: 3.110 ng
RT: 10.276 min Scan# 91
Delta R.T. -0.107 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 3086
Ion Ratio Lower Upper
128 100
129 11.3 15.4 23.0
127 13.7 15.8 23.6

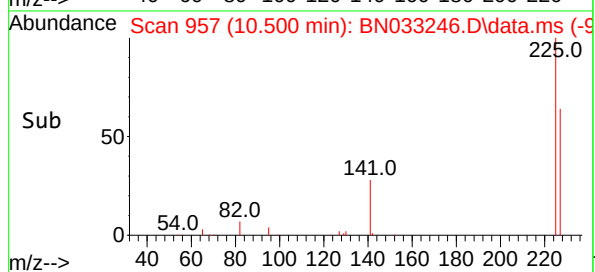
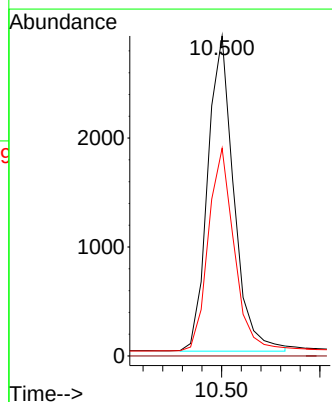
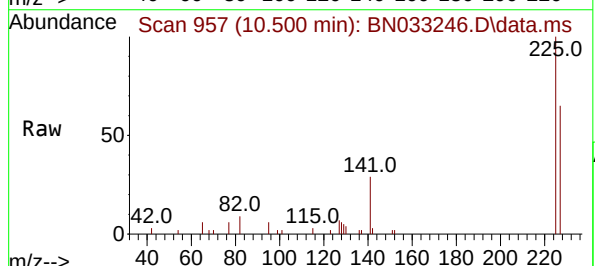
Manual Integrations
APPROVED

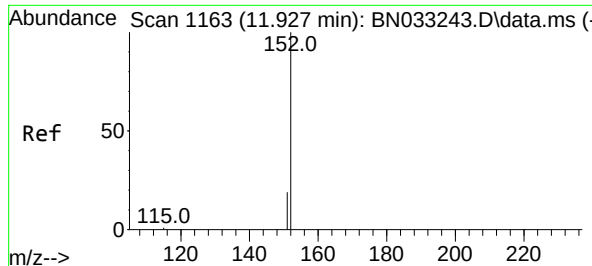
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 2.890 ng m
RT: 10.500 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

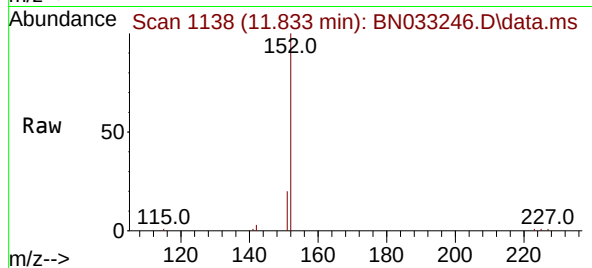
Tgt Ion:225 Resp: 5329
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.1 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 3.186 ng
RT: 11.833 min Scan# 1158
Delta R.T. -0.094 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

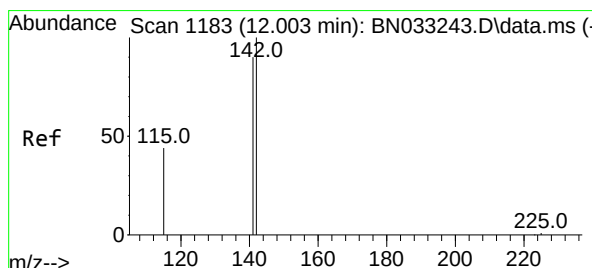
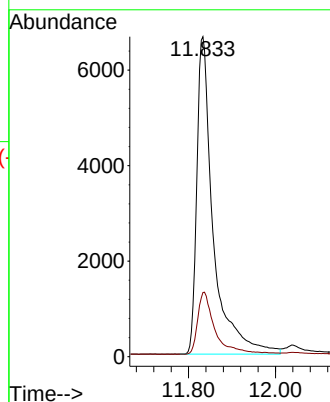
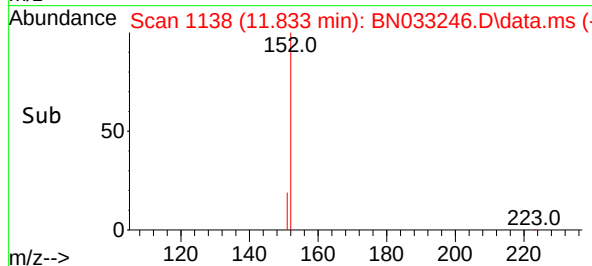
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 1743
Ion Ratio Lower Upper
152 100
151 20.4 11.9 17.9

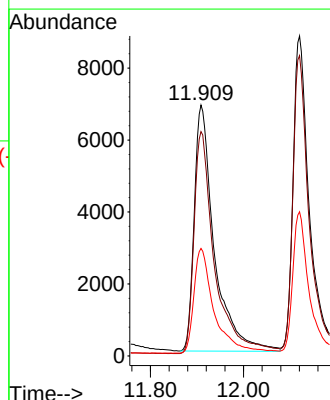
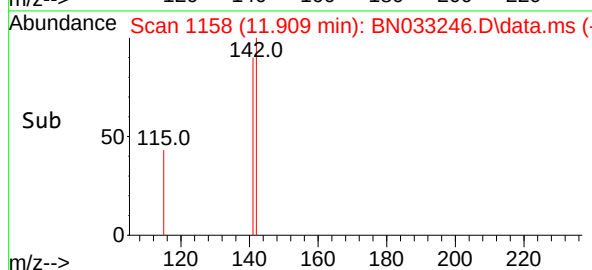
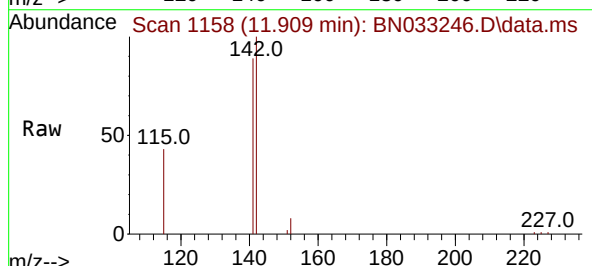
Manual Integrations
APPROVED

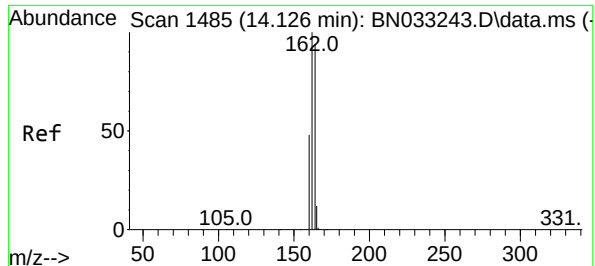
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 3.469 ng
RT: 11.909 min Scan# 1158
Delta R.T. -0.094 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

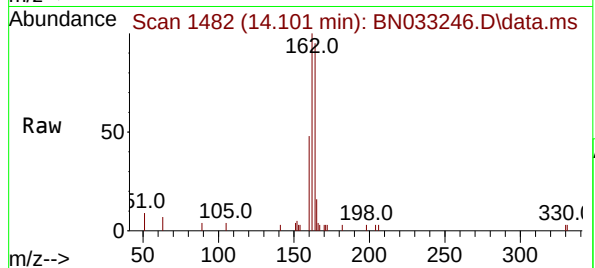
Tgt Ion:142 Resp: 20455
Ion Ratio Lower Upper
142 100
141 89.4 68.7 103.1
115 42.8 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.101 min Scan# 1482
Delta R.T. -0.025 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

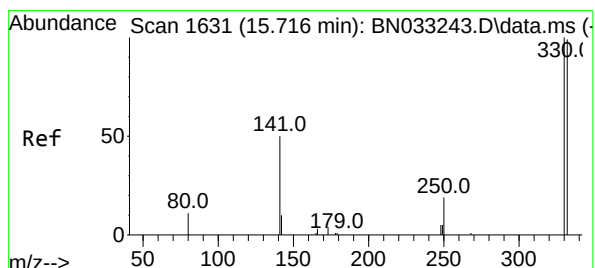
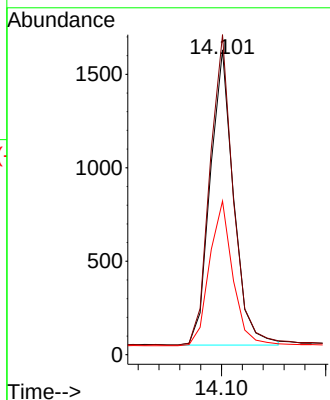
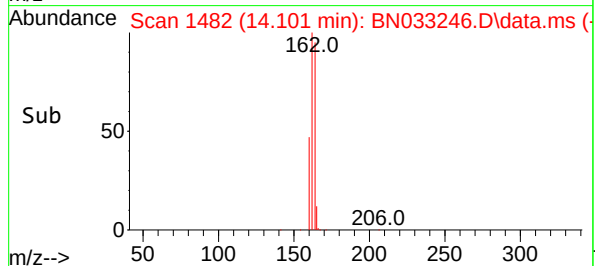
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



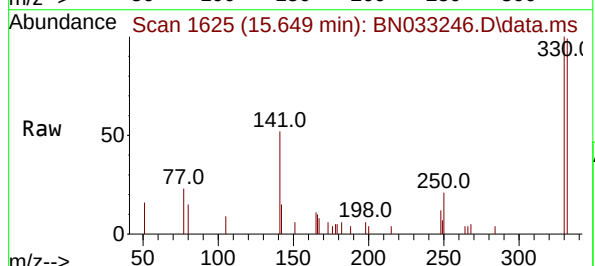
Tgt Ion:164 Resp: 246
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 50.4 42.4 63.6

Manual Integrations
APPROVED

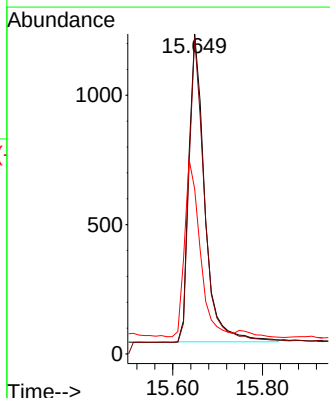
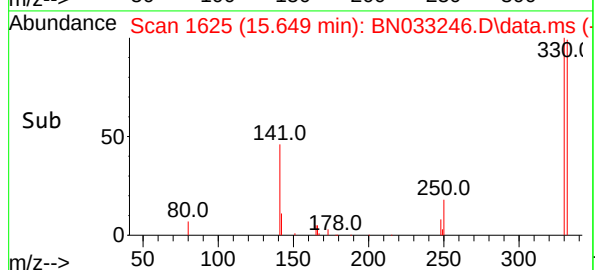
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

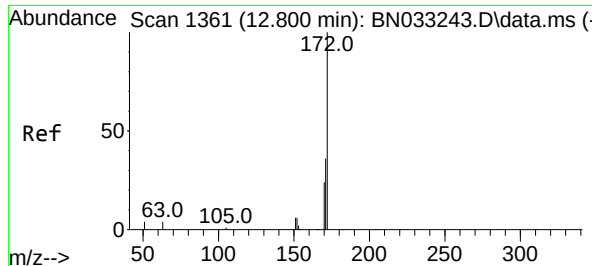


#14
2,4,6-Tribromophenol
Concen: 3.210 ng
RT: 15.649 min Scan# 1625
Delta R.T. -0.067 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44



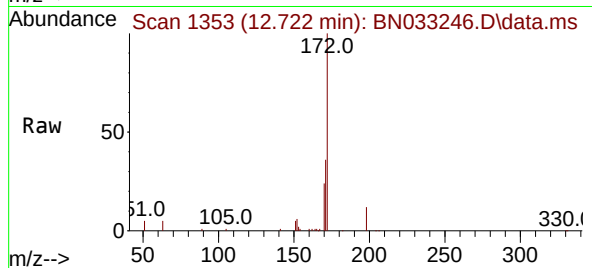
Tgt Ion:330 Resp: 2933
Ion Ratio Lower Upper
330 100
332 96.3 73.7 110.5
141 52.9 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 3.194 ng m
RT: 12.722 min Scan# 11
Delta R.T. -0.079 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

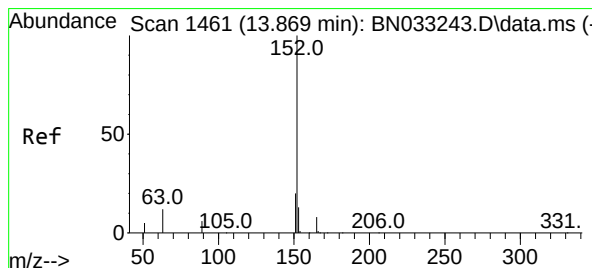
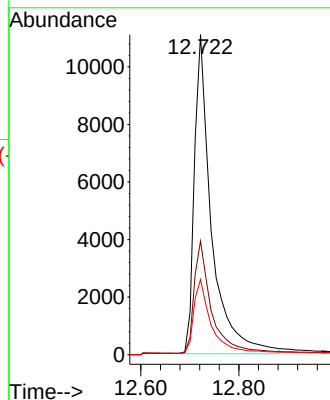
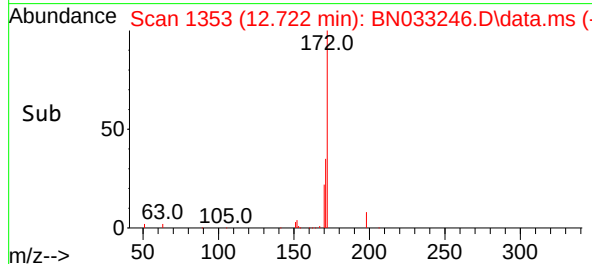
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:172 Resp: 26958
Ion Ratio Lower Upper
172 100
171 35.5 32.3 48.5
170 23.5 23.4 35.2

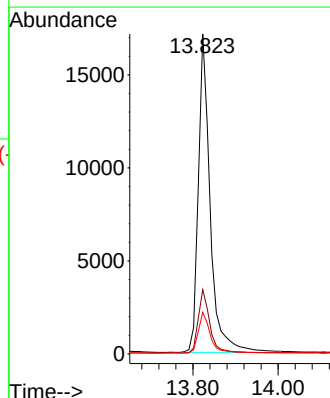
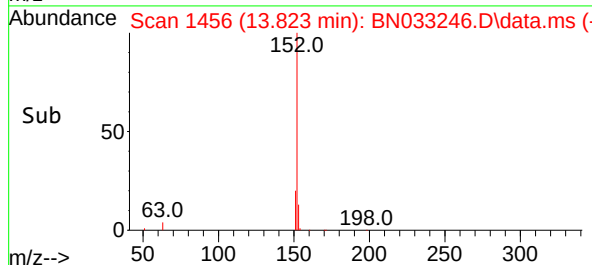
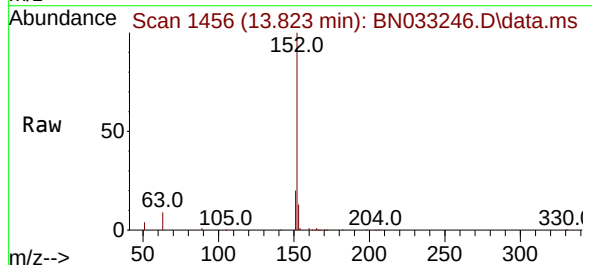
Manual Integrations
APPROVED

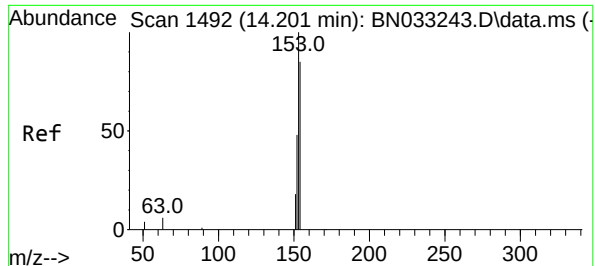
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 3.358 ng
RT: 13.823 min Scan# 1456
Delta R.T. -0.046 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

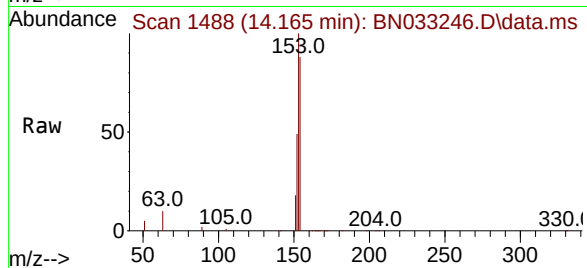
Tgt Ion:152 Resp: 32994
Ion Ratio Lower Upper
152 100
151 19.4 16.1 24.1
153 12.8 10.2 15.2





#17
Acenaphthene
Concen: 3.159 ng
RT: 14.165 min Scan# 1488
Delta R.T. -0.036 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

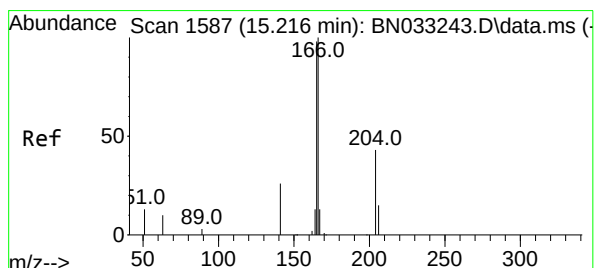
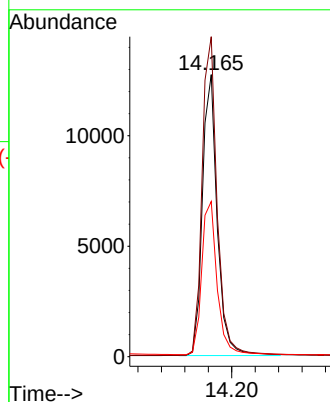
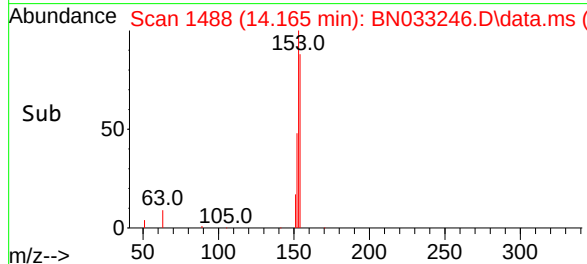
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:154 Resp: 22394
Ion Ratio Lower Upper
154 100
153 115.1 92.7 139.1
152 56.4 44.0 66.0

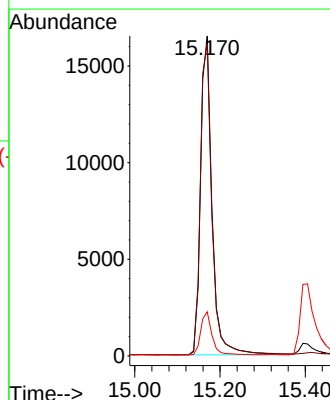
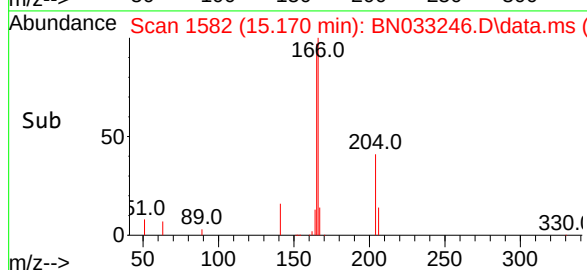
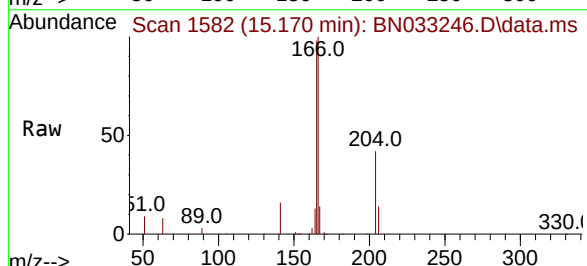
Manual Integrations
APPROVED

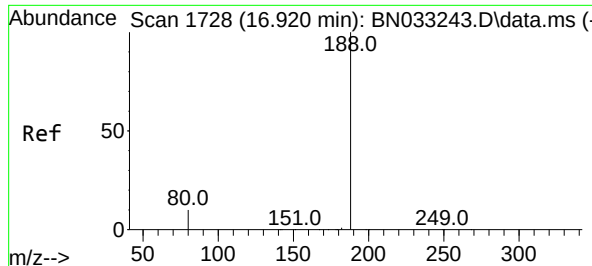
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 3.195 ng
RT: 15.170 min Scan# 1582
Delta R.T. -0.046 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion:166 Resp: 30658
Ion Ratio Lower Upper
166 100
165 99.1 79.6 119.4
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.877 min Scan# 11

Delta R.T. -0.043 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

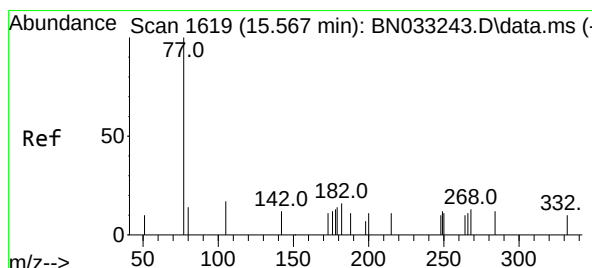
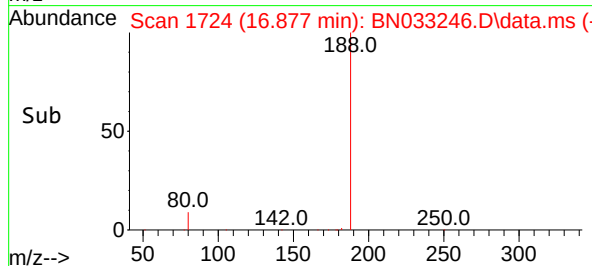
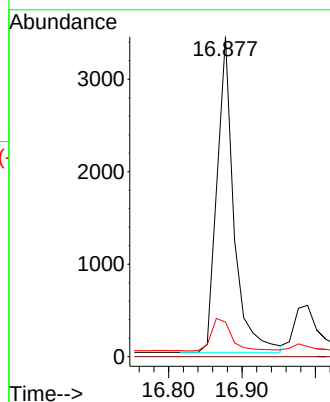
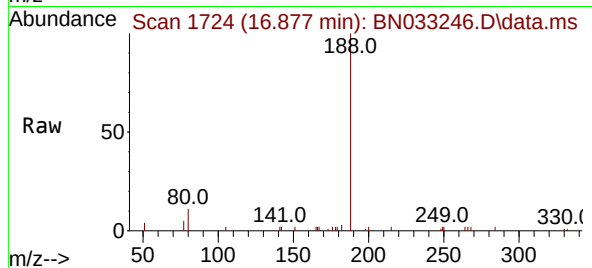
Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	10.2	15.4

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 2.879 ng m

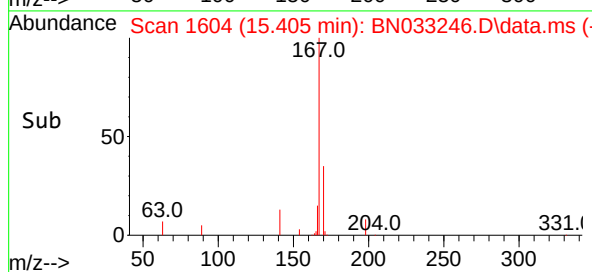
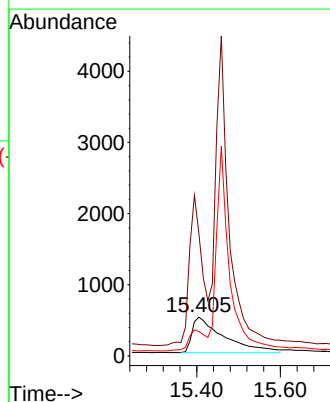
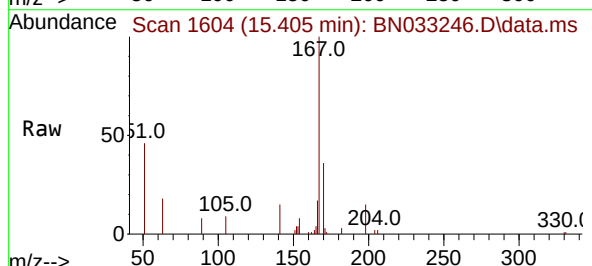
RT: 15.405 min Scan# 1604

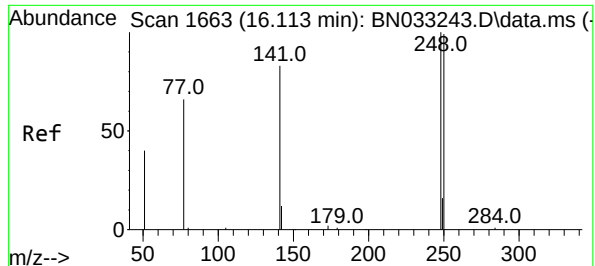
Delta R.T. -0.162 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Tgt Ion	Ratio	Lower	Upper
198	100		
51	315.2	250.6	375.8
105	62.9	152.6	229.0#





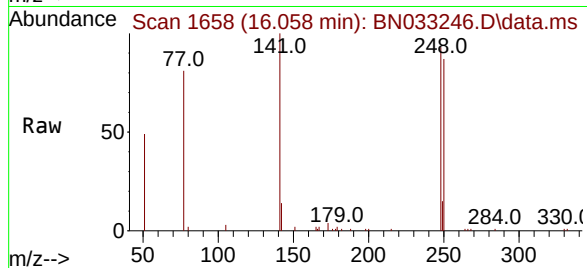
#21
4-Bromophenyl-phenylether
Concen: 3.056 ng
RT: 16.058 min Scan# 1658
Delta R.T. -0.055 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

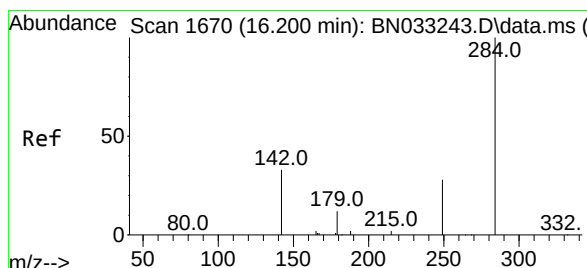
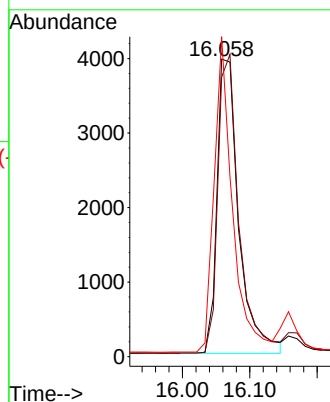
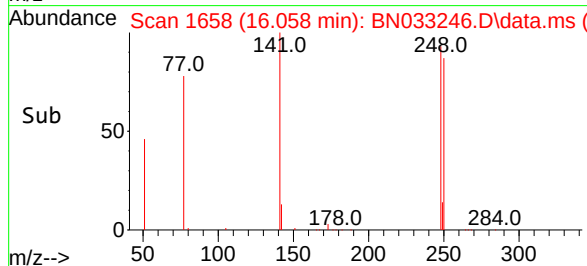


Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.0	120.0
141	107.5	71.0	106.6

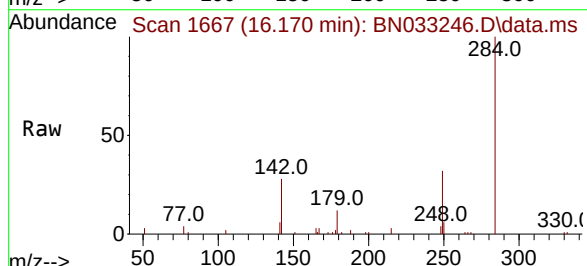
Manual Integrations

APPROVED

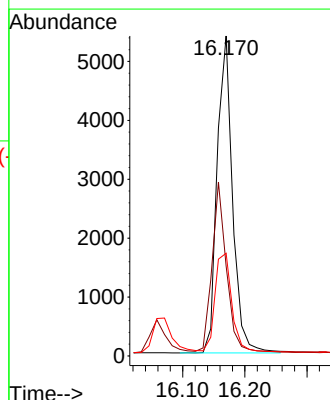
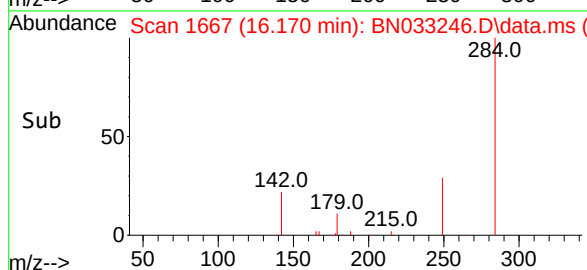
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

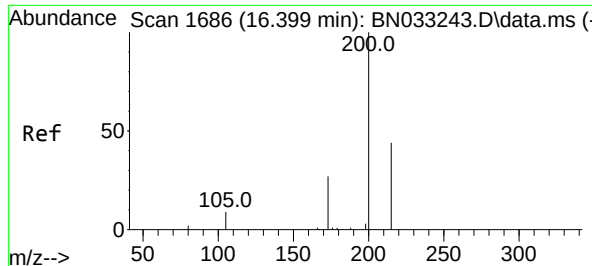


#22
Hexachlorobenzene
Concen: 3.054 ng
RT: 16.170 min Scan# 1667
Delta R.T. -0.030 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44



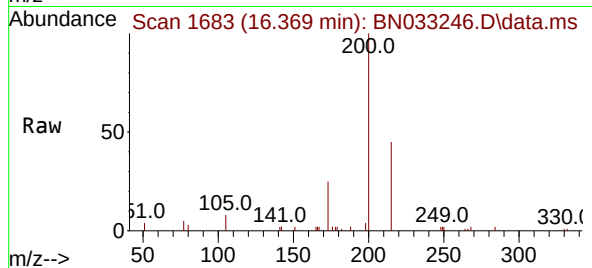
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.6	38.8	58.2
249	34.2	27.8	41.6





#23
Atrazine
Concen: 3.123 ng
RT: 16.369 min Scan# 1699
Delta R.T. -0.030 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

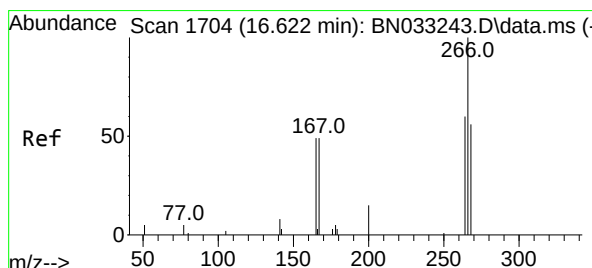
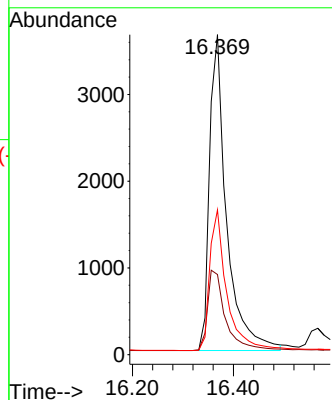
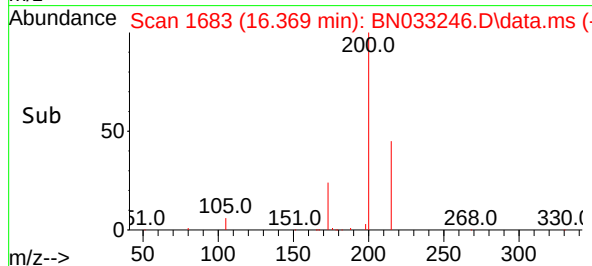
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:200 Resp: 852
Ion Ratio Lower Upper
200 100
173 25.0 29.2 43.8
215 45.2 41.5 62.3

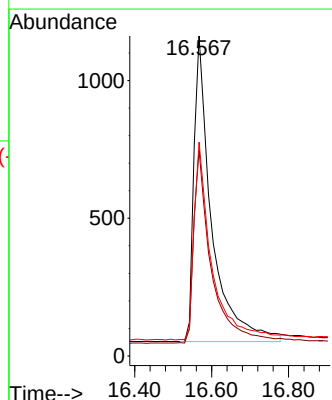
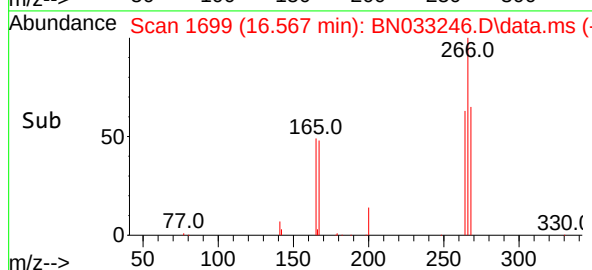
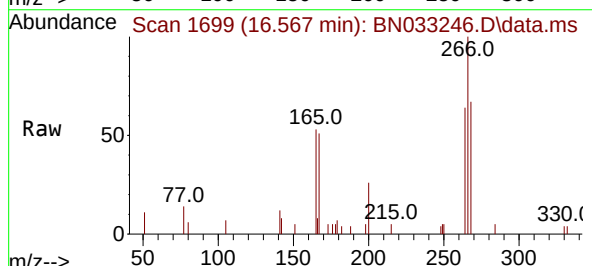
Manual Integrations
APPROVED

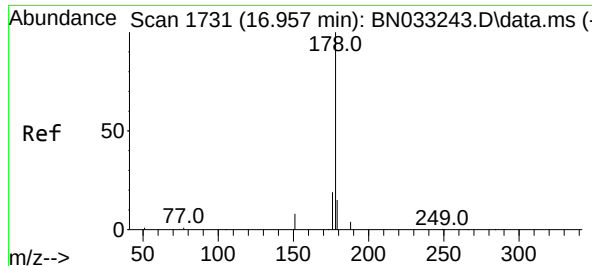
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 3.514 ng
RT: 16.567 min Scan# 1699
Delta R.T. -0.055 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

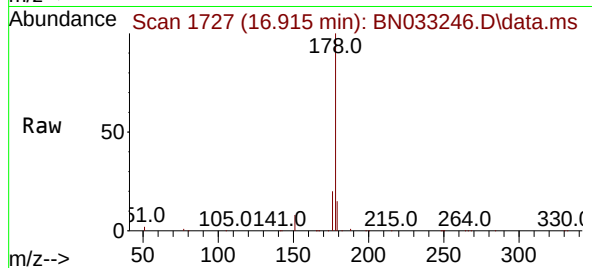
Tgt Ion:266 Resp: 3558
Ion Ratio Lower Upper
266 100
264 62.1 49.3 73.9
268 63.9 50.2 75.2





#25
Phenanthrene
Concen: 3.187 ng
RT: 16.915 min Scan# 1731
Delta R.T. -0.042 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

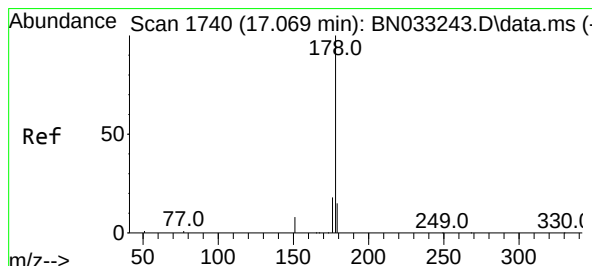
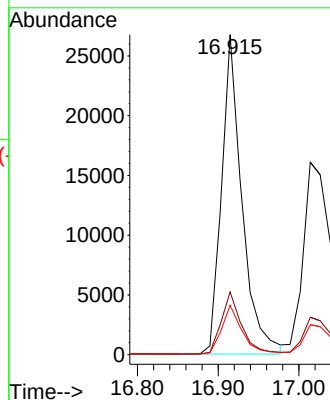
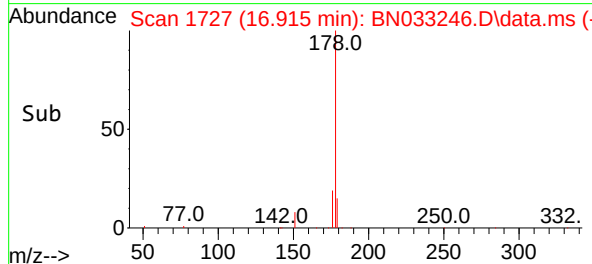
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:178 Resp: 4685
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.2 12.4 18.6

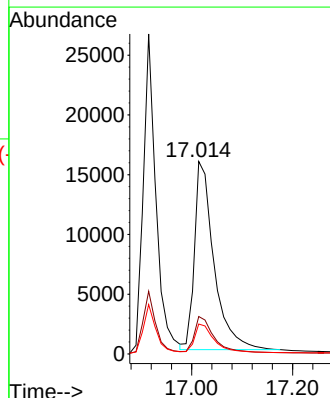
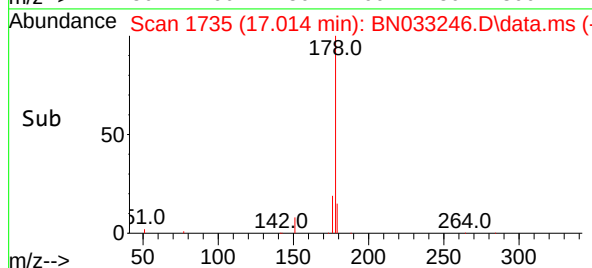
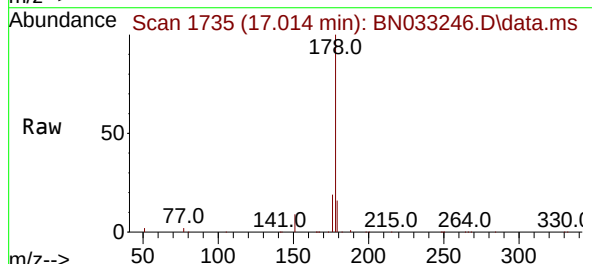
Manual Integrations
APPROVED

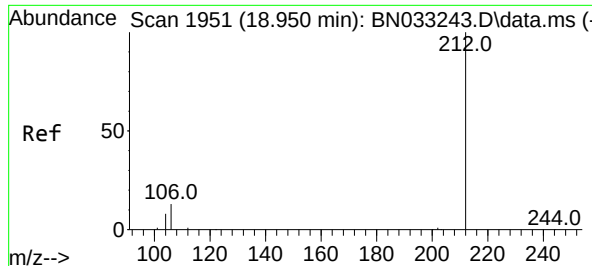
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 3.442 ng
RT: 17.014 min Scan# 1735
Delta R.T. -0.055 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion:178 Resp: 42404
Ion Ratio Lower Upper
178 100
176 18.8 10.5 15.7#
179 15.2 8.6 12.8#





#27

Fluoranthene-d10

Concen: 3.137 ng

RT: 18.920 min Scan# 1943

Delta R.T. -0.030 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

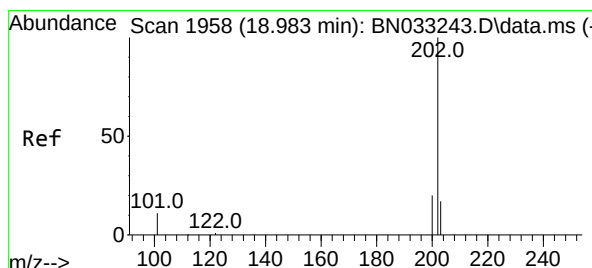
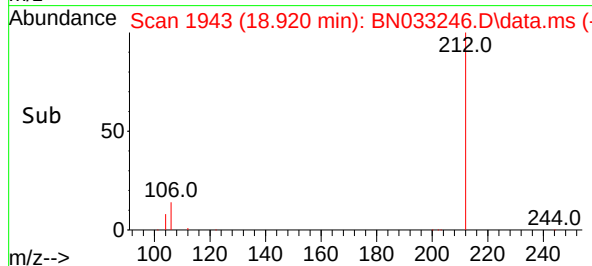
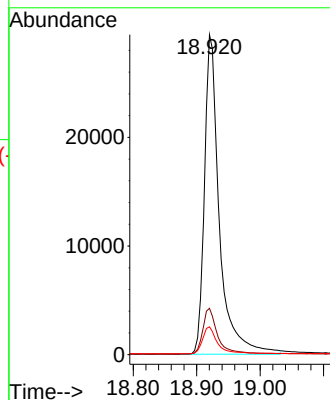
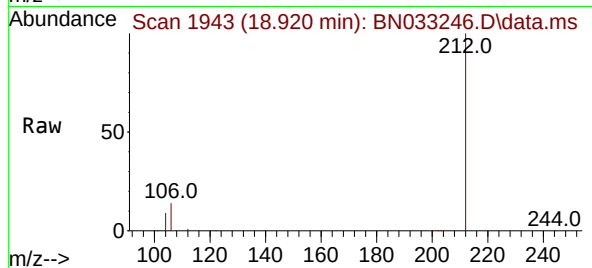
ClientSampleId :

SSTDICC3.2

Tgt Ion:	212	Resp:	47960
Ion Ratio	Lower	Upper	
212	100		
106	14.3	11.4	17.0
104	8.4	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 3.101 ng

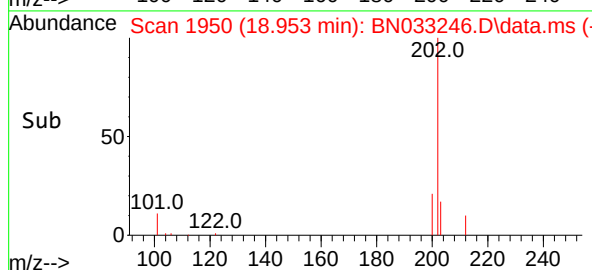
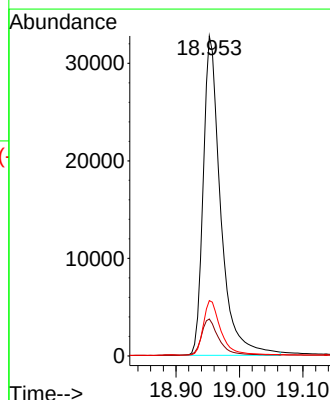
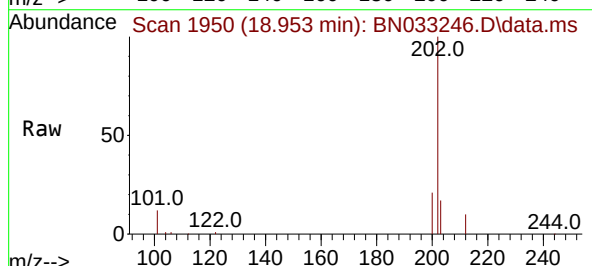
RT: 18.953 min Scan# 1950

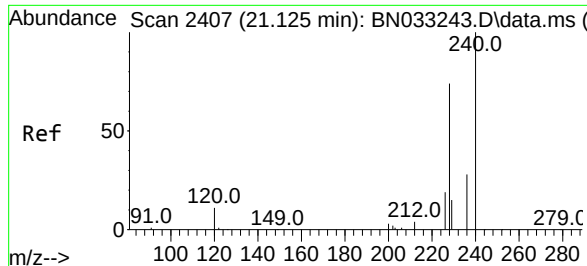
Delta R.T. -0.030 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

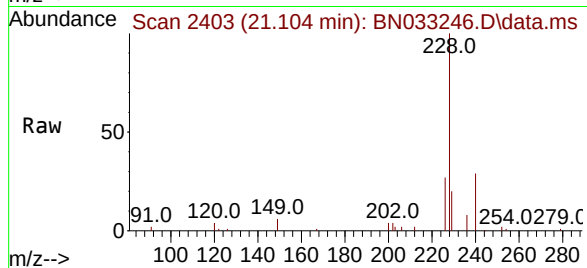
Tgt Ion:	202	Resp:	62522
Ion Ratio	Lower	Upper	
202	100		
101	11.5	8.6	13.0
203	17.3	13.8	20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.104 min Scan# 2403
Delta R.T. -0.021 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

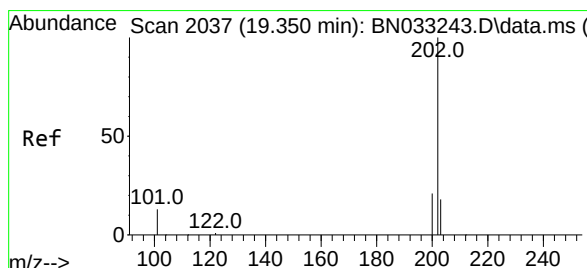
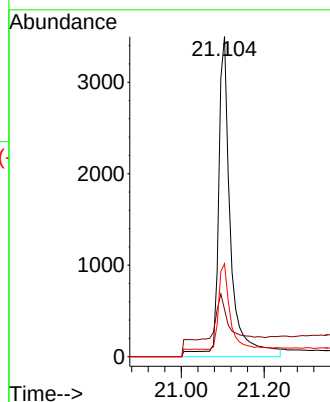
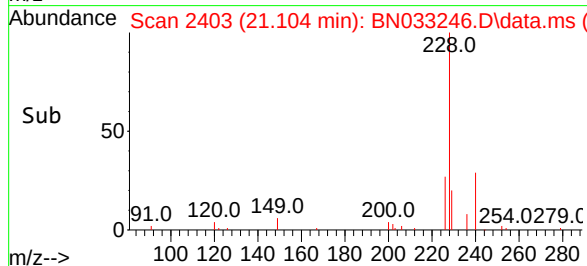
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:240 Resp: 685
Ion Ratio Lower Upper
240 100
120 14.8 13.3 19.9
236 29.0 23.8 35.6

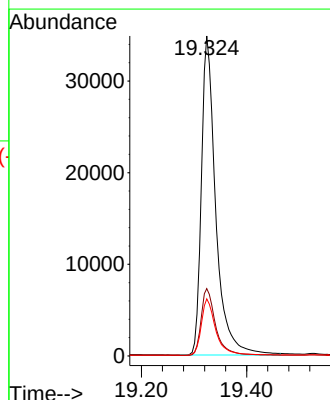
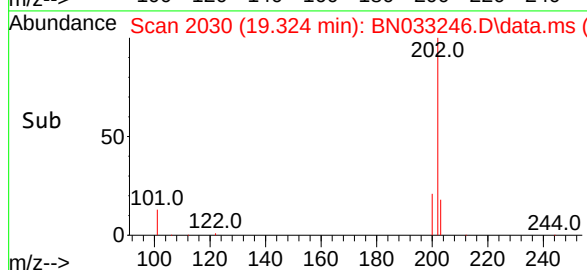
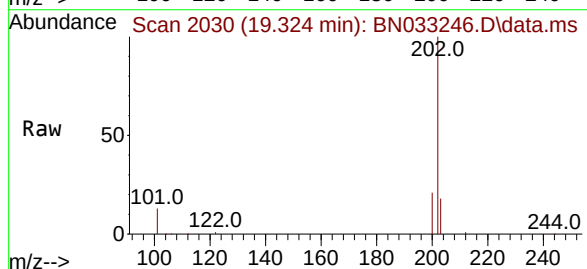
Manual Integrations
APPROVED

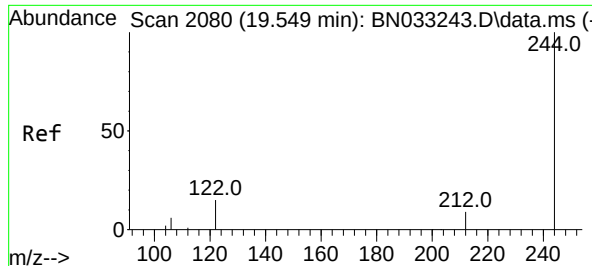
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30
Pyrene
Concen: 2.760 ng
RT: 19.324 min Scan# 2030
Delta R.T. -0.026 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion:202 Resp: 66137
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.9 14.4 21.6





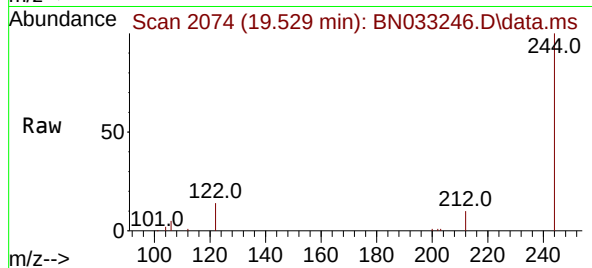
#31
Terphenyl-d14
Concen: 2.853 ng
RT: 19.529 min Scan# 2080
Delta R.T. -0.021 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

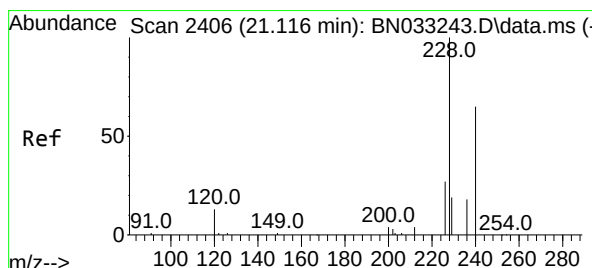
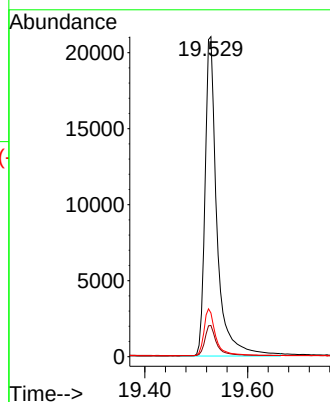
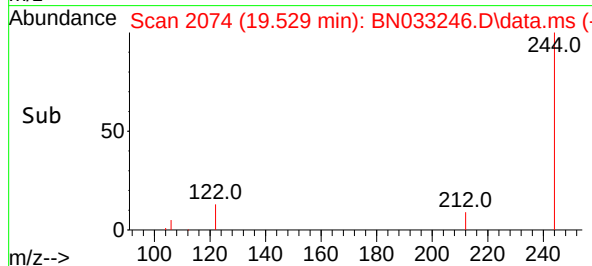


Tgt Ion:244 Resp: 3378
Ion Ratio Lower Upper
244 100
212 9.7 9.9 14.9
122 13.7 14.1 21.1

Manual Integrations

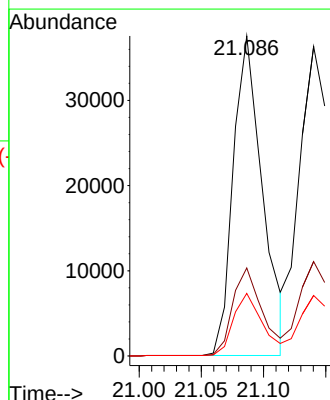
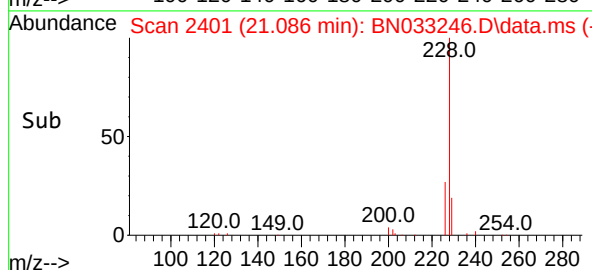
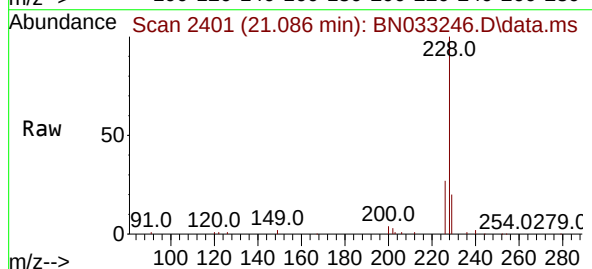
APPROVED

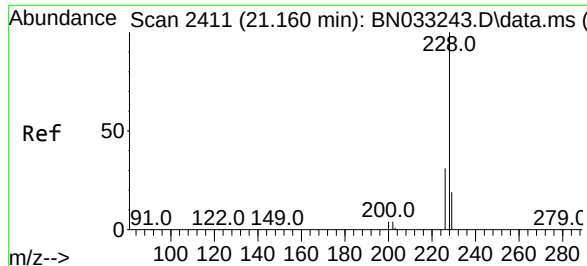
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.086 min Scan# 2401
Delta R.T. -0.030 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Tgt Ion:228 Resp: 61499
Ion Ratio Lower Upper
228 100
226 27.5 22.4 33.6
229 19.5 16.6 25.0





#33

Chrysene

Concen: 2.797 ng

RT: 21.140 min Scan# 2411

Delta R.T. -0.020 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

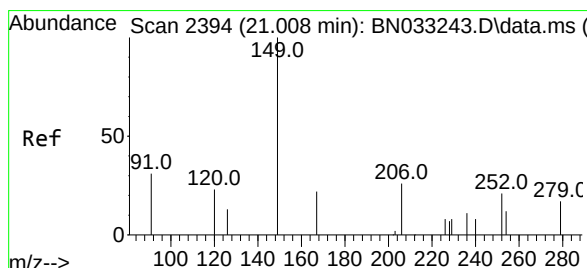
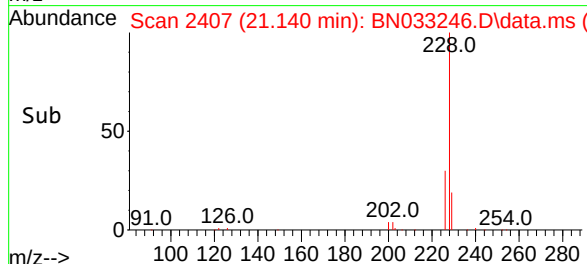
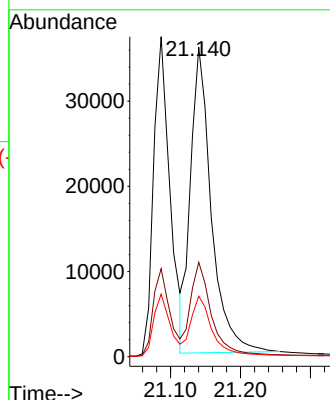
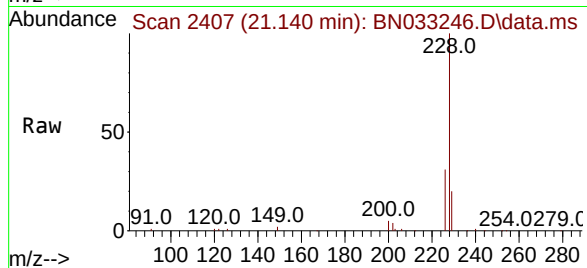
ClientSampleId :

SSTDICC3.2

Tgt Ion:	228	Resp:	7418
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.1	37.7
229	19.5	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.447 ng

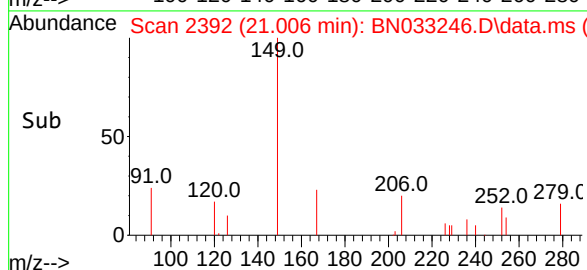
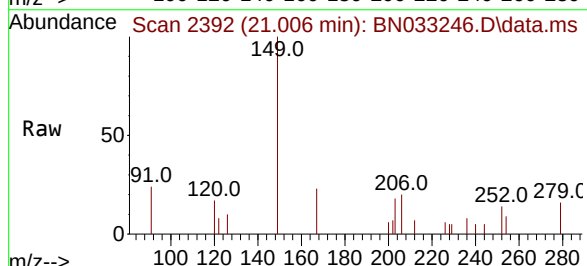
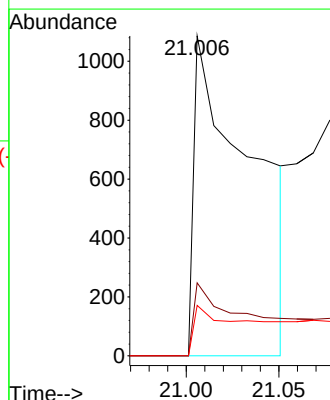
RT: 21.006 min Scan# 2392

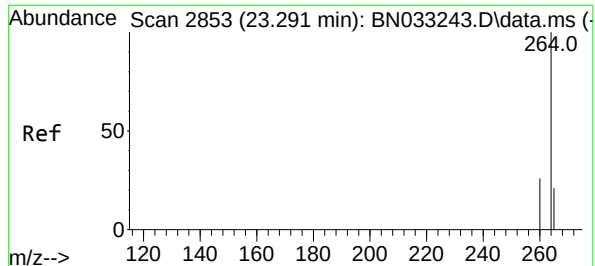
Delta R.T. -0.002 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Tgt Ion:	149	Resp:	2121
Ion Ratio	Lower	Upper	
149	100		
167	27.4	19.8	29.6
279	16.6	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.277 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN033246.D

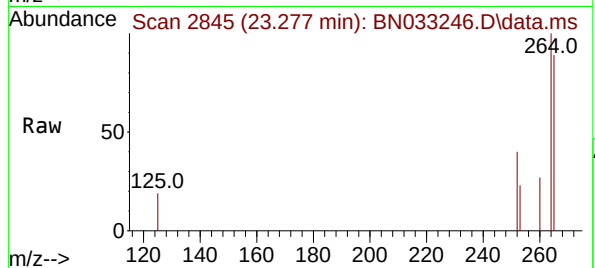
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 760

Ion Ratio Lower Upper

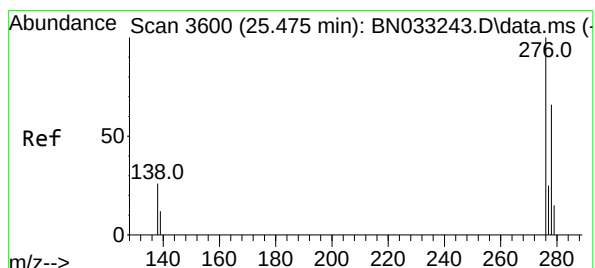
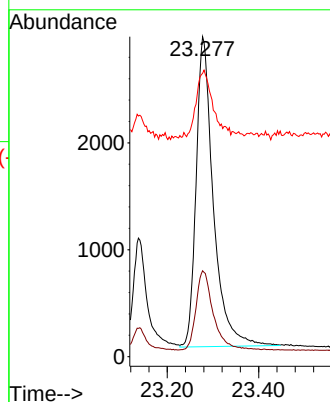
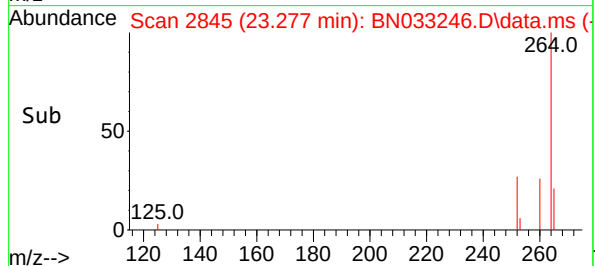
264 100

260 26.8 21.4 32.2

265 88.6 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 3.332 ng

RT: 25.423 min Scan# 3579

Delta R.T. -0.052 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

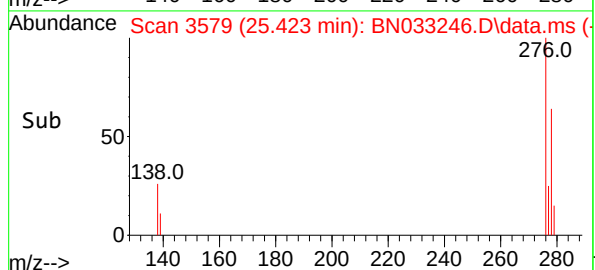
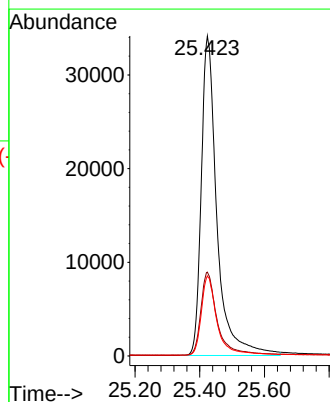
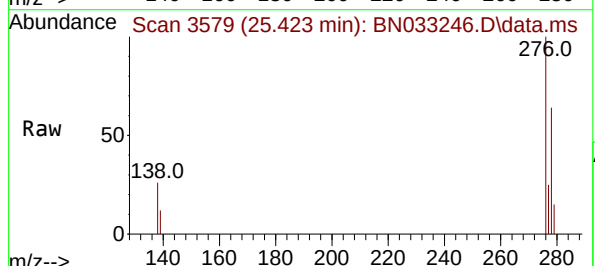
Tgt Ion:276 Resp: 114493

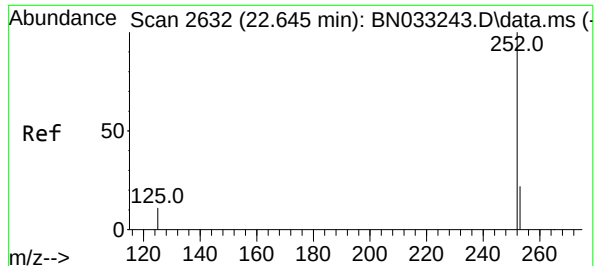
Ion Ratio Lower Upper

276 100

138 27.2 20.4 30.6

277 25.0 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 3.345 ng

RT: 22.617 min Scan# 2619

Delta R.T. -0.028 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 7711

Ion Ratio Lower Upper

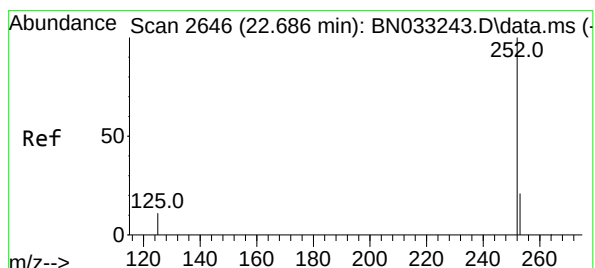
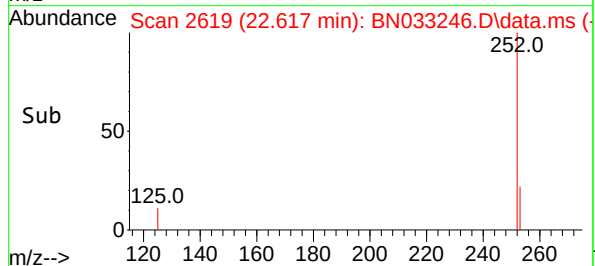
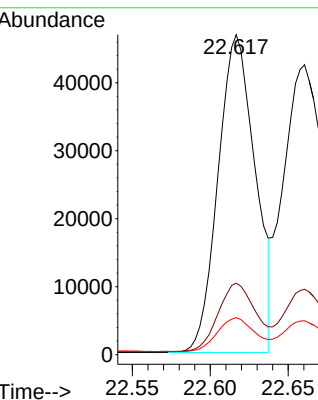
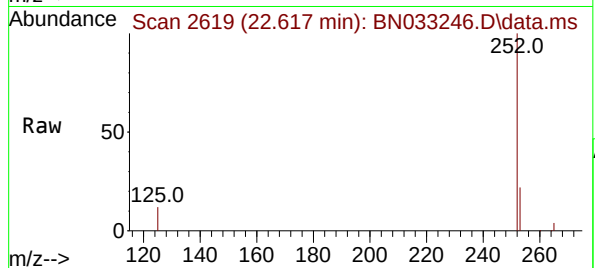
252 100

253 22.4 23.3 34.9

125 11.6 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#38

Benzo(k)fluoranthene

Concen: 3.080 ng

RT: 22.660 min Scan# 2634

Delta R.T. -0.025 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

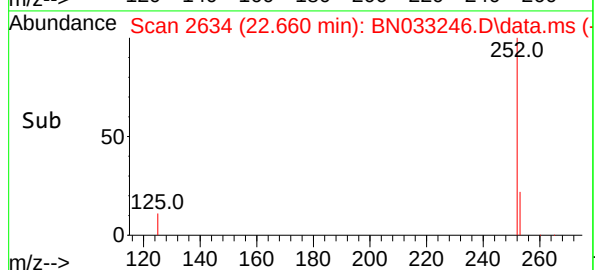
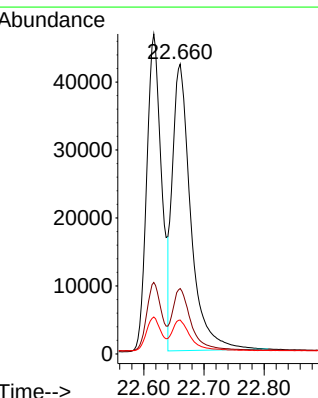
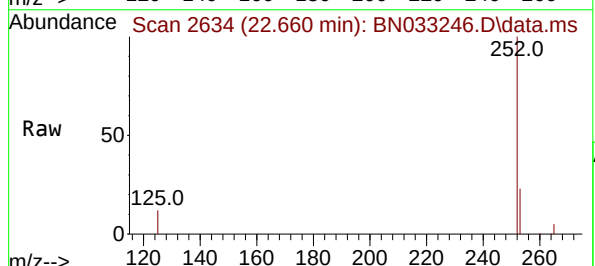
Tgt Ion:252 Resp: 89451

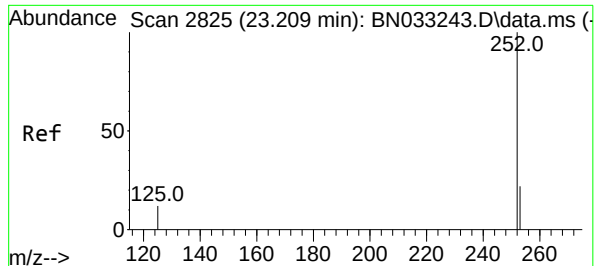
Ion Ratio Lower Upper

252 100

253 22.6 23.7 35.5

125 11.7 15.4 23.0





#39

Benzo(a)pyrene

Concen: 3.245 ng

RT: 23.181 min Scan# 2812

Delta R.T. -0.028 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

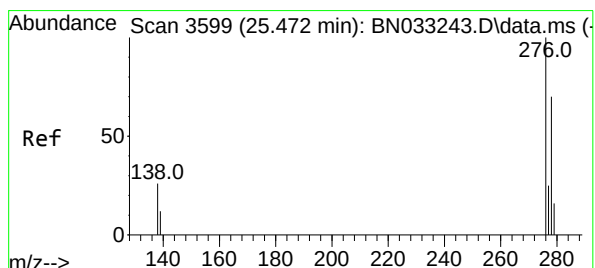
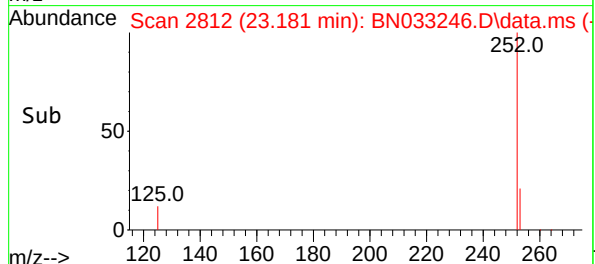
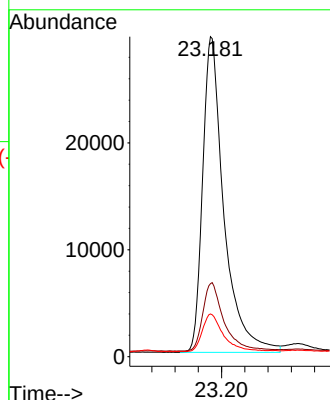
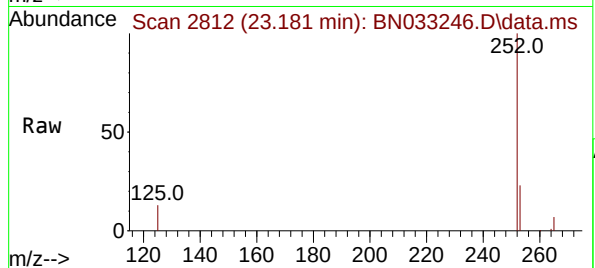
SSTDICC3.2

Tgt Ion:	252	Resp:	7514
Ion Ratio	Lower	Upper	
252	100		
253	22.8	28.4	42.6
125	13.4	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.373 ng

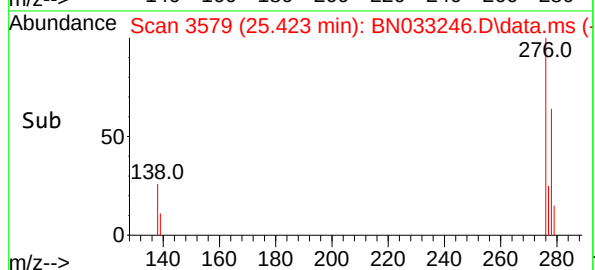
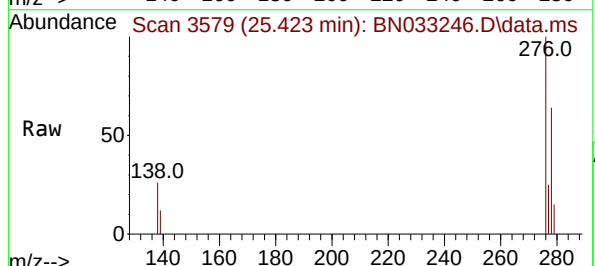
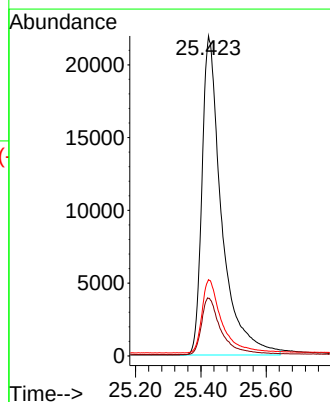
RT: 25.423 min Scan# 3579

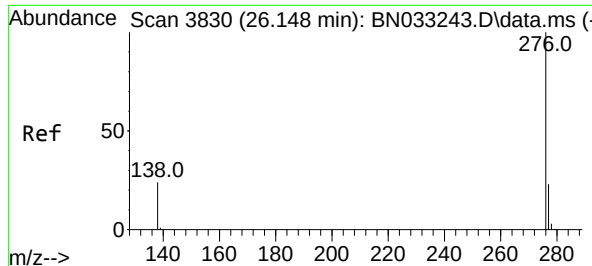
Delta R.T. -0.049 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Tgt Ion:	278	Resp:	91538
Ion Ratio	Lower	Upper	
278	100		
139	18.0	16.7	25.1
279	23.8	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 3.235 ng

RT: 26.096 min Scan# 3809

Delta R.T. -0.052 min

Lab File: BN033246.D

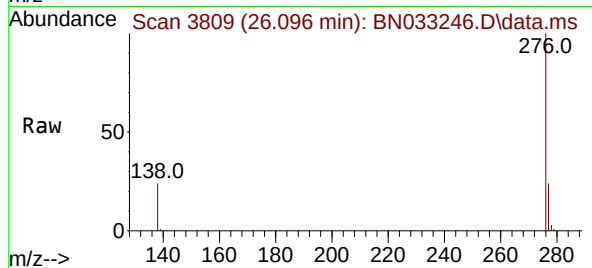
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 10061

Ion Ratio Lower Upper

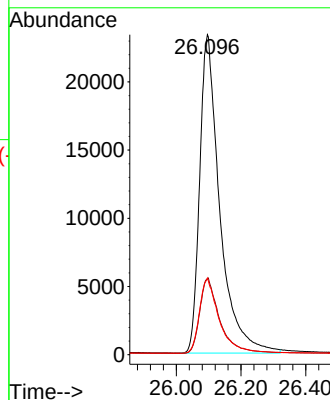
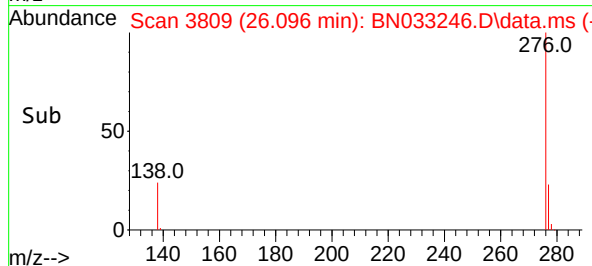
276 100

277 23.7 21.0 31.4

138 24.0 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033247.D
Acq On : 05 Aug 2024 22:21
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 23:49:15 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:33:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.459	152	1154	0.400	ng	-0.05
7) Naphthalene-d8	10.212	136	4069	0.400	ng	#-0.11
13) Acenaphthene-d10	14.094	164	2698	0.400	ng	-0.03
19) Phenanthrene-d10	16.870	188	6325	0.400	ng	-0.05
29) Chrysene-d12	21.098	240	7091	0.400	ng	-0.03
35) Perylene-d12	23.274	264	8557	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.141	112	13560m	4.712	ng	-0.15
5) Phenol-d6	6.701	99	20464m	5.227	ng	-0.29
8) Nitrobenzene-d5	8.653	82	17164m	5.207	ng	-0.27
11) 2-Methylnaphthalene-d10	11.818	152	31167	5.112	ng	-0.11
14) 2,4,6-Tribromophenol	15.642	330	5583m	5.576	ng	-0.07
15) 2-Fluorobiphenyl	12.704	172	47769m	5.164	ng	-0.10
27) Fluoranthene-d10	18.918	212	86795	4.904	ng	-0.03
31) Terphenyl-d14	19.522	244	60251	4.919	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.047	88	6621	4.977	ng	# 93
3) n-Nitrosodimethylamine	3.393	42	7613	5.409	ng	# 83
6) bis(2-Chloroethyl)ether	6.910	93	17198m	4.715	ng	
9) Naphthalene	10.265	128	53897	4.874	ng	# 84
10) Hexachlorobutadiene	10.500	225	9310m	4.531	ng	
12) 2-Methylnaphthalene	11.893	142	36852	5.607	ng	92
16) Acenaphthylene	13.816	152	58768	5.458	ng	100
17) Acenaphthene	14.158	154	39894	5.135	ng	99
18) Fluorene	15.163	166	54279	5.161	ng	100
20) 4,6-Dinitro-2-methylph...	15.377	198	5924m	5.158	ng	
21) 4-Bromophenyl-phenylether	16.051	248	15971	4.759	ng	88
22) Hexachlorobenzene	16.163	284	16383	4.676	ng	99
23) Atrazine	16.361	200	15681	4.962	ng	# 86
24) Pentachlorophenol	16.548	266	6889	5.878	ng	100
25) Phenanthrene	16.908	178	84692	4.978	ng	99
26) Anthracene	17.007	178	78319	5.491	ng	# 87
28) Fluoranthene	18.950	202	112216	4.809	ng	99
30) Pyrene	19.317	202	118828	4.795	ng	100
32) Benzo(a)anthracene	21.080	228	109718	5.373	ng	98
33) Chrysene	21.134	228	128815	4.696	ng	98
34) Bis(2-ethylhexyl)phtha...	21.008	149	2189	0.446	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.414	276	199441	5.156	ng	98
37) Benzo(b)fluoranthene	22.607	252	139033	5.358	ng	# 86
38) Benzo(k)fluoranthene	22.654	252	155977	4.772	ng	# 85
39) Benzo(a)pyrene	23.171	252	133832	5.135	ng	# 77
40) Dibenzo(a,h)anthracene	25.420	278	159088	5.208	ng	# 89
41) Benzo(g,h,i)perylene	26.080	276	173666	4.961	ng	94

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033247.D
 Acq On : 05 Aug 2024 22:21
 Operator : MA/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

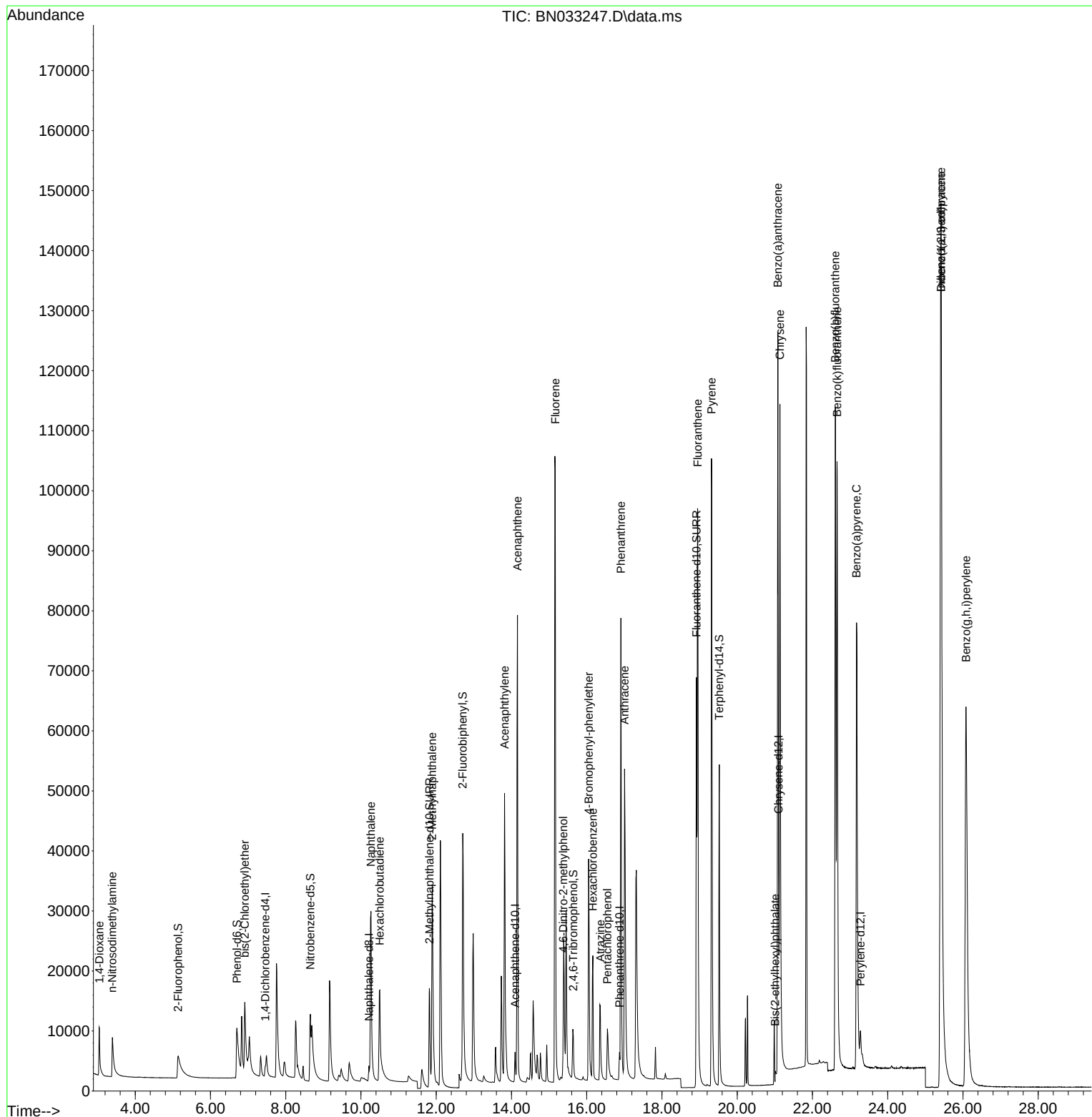
SSTDICC5.0

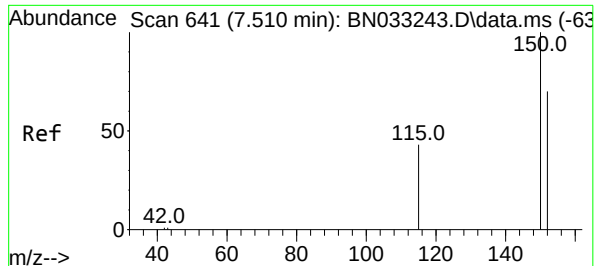
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

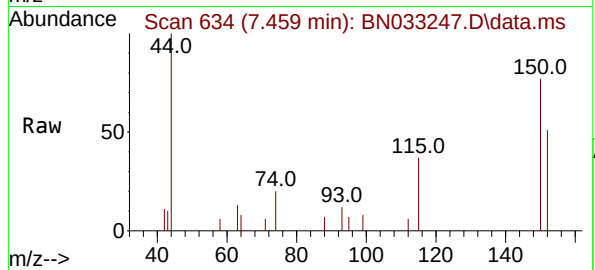
Quant Time: Aug 05 23:49:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:33:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.459 min Scan# 61
Delta R.T. -0.051 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

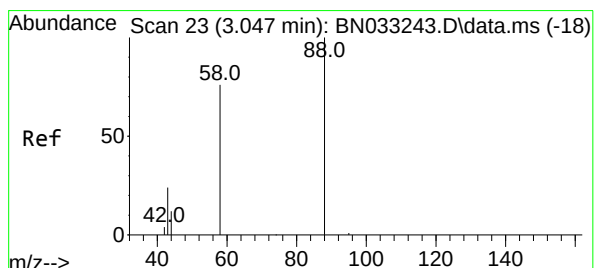
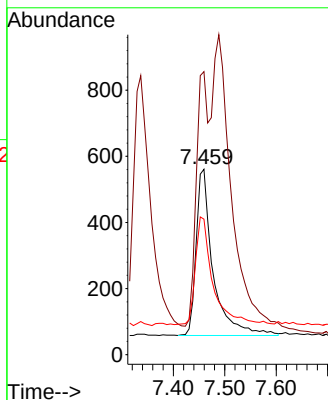
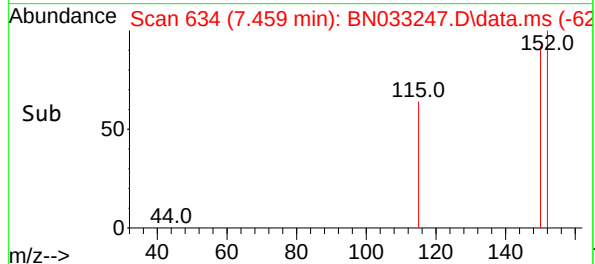
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:152 Resp: 1154
Ion Ratio Lower Upper
152 100
150 152.6 108.2 162.2
115 73.1 70.5 105.7

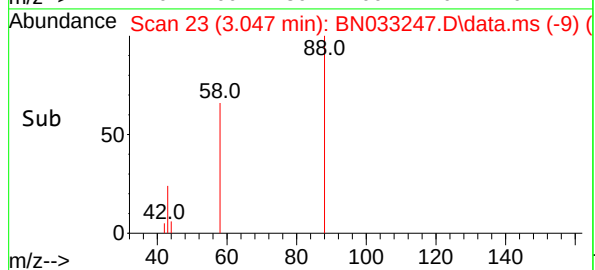
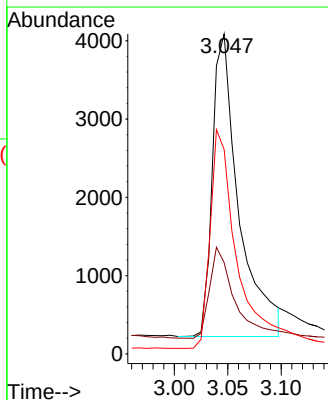
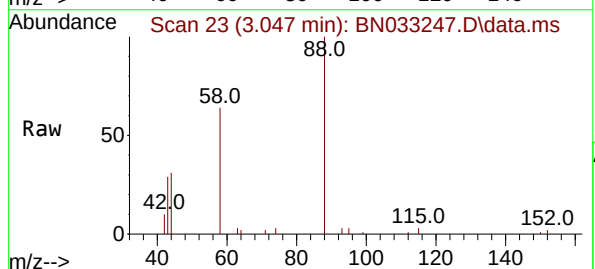
Manual Integrations
APPROVED

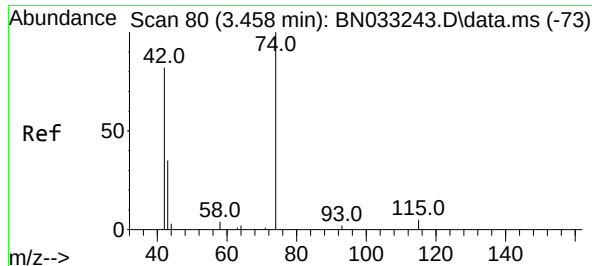
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 4.977 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion: 88 Resp: 6621
Ion Ratio Lower Upper
88 100
43 28.5 18.6 28.0#
58 72.6 54.5 81.7





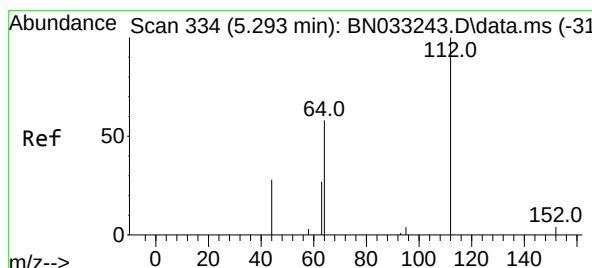
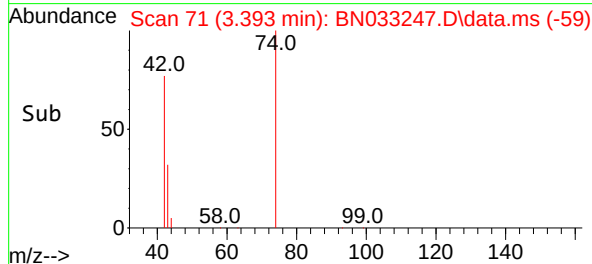
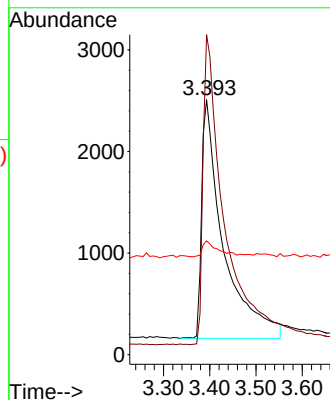
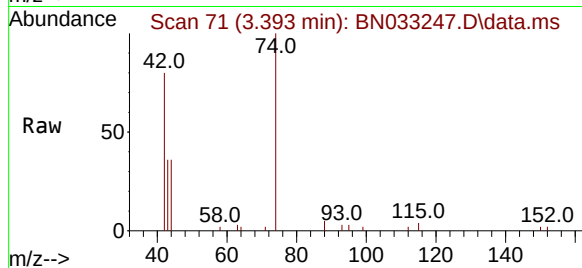
#3
n-Nitrosodimethylamine
Concen: 5.409 ng
RT: 3.393 min Scan# 71
Delta R.T. -0.065 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 761
Ion Ratio Lower Upper
42 100
74 129.9 0.0 0.0#
44 5.2 9.6 14.4#

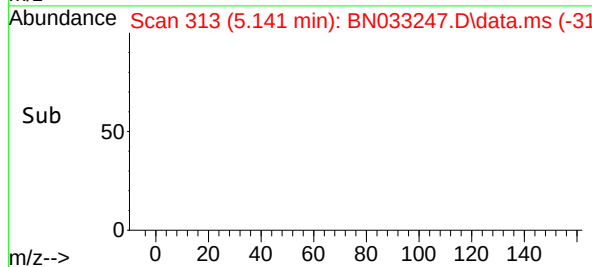
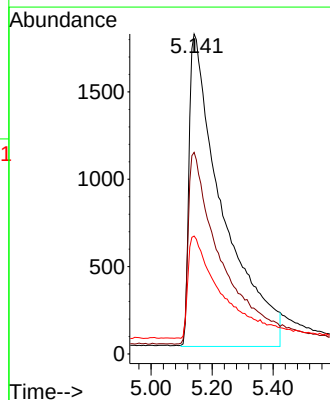
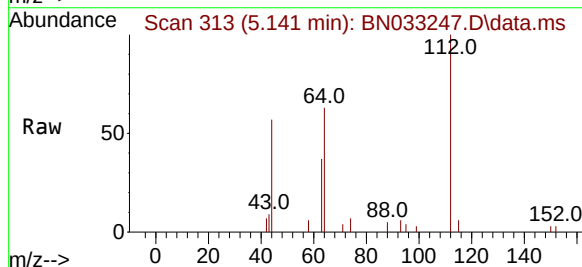
Manual Integrations
APPROVED

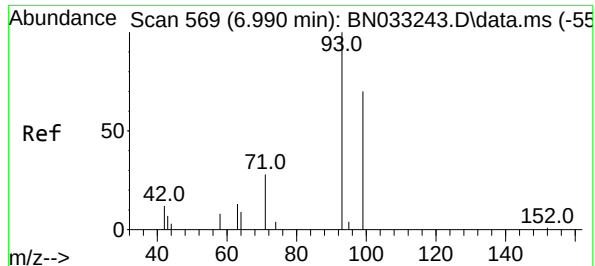
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 4.712 ng m
RT: 5.141 min Scan# 313
Delta R.T. -0.152 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

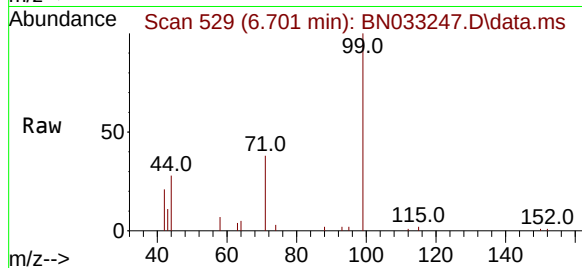
Tgt Ion:112 Resp: 13560
Ion Ratio Lower Upper
112 100
64 44.8 18.0 27.0#
63 24.0 0.0 0.0#





#5
Phenol-d6
Concen: 5.227 ng m
RT: 6.701 min Scan# 51
Delta R.T. -0.289 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

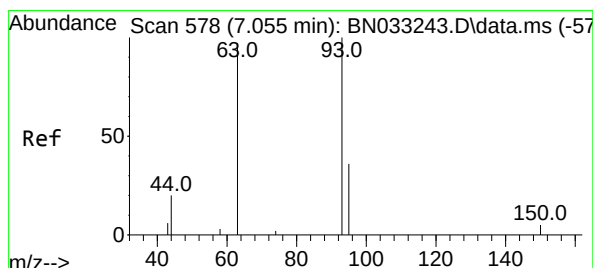
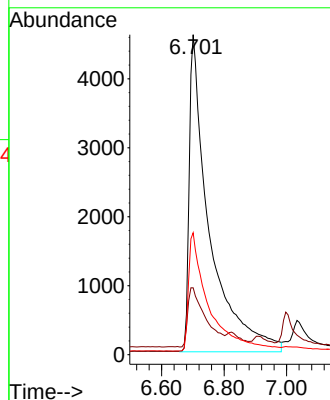
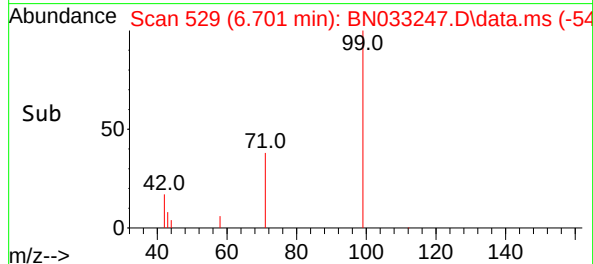
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion: 99 Resp: 2046
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 0.0 0.0 0.0

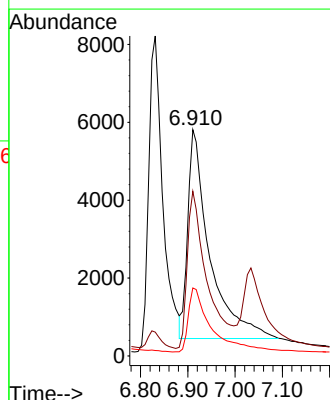
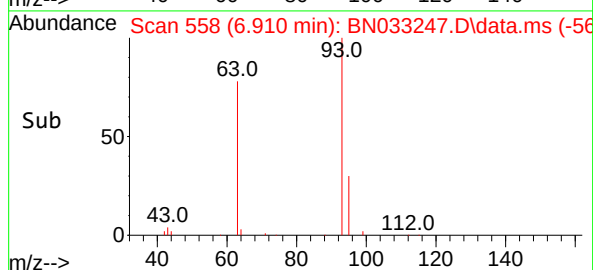
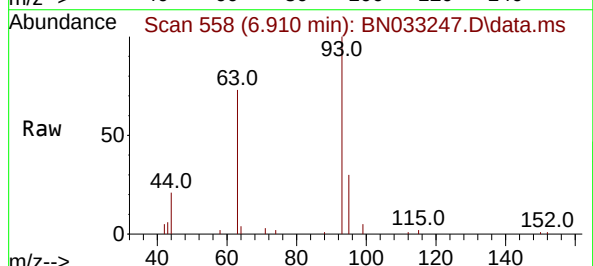
Manual Integrations
APPROVED

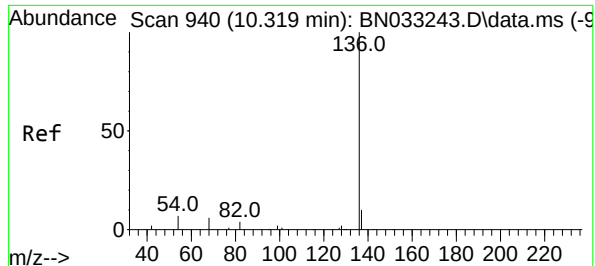
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 4.715 ng m
RT: 6.910 min Scan# 558
Delta R.T. -0.145 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion: 93 Resp: 17198
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 0.0 0.0 0.0





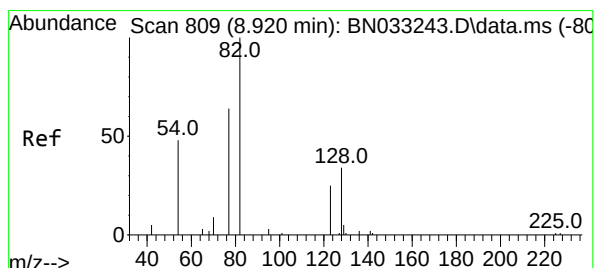
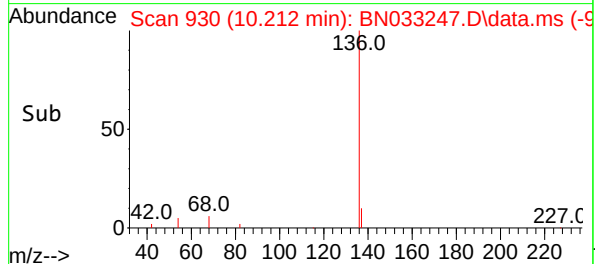
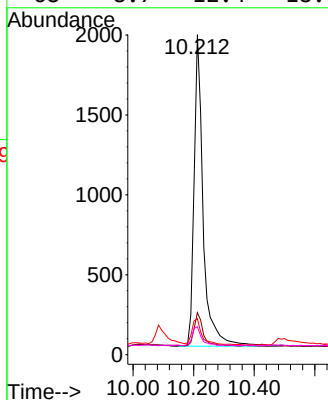
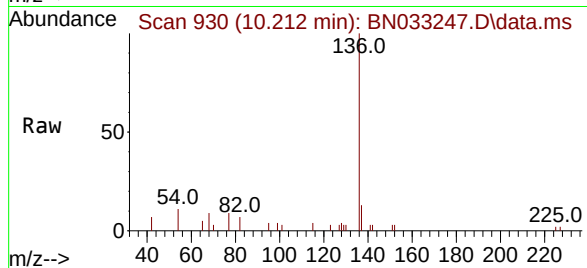
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.212 min Scan# 91
Delta R.T. -0.107 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
136	100		
137	13.1	14.1	21.1
54	11.2	13.8	20.8
68	8.7	12.4	18.6

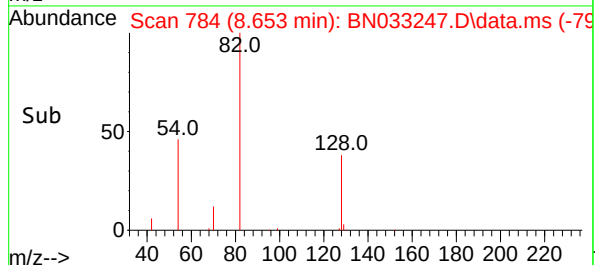
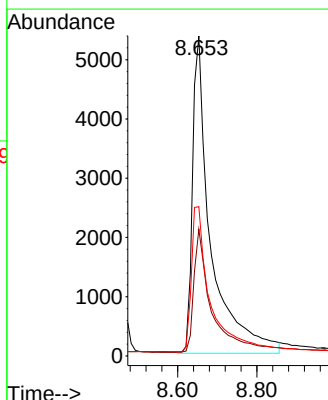
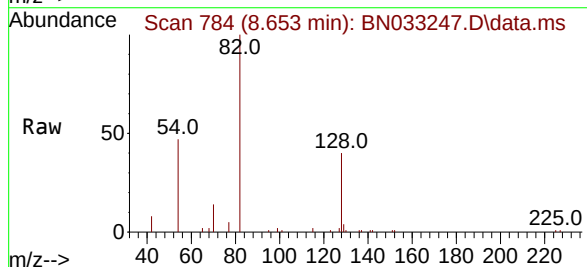
Manual Integrations
APPROVED

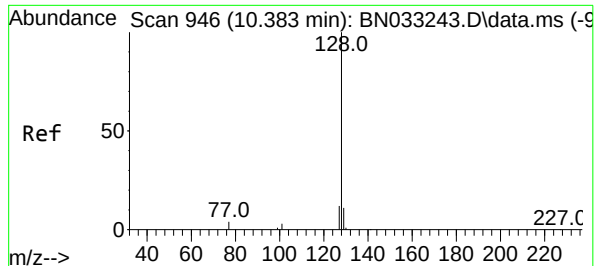
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 5.207 ng m
RT: 8.653 min Scan# 784
Delta R.T. -0.267 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.6	54.8	82.2
54	46.7	55.9	83.9





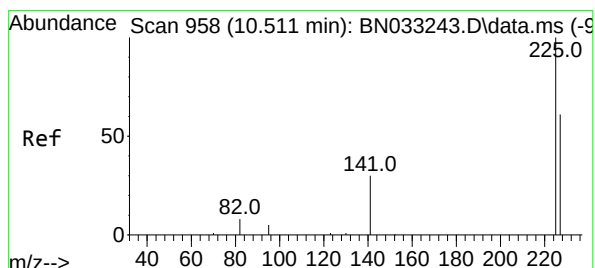
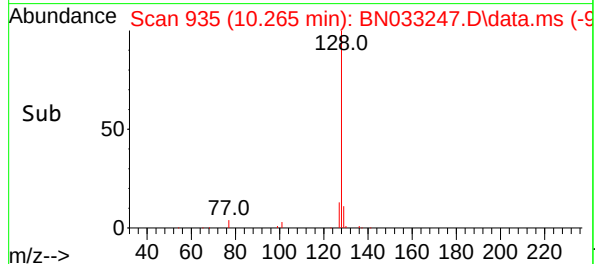
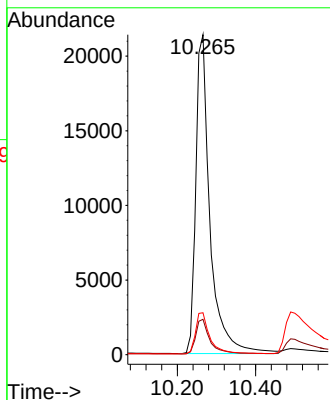
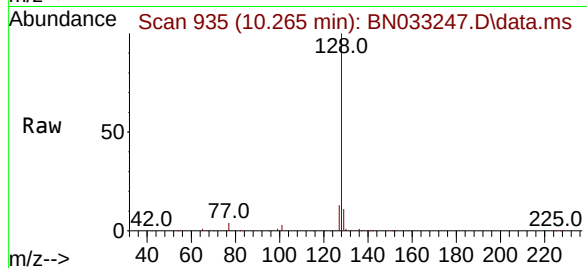
#9
Naphthalene
Concen: 4.874 ng
RT: 10.265 min Scan# 91
Delta R.T. -0.118 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 5389
Ion Ratio Lower Upper
128 100
129 11.0 15.4 23.0
127 13.1 15.8 23.6

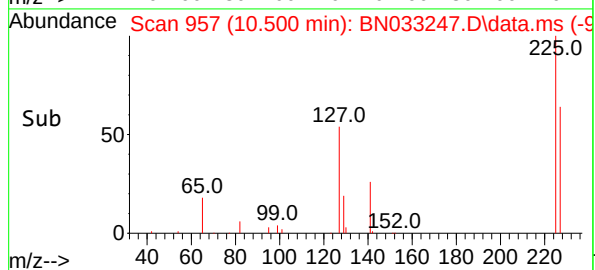
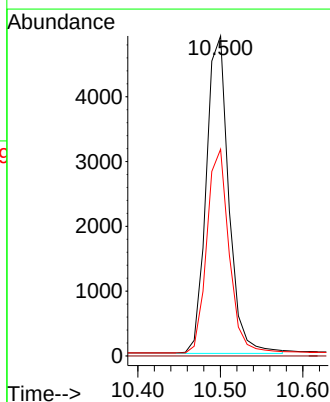
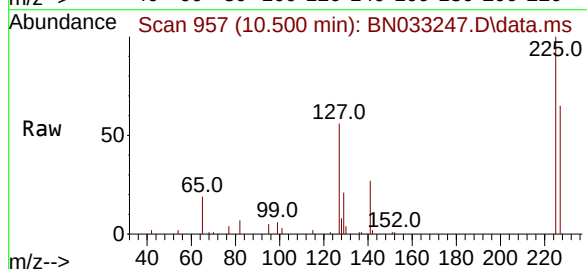
Manual Integrations
APPROVED

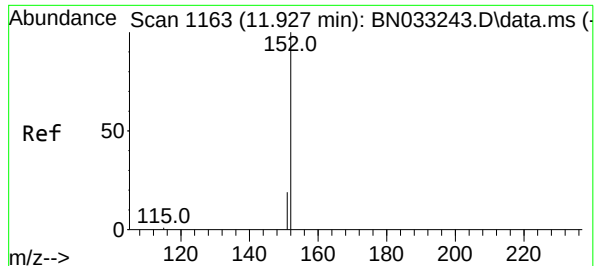
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 4.531 ng m
RT: 10.500 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

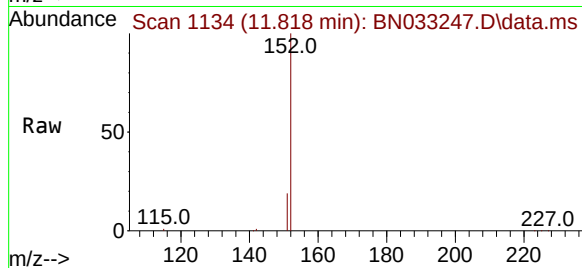
Tgt Ion:225 Resp: 9310
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 58.5 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 5.112 ng
RT: 11.818 min Scan# 1115
Delta R.T. -0.109 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

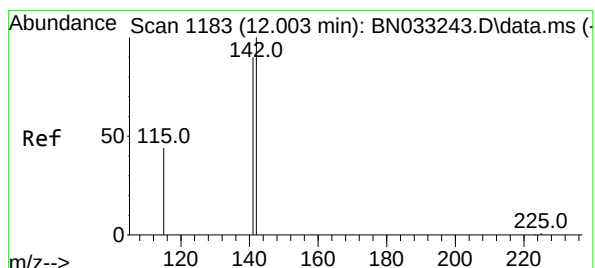
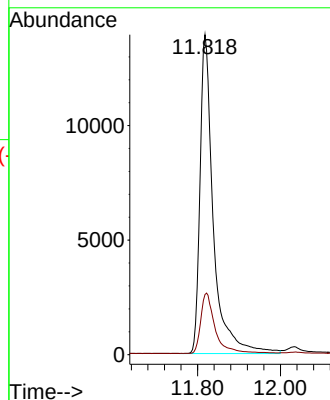
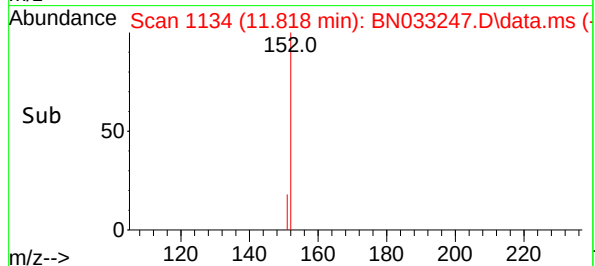
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:152 Resp: 3116
Ion Ratio Lower Upper
152 100
151 20.6 11.9 17.9

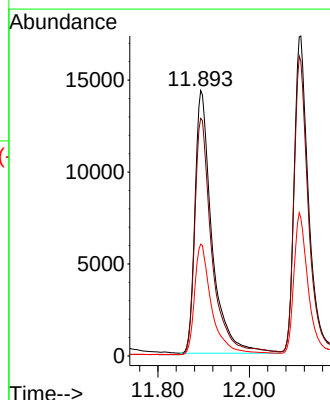
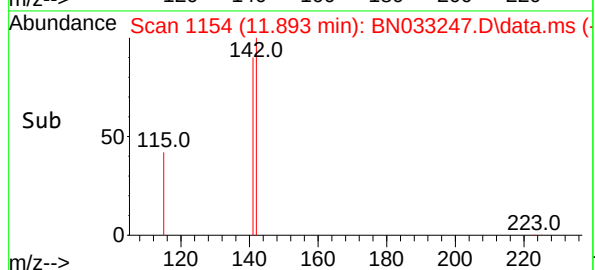
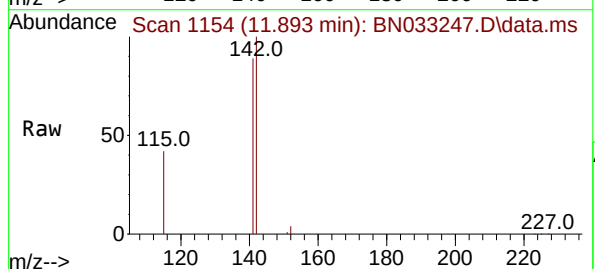
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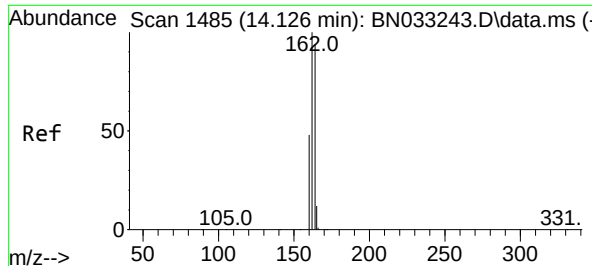
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 5.607 ng
RT: 11.893 min Scan# 1154
Delta R.T. -0.110 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

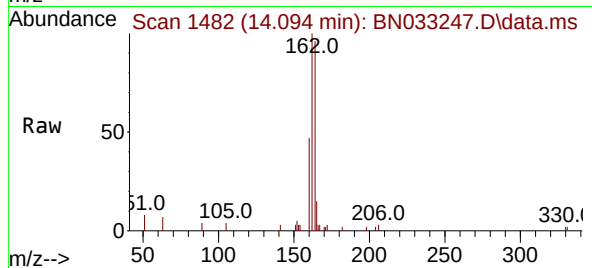
Tgt Ion:142 Resp: 36852
Ion Ratio Lower Upper
142 100
141 89.5 68.7 103.1
115 42.1 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.094 min Scan# 1485
Delta R.T. -0.032 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

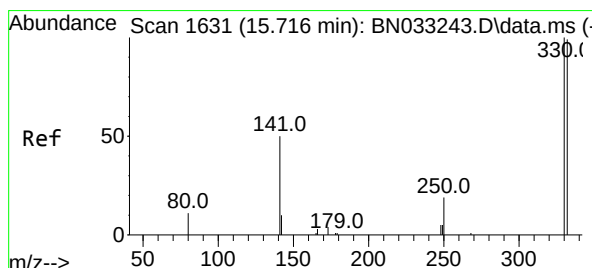
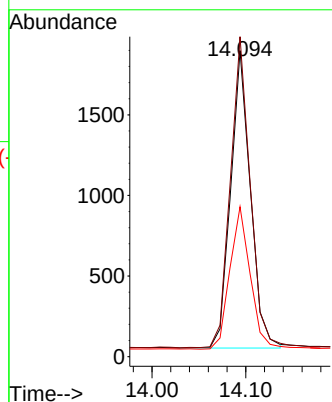
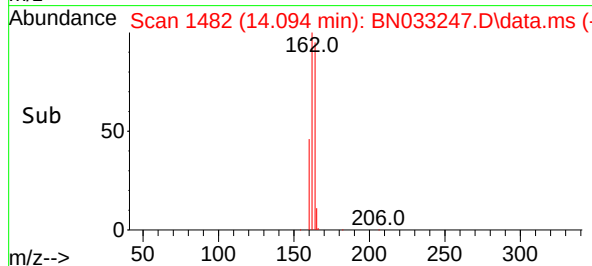
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



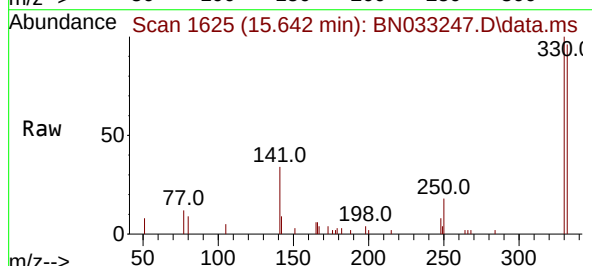
Tgt Ion:164 Resp: 2698
Ion Ratio Lower Upper
164 100
162 104.5 84.6 127.0
160 49.0 42.4 63.6

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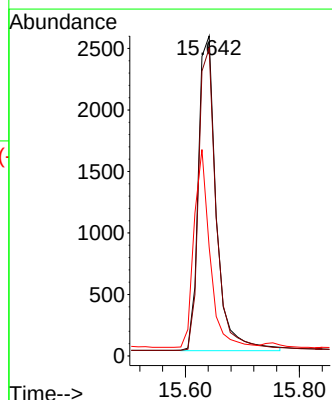
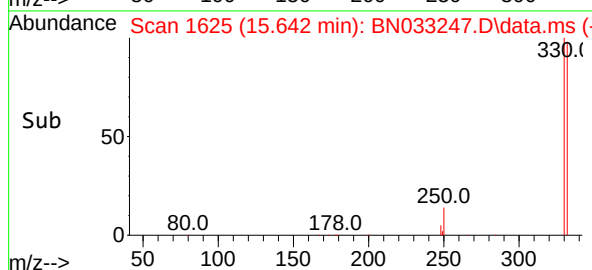
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

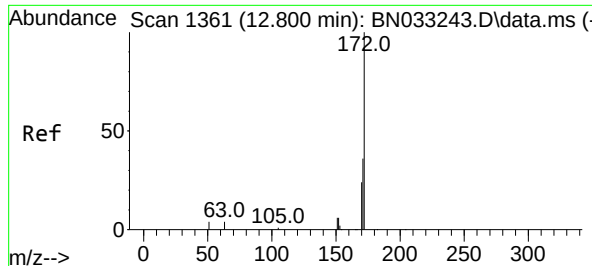


#14
2,4,6-Tribromophenol
Concen: 5.576 ng m
RT: 15.642 min Scan# 1625
Delta R.T. -0.074 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21



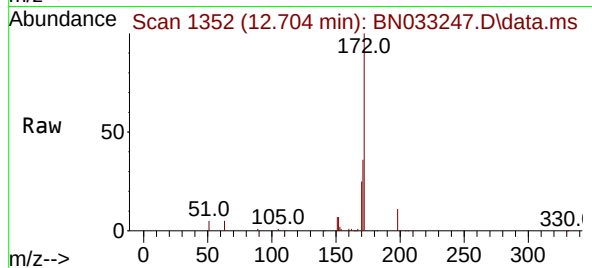
Tgt Ion:330 Resp: 5583
Ion Ratio Lower Upper
330 100
332 93.6 73.7 110.5
141 52.0 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 5.164 ng m
RT: 12.704 min Scan# 11
Delta R.T. -0.096 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

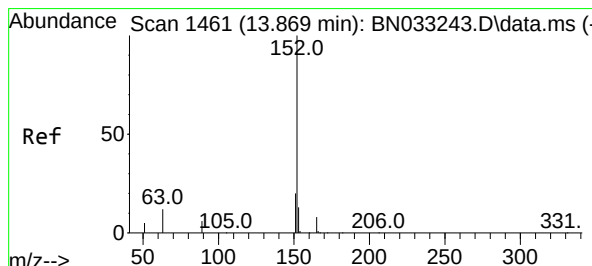
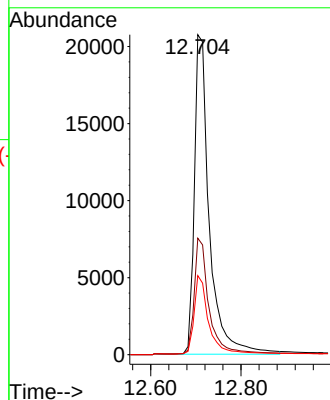
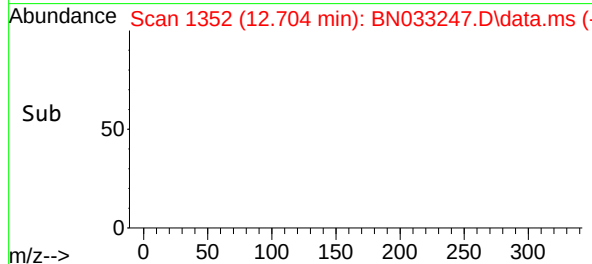
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:172 Resp: 47769
Ion Ratio Lower Upper
172 100
171 36.4 32.3 48.5
170 24.7 23.4 35.2

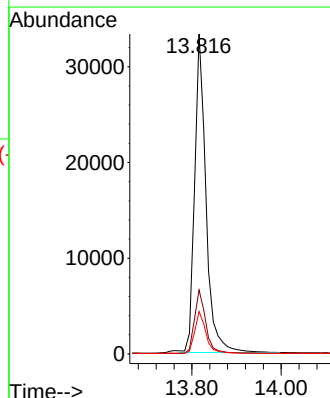
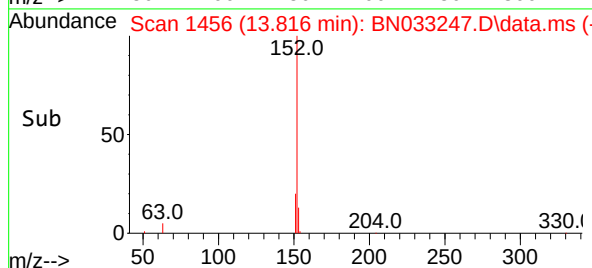
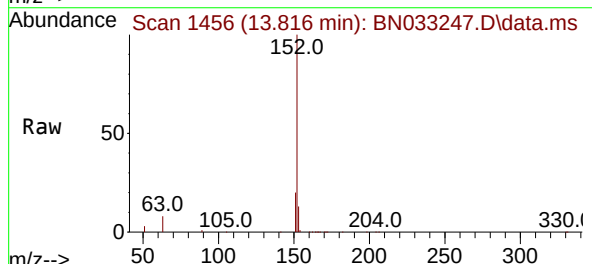
Manual Integrations
APPROVED

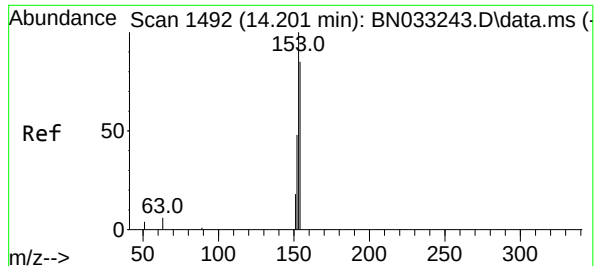
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 5.458 ng
RT: 13.816 min Scan# 1456
Delta R.T. -0.053 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

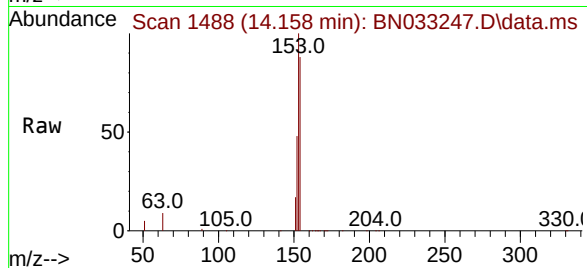
Tgt Ion:152 Resp: 58768
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 13.0 10.2 15.2





#17
Acenaphthene
Concen: 5.135 ng
RT: 14.158 min Scan# 1488
Delta R.T. -0.043 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

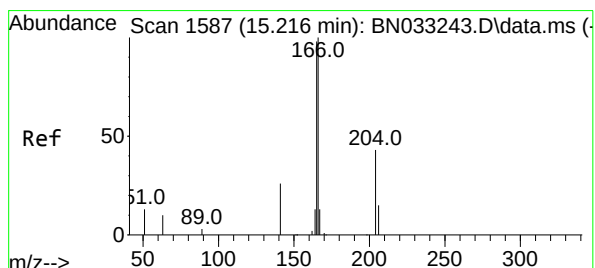
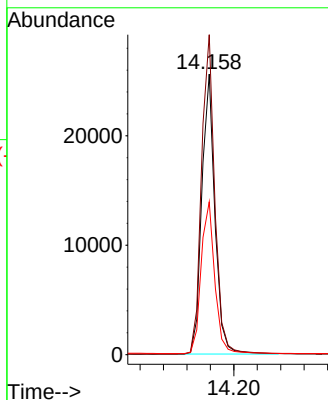
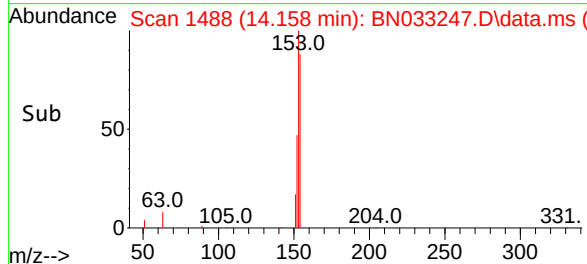
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:154 Resp: 39894
Ion Ratio Lower Upper
154 100
153 115.5 92.7 139.1
152 56.2 44.0 66.0

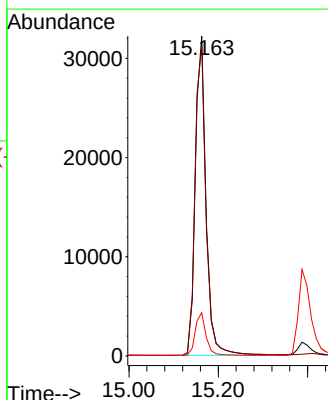
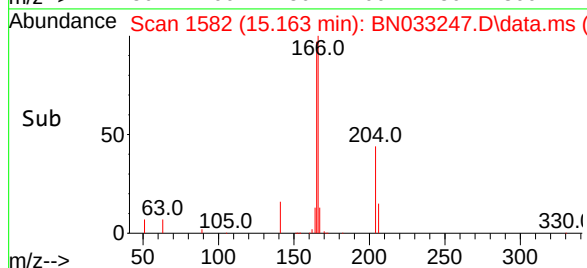
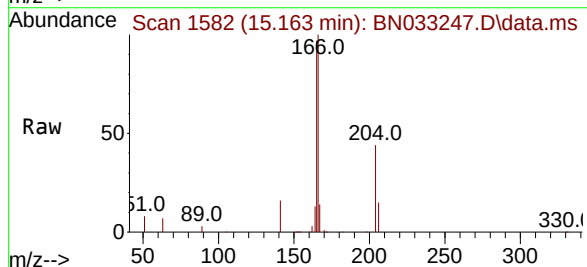
Manual Integrations
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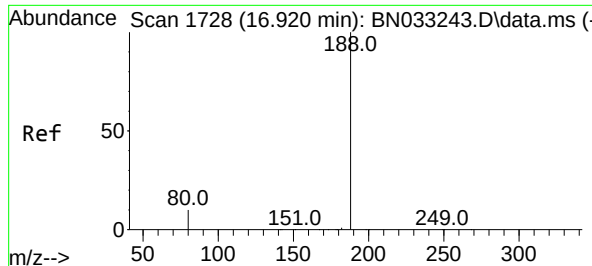
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 5.161 ng
RT: 15.163 min Scan# 1582
Delta R.T. -0.053 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion:166 Resp: 54279
Ion Ratio Lower Upper
166 100
165 99.1 79.6 119.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.870 min Scan# 11

Delta R.T. -0.050 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

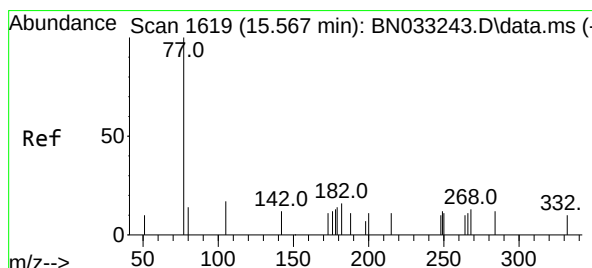
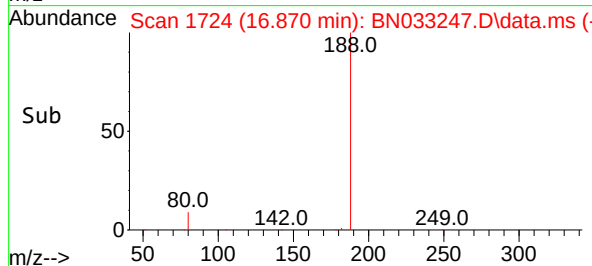
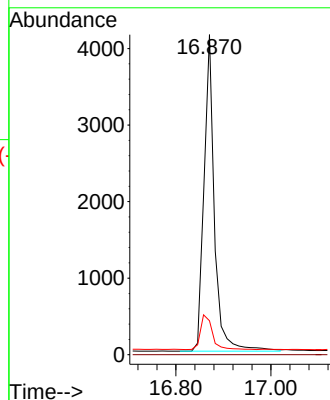
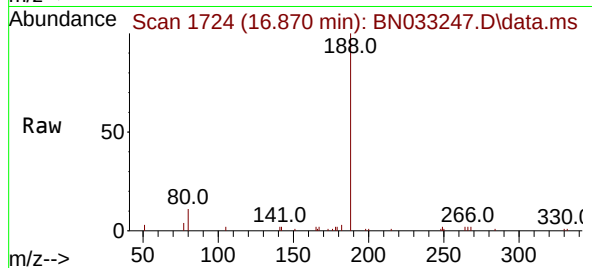
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	10.2	15.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 5.158 ng m

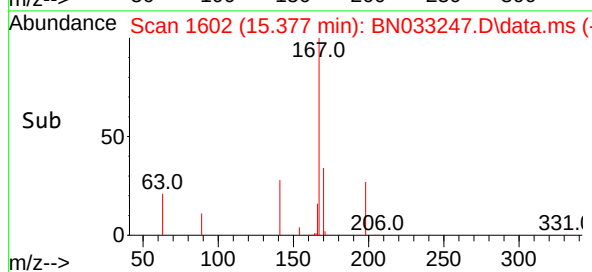
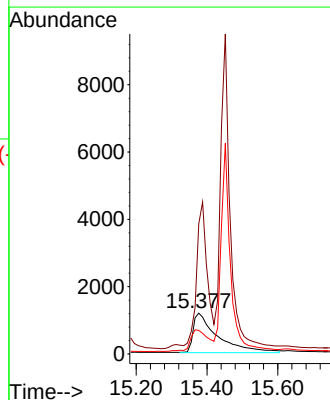
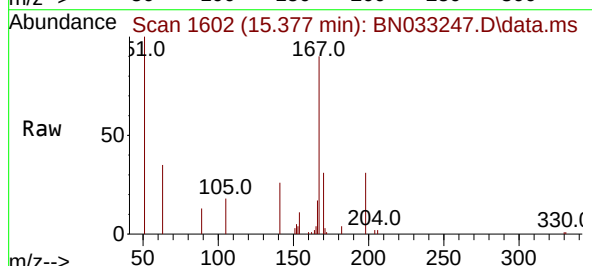
RT: 15.377 min Scan# 1602

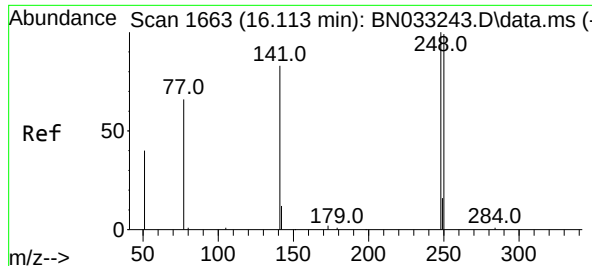
Delta R.T. -0.190 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Tgt Ion	Ratio	Lower	Upper
198	100		
51	318.7	250.6	375.8
105	57.6	152.6	229.0#





#21
4-Bromophenyl-phenylether
Concen: 4.759 ng
RT: 16.051 min Scan# 1667
Delta R.T. -0.062 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

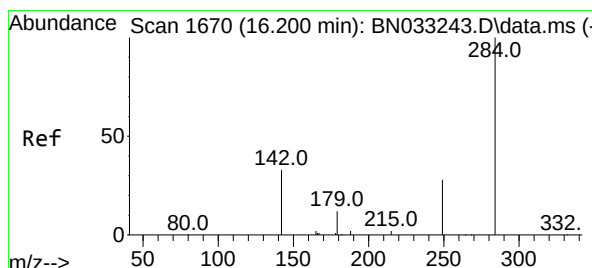
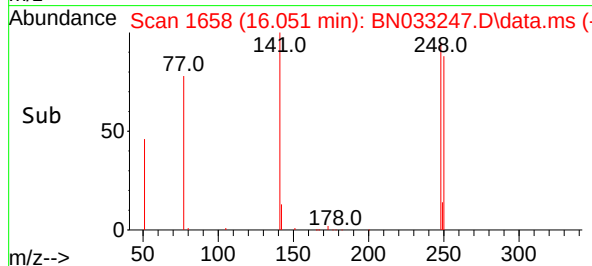
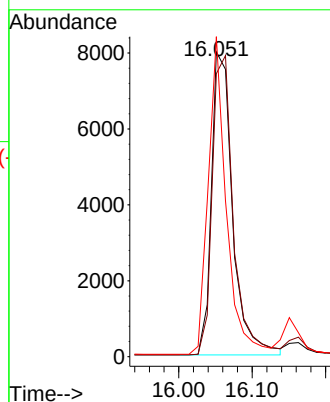
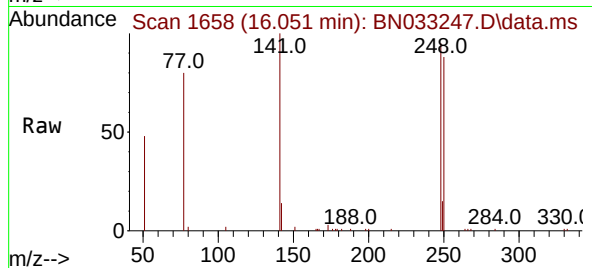
ClientSampleId :

SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.9	80.0	120.0
141	105.0	71.0	106.6

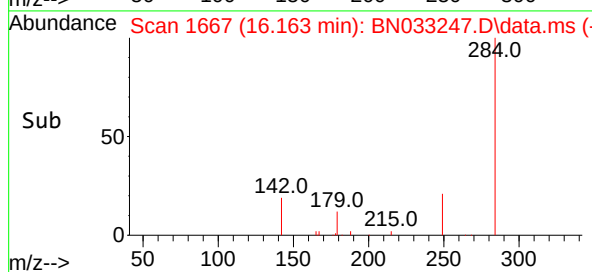
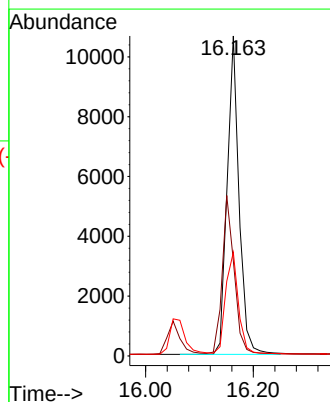
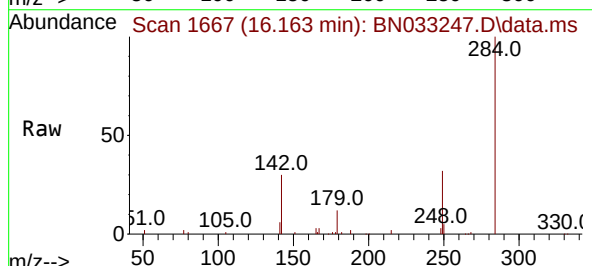
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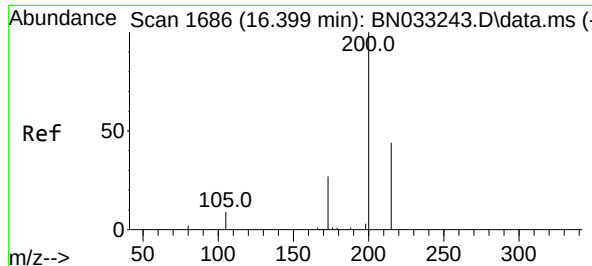
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 4.676 ng
RT: 16.163 min Scan# 1667
Delta R.T. -0.037 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

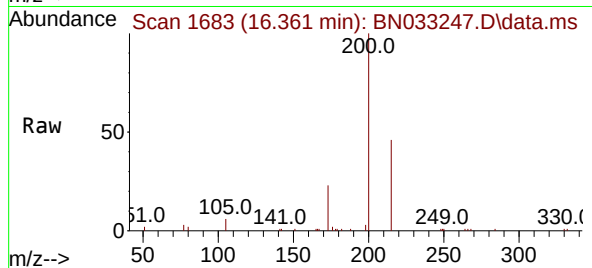
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.5	38.8	58.2
249	34.3	27.8	41.6





#23
Atrazine
Concen: 4.962 ng
RT: 16.361 min Scan# 1686
Delta R.T. -0.038 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

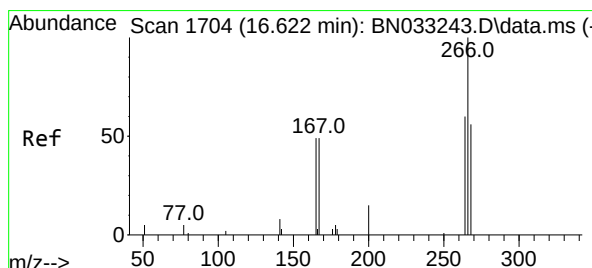
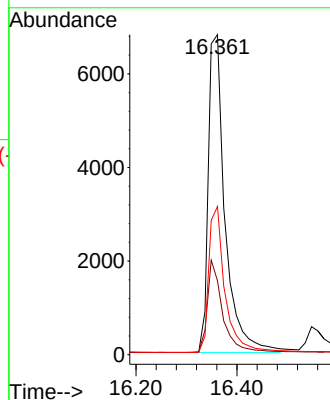
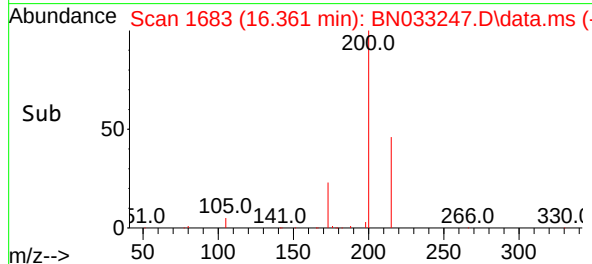
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:200 Resp: 1568
Ion Ratio Lower Upper
200 100
173 23.1 29.2 43.8
215 46.3 41.5 62.3

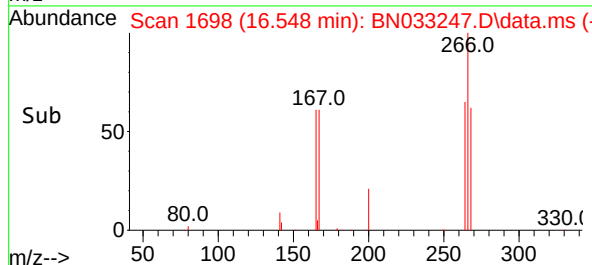
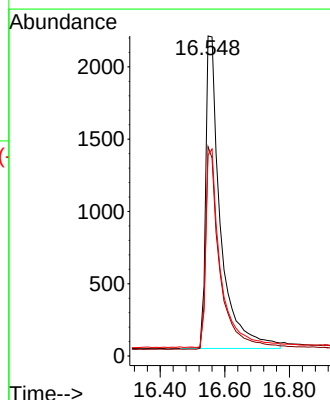
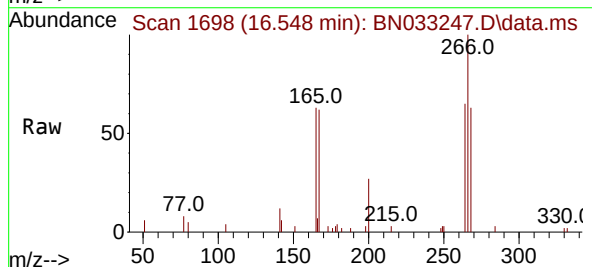
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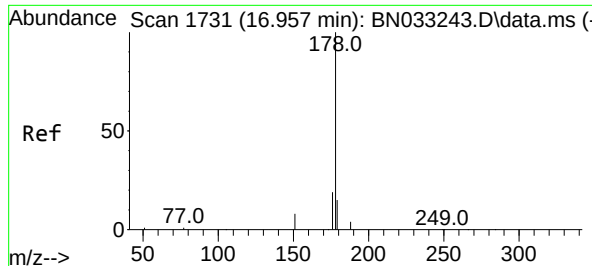
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 5.878 ng
RT: 16.548 min Scan# 1698
Delta R.T. -0.074 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion:266 Resp: 6889
Ion Ratio Lower Upper
266 100
264 62.3 49.3 73.9
268 62.7 50.2 75.2





#25

Phenanthrene

Concen: 4.978 ng

RT: 16.908 min Scan# 1730

Delta R.T. -0.049 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

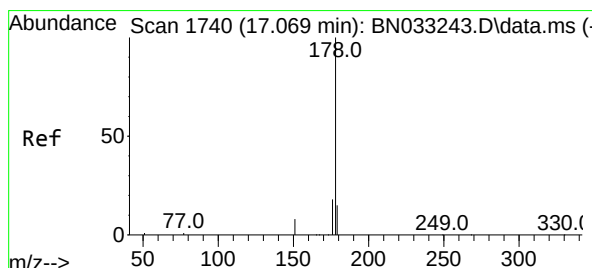
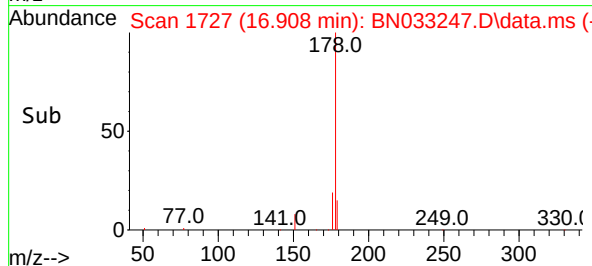
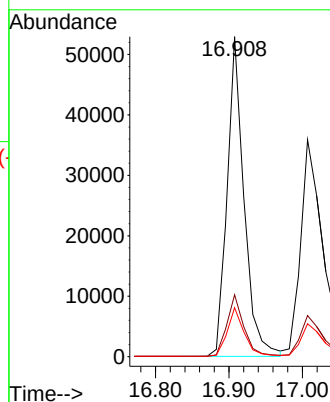
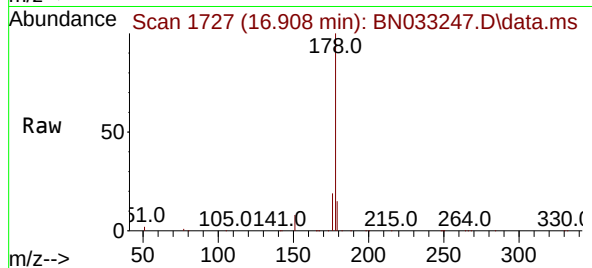
SSTDICC5.0

Tgt Ion:178	Resp:	8469
Ion Ratio	Lower	Upper
178	100	
176	19.4	15.7 23.5
179	15.2	12.4 18.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26

Anthracene

Concen: 5.491 ng

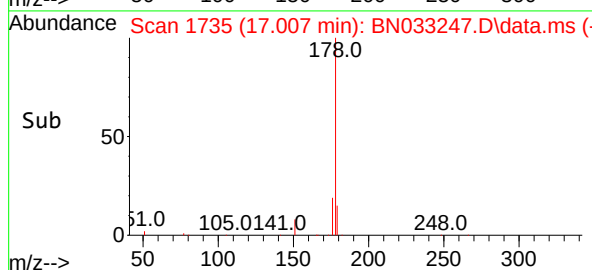
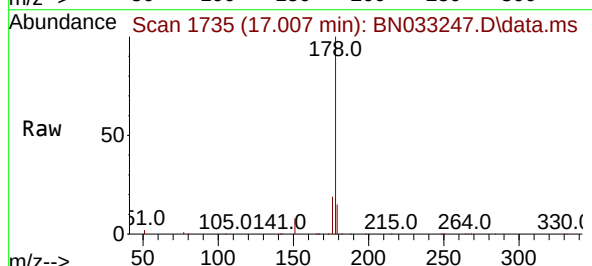
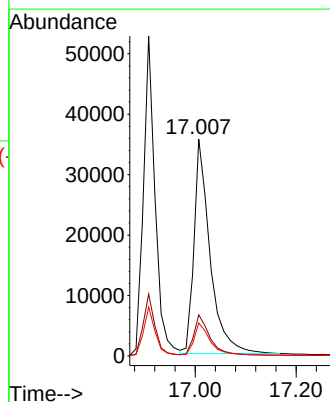
RT: 17.007 min Scan# 1735

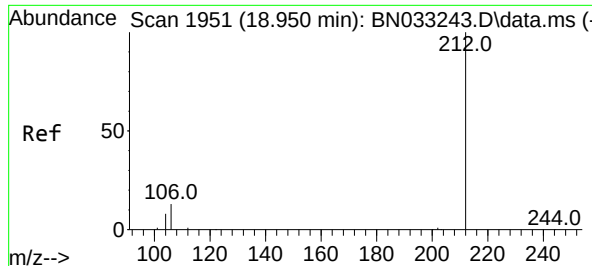
Delta R.T. -0.062 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Tgt Ion:178	Resp:	78319
Ion Ratio	Lower	Upper
178	100	
176	18.8	10.5 15.7#
179	15.1	8.6 12.8#





#27

Fluoranthene-d10

Concen: 4.904 ng

RT: 18.918 min Scan# 1944

Delta R.T. -0.033 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

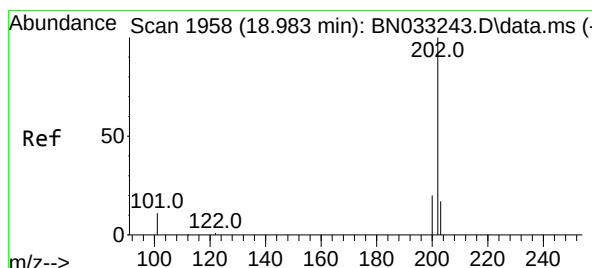
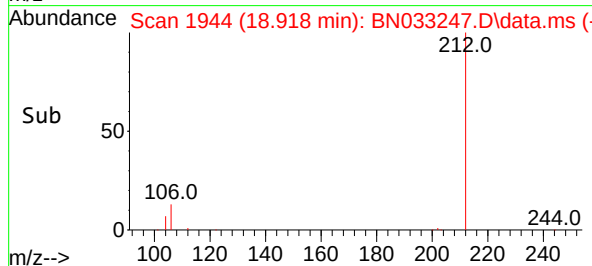
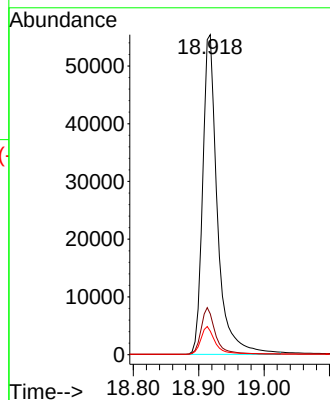
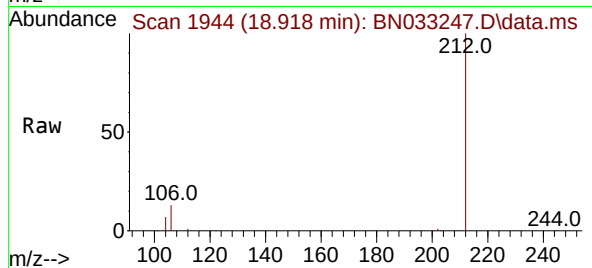
ClientSampleId :

SSTDICC5.0

Tgt Ion:212	Resp:	8679
Ion Ratio	Lower	Upper
212	100	
106	14.3	11.4 17.0
104	8.5	7.1 10.7

Manual Integrations
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 4.809 ng

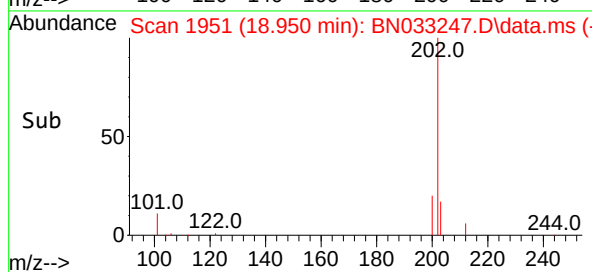
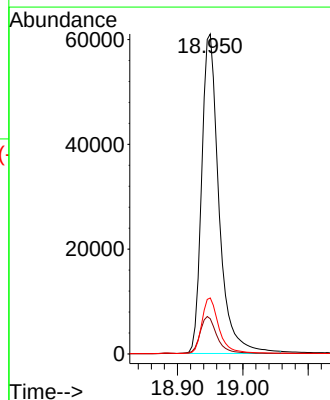
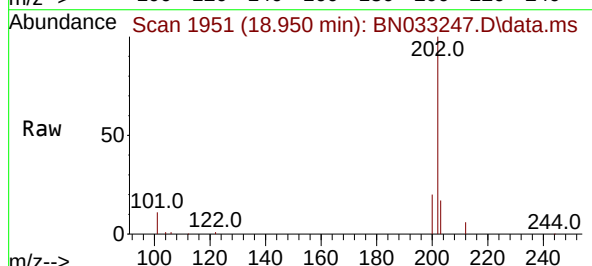
RT: 18.950 min Scan# 1951

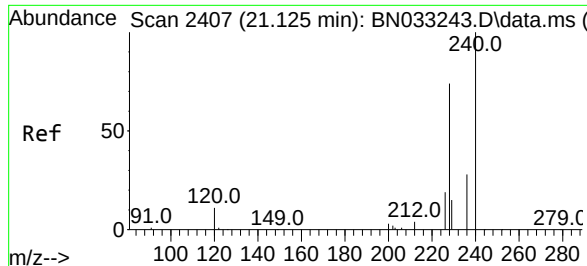
Delta R.T. -0.033 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Tgt Ion:202	Resp:	112216
Ion Ratio	Lower	Upper
202	100	
101	11.5	8.6 13.0
203	17.2	13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.098 min Scan# 2404

Delta R.T. -0.027 min

Lab File: BN033247.D

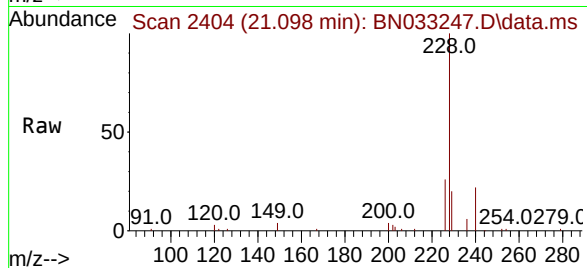
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

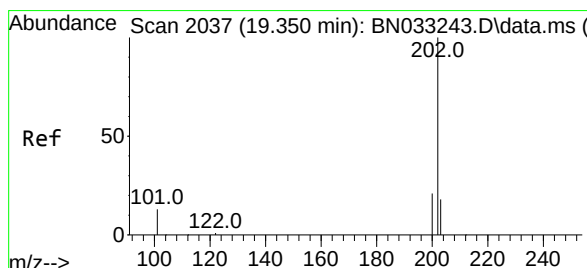
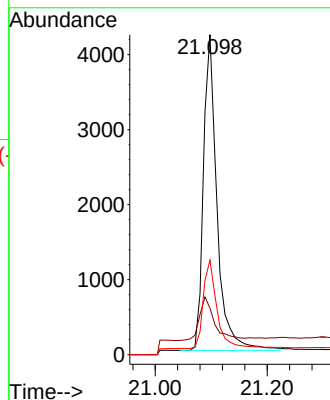
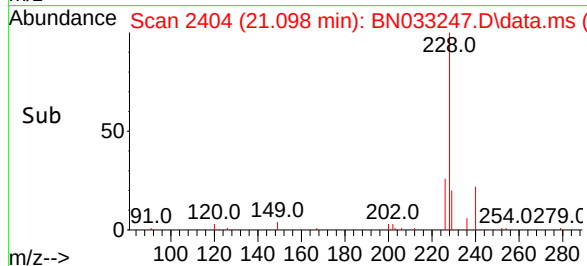
SSTDICC5.0



Tgt Ion:	240	Resp:	709
Ion	Ratio	Lower	Upper
240	100		
120	14.6	13.3	19.9
236	29.5	23.8	35.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

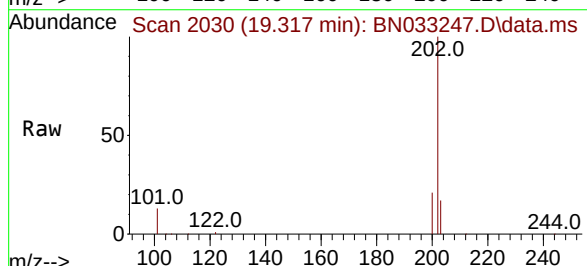
Concen: 4.795 ng

RT: 19.317 min Scan# 2030

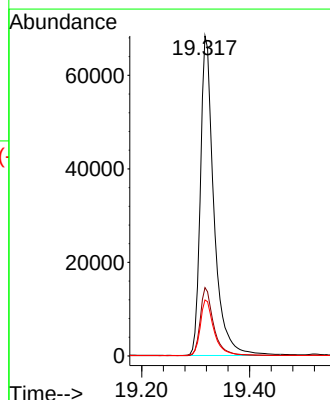
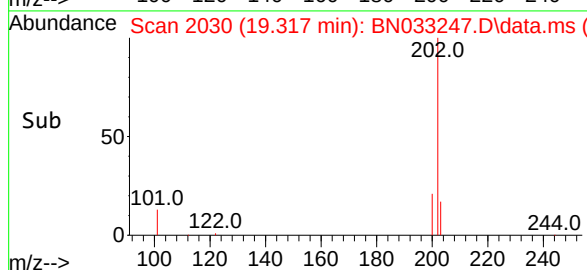
Delta R.T. -0.033 min

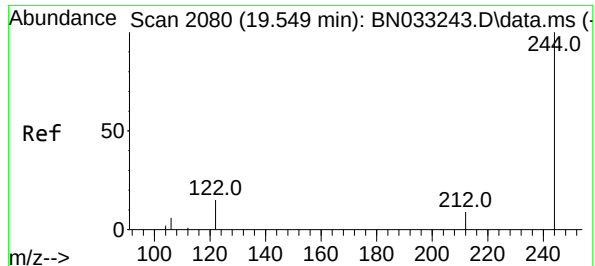
Lab File: BN033247.D

Acq: 05 Aug 2024 22:21



Tgt Ion:	202	Resp:	118828
Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.8	14.4	21.6





#31
Terphenyl-d14
Concen: 4.919 ng
RT: 19.522 min Scan# 2074
Delta R.T. -0.028 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

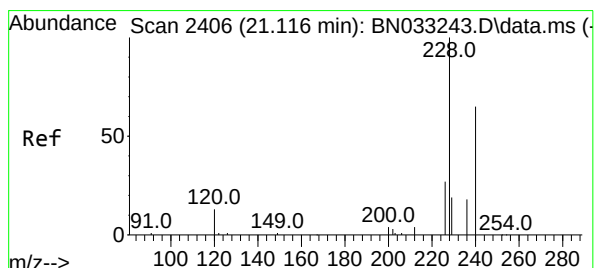
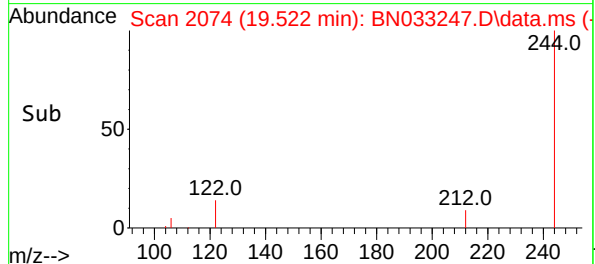
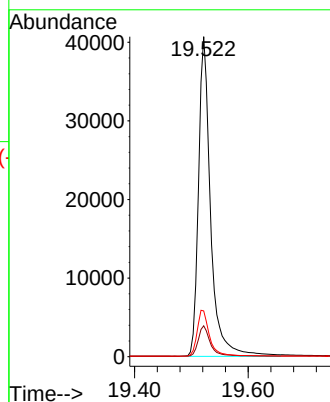
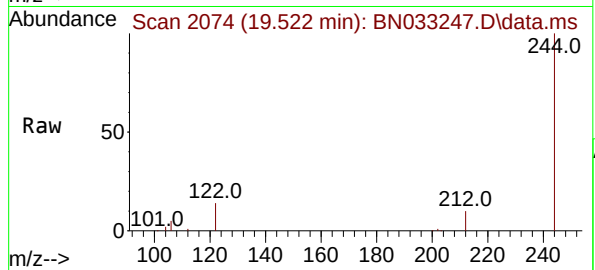
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.9	14.9
122	14.3	14.1	21.1

Manual Integrations

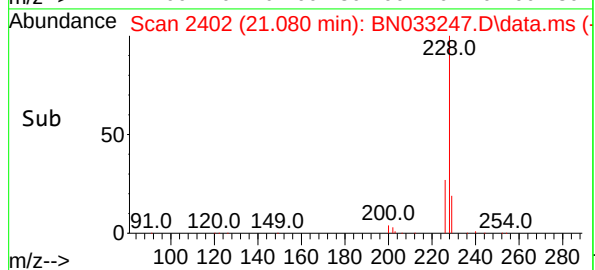
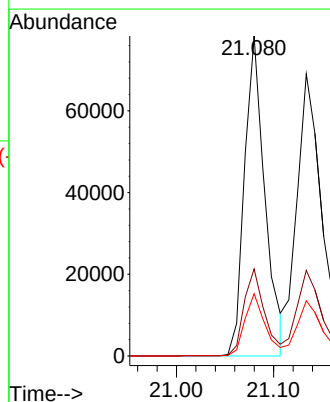
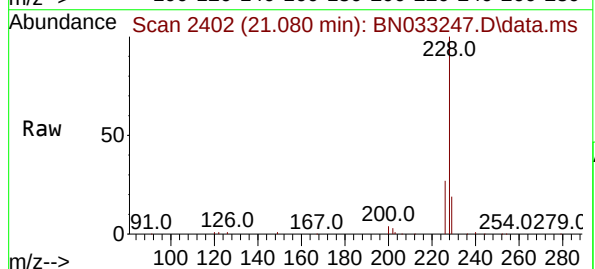
APPROVED

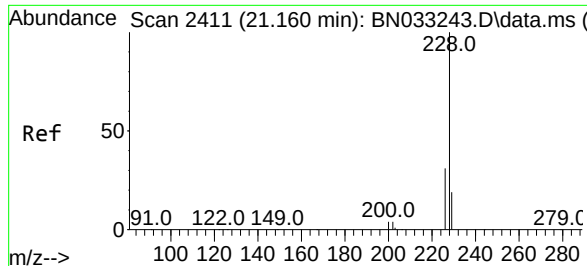
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 5.373 ng
RT: 21.080 min Scan# 2402
Delta R.T. -0.036 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.4	33.6
229	19.5	16.6	25.0





#33

Chrysene

Concen: 4.696 ng

RT: 21.134 min Scan# 2411

Delta R.T. -0.026 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:228 Resp: 12881

Ion Ratio Lower Upper

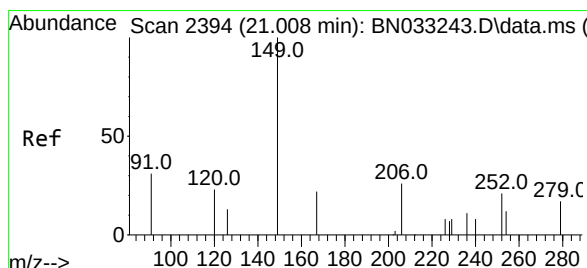
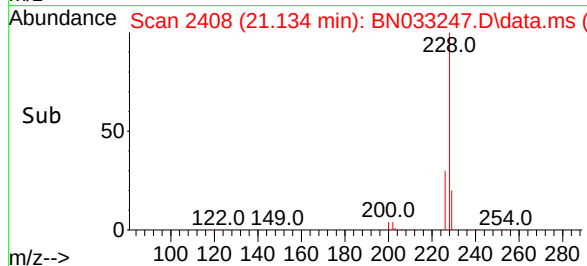
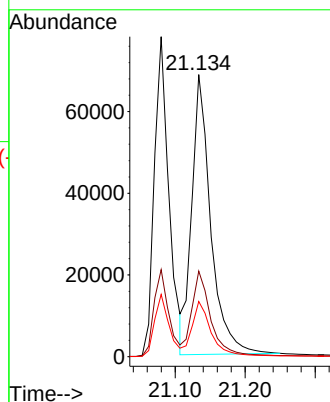
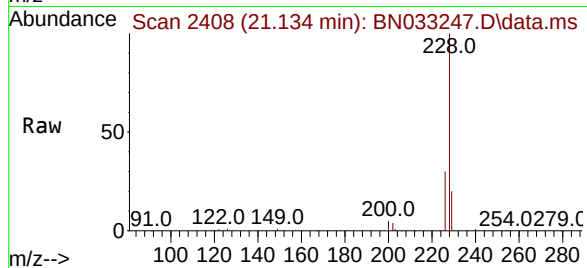
228 100

226 30.4 25.1 37.7

229 19.6 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.446 ng

RT: 21.008 min Scan# 2394

Delta R.T. 0.000 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

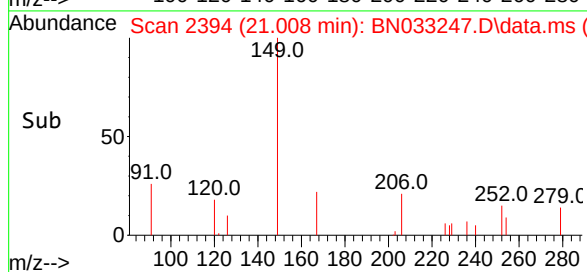
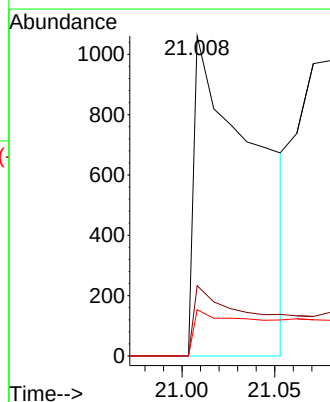
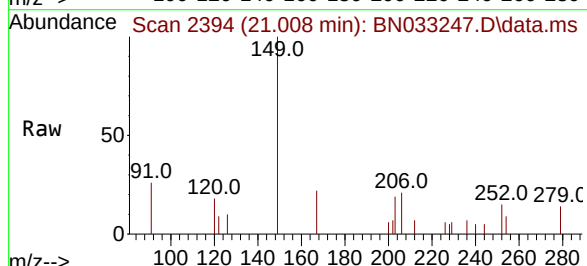
Tgt Ion:149 Resp: 2189

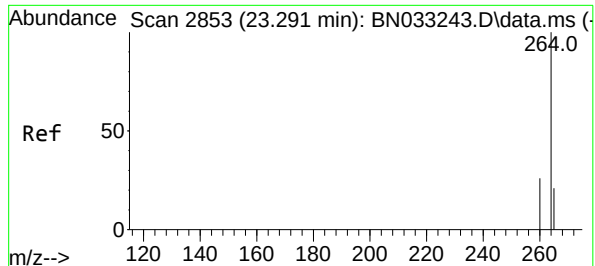
Ion Ratio Lower Upper

149 100

167 24.2 19.8 29.6

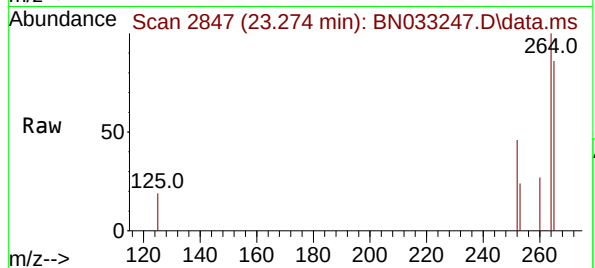
279 13.3 8.2 12.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.274 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

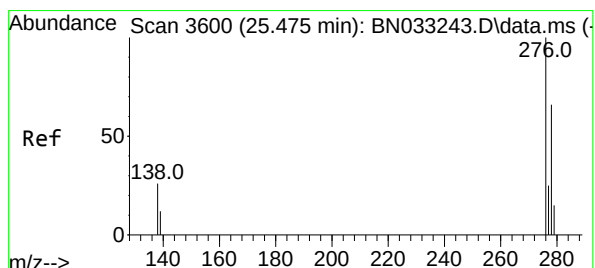
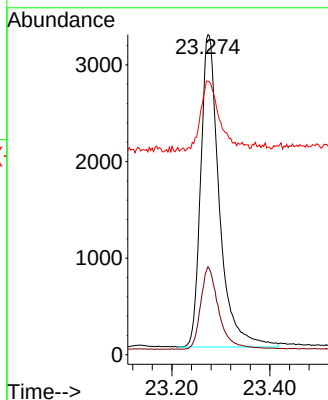
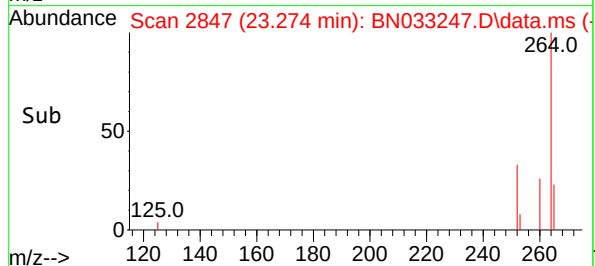
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:264 Resp: 855
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 85.5 66.6 99.8

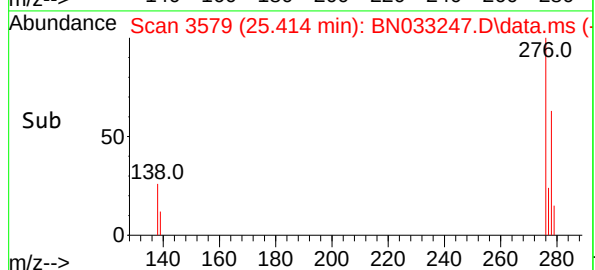
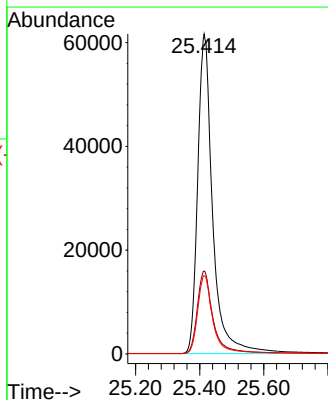
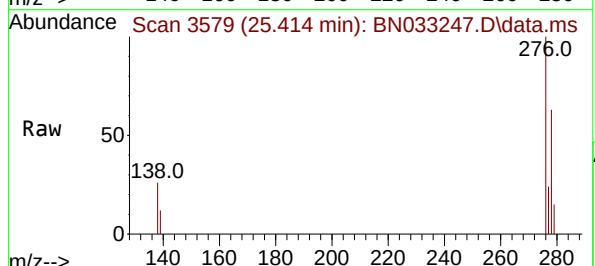
Manual Integrations
APPROVED

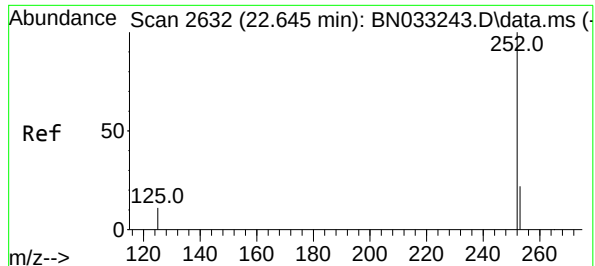
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.156 ng
RT: 25.414 min Scan# 3579
Delta R.T. -0.061 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Tgt Ion:276 Resp: 199441
Ion Ratio Lower Upper
276 100
138 27.2 20.4 30.6
277 24.9 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 5.358 ng

RT: 22.607 min Scan# 2619

Delta R.T. -0.038 min

Lab File: BN033247.D

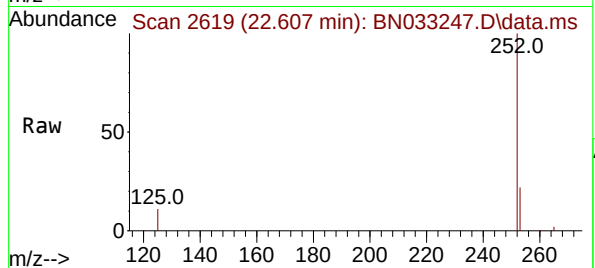
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:252 Resp: 13903

Ion Ratio Lower Upper

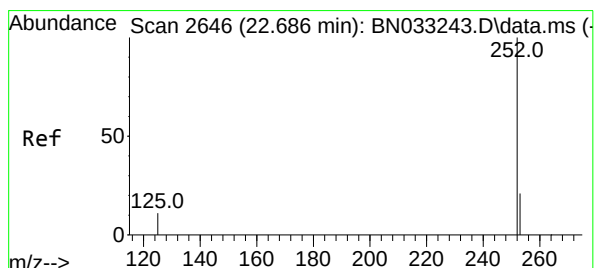
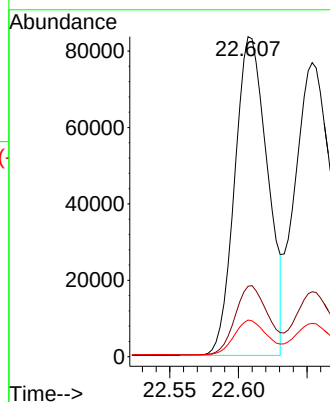
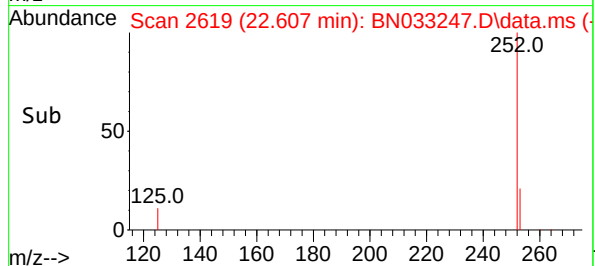
252 100

253 22.0 23.3 34.9

125 11.5 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#38

Benzo(k)fluoranthene

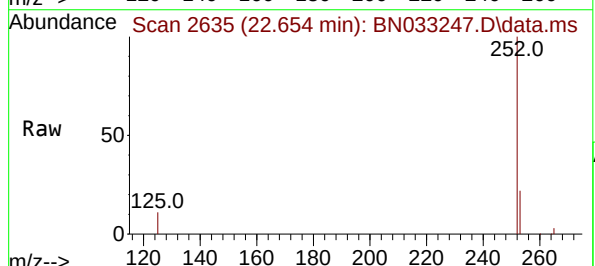
Concen: 4.772 ng

RT: 22.654 min Scan# 2635

Delta R.T. -0.032 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21



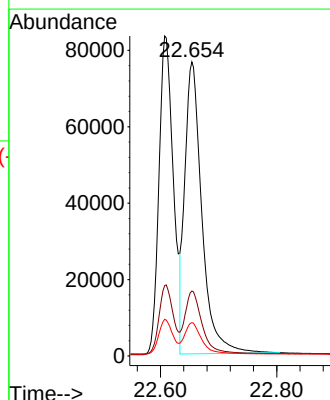
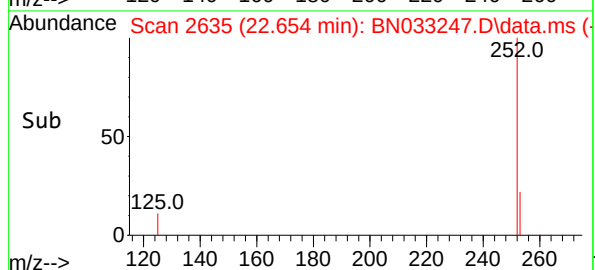
Tgt Ion:252 Resp: 155977

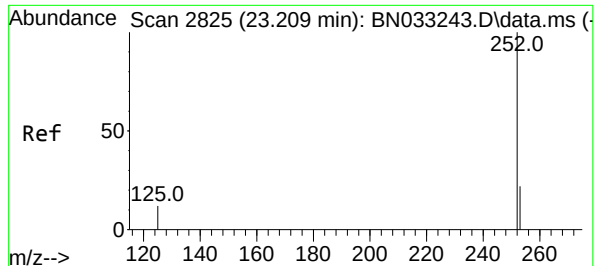
Ion Ratio Lower Upper

252 100

253 22.1 23.7 35.5

125 11.3 15.4 23.0





#39

Benzo(a)pyrene

Concen: 5.135 ng

RT: 23.171 min Scan# 2812

Delta R.T. -0.038 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:252 Resp: 13383

Ion Ratio Lower Upper

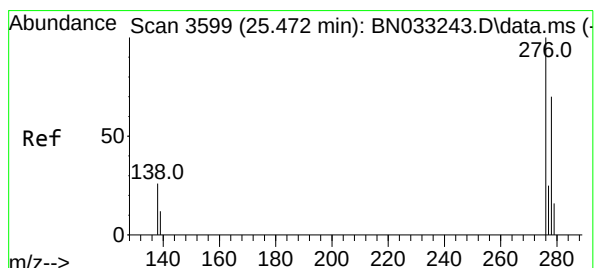
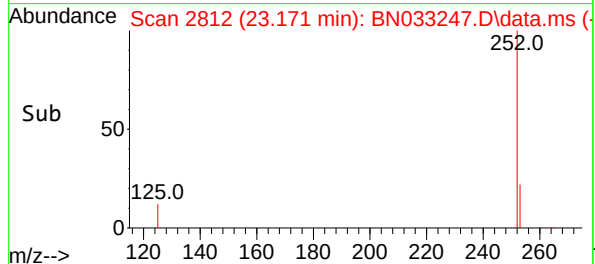
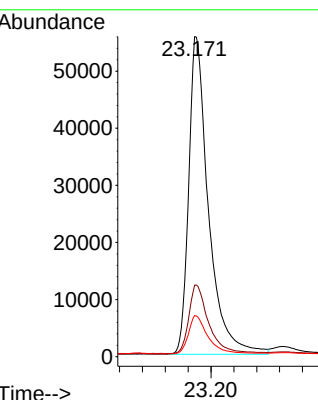
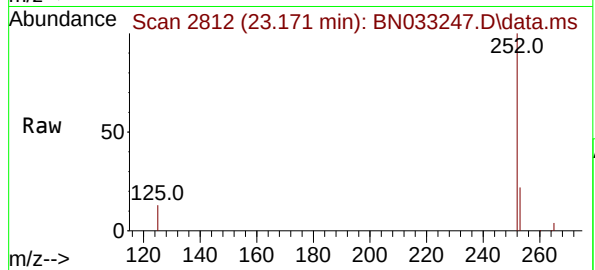
252 100

253 22.4 28.4 42.6

125 12.8 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#40

Dibenzo(a,h)anthracene

Concen: 5.208 ng

RT: 25.420 min Scan# 3581

Delta R.T. -0.052 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

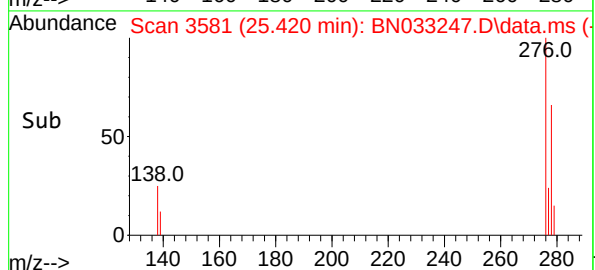
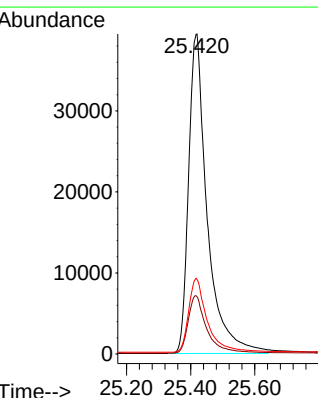
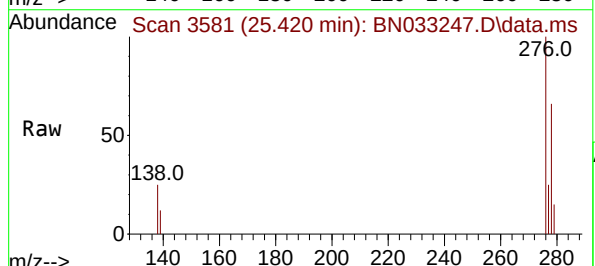
Tgt Ion:278 Resp: 159088

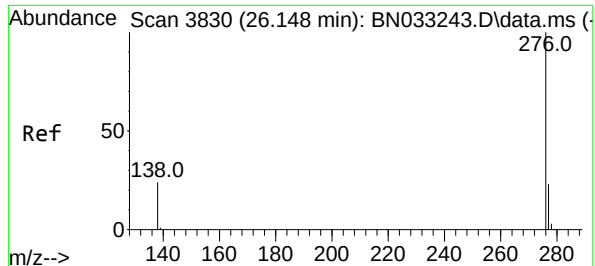
Ion Ratio Lower Upper

278 100

139 17.9 16.7 25.1

279 23.3 25.0 37.6





#41

Benzo(g,h,i)perylene

Concen: 4.961 ng

RT: 26.080 min Scan# 3807

Delta R.T. -0.067 min

Lab File: BN033247.D

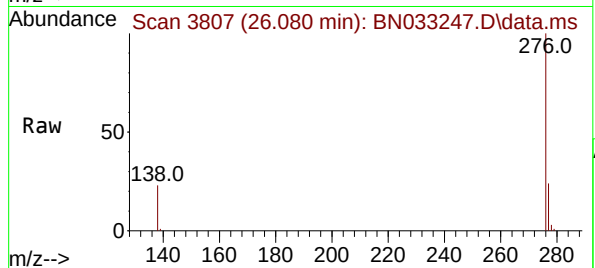
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:276 Resp: 17366

Ion Ratio Lower Upper

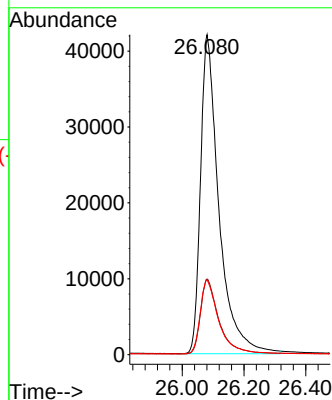
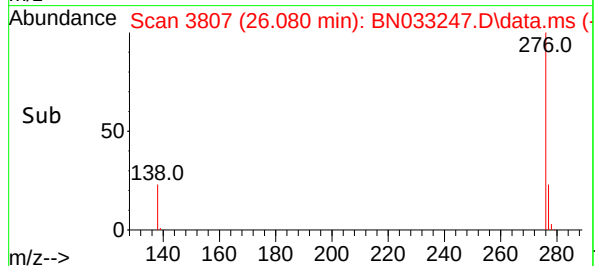
276 100

277 23.7 21.0 31.4

138 23.3 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033248.D
Acq On : 05 Aug 2024 22:58
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 06 00:00:28 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:57:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.532	152	839	0.400	ng	0.02
7) Naphthalene-d8	10.340	136	3354	0.400	ng	0.02
13) Acenaphthene-d10	14.133	164	2423	0.400	ng	0.00
19) Phenanthrene-d10	16.927	188	5777	0.400	ng	0.00
29) Chrysene-d12	21.122	240	6570	0.400	ng	0.00
35) Perylene-d12	23.292	264	8080	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.358	112	876m	0.421	ng	0.06
5) Phenol-d6	7.012	99	1066m	0.373	ng	0.02
8) Nitrobenzene-d5	8.941	82	980	0.363	ng	0.02
11) 2-Methylnaphthalene-d10	11.935	152	2089	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.723	330	298	0.330	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	3257	0.393	ng	0.00
27) Fluoranthene-d10	18.957	212	6014	0.372	ng	0.00
31) Terphenyl-d14	19.556	244	5063	0.446	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.047	88	579	0.387	ng	# 84
3) n-Nitrosodimethylamine	3.473	42	424	0.414	ng	# 73
6) bis(2-Chloroethyl)ether	7.084	93	959m	0.399	ng	
9) Naphthalene	10.394	128	3603	0.395	ng	99
10) Hexachlorobutadiene	10.511	225	656	0.388	ng	# 98
12) 2-Methylnaphthalene	12.014	142	1947	0.358	ng	99
16) Acenaphthylene	13.876	152	3755	0.388	ng	99
17) Acenaphthene	14.208	154	2681	0.384	ng	99
18) Fluorene	15.223	166	3671	0.389	ng	98
20) 4,6-Dinitro-2-methylph...	15.599	198	174	0.407	ng	93
21) 4-Bromophenyl-phenylether	16.120	248	1097	0.358	ng	96
22) Hexachlorobenzene	16.207	284	1205	0.377	ng	100
23) Atrazine	16.418	200	1055	0.365	ng	99
24) Pentachlorophenol	16.641	266	344	0.321	ng	94
25) Phenanthrene	16.964	178	5770	0.371	ng	100
26) Anthracene	17.088	178	4615	0.354	ng	# 88
28) Fluoranthene	18.990	202	7717	0.362	ng	100
30) Pyrene	19.357	202	8277	0.360	ng	99
32) Benzo(a)anthracene	21.113	228	6924	0.366	ng	99
33) Chrysene	21.158	228	10233	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.006	149	1465	0.322	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.482	276	13869	0.380	ng	99
37) Benzo(b)fluoranthene	22.646	252	8428	0.344	ng	99
38) Benzo(k)fluoranthene	22.690	252	12069	0.394	ng	100
39) Benzo(a)pyrene	23.216	252	9866	0.401	ng	99
40) Dibenzo(a,h)anthracene	25.485	278	10928	0.379	ng	98
41) Benzo(g,h,i)perylene	26.151	276	11569	0.350	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033248.D
 Acq On : 05 Aug 2024 22:58
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

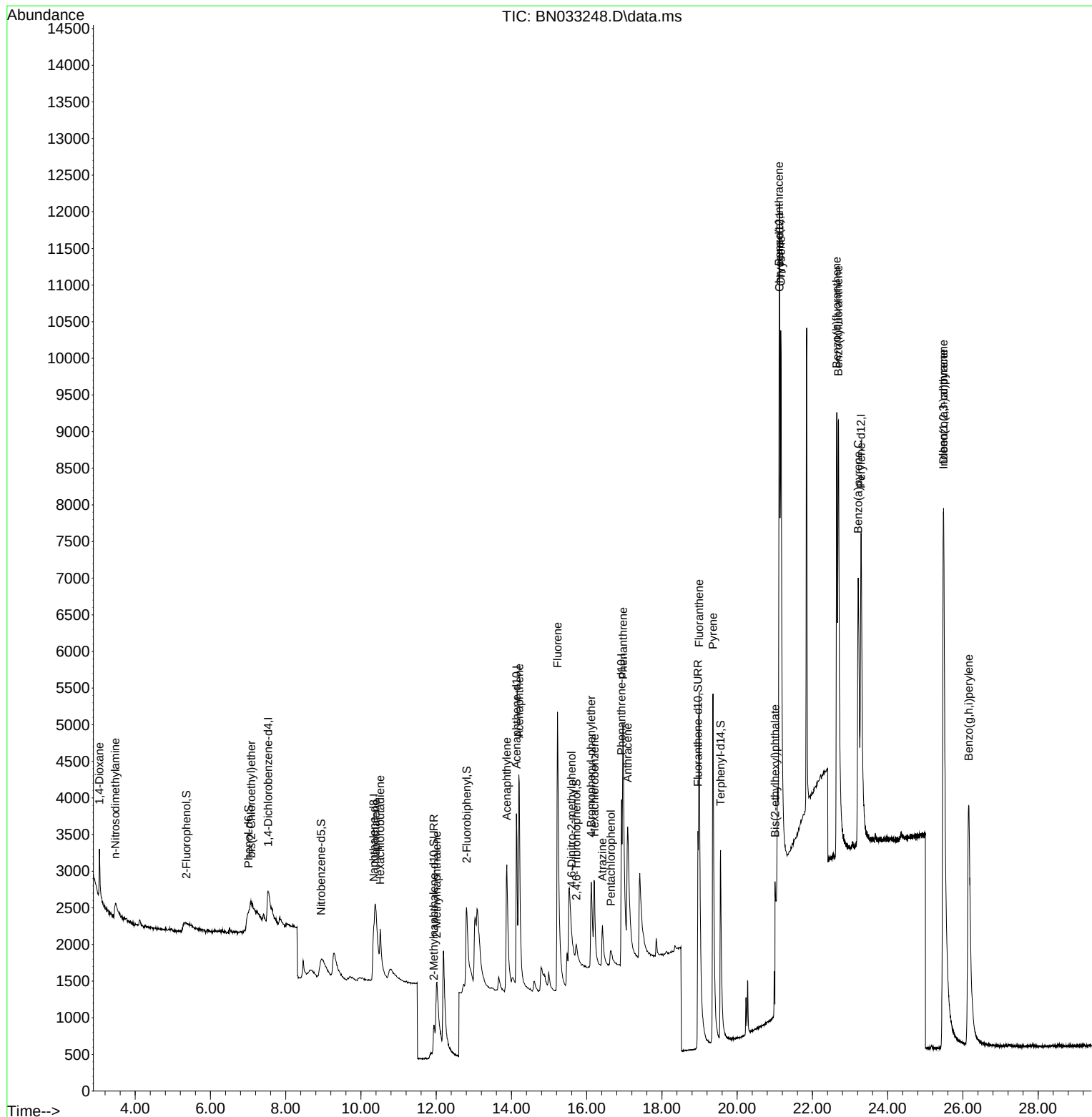
ICVBN080524

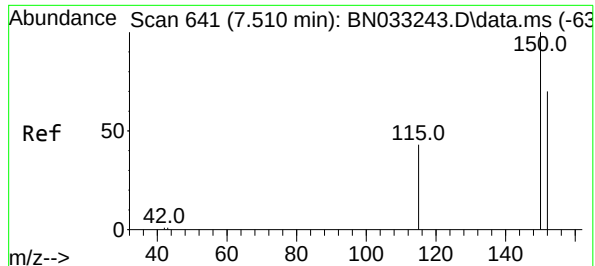
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

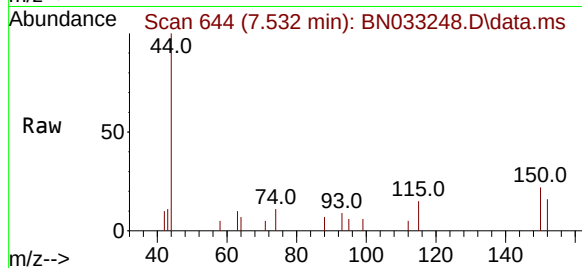
Quant Time: Aug 06 00:00:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:57:48 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.532 min Scan# 641
Delta R.T. 0.022 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

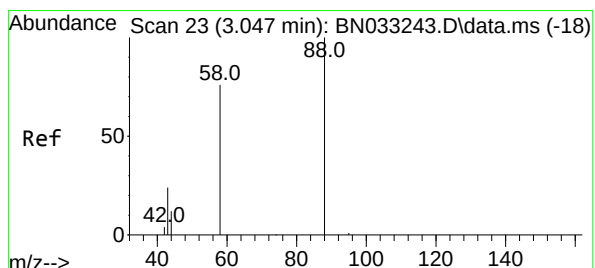
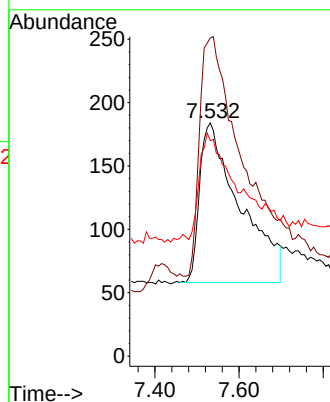
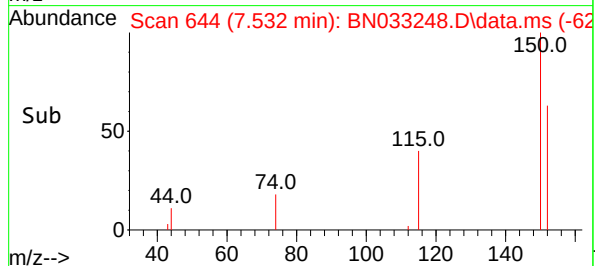
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion: 152 Resp: 839
Ion Ratio Lower Upper
152 100
150 136.4 108.2 162.2
115 92.4 70.5 105.7

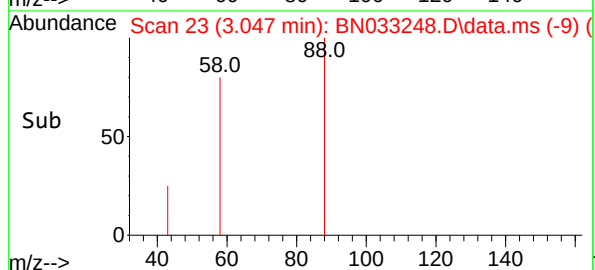
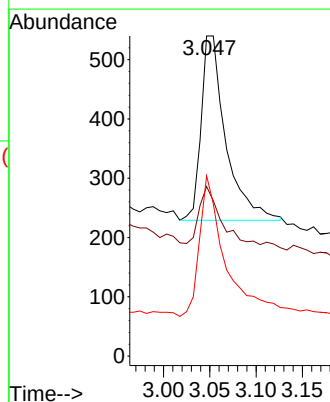
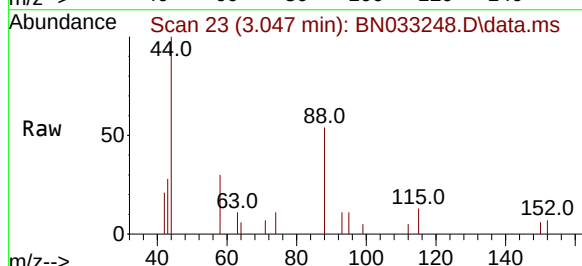
Manual Integrations
APPROVED

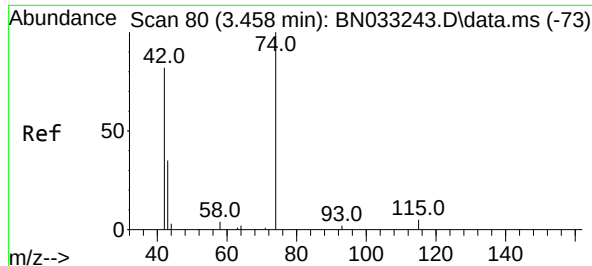
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

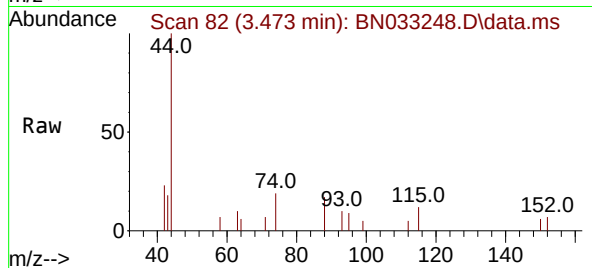
Tgt Ion: 88 Resp: 579
Ion Ratio Lower Upper
88 100
43 32.0 18.6 28.0#
58 80.1 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.015 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

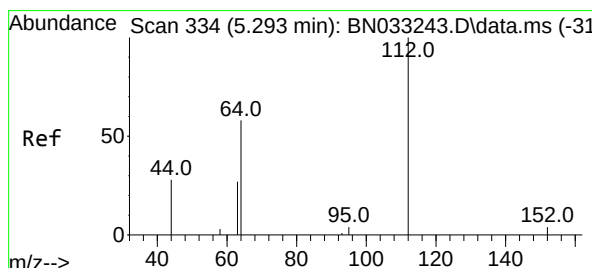
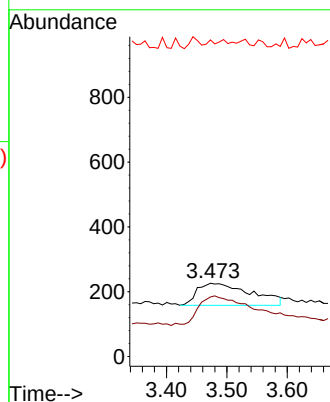
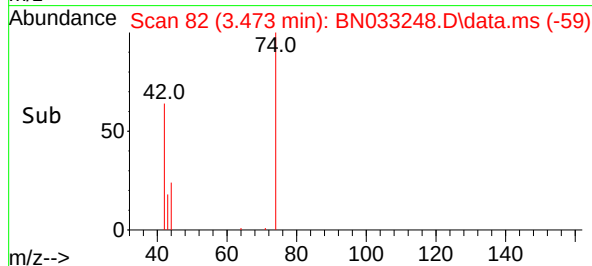
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion: 42 Resp: 424
Ion Ratio Lower Upper
42 100
74 131.4 0.0 0.0
44 1.4 9.6 14.4

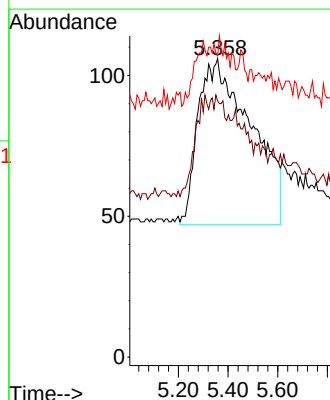
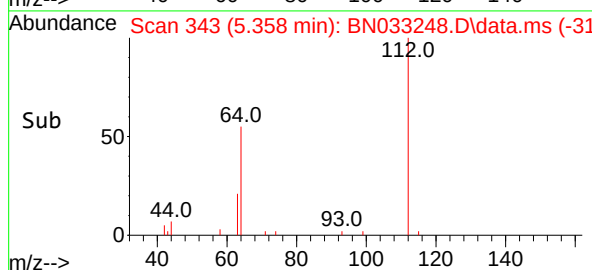
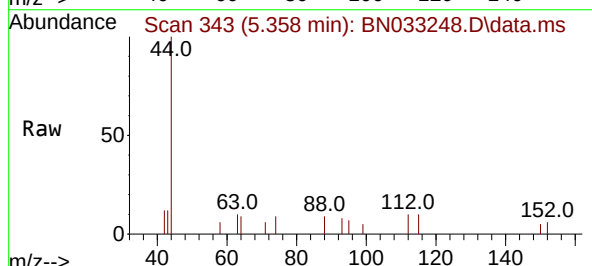
Manual Integrations
APPROVED

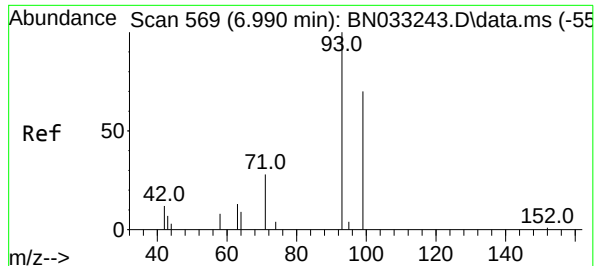
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.421 ng m
RT: 5.358 min Scan# 343
Delta R.T. 0.065 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Tgt Ion:112 Resp: 876
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





#5

Phenol-d6

Concen: 0.373 ng m

RT: 7.012 min Scan# 51

Delta R.T. 0.022 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

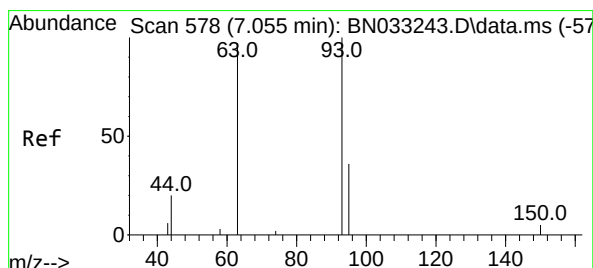
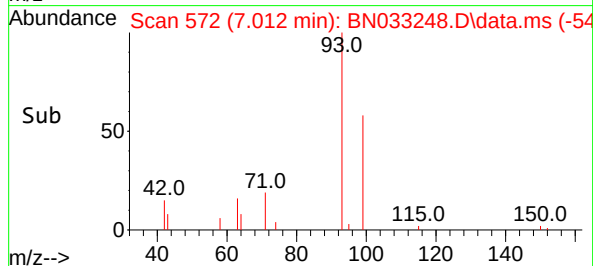
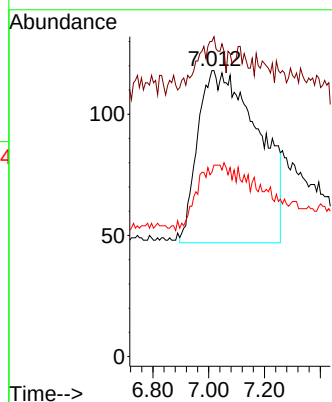
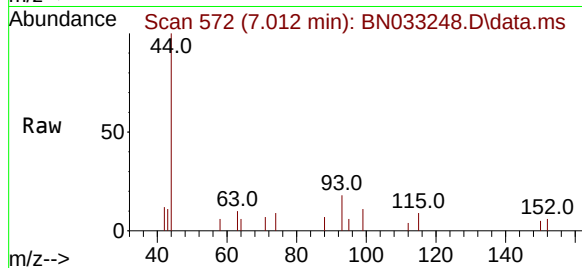
ICVBN080524

Tgt Ion:	99	Resp:	106
Ion	Ratio	Lower	Upper
99	100		
42	3.8	0.0	0.0
71	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.399 ng m

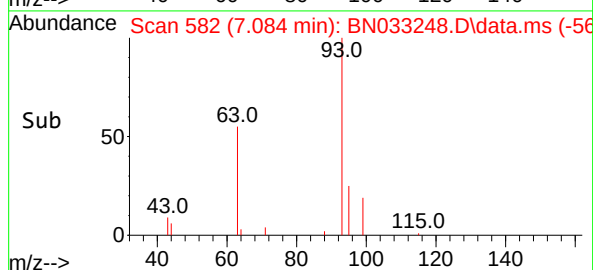
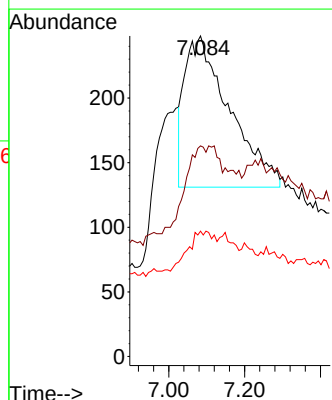
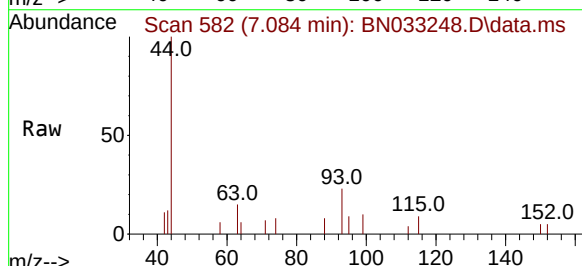
RT: 7.084 min Scan# 582

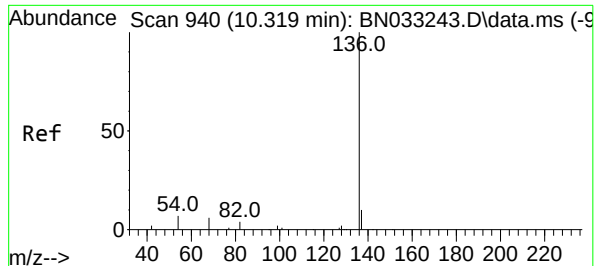
Delta R.T. 0.029 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

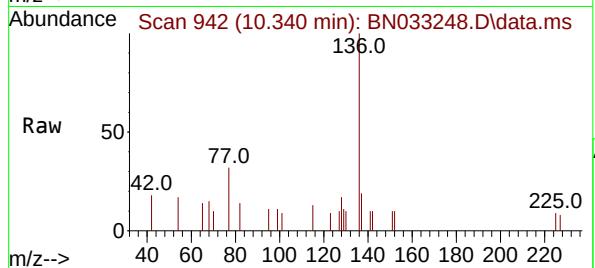
Tgt Ion:	93	Resp:	959
Ion	Ratio	Lower	Upper
93	100		
63	0.0	1.1	1.7
95	0.0	0.0	0.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 940
Delta R.T. 0.021 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

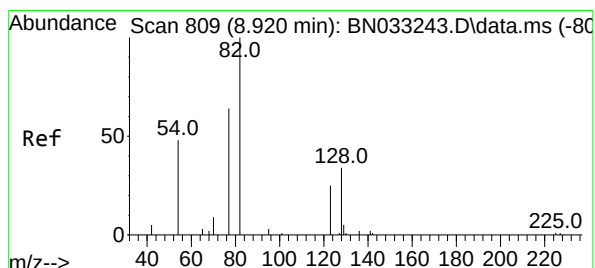
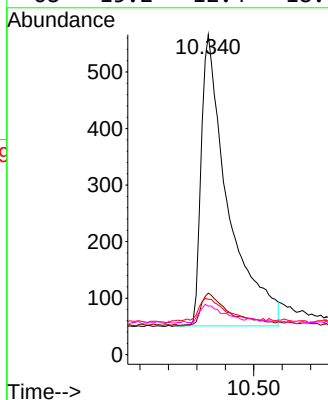
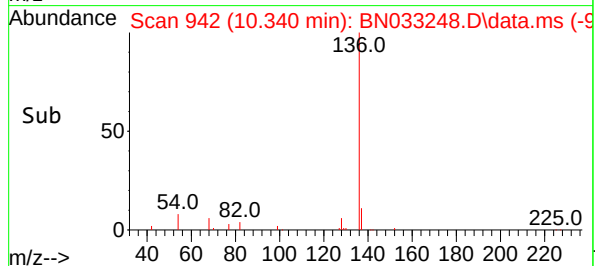
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion:	136	Resp:	335
Ion	Ratio	Lower	Upper
136	100		
137	19.3	14.1	21.1
54	17.3	13.8	20.8
68	15.2	12.4	18.6

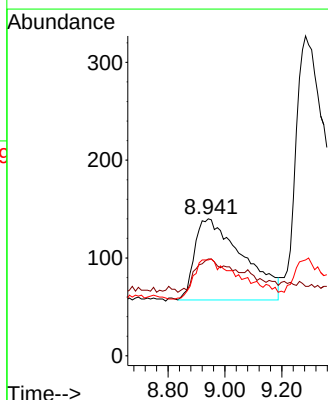
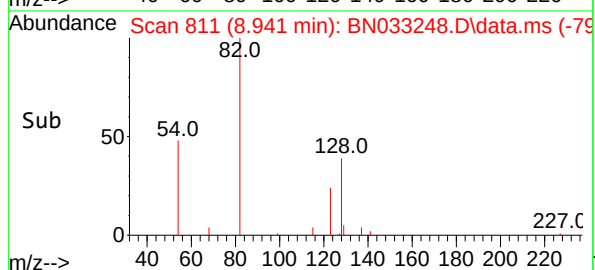
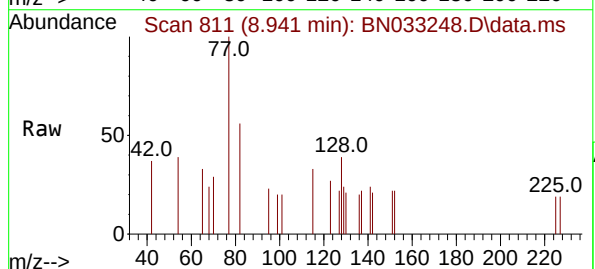
Manual Integrations
APPROVED

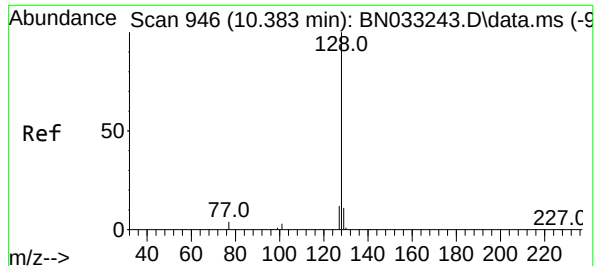
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.941 min Scan# 811
Delta R.T. 0.021 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Tgt Ion:	82	Resp:	980
Ion	Ratio	Lower	Upper
82	100		
128	70.7	54.8	82.2
54	70.0	55.9	83.9





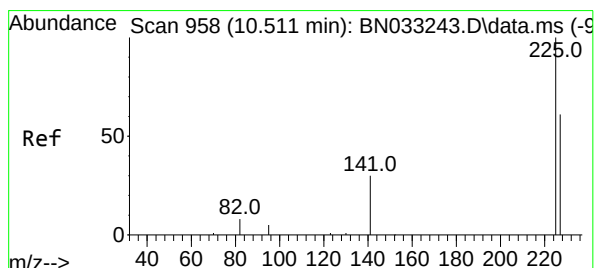
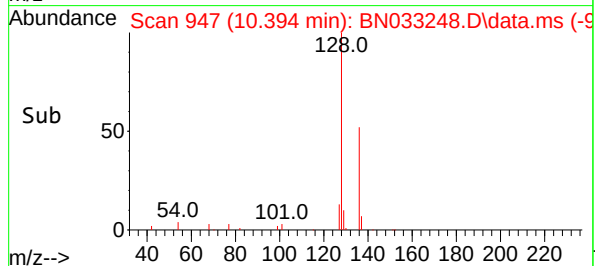
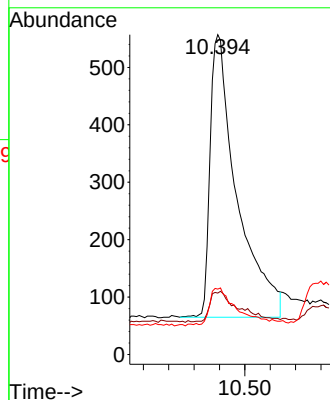
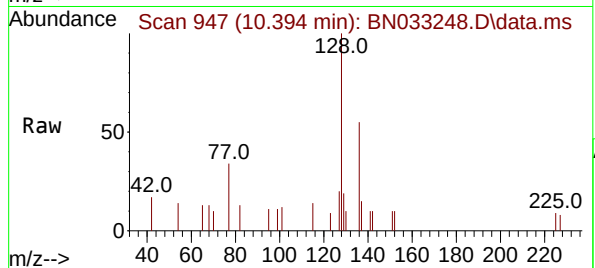
#9
Naphthalene
Concen: 0.395 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :
BNA_N
ClientSampleId :
ICVBN080524

Tgt Ion:128 Resp: 360
Ion Ratio Lower Upper
128 100
129 19.2 15.4 23.0
127 20.5 15.8 23.6

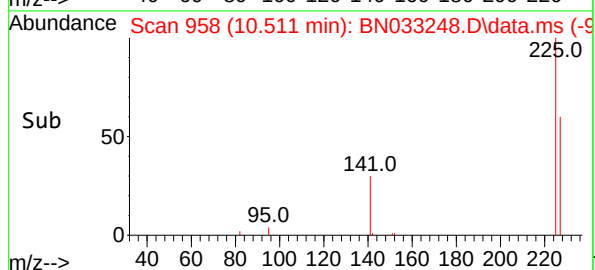
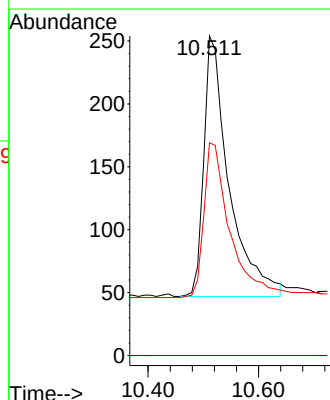
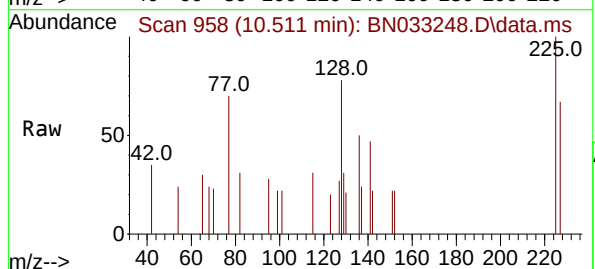
Manual Integrations
APPROVED

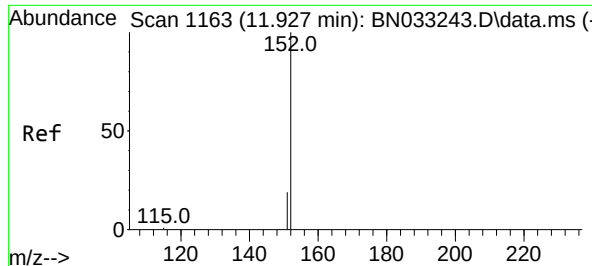
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.511 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

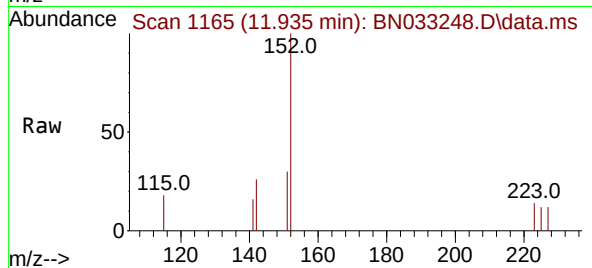
Tgt Ion:225 Resp: 656
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.6 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.008 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

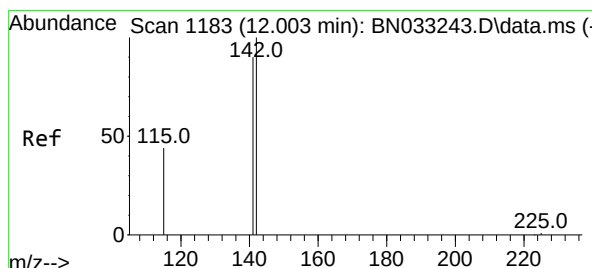
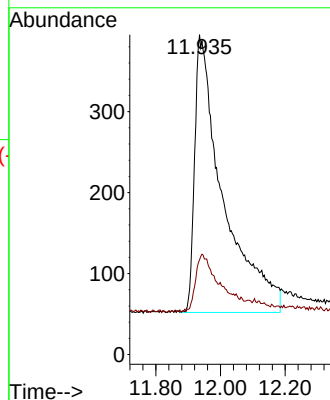
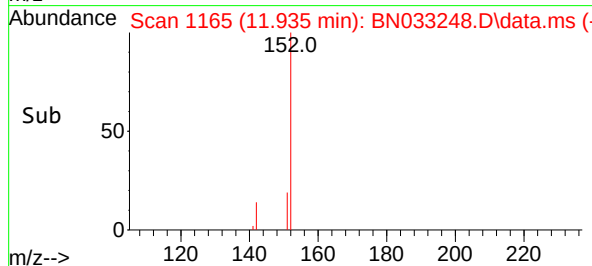
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



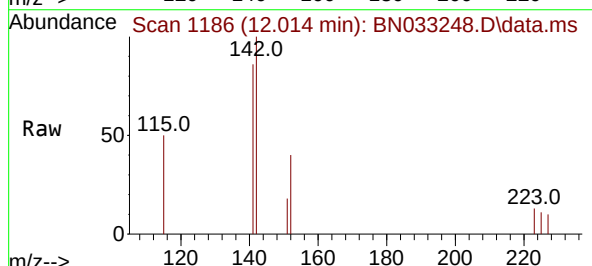
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 17.0 11.9 17.9

Manual Integrations
APPROVED

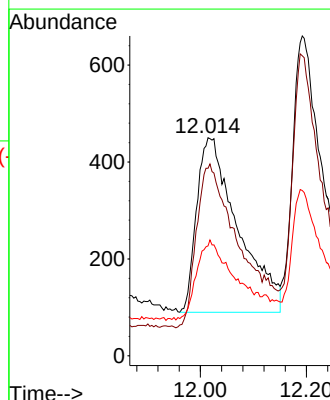
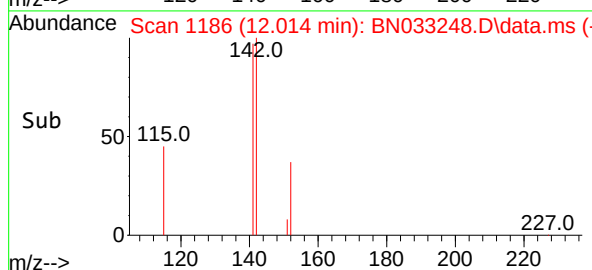
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

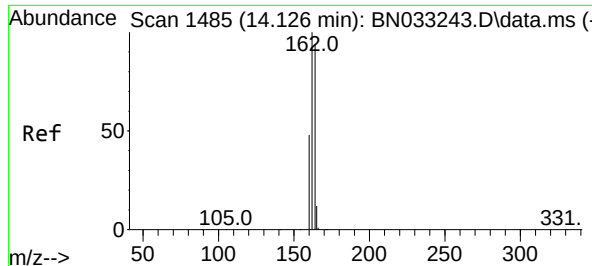


#12
2-Methylnaphthalene
Concen: 0.358 ng
RT: 12.014 min Scan# 1186
Delta R.T. 0.011 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



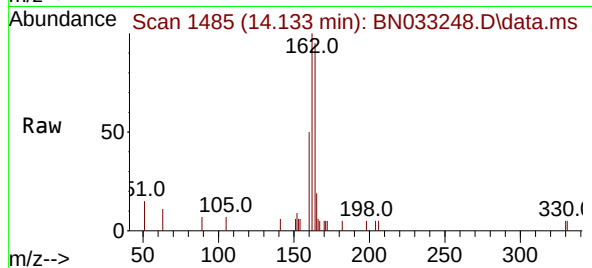
Tgt Ion:142 Resp: 1947
Ion Ratio Lower Upper
142 100
141 86.0 68.7 103.1
115 50.4 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.133 min Scan# 1485
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

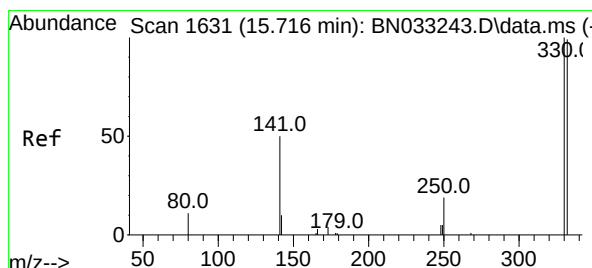
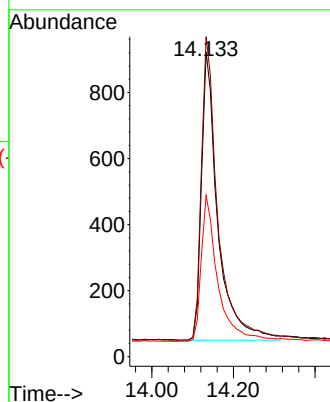
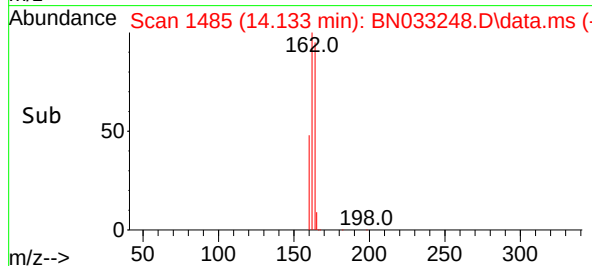
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



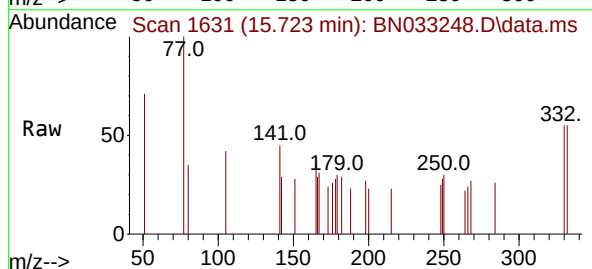
Tgt Ion:164 Resp: 242
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 52.9 42.4 63.6

Manual Integrations
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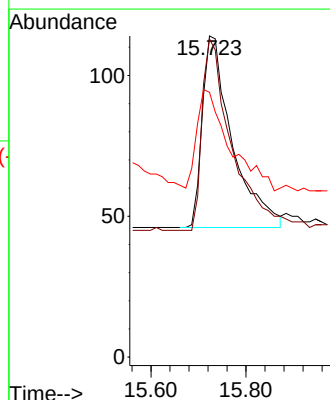
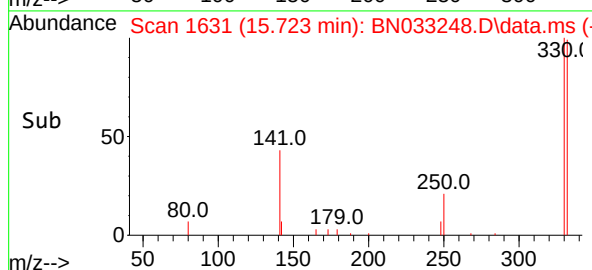
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

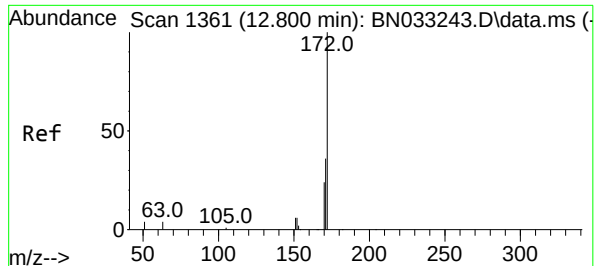


#14
2,4,6-Tribromophenol
Concen: 0.330 ng
RT: 15.723 min Scan# 1631
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



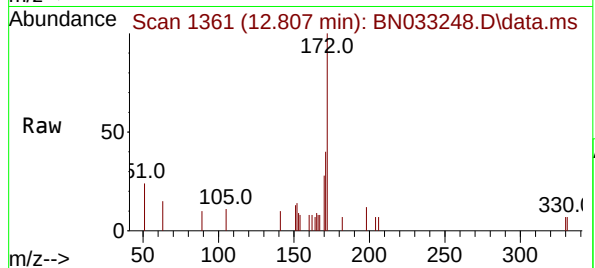
Tgt Ion:330 Resp: 298
Ion Ratio Lower Upper
330 100
332 97.3 73.7 110.5
141 58.1 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.807 min Scan# 1361
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

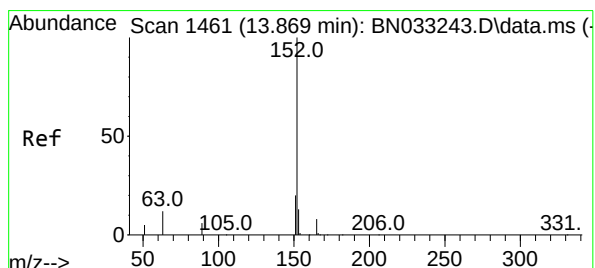
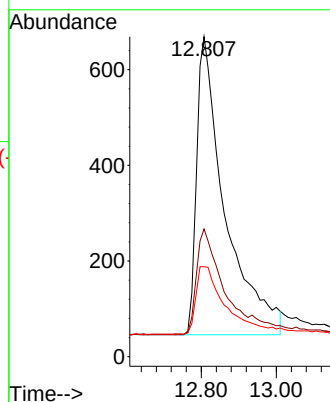
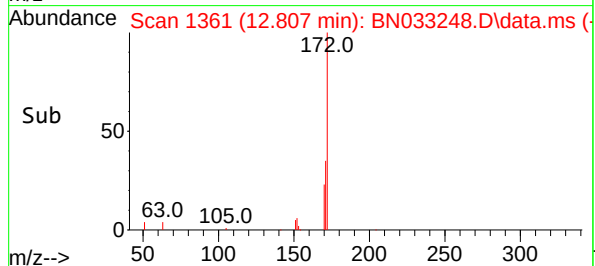
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion:172 Resp: 325
Ion Ratio Lower Upper
172 100
171 39.9 32.3 48.5
170 28.1 23.4 35.2

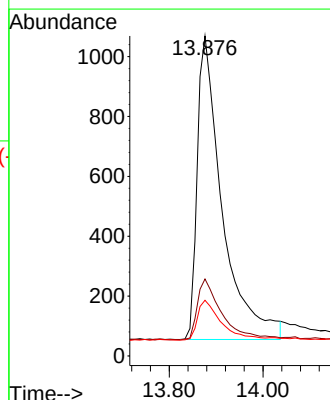
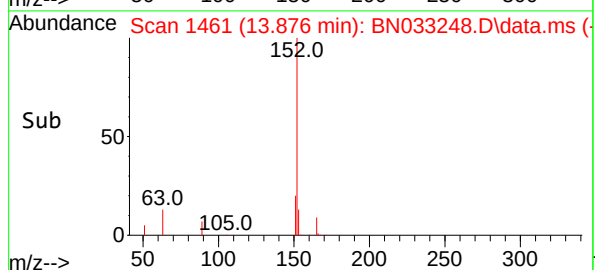
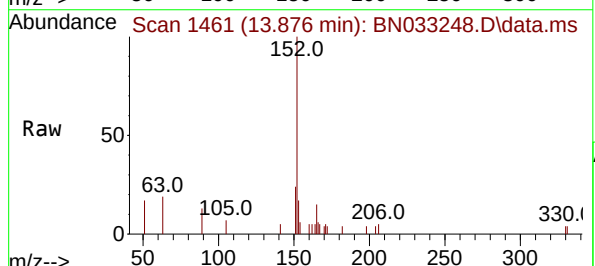
Manual Integrations
APPROVED

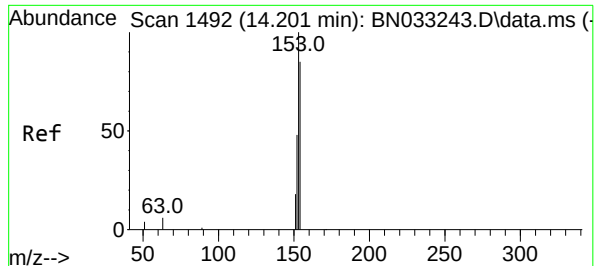
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.876 min Scan# 1461
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

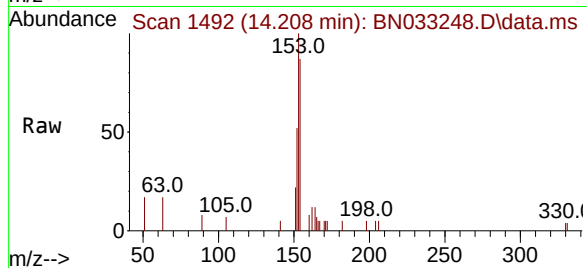
Tgt Ion:152 Resp: 3755
Ion Ratio Lower Upper
152 100
151 19.7 16.1 24.1
153 12.5 10.2 15.2





#17
Acenaphthene
Concen: 0.384 ng
RT: 14.208 min Scan# 1492
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

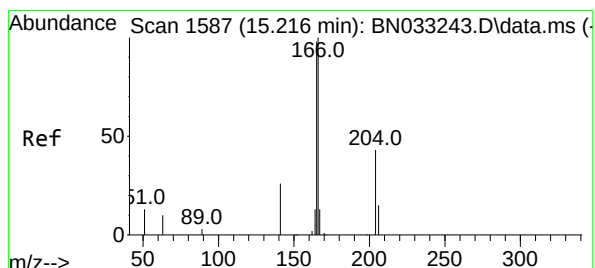
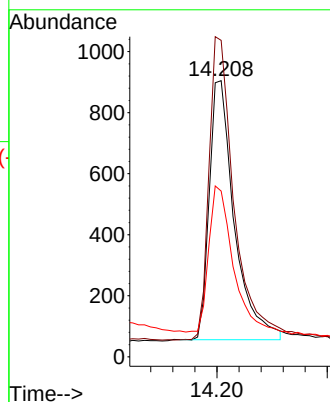
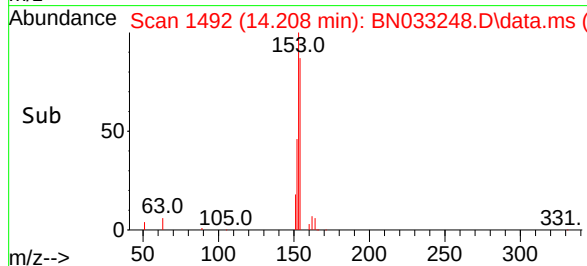
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



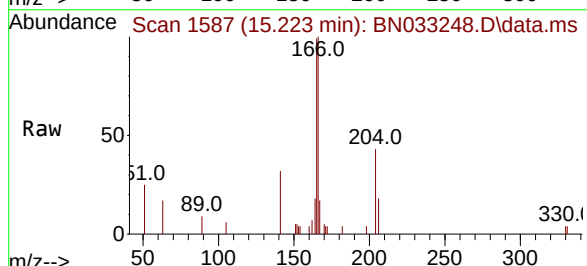
Tgt Ion:154 Resp: 268
Ion Ratio Lower Upper
154 100
153 117.0 92.7 139.1
152 54.4 44.0 66.0

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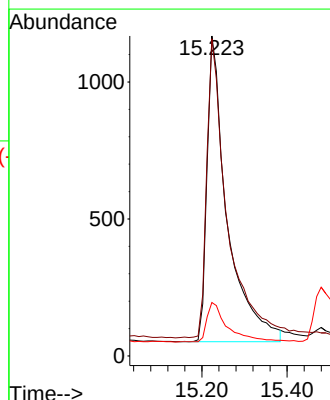
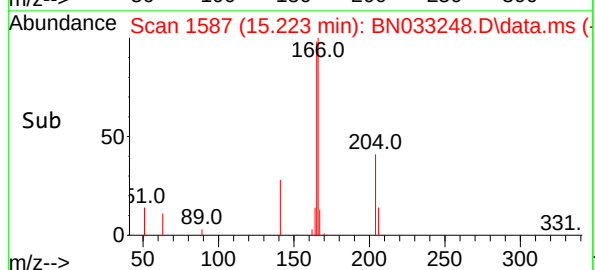
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

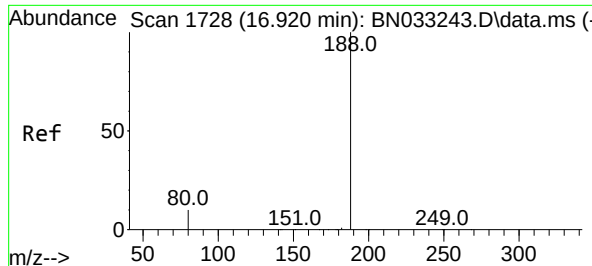


#18
Fluorene
Concen: 0.389 ng
RT: 15.223 min Scan# 1587
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



Tgt Ion:166 Resp: 3671
Ion Ratio Lower Upper
166 100
165 97.9 79.6 119.4
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.927 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

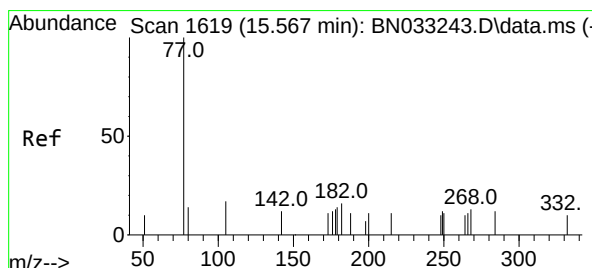
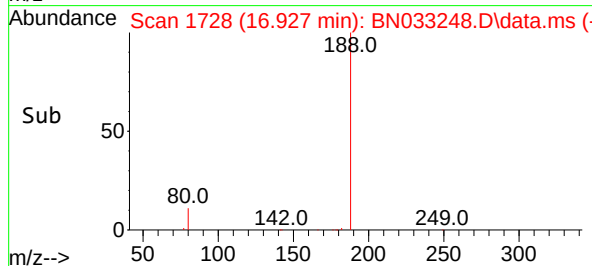
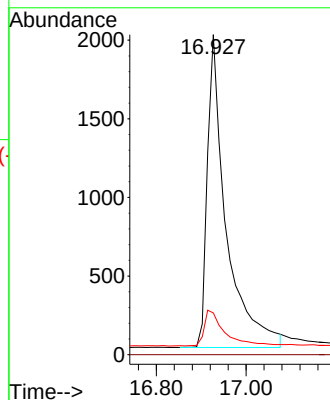
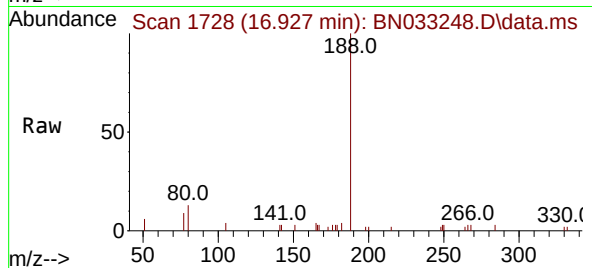
ClientSampleId :

ICVBN080524

Tgt Ion:	188	Resp:	577
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.1	10.2	15.4

Manual Integrations
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.407 ng

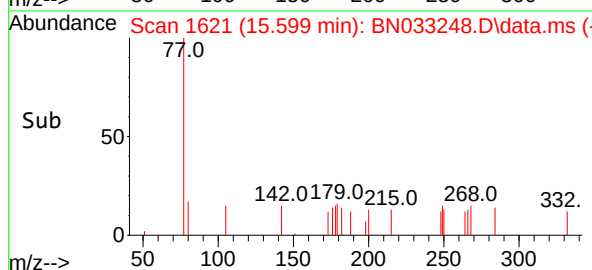
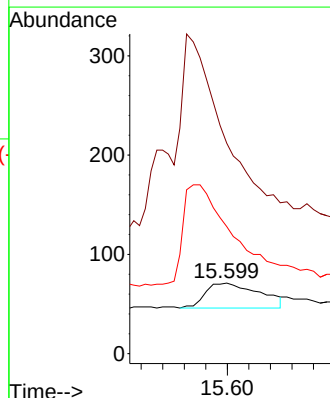
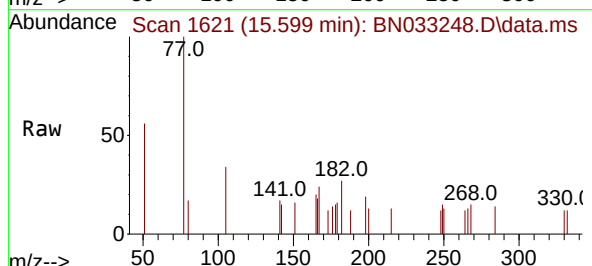
RT: 15.599 min Scan# 1621

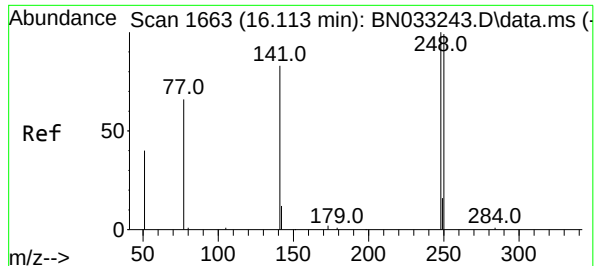
Delta R.T. 0.032 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:	198	Resp:	174
Ion Ratio	Lower	Upper	
198	100		
51	298.6	250.6	375.8
105	180.3	152.6	229.0





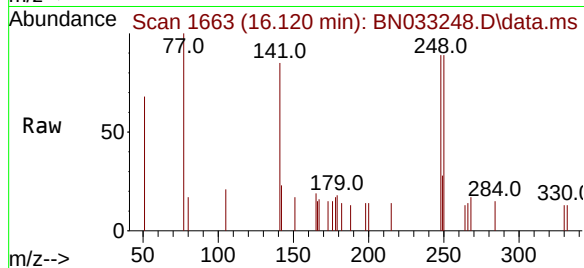
#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.120 min Scan# 1663
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

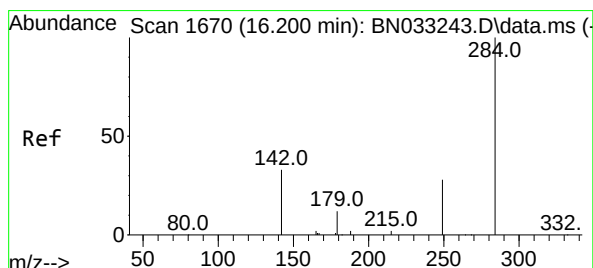
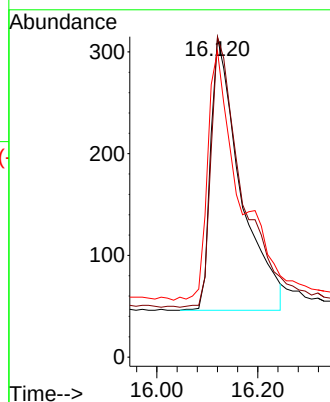
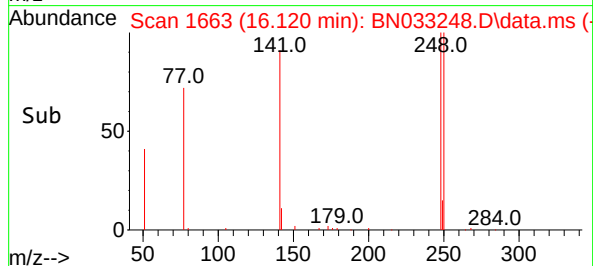


Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.0	120.0
141	95.9	71.0	106.6

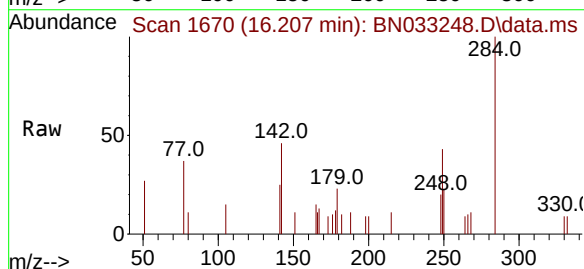
Manual Integrations

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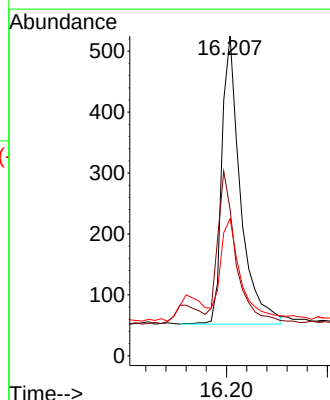
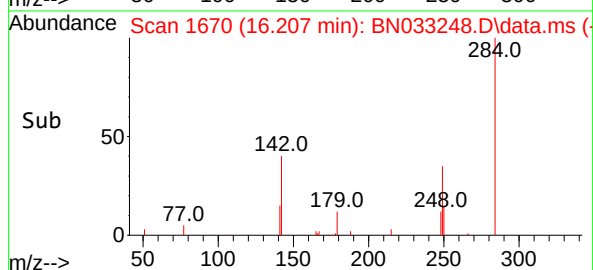
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

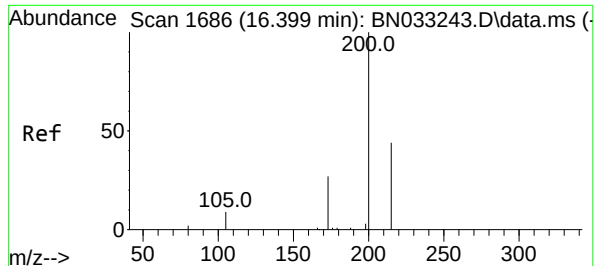


#22
Hexachlorobenzene
Concen: 0.377 ng
RT: 16.207 min Scan# 1670
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



Tgt Ion	Ratio	Lower	Upper
284	100		
142	48.6	38.8	58.2
249	34.4	27.8	41.6





#23

Atrazine

Concen: 0.365 ng

RT: 16.418 min Scan# 1

Delta R.T. 0.019 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

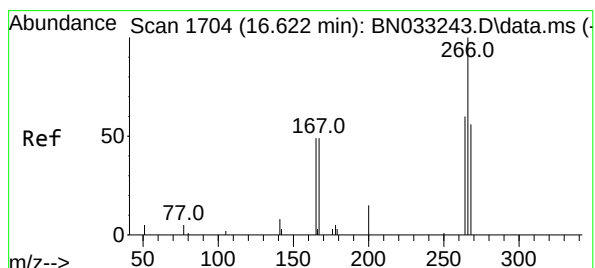
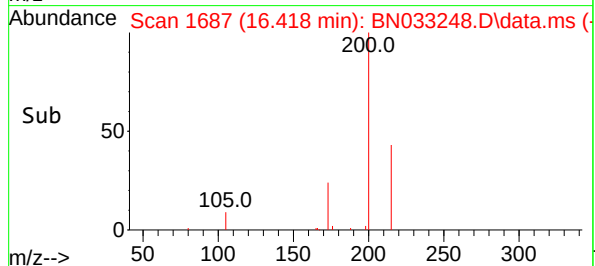
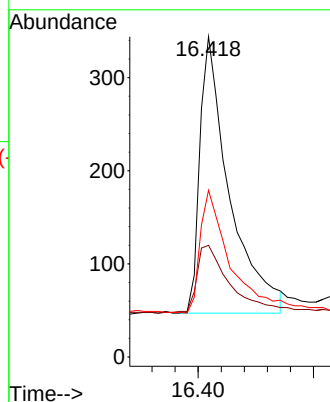
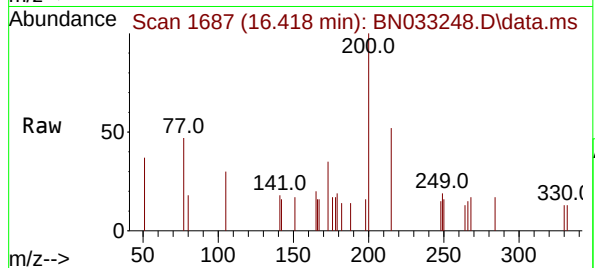
ICVBN080524

Tgt Ion:	200	Resp:	105
Ion Ratio	Lower	Upper	
200	100		
173	34.9	29.2	43.8
215	52.0	41.5	62.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24

Pentachlorophenol

Concen: 0.321 ng

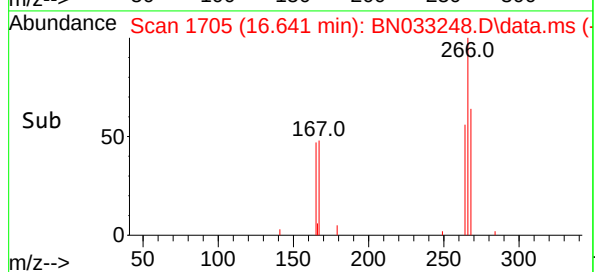
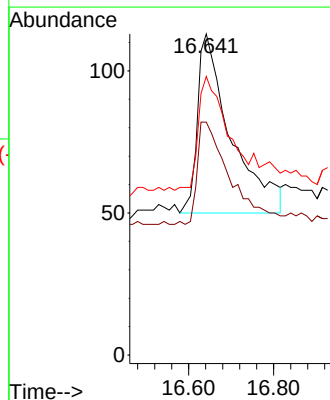
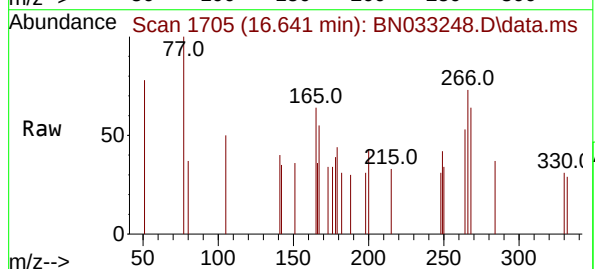
RT: 16.641 min Scan# 1705

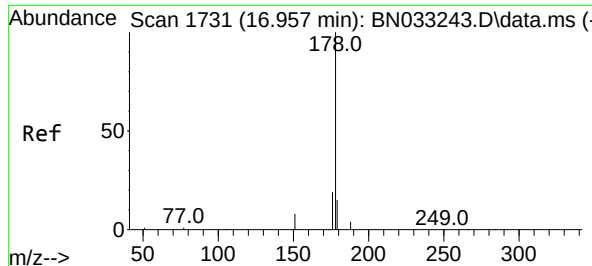
Delta R.T. 0.019 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

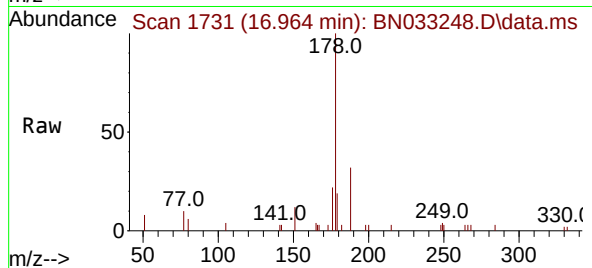
Tgt Ion:	266	Resp:	344
Ion Ratio	Lower	Upper	
266	100		
264	56.4	49.3	73.9
268	67.4	50.2	75.2





#25
Phenanthrene
Concen: 0.371 ng
RT: 16.964 min Scan# 1731
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

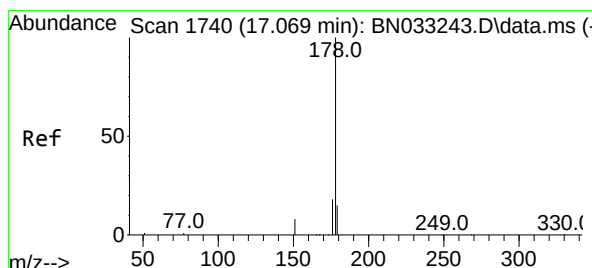
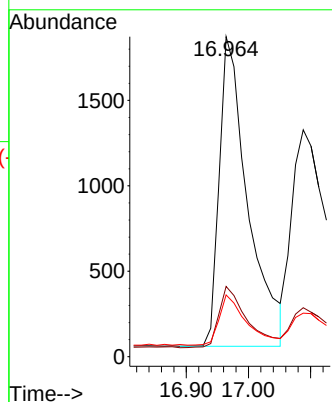
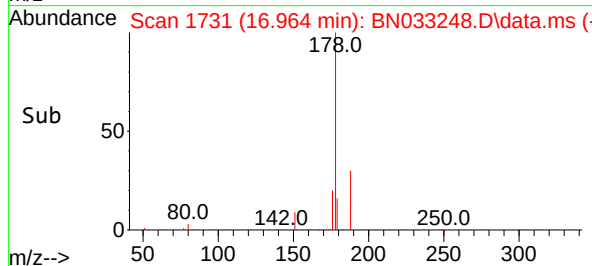
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion:178 Resp: 5770
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.6 12.4 18.6

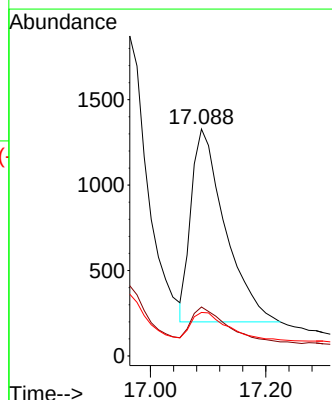
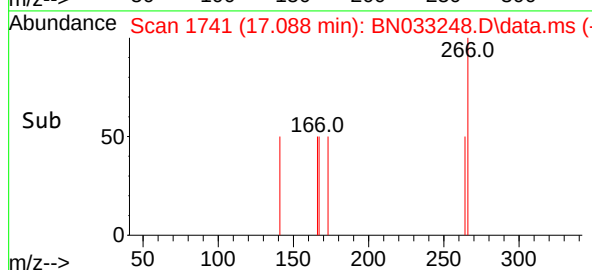
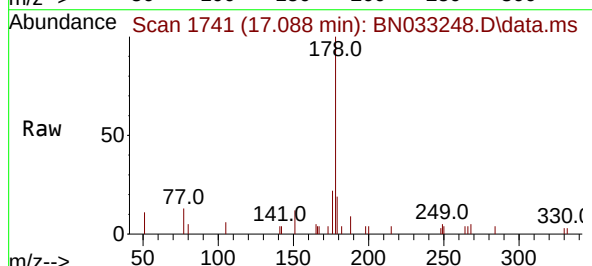
Manual Integrations
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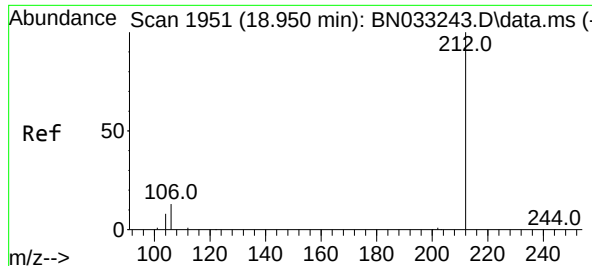
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.354 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.019 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Tgt Ion:178 Resp: 4615
Ion Ratio Lower Upper
178 100
176 18.3 10.5 15.7#
179 14.8 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.372 ng

RT: 18.957 min Scan# 1951

Delta R.T. 0.007 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

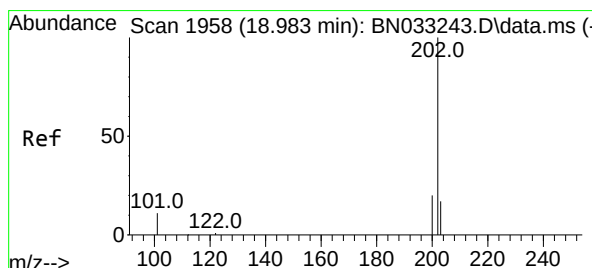
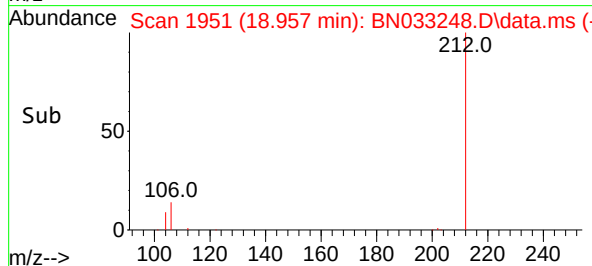
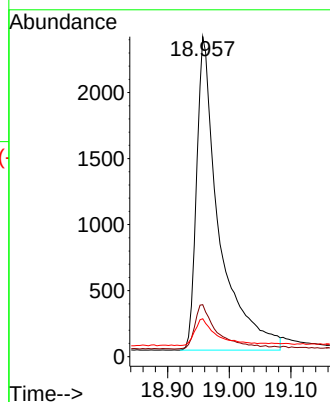
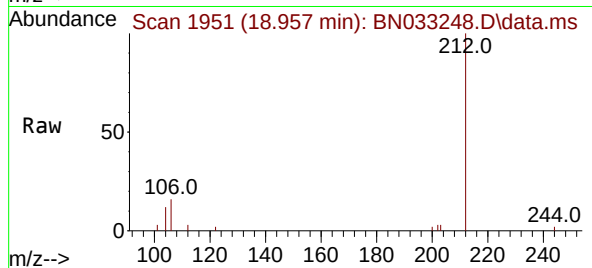
ICVBN080524

Tgt Ion:	212	Resp:	6014
Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.4	17.0
104	8.2	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.362 ng

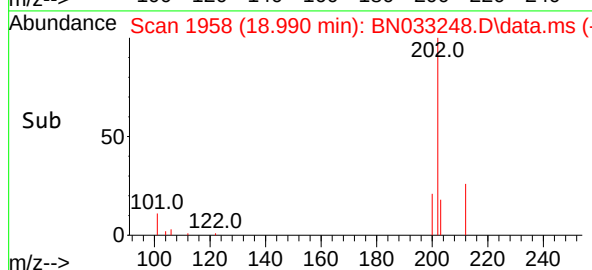
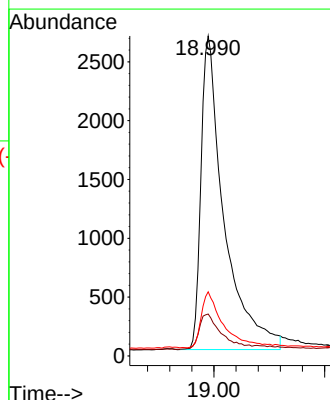
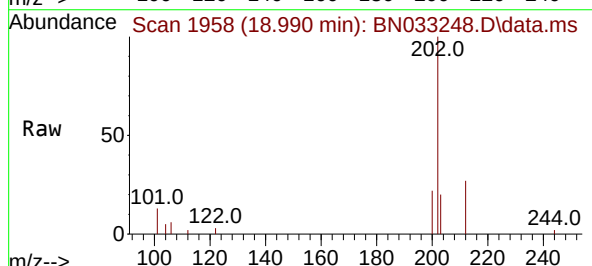
RT: 18.990 min Scan# 1958

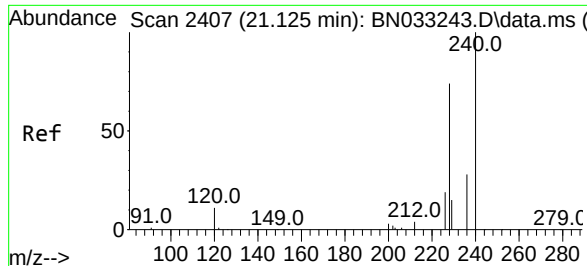
Delta R.T. 0.007 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:	202	Resp:	7717
Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.6	13.0
203	17.1	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.122 min Scan# 2407

Delta R.T. -0.003 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

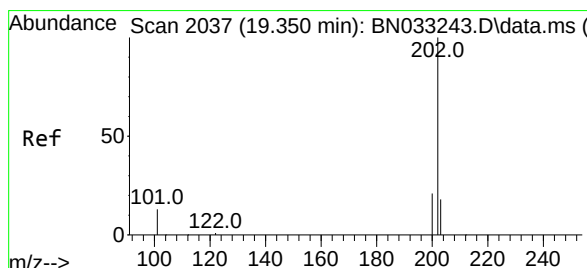
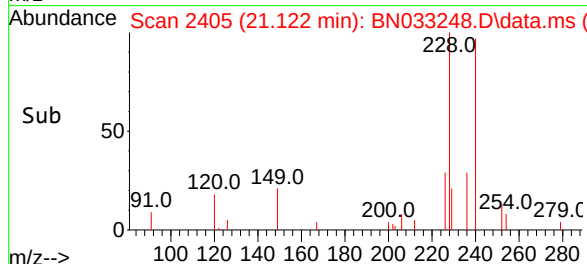
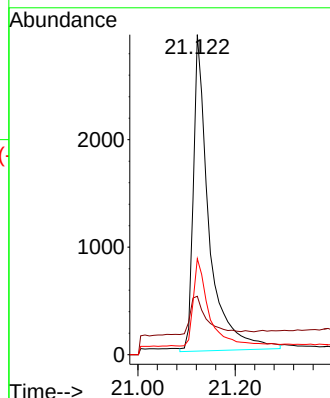
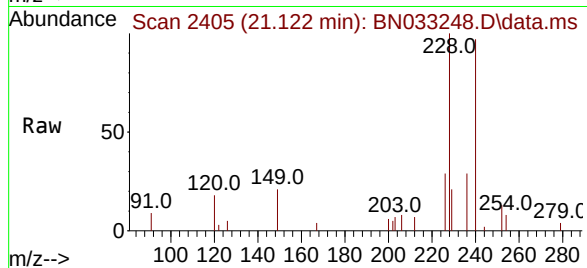
ICVBN080524

Tgt Ion:240	Resp:	6570
Ion Ratio	Lower	Upper
240	100	
120	18.2	13.3 19.9
236	30.0	23.8 35.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.360 ng

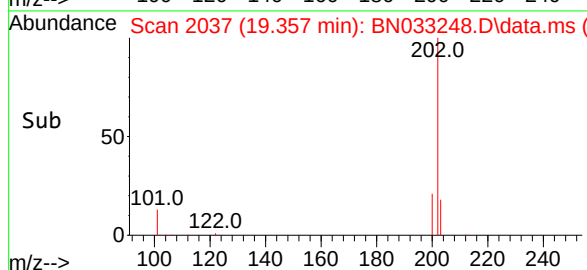
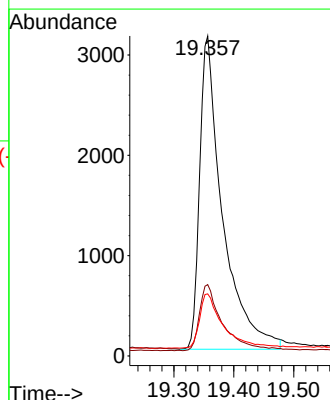
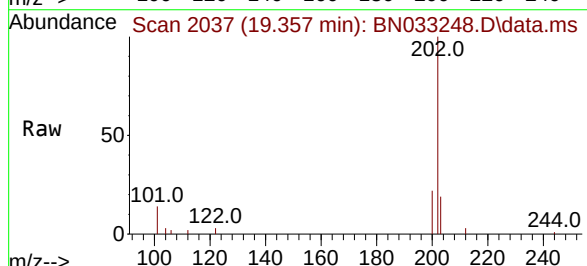
RT: 19.357 min Scan# 2037

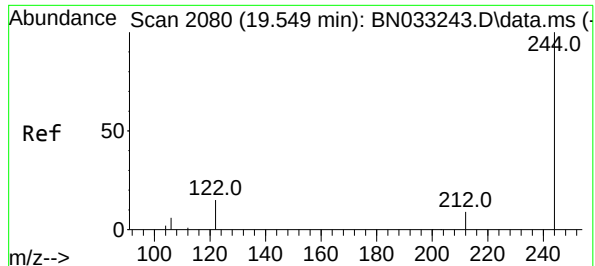
Delta R.T. 0.007 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:202	Resp:	8277
Ion Ratio	Lower	Upper
202	100	
200	20.9	17.0 25.4
203	17.8	14.4 21.6





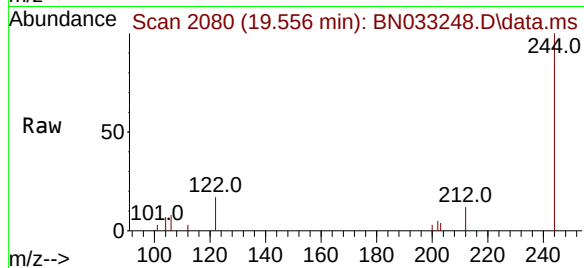
#31
Terphenyl-d14
Concen: 0.446 ng
RT: 19.556 min Scan# 2080
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

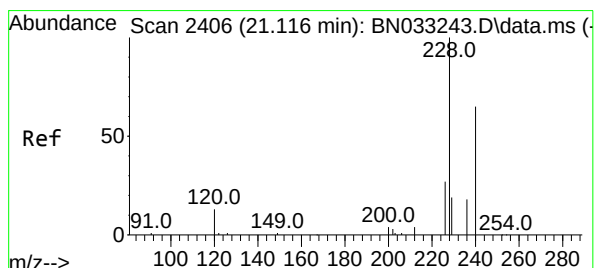
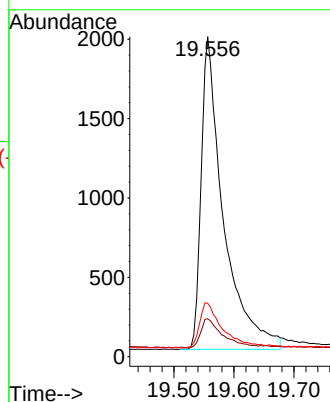
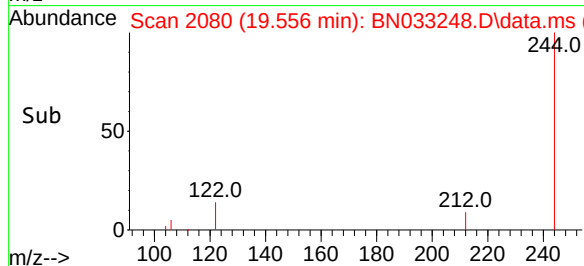


Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.9	14.9
122	16.7	14.1	21.1

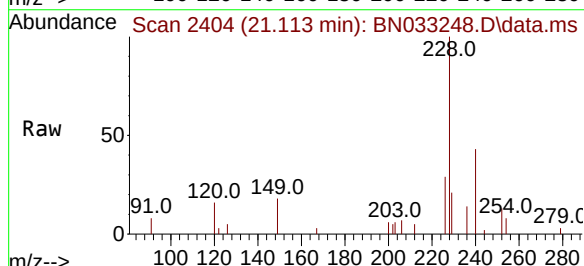
Manual Integrations

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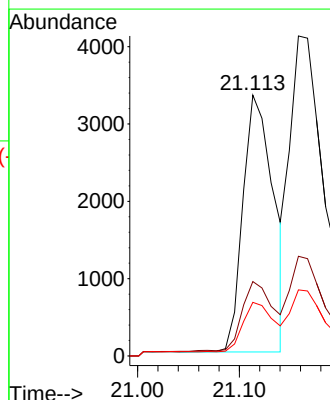
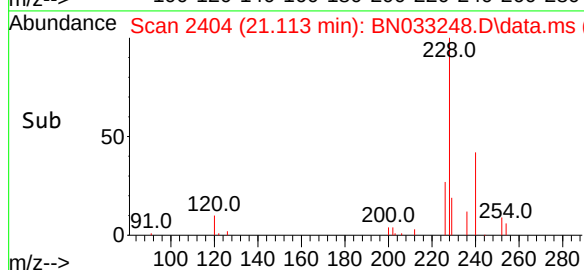
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

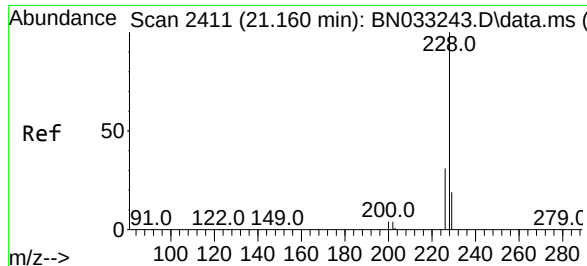


#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.113 min Scan# 2404
Delta R.T. -0.003 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.4	33.6
229	20.5	16.6	25.0





#33

Chrysene

Concen: 0.403 ng

RT: 21.158 min Scan# 2411

Delta R.T. -0.002 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

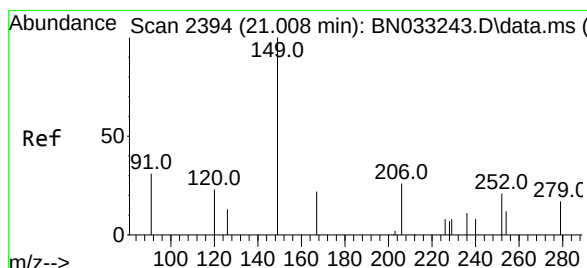
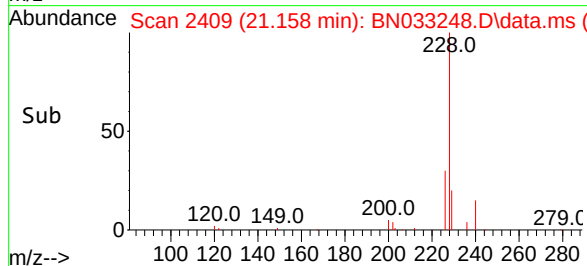
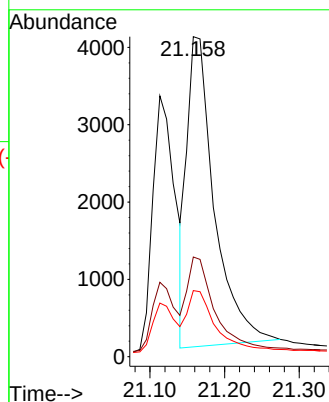
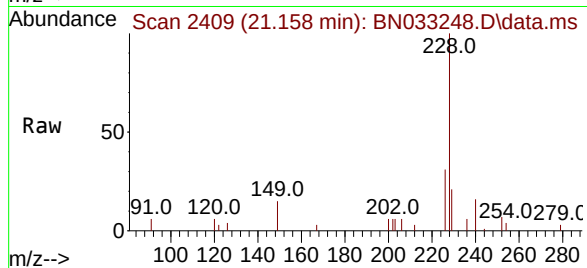
ICVBN080524

Tgt Ion:	228	Resp:	1023
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.1	37.7
229	20.7	16.2	24.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.322 ng

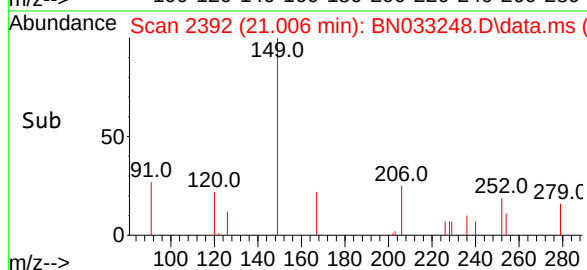
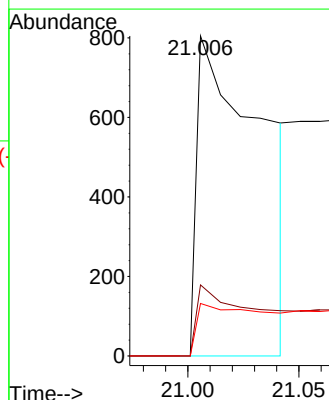
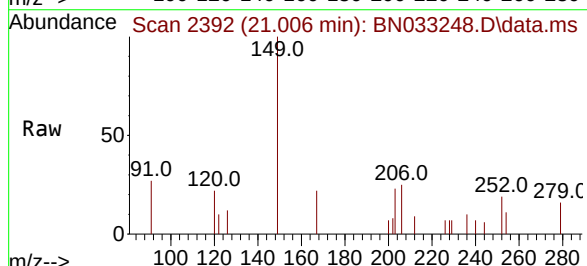
RT: 21.006 min Scan# 2392

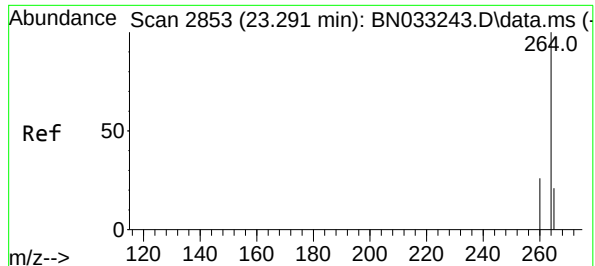
Delta R.T. -0.002 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:	149	Resp:	1465
Ion Ratio	Lower	Upper	
149	100		
167	24.7	19.8	29.6
279	18.0	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.292 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN033248.D

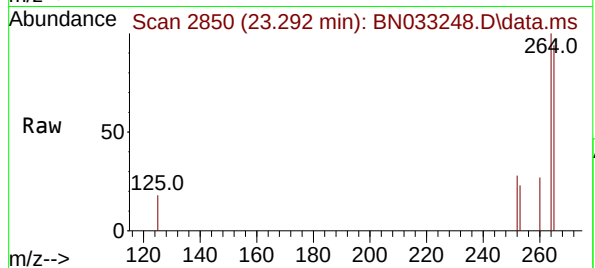
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

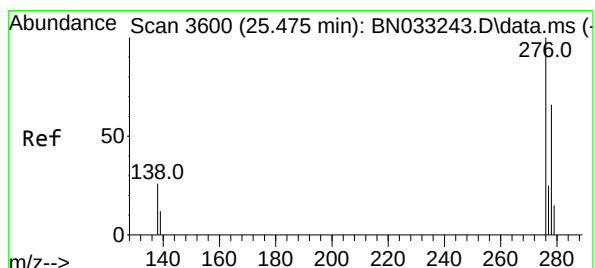
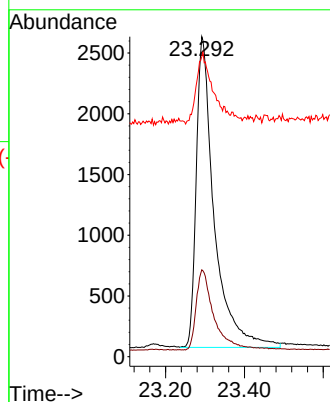
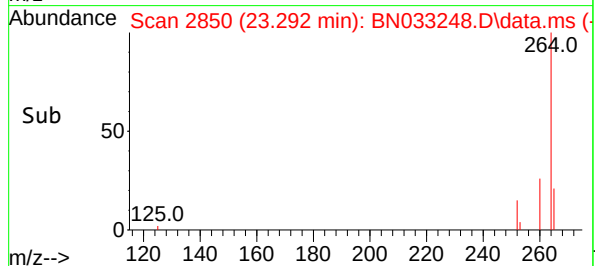


Tgt Ion:	264	Resp:	8080
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	93.7	66.6	99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36

Indeno(1,2,3-cd)pyrene

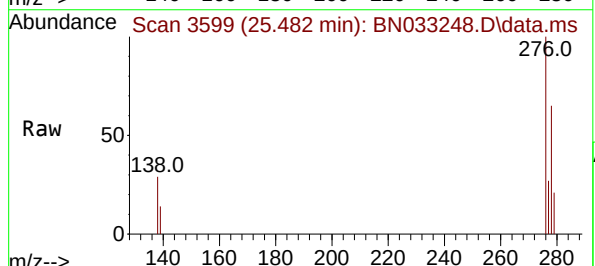
Concen: 0.380 ng

RT: 25.482 min Scan# 3599

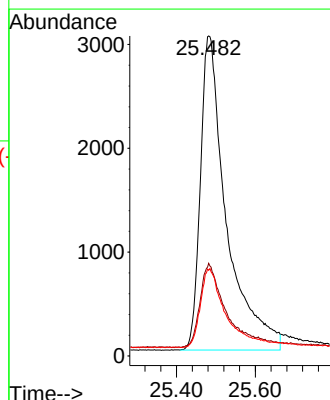
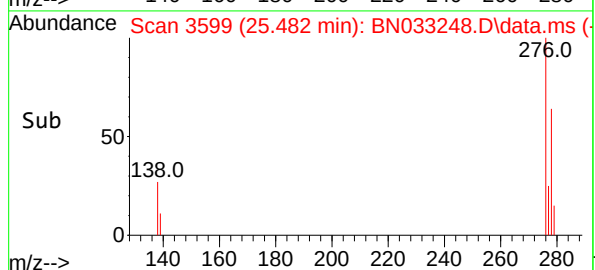
Delta R.T. 0.007 min

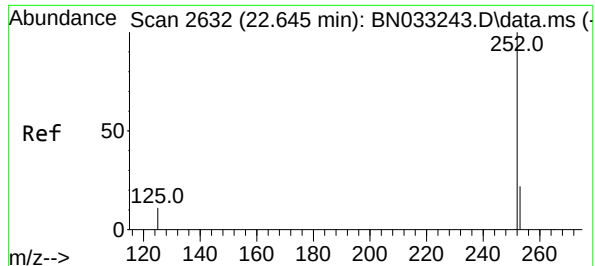
Lab File: BN033248.D

Acq: 05 Aug 2024 22:58



Tgt Ion:	276	Resp:	13869
Ion	Ratio	Lower	Upper
276	100		
138	25.8	20.4	30.6
277	24.6	19.9	29.9





#37

Benzo(b)fluoranthene

Concen: 0.344 ng

RT: 22.646 min Scan# 2629

Delta R.T. 0.001 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

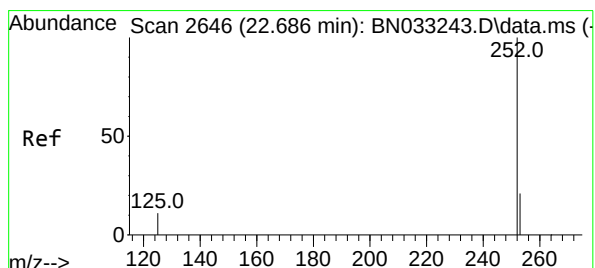
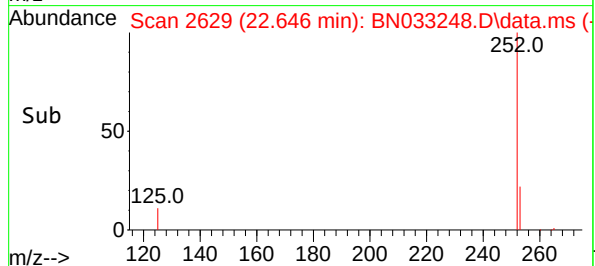
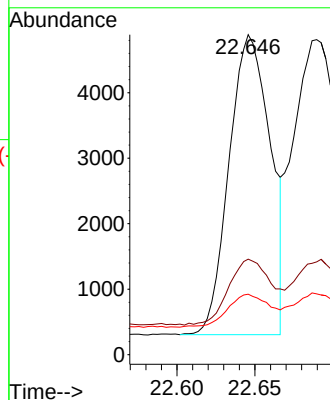
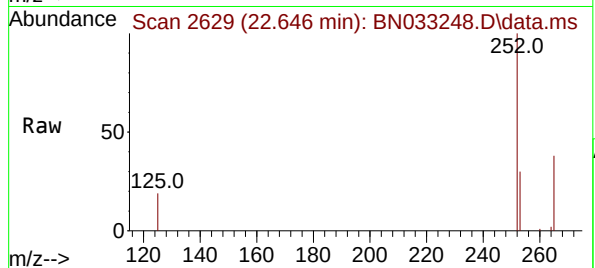
ICVBN080524

Tgt Ion:	252	Resp:	8428
Ion Ratio	Lower	Upper	
252	100		
253	29.8	23.3	34.9
125	18.9	14.6	22.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.394 ng

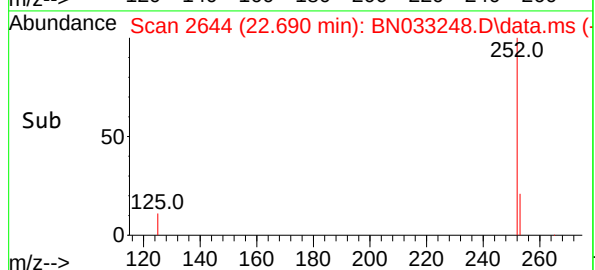
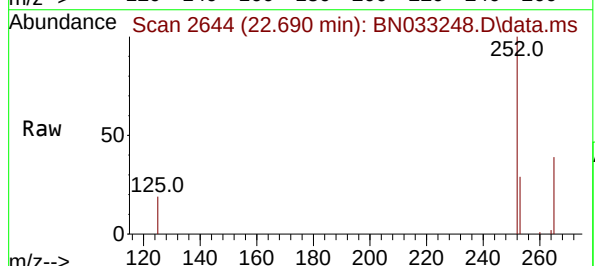
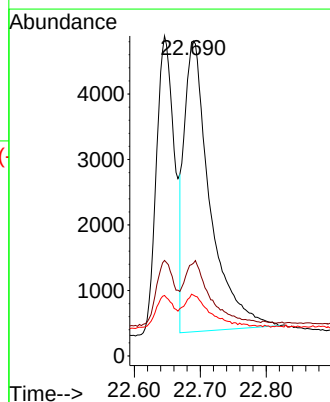
RT: 22.690 min Scan# 2644

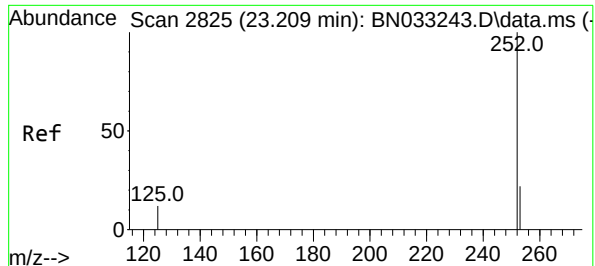
Delta R.T. 0.004 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:	252	Resp:	12069
Ion Ratio	Lower	Upper	
252	100		
253	29.5	23.7	35.5
125	19.3	15.4	23.0





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.216 min Scan# 21

Delta R.T. 0.007 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

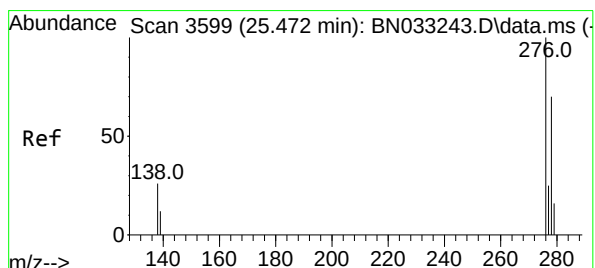
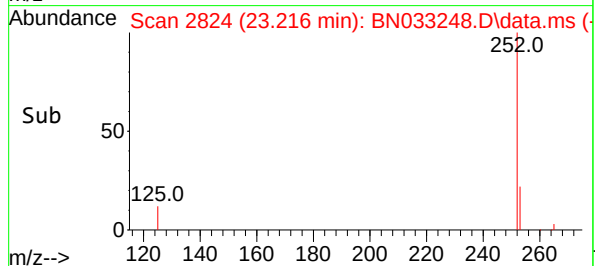
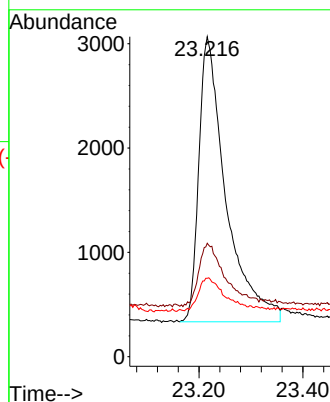
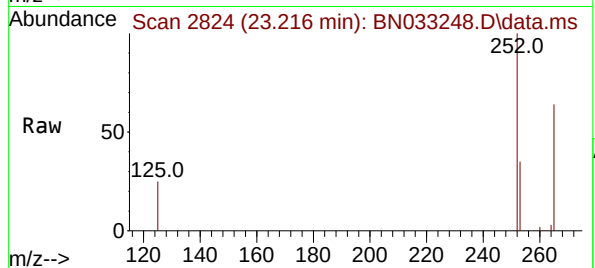
ICVBN080524

Tgt Ion:	252	Resp:	986
Ion Ratio	Lower	Upper	
252	100		
253	35.5	28.4	42.6
125	24.5	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.379 ng

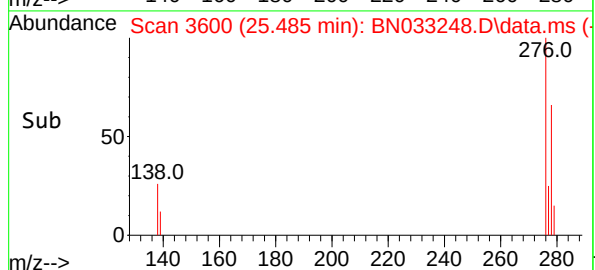
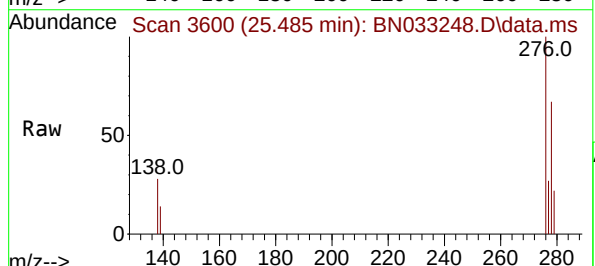
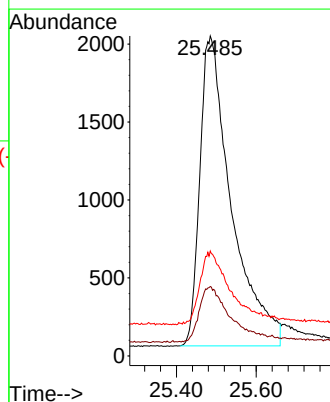
RT: 25.485 min Scan# 3600

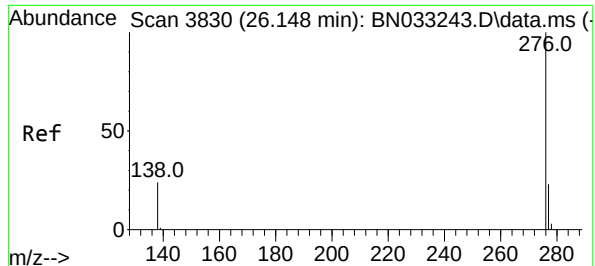
Delta R.T. 0.013 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Tgt Ion:	278	Resp:	10928
Ion Ratio	Lower	Upper	
278	100		
139	21.7	16.7	25.1
279	32.8	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.350 ng

RT: 26.151 min Scan# 3828

Delta R.T. 0.004 min

Lab File: BN033248.D

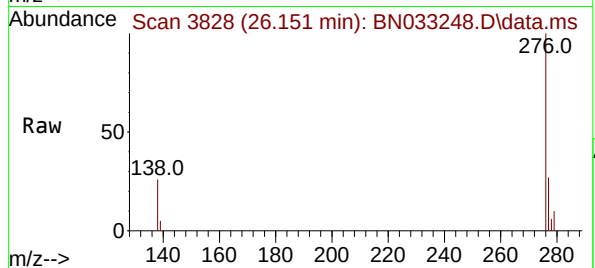
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524



Tgt Ion:276 Resp: 11569

Ion Ratio Lower Upper

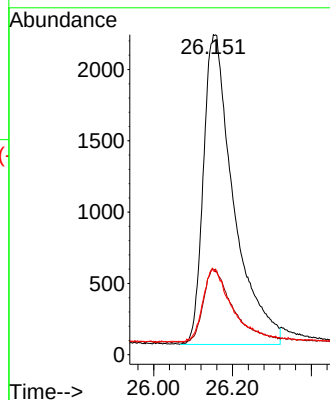
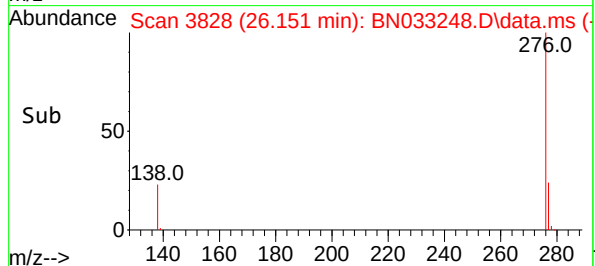
276 100

277 26.7 21.0 31.4

138 26.2 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033248.D
Acq On : 05 Aug 2024 22:58
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN080524

Quant Time: Aug 06 00:00:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 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	87	0.02
2	1,4-Dioxane	0.583	0.690	-18.4	98	0.00
3	n-Nitrosodimethylamine	0.488	0.505	-3.5	103	0.01
4 S	2-Fluorophenol	0.991	1.044	-5.3	82	0.06
5 S	Phenol-d6	1.361	1.271	6.6	78	0.02
6	bis(2-Chloroethyl)ether	1.147	1.143	0.3	83	0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	92	0.02
8 S	Nitrobenzene-d5	0.322	0.292	9.3	99	0.02
9	Naphthalene	1.087	1.074	1.2	94	0.01
10	Hexachlorobutadiene	0.202	0.196	3.0	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.593	0.623	-5.1	99	0.00
12	2-Methylnaphthalene	0.648	0.581	10.3	96	0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
14 S	2,4,6-Tribromophenol	0.149	0.123	17.4	90	0.00
15 S	2-Fluorobiphenyl	1.368	1.344	1.8	100	0.00
16	Acenaphthylene	1.596	1.550	2.9	102	0.00
17	Acenaphthene	1.152	1.106	4.0	95	0.00
18	Fluorene	1.559	1.515	2.8	100	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.052	0.030	42.3#	87	0.03
21	4-Bromophenyl-phenylether	0.212	0.190	10.4	94	0.00
22	Hexachlorobenzene	0.222	0.209	5.9	100	0.00
23	Atrazine	0.200	0.183	8.5	100	0.02
24	Pentachlorophenol	0.074	0.060	18.9	89	0.02
25	Phenanthrene	1.076	0.999	7.2	103	0.00
26	Anthracene	0.902	0.799	11.4	99	0.02
27 SURR	Fluoranthene-d10	1.119	1.041	7.0	98	0.00
28	Fluoranthene	1.476	1.336	9.5	96	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	97	0.00
30	Pyrene	1.398	1.260	9.9	98	0.00
31 S	Terphenyl-d14	0.691	0.771	-11.6	119	0.00
32	Benzo(a)anthracene	1.152	1.054	8.5	96	0.00
33	Chrysene	1.547	1.558	-0.7	106	0.00
34	Bis(2-ethylhexyl)phthalate	0.277	0.223	19.5	103	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	1.808	1.716	5.1	98	0.00
37	Benzo(b)fluoranthene	1.213	1.043	14.0	92	0.00
38	Benzo(k)fluoranthene	1.518	1.494	1.6	104	0.00
39 C	Benzo(a)pyrene	1.218	1.221	-0.2	106	0.00
40	Dibenzo(a,h)anthracene	1.428	1.352	5.3	97	0.01
41	Benzo(g,h,i)perylene	1.636	1.432	12.5	88	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033248.D
Acq On : 05 Aug 2024 22:58
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN080524

Quant Time: Aug 06 00:00:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 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	87	0.02
2	1,4-Dioxane	0.400	0.387	3.3	98	0.00
3	n-Nitrosodimethylamine	0.400	0.414	-3.5	103	0.01
4 S	2-Fluorophenol	0.400	0.421	-5.2	82	0.06
5 S	Phenol-d6	0.400	0.373	6.8	78	0.02
6	bis(2-Chloroethyl)ether	0.400	0.399	0.3	83	0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	92	0.02
8 S	Nitrobenzene-d5	0.400	0.363	9.3	99	0.02
9	Naphthalene	0.400	0.395	1.3	94	0.01
10	Hexachlorobutadiene	0.400	0.388	3.0	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	99	0.00
12	2-Methylnaphthalene	0.400	0.358	10.5	96	0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	97	0.00
14 S	2,4,6-Tribromophenol	0.400	0.330	17.5	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	100	0.00
16	Acenaphthylene	0.400	0.388	3.0	102	0.00
17	Acenaphthene	0.400	0.384	4.0	95	0.00
18	Fluorene	0.400	0.389	2.8	100	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.407	-1.7	87	0.03
21	4-Bromophenyl-phenylether	0.400	0.358	10.5	94	0.00
22	Hexachlorobenzene	0.400	0.377	5.8	100	0.00
23	Atrazine	0.400	0.365	8.8	100	0.02
24	Pentachlorophenol	0.400	0.321	19.8	89	0.02
25	Phenanthrene	0.400	0.371	7.3	103	0.00
26	Anthracene	0.400	0.354	11.5	99	0.02
27 SURR	Fluoranthene-d10	0.400	0.372	7.0	98	0.00
28	Fluoranthene	0.400	0.362	9.5	96	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	97	0.00
30	Pyrene	0.400	0.360	10.0	98	0.00
31 S	Terphenyl-d14	0.400	0.446	-11.5	119	0.00
32	Benzo(a)anthracene	0.400	0.366	8.5	96	0.00
33	Chrysene	0.400	0.403	-0.8	106	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	103	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.380	5.0	98	0.00
37	Benzo(b)fluoranthene	0.400	0.344	14.0	92	0.00
38	Benzo(k)fluoranthene	0.400	0.394	1.5	104	0.00
39 C	Benzo(a)pyrene	0.400	0.401	-0.3	106	0.00
40	Dibenzo(a,h)anthracene	0.400	0.379	5.3	97	0.01
41	Benzo(g,h,i)perylene	0.400	0.350	12.5	88	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: JAC005

Lab Code: CHEM Case No.: P3440 SAS No.: P3440 SDG No.: P3440

Instrument ID: BNA_N Calibration Date/Time: 08/03/2024 07:59

Lab File ID: BN033228.D Init. Calib. Date(s): 07/10/2024 07/10/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:54 19:32

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.612	0.548		-10.5	20.0
Fluoranthene-d10	1.035	0.846		-18.3	20.0
2-Fluorophenol	1.012	0.980		-3.2	20.0
Phenol-d6	1.256	1.220		-2.9	20.0
Nitrobenzene-d5	0.301	0.293		-2.7	20.0
Naphthalene	1.108	1.046		-5.6	20.0
2-Methylnaphthalene	0.724	0.605		-16.4	20.0
2-Fluorobiphenyl	1.489	1.432		-3.8	20.0
Acenaphthylene	1.627	1.592		-2.2	20.0
Acenaphthene	1.153	1.123		-2.6	20.0
Fluorene	1.541	1.414		-8.3	20.0
2,4,6-Tribromophenol	0.171	0.112		-34.5	20.0
Phenanthrene	1.093	0.994		-9.1	20.0
Anthracene	0.900	0.809		-10.1	20.0
Fluoranthene	1.323	1.067		-19.4	20.0
Pyrene	1.634	1.752		7.2	20.0
Terphenyl-d14	0.820	0.856		4.4	20.0
Benzo (a) anthracene	1.265	1.013		-19.9	20.0
Chrysene	1.504	1.600		6.4	20.0
Benzo (b) fluoranthene	1.393	1.112		-20.2	20.0
Benzo (k) fluoranthene	1.592	1.356		-14.8	20.0
Benzo (a) pyrene	1.256	1.090		-13.2	20.0
Indeno (1,2,3-cd) pyrene	1.577	1.448		-8.2	20.0
Dibenzo (a,h) anthracene	1.245	1.136		-8.8	20.0
Benzo (g,h,i) perylene	1.379	1.307		-5.2	20.0
1,4-Dioxane	0.496	0.550		10.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033228.D
 Acq On : 03 Aug 2024 07:59
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:25:09 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 02 22:49:47 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.495	152	2923	0.400	ng	0.00
7) Naphthalene-d8	10.287	136	10082	0.400	ng	# 0.00
13) Acenaphthene-d10	14.133	164	5809	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	11229	0.400	ng	# 0.00
29) Chrysene-d12	21.140	240	7084	0.400	ng	0.00
35) Perylene-d12	23.315	264	8355	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	2865m	0.387	ng	0.00
5) Phenol-d6	6.860	99	3565	0.388	ng	-0.02
8) Nitrobenzene-d5	8.813	82	2949	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.901	152	5525	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.711	330	648	0.261	ng	0.00
15) 2-Fluorobiphenyl	12.786	172	8319	0.385	ng	0.00
27) Fluoranthene-d10	18.962	212	9505	0.327	ng	0.00
31) Terphenyl-d14	19.566	244	6066	0.418	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.083	88	1607	0.444	ng	# 84
3) n-Nitrosodimethylamine	3.465	42	1427	0.466	ng	# 78
6) bis(2-Chloroethyl)ether	7.012	93	2586	0.337	ng	90
9) Naphthalene	10.329	128	10548	0.378	ng	99
10) Hexachlorobutadiene	10.522	225	2011	0.377	ng	# 100
12) 2-Methylnaphthalene	11.976	142	6101	0.334	ng	# 95
16) Acenaphthylene	13.866	152	9247	0.391	ng	99
17) Acenaphthene	14.197	154	6521	0.389	ng	99
18) Fluorene	15.213	166	8211	0.367	ng	98
20) 4,6-Dinitro-2-methylph...	15.549	198	142	0.351	ng	# 1
21) 4-Bromophenyl-phenylether	16.108	248	2423	0.367	ng	93
22) Hexachlorobenzene	16.207	284	2575	0.349	ng	# 87
23) Atrazine	16.418	200	1812	0.373	ng	99
24) Pentachlorophenol	16.629	266	593	0.216	ng	97
25) Phenanthrene	16.964	178	11157	0.364	ng	99
26) Anthracene	17.076	178	9086m	0.360	ng	
28) Fluoranthene	18.994	202	11985	0.323	ng	99
30) Pyrene	19.361	202	12412	0.429	ng	99
32) Benzo(a)anthracene	21.131	228	7176m	0.320	ng	
33) Chrysene	21.176	228	11331	0.426	ng	98
34) Bis(2-ethylhexyl)phtha...	21.006	149	5406	0.436	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.514	276	12098	0.367	ng	100
37) Benzo(b)fluoranthene	22.666	252	9290m	0.319	ng	
38) Benzo(k)fluoranthene	22.707	252	11329	0.341	ng	98
39) Benzo(a)pyrene	23.233	252	9108	0.347	ng	97
40) Dibenzo(a,h)anthracene	25.511	278	9491	0.365	ng	98
41) Benzo(g,h,i)perylene	26.189	276	10919	0.379	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033228.D
 Acq On : 03 Aug 2024 07:59
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :

BNA_N

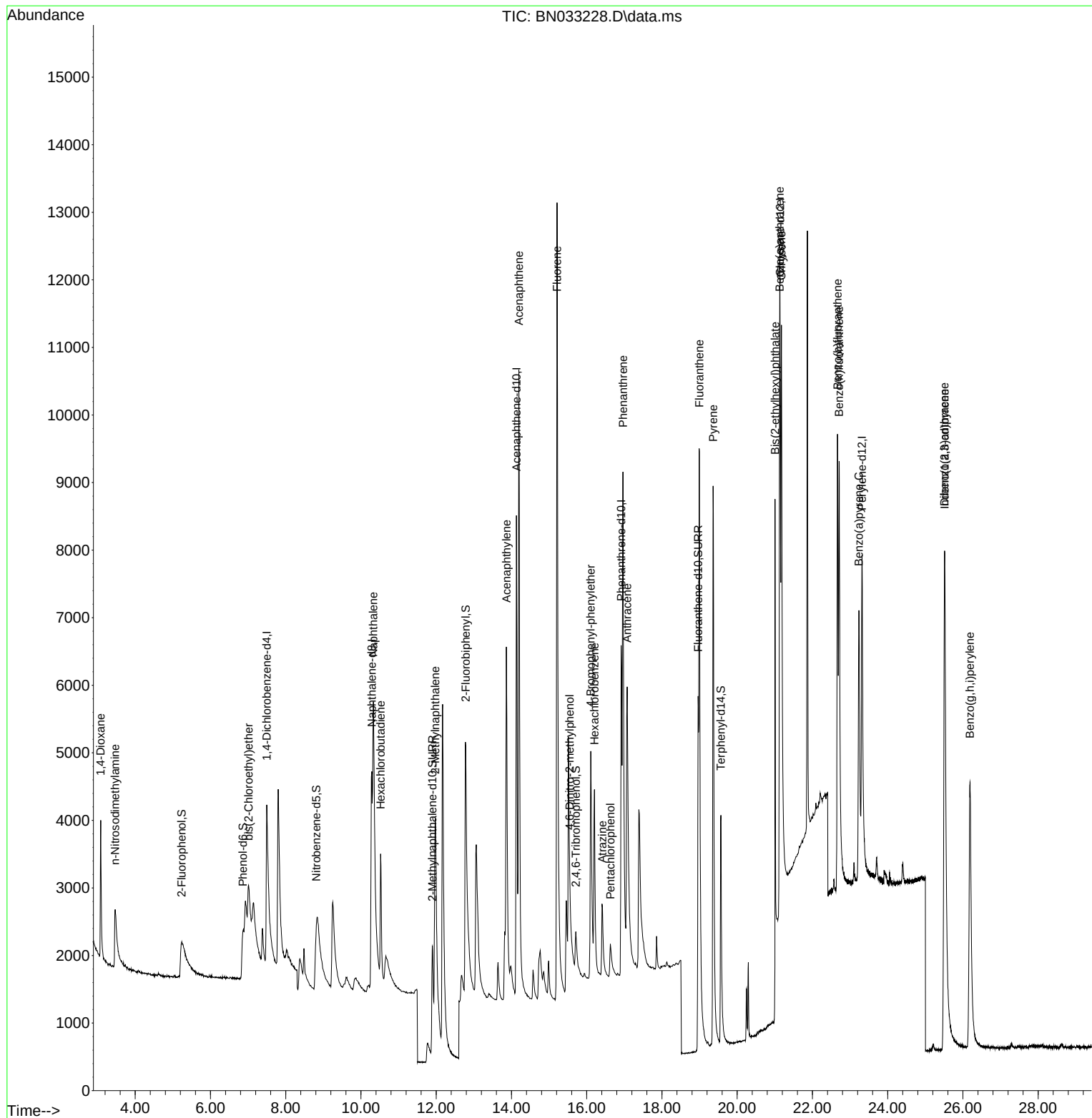
ClientSampleId :

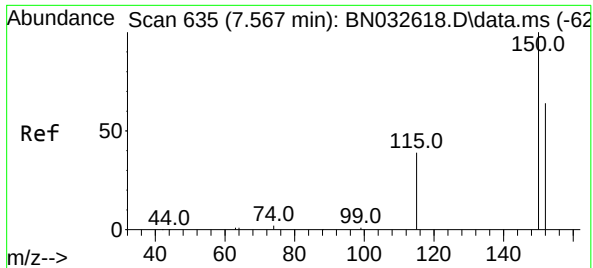
SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

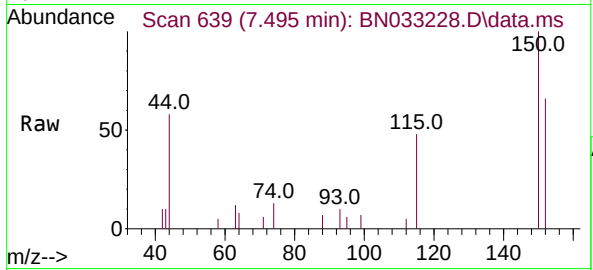
Quant Time: Aug 05 03:25:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.495 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

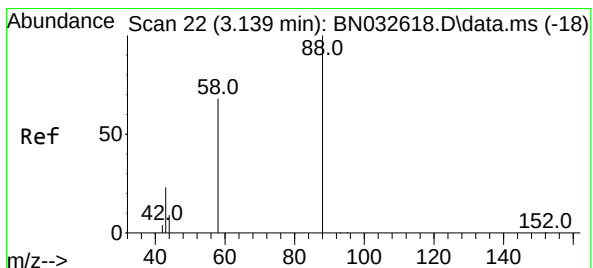
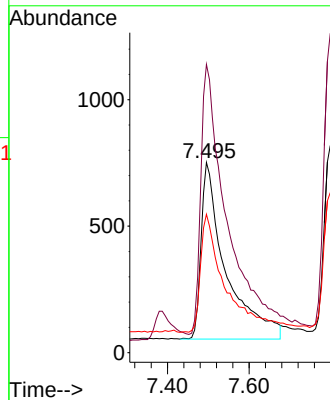
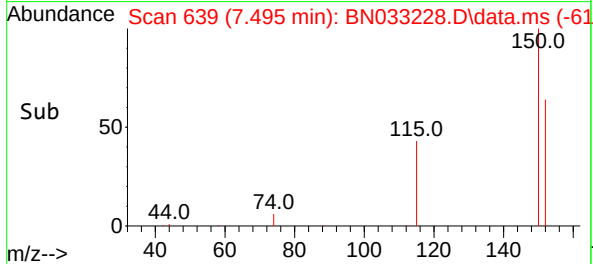
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 292
Ion Ratio Lower Upper
152 100
150 151.6 123.8 185.6
115 72.7 52.8 79.2

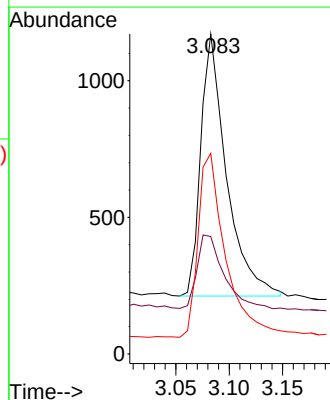
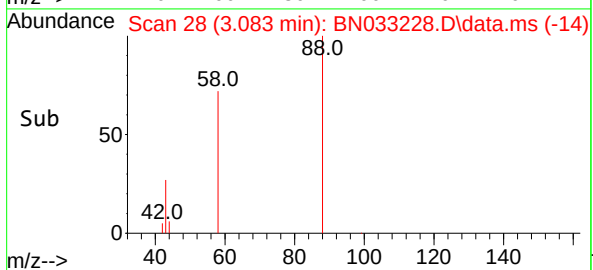
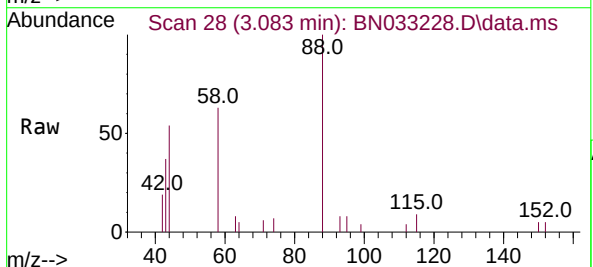
Manual Integrations
APPROVED

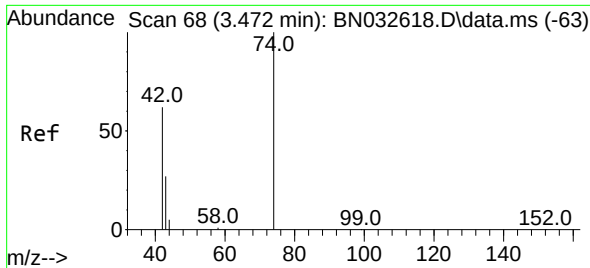
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.444 ng
RT: 3.083 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

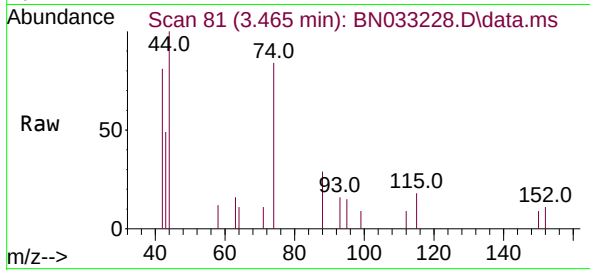
Tgt Ion: 88 Resp: 1607
Ion Ratio Lower Upper
88 100
43 29.2 18.4 27.6#
58 74.4 49.2 73.8#





#3
n-Nitrosodimethylamine
Concen: 0.466 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

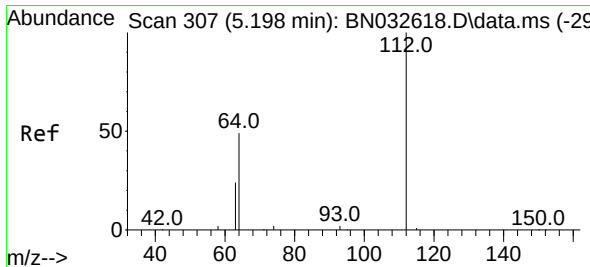
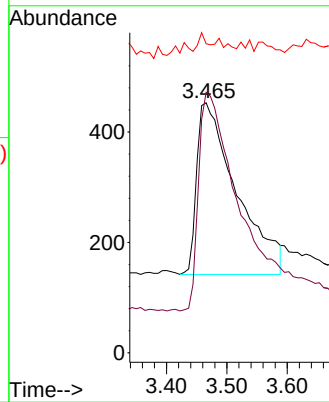
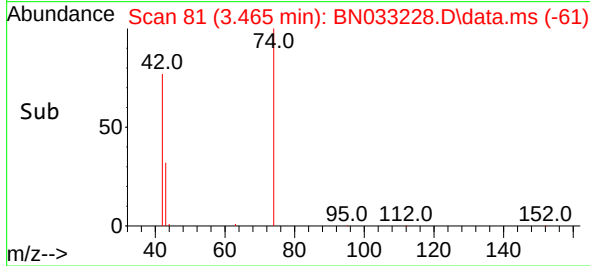
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 142
Ion Ratio Lower Upper
42 100
74 129.2 126.9 190.3
44 2.2 4.8 7.2

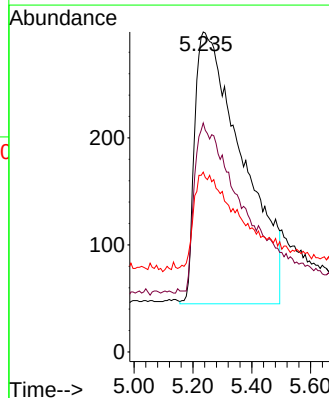
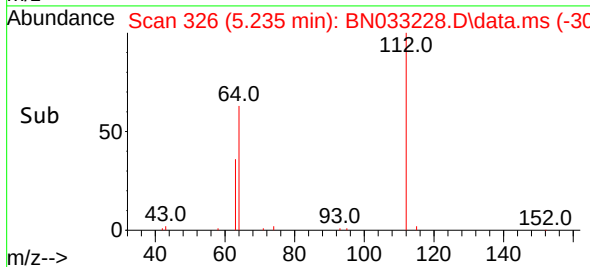
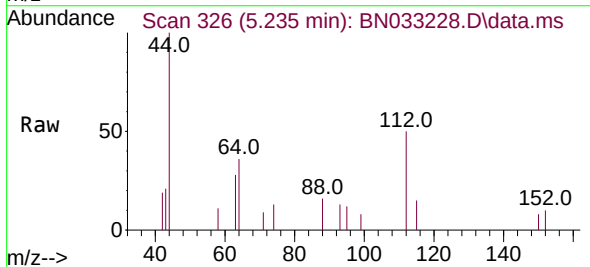
Manual Integrations
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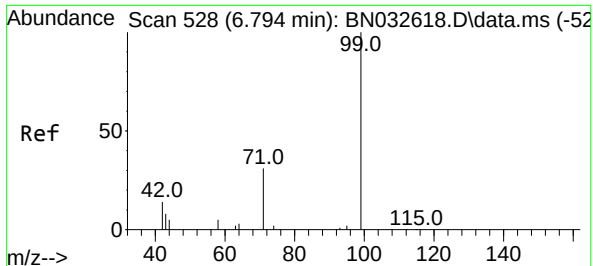
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.387 ng m
RT: 5.235 min Scan# 326
Delta R.T. -0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:112 Resp: 2865
Ion Ratio Lower Upper
112 100
64 49.8 40.2 60.4
63 29.3 22.2 33.4





#5
Phenol-d6
Concen: 0.388 ng
RT: 6.860 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

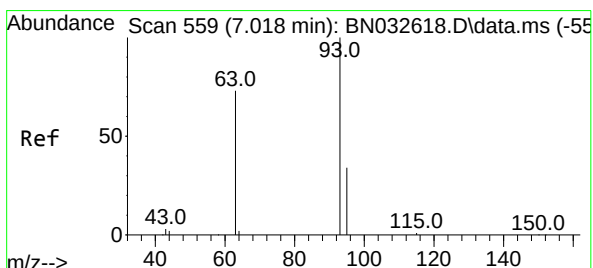
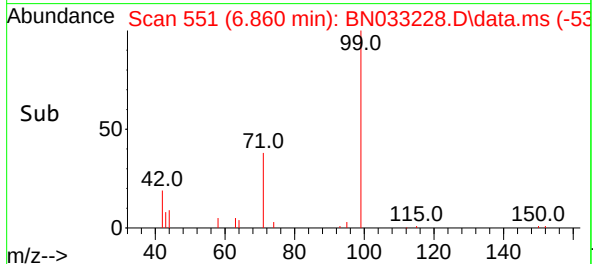
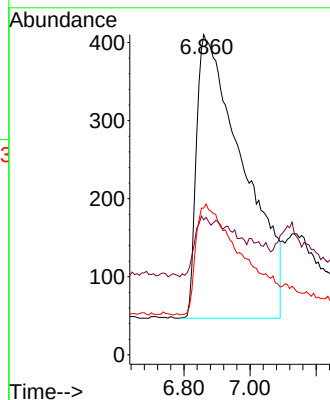
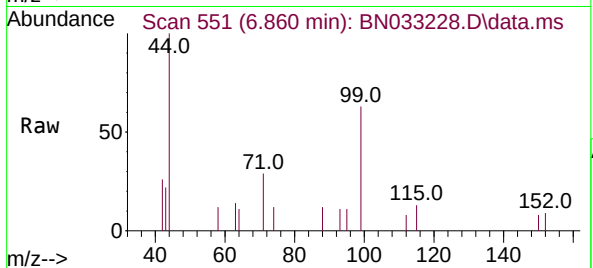
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	7.1	10.5	15.7
71	39.2	22.3	33.5

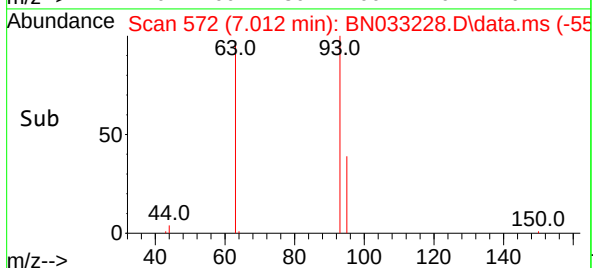
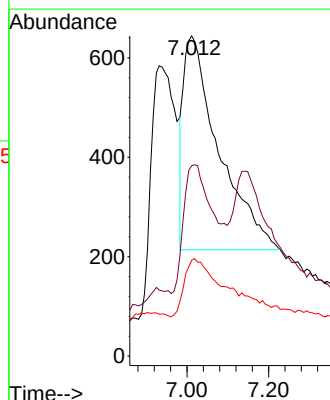
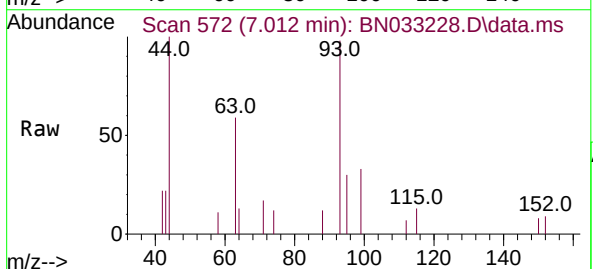
Manual Integrations
APPROVED

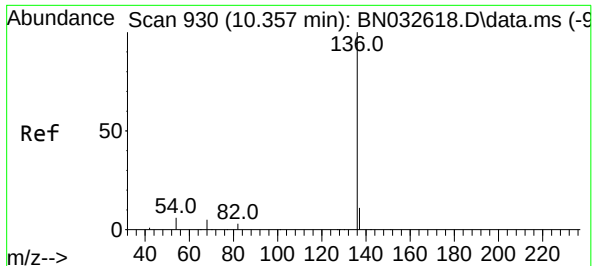
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion	Ratio	Lower	Upper
93	100		
63	48.5	46.4	69.6
95	34.4	25.5	38.3





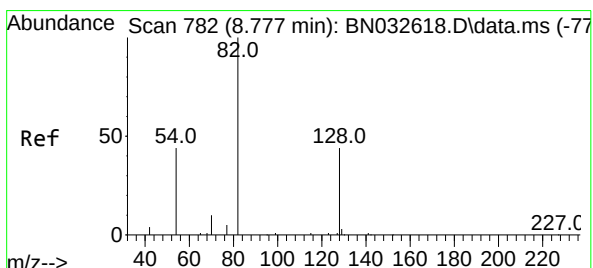
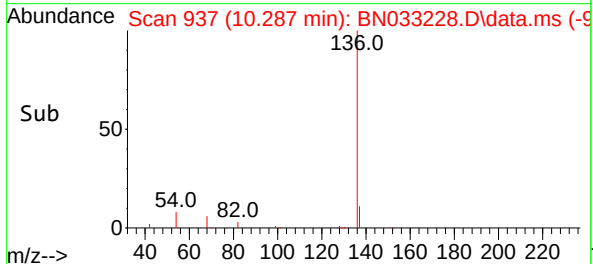
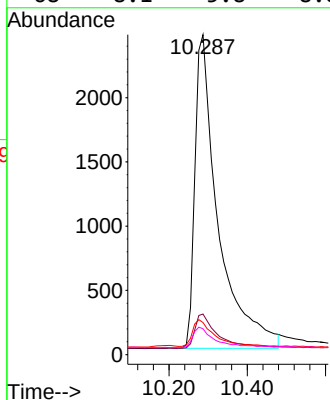
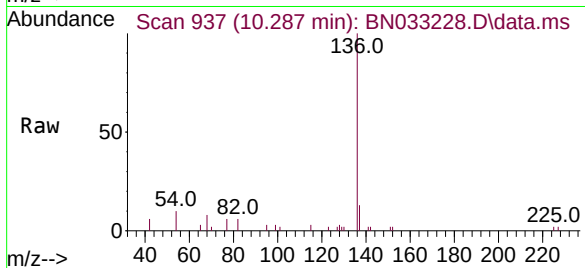
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.287 min Scan# 910
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.9	14.9
54	10.0	6.5	9.7
68	8.1	5.8	8.8

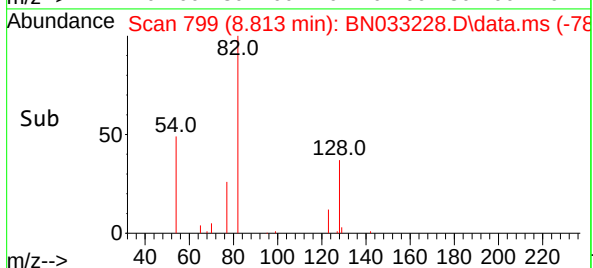
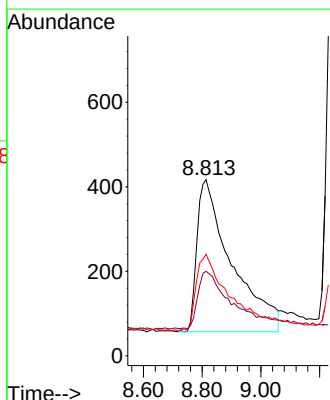
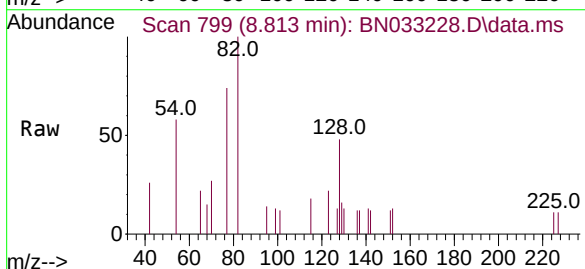
Manual Integrations
APPROVED

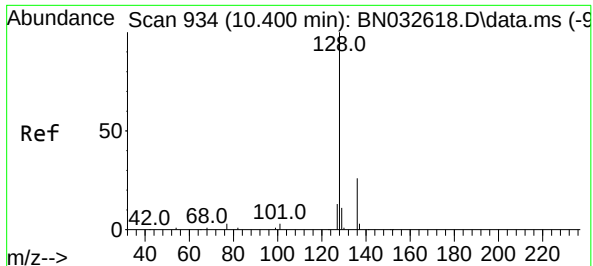
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.813 min Scan# 799
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.0	41.7	62.5
54	57.6	39.5	59.3





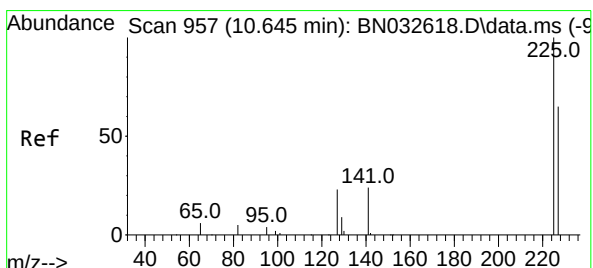
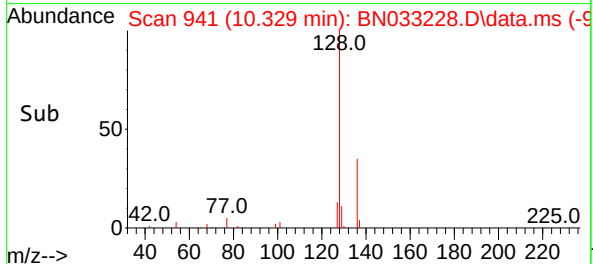
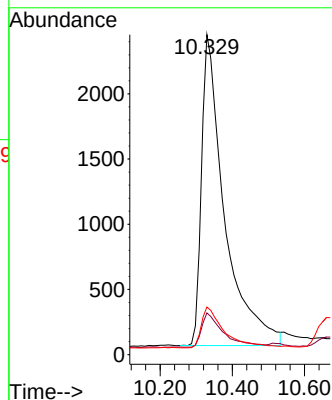
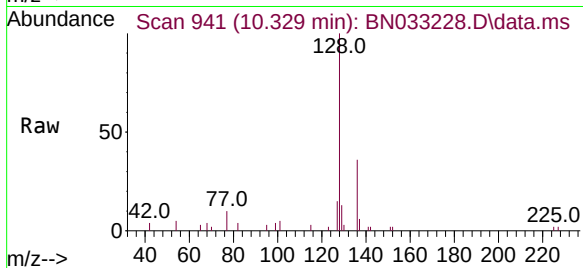
#9
Naphthalene
Concen: 0.378 ng
RT: 10.329 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 1054
Ion Ratio Lower Upper
128 100
129 13.0 9.8 14.8
127 14.9 11.5 17.3

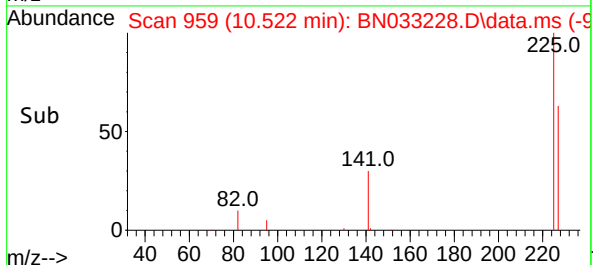
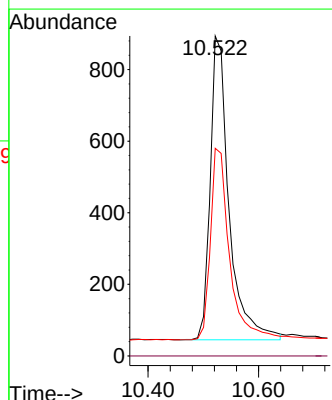
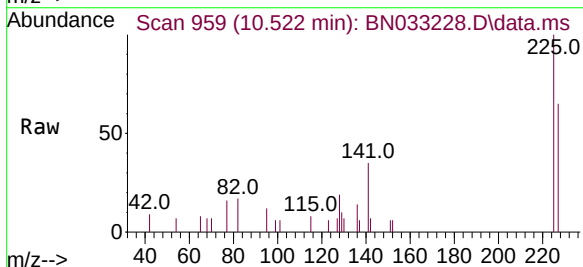
Manual Integrations
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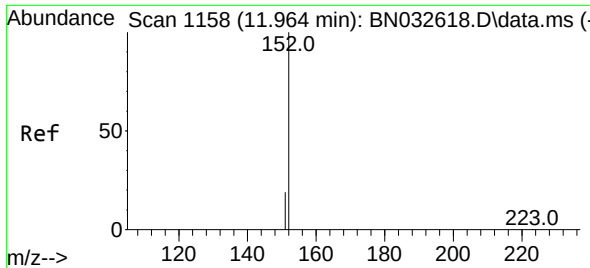
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.522 min Scan# 959
Delta R.T. -0.011 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

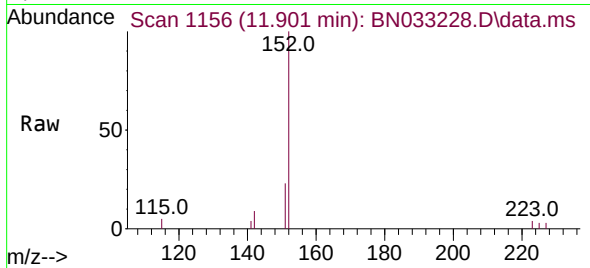
Tgt Ion:225 Resp: 2011
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.901 min Scan# 1156
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

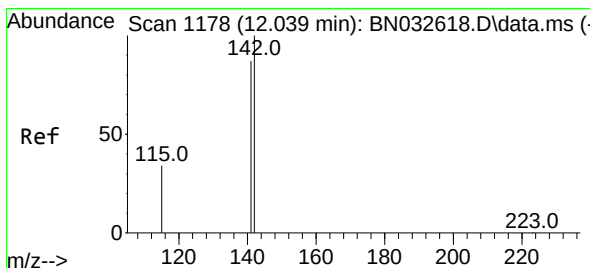
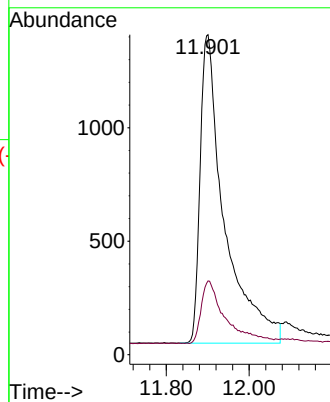
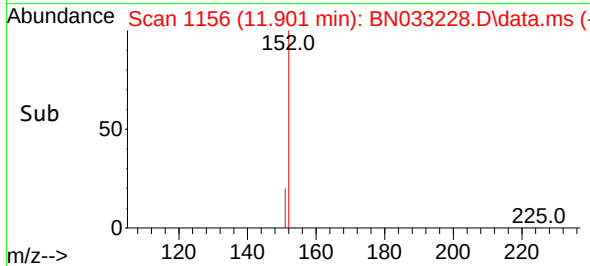
Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4



Tgt Ion:152 Resp: 552
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2

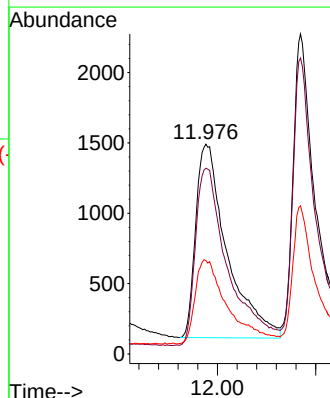
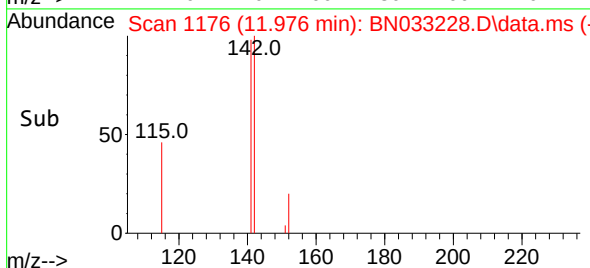
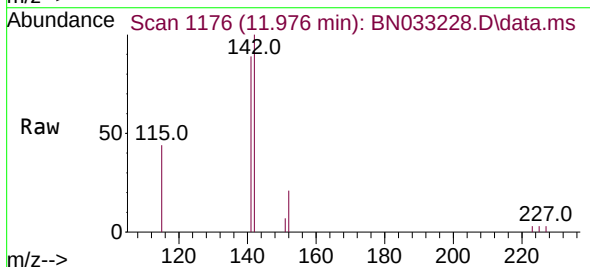
Manual Integrations
APPROVED

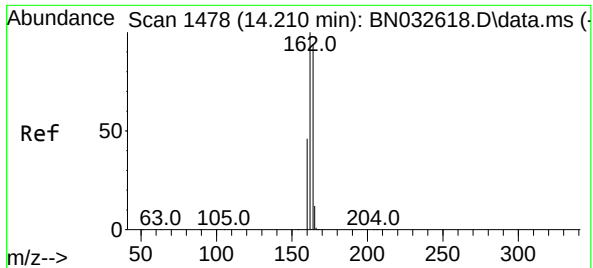
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.334 ng
RT: 11.976 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

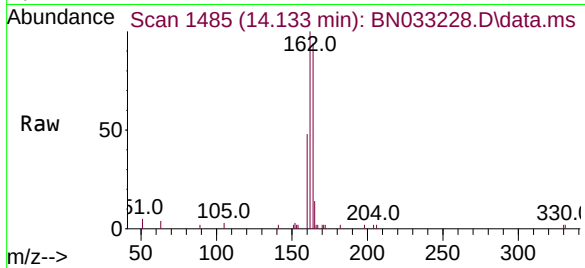
Tgt Ion:142 Resp: 6101
Ion Ratio Lower Upper
142 100
141 88.5 69.3 103.9
115 44.5 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.133 min Scan# 1478
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

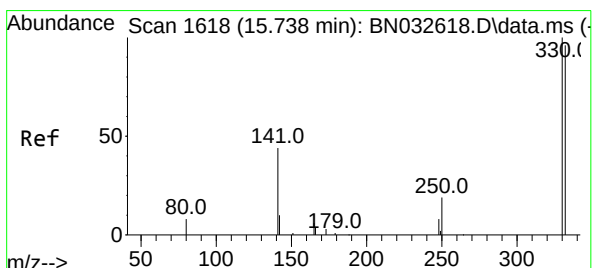
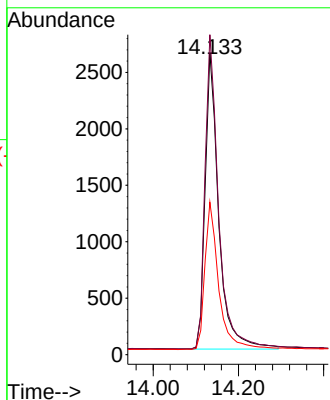
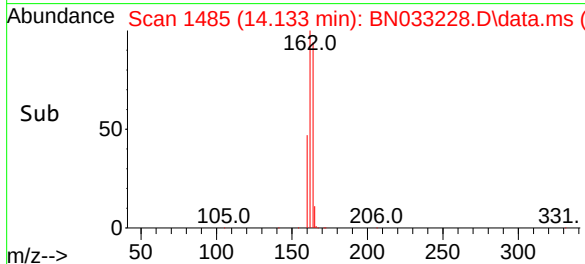
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



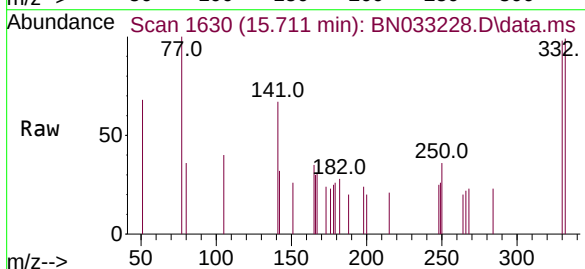
Tgt Ion:164 Resp: 5809
Ion Ratio Lower Upper
164 100
162 106.1 85.0 127.4
160 50.6 39.4 59.2

Manual Integrations
APPROVED

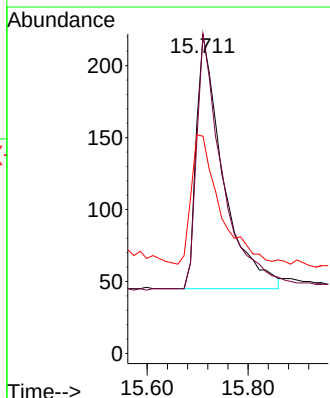
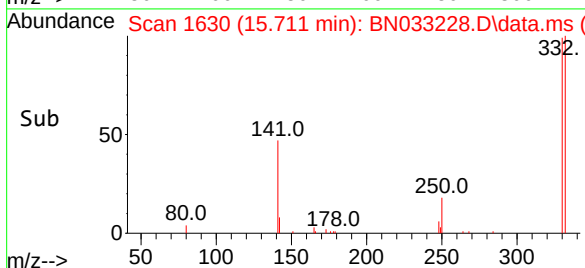
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

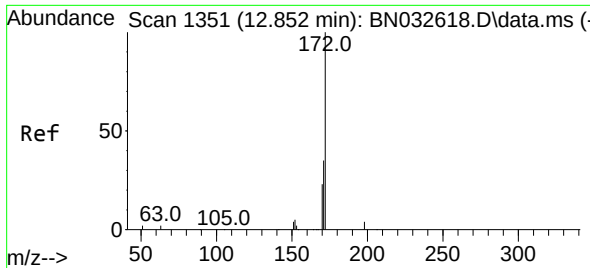


#14
2,4,6-Tribromophenol
Concen: 0.261 ng
RT: 15.711 min Scan# 1630
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



Tgt Ion:330 Resp: 648
Ion Ratio Lower Upper
330 100
332 97.1 77.8 116.8
141 54.3 34.2 51.2#





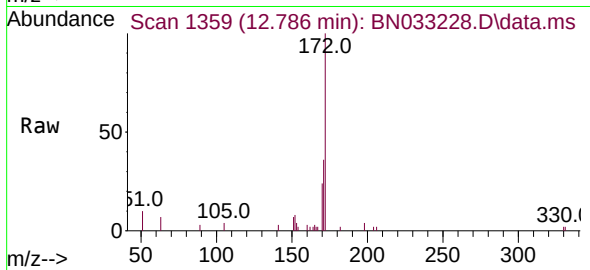
#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.786 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

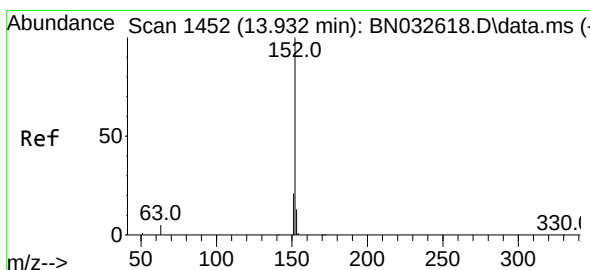
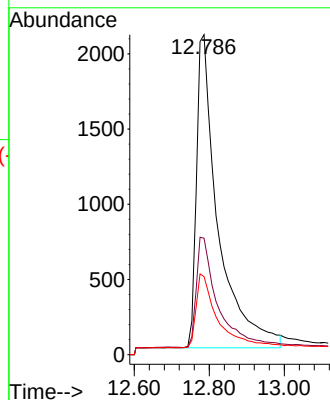
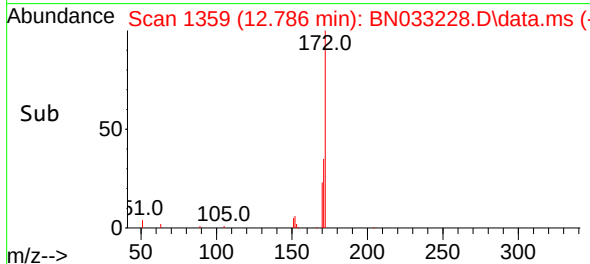


Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	43.0
170	24.4	19.0	28.6

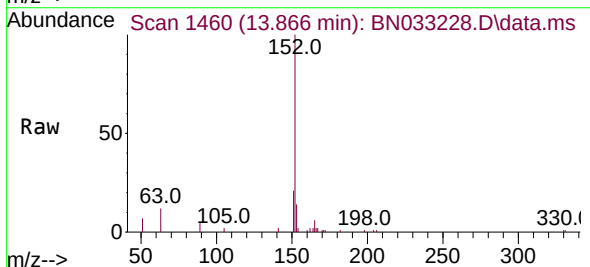
Manual Integrations

APPROVED

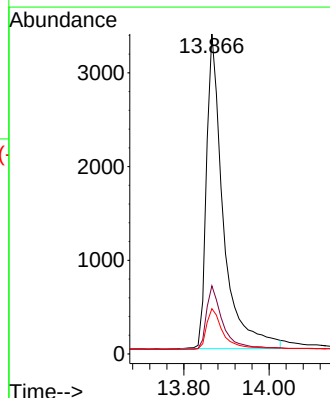
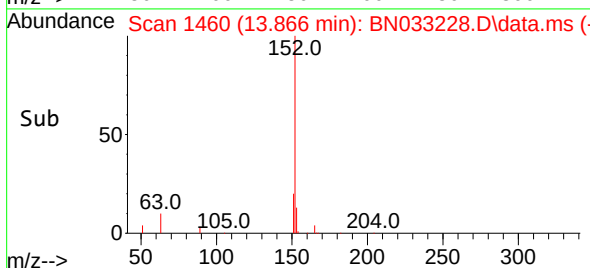
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

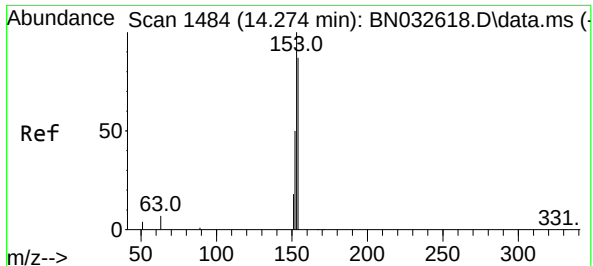


#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.866 min Scan# 1460
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



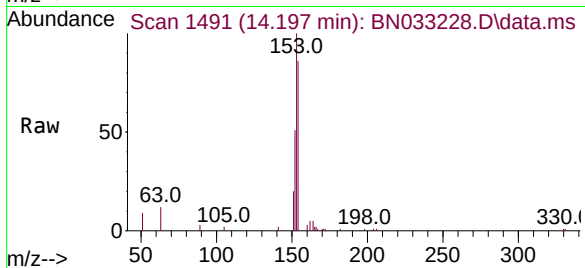
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.0	24.0
153	12.8	10.6	15.8





#17
Acenaphthene
Concen: 0.389 ng
RT: 14.197 min Scan# 1484
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

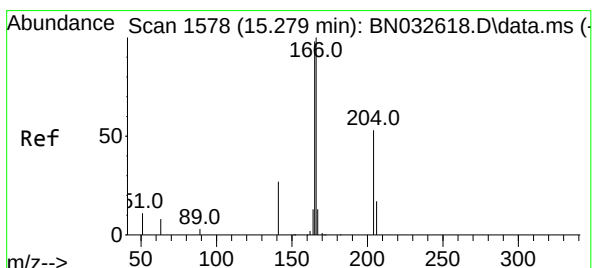
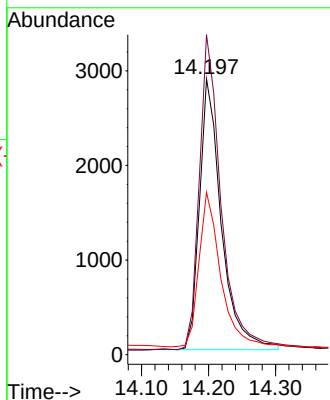
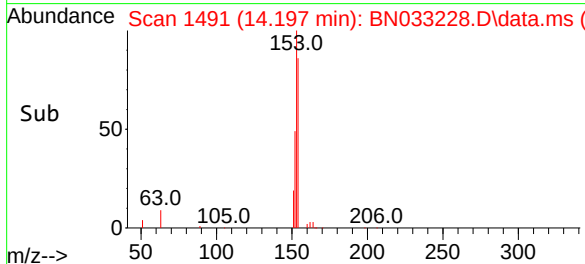
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 652
Ion Ratio Lower Upper
154 100
153 115.5 91.8 137.8
152 56.1 45.2 67.8

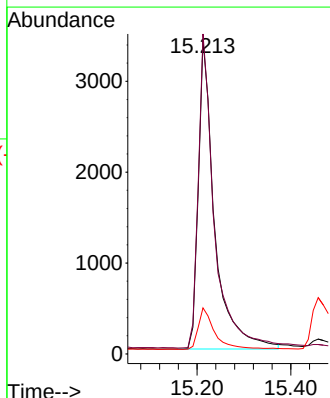
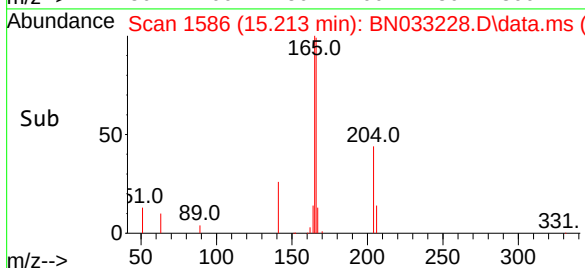
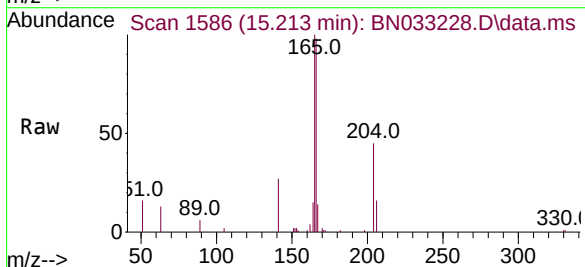
Manual Integrations
APPROVED

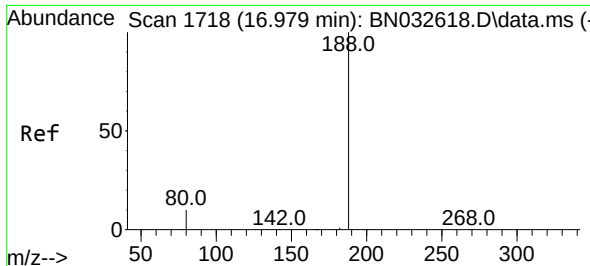
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.367 ng
RT: 15.213 min Scan# 1586
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:166 Resp: 8211
Ion Ratio Lower Upper
166 100
165 99.8 78.0 117.0
167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.915 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

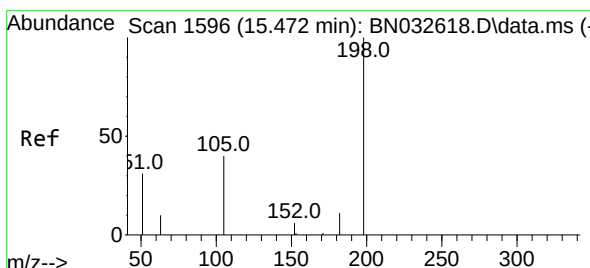
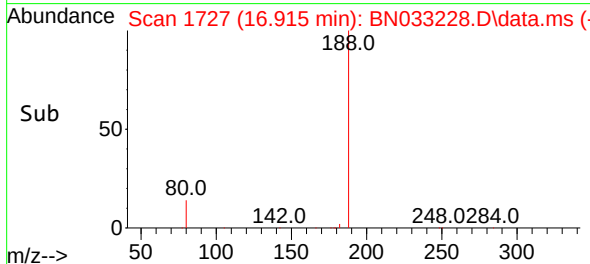
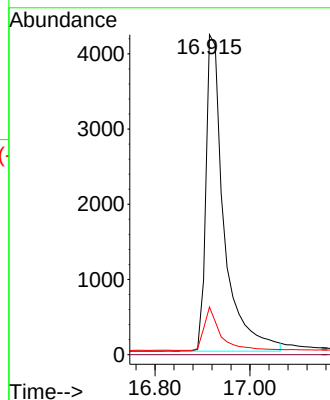
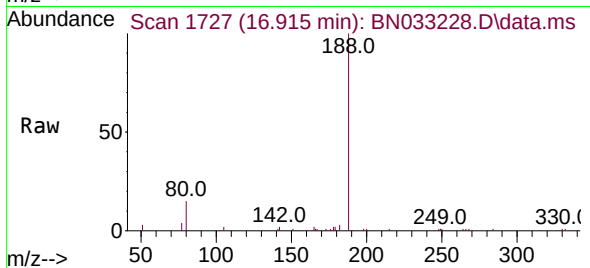
SSTDCCC0.4

Tgt Ion:188	Resp:	11229
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	14.9	8.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.351 ng

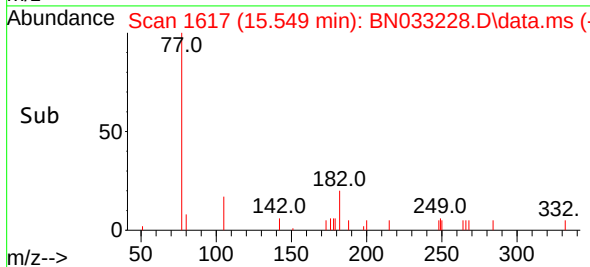
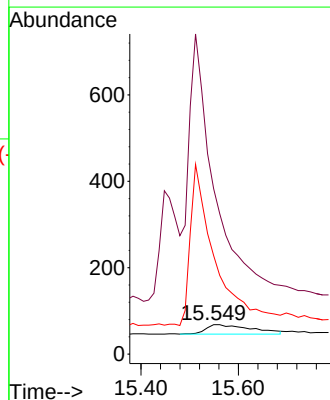
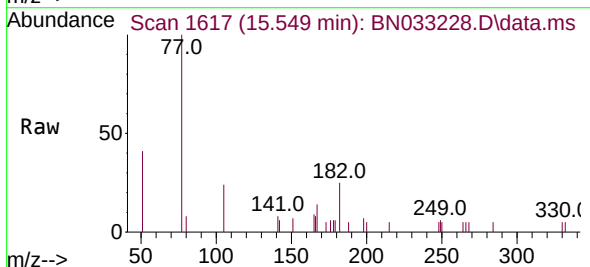
RT: 15.549 min Scan# 1617

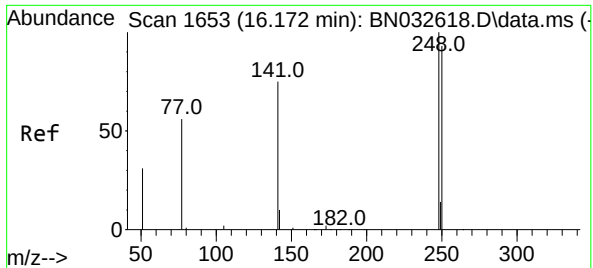
Delta R.T. -0.006 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Tgt Ion:198	Resp:	142
Ion Ratio	Lower	Upper
198	100	
51	563.2	105.7
105	335.3	63.0





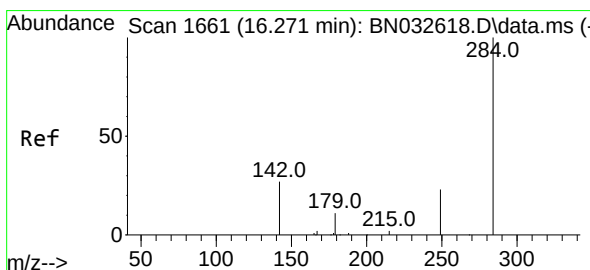
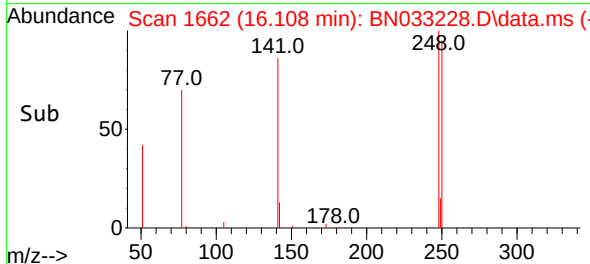
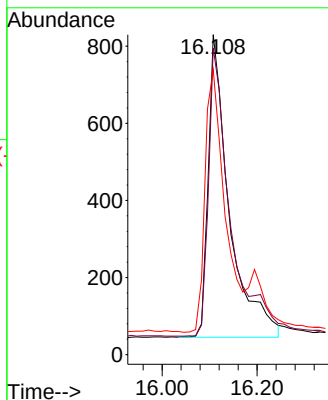
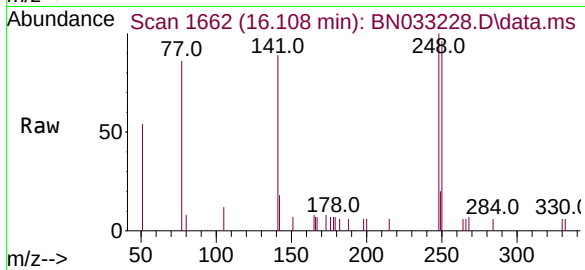
#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.108 min Scan# 1662
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 248 Resp: 242
Ion Ratio Lower Upper
248 100
250 95.8 75.1 112.7
141 89.0 62.0 93.0

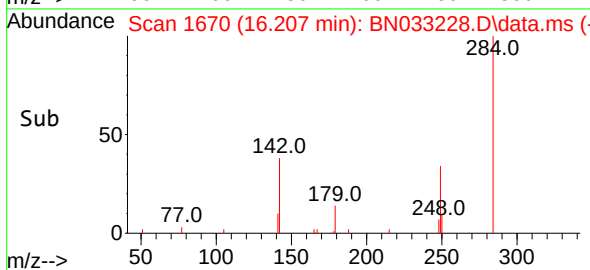
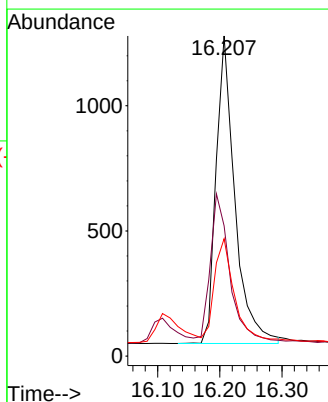
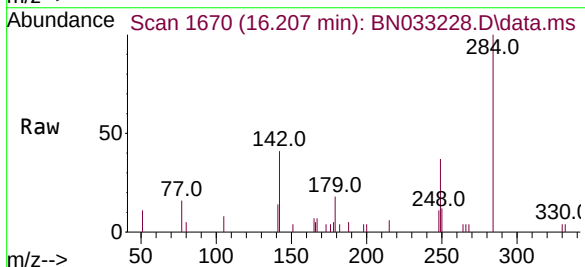
Manual Integrations
APPROVED

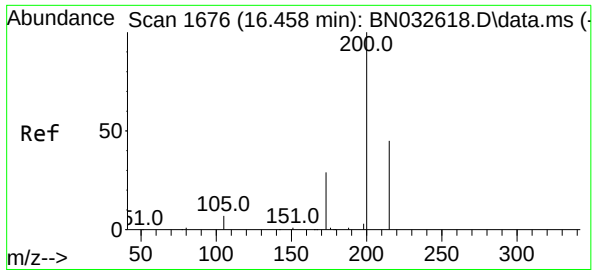
Reviewed By : Jagrut Upadhyay 08/05/2024
Supervised By : mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.349 ng
RT: 16.207 min Scan# 1670
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

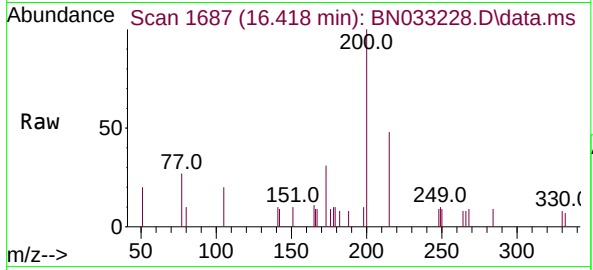
Tgt Ion: 284 Resp: 2575
Ion Ratio Lower Upper
284 100
142 48.8 29.4 44.0#
249 33.5 24.6 36.8





#23
Atrazine
Concen: 0.373 ng
RT: 16.418 min Scan# 1704
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

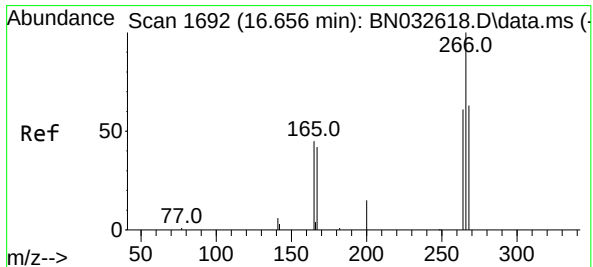
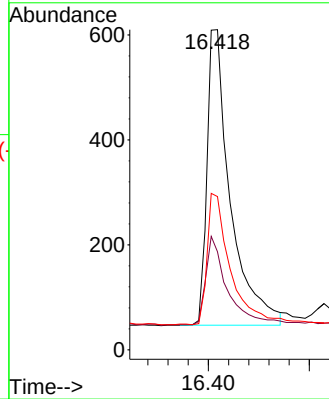
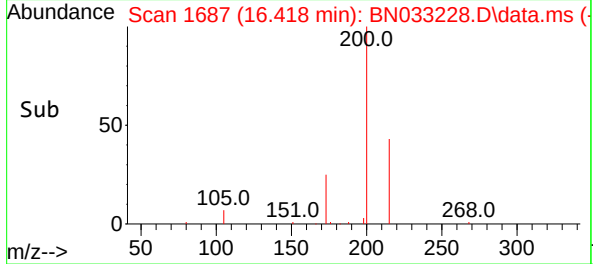
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 181
Ion Ratio Lower Upper
200 100
173 30.7 25.4 38.2
215 47.9 38.2 57.2

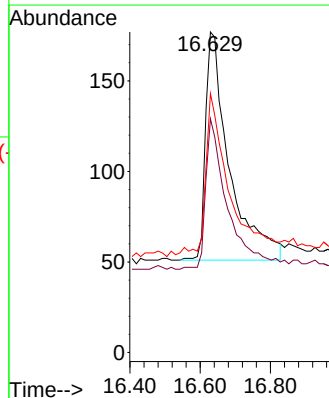
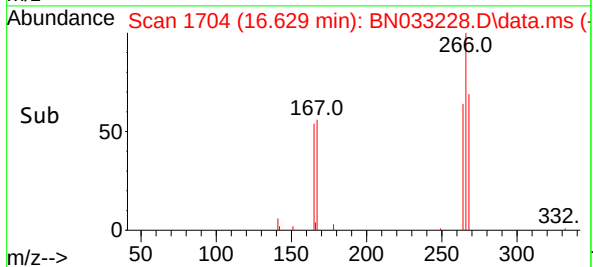
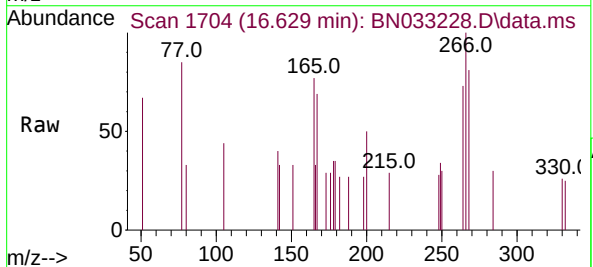
Manual Integrations
APPROVED

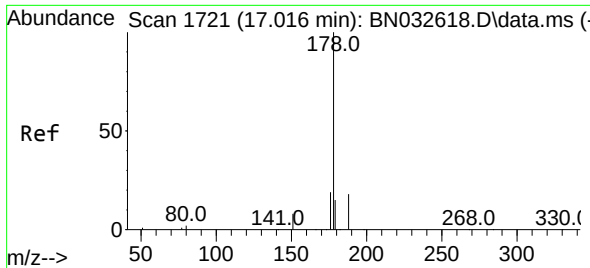
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.216 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:266 Resp: 593
Ion Ratio Lower Upper
266 100
264 60.9 50.2 75.2
268 63.6 52.8 79.2





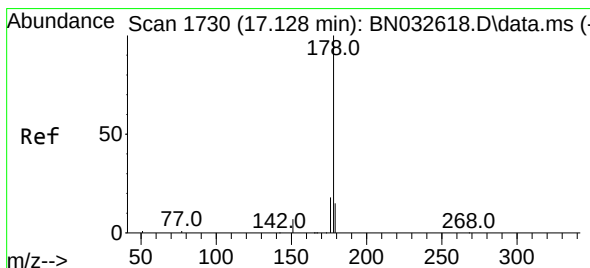
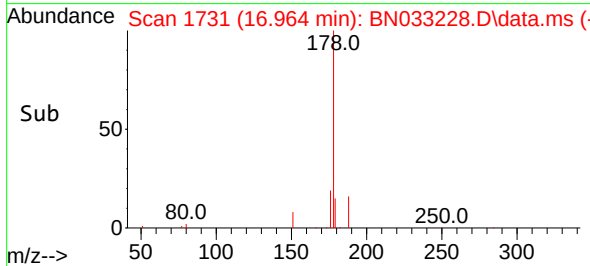
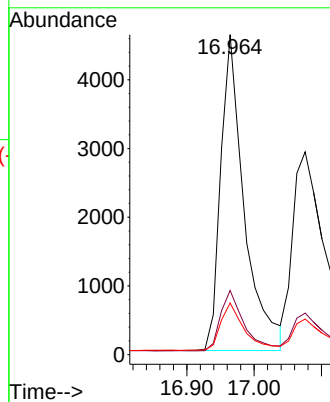
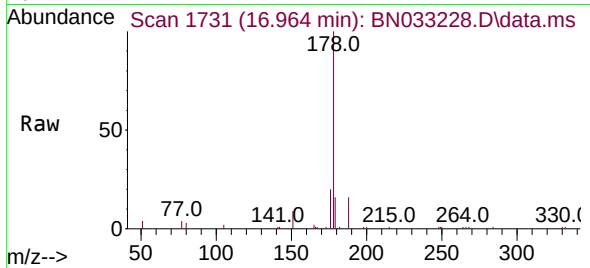
#25
Phenanthrene
Concen: 0.364 ng
RT: 16.964 min Scan# 1115
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.1	22.7
179	15.3	12.2	18.4

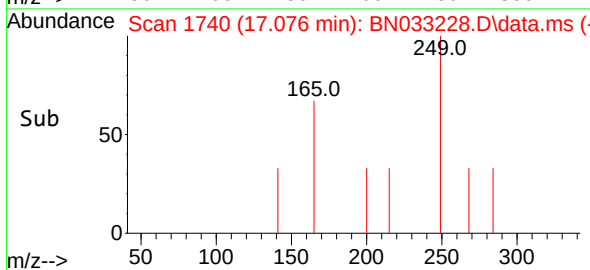
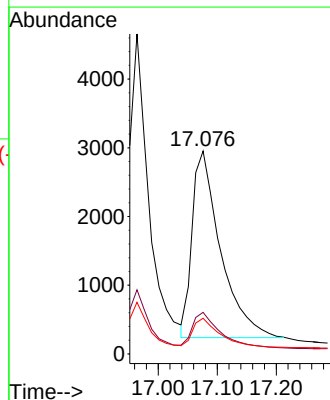
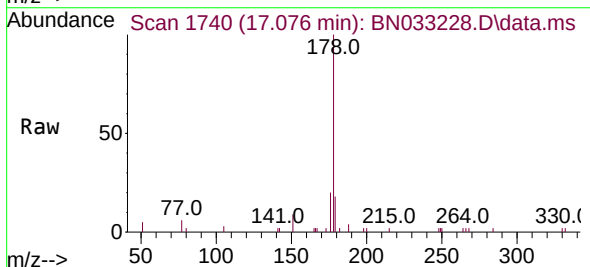
Manual Integrations
APPROVED

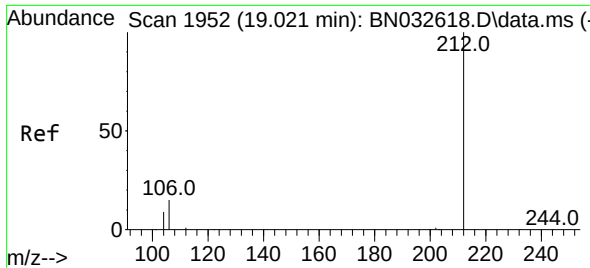
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.360 ng m
RT: 17.076 min Scan# 1740
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

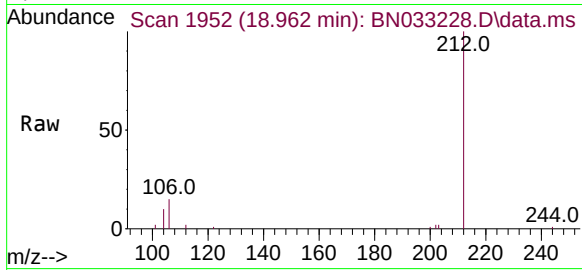
Tgt Ion	Ratio	Lower	Upper
178	100		
176	15.2	14.8	22.2
179	12.5	11.8	17.8





#27
Fluoranthene-d10
Concen: 0.327 ng
RT: 18.962 min Scan# 1952
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

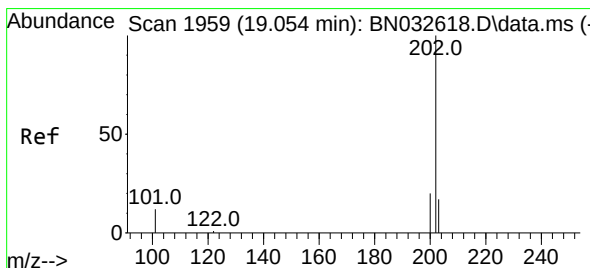
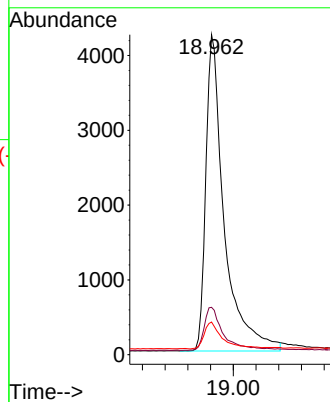
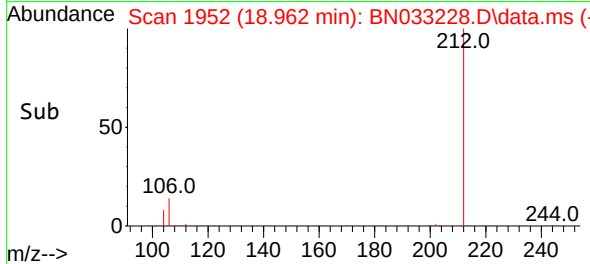
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



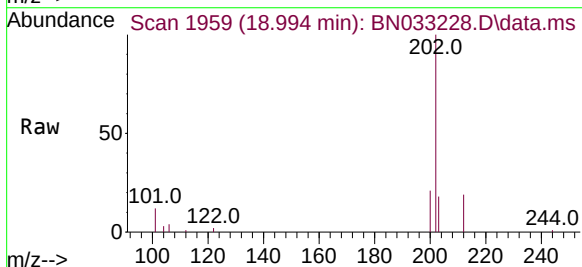
Tgt Ion:212 Resp: 950
Ion Ratio Lower Upper
212 100
106 14.2 11.9 17.9
104 8.4 6.9 10.3

Manual Integrations
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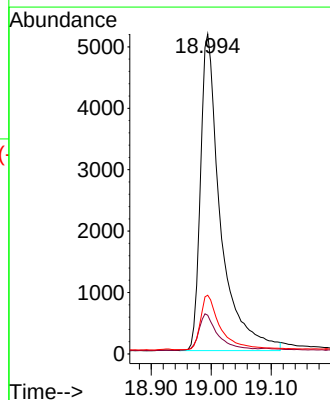
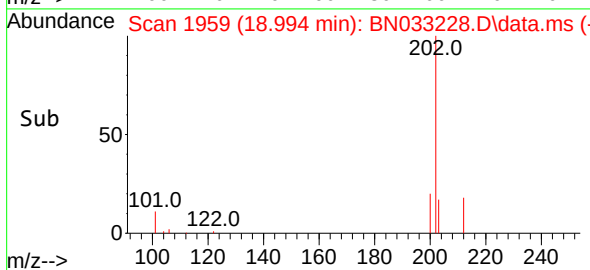
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

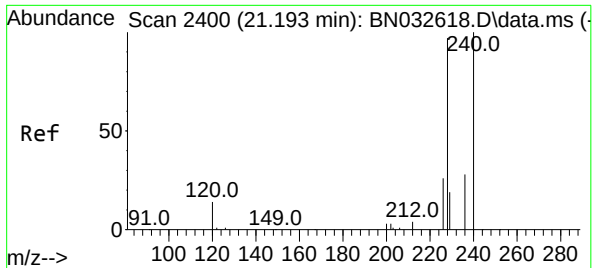


#28
Fluoranthene
Concen: 0.323 ng
RT: 18.994 min Scan# 1959
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



Tgt Ion:202 Resp: 11985
Ion Ratio Lower Upper
202 100
101 11.3 9.6 14.4
203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. 0.007 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

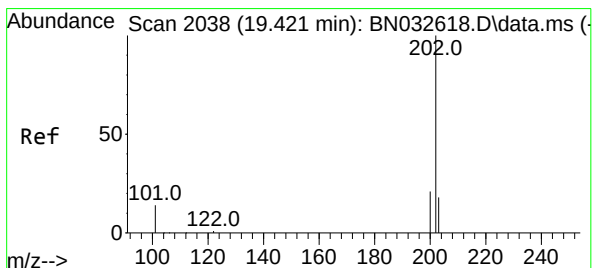
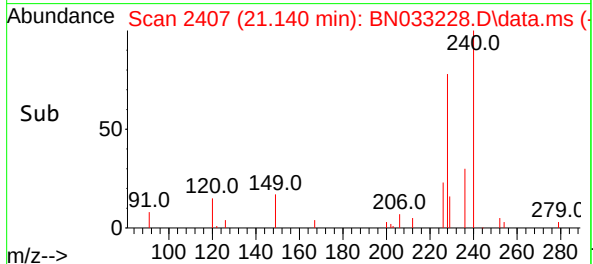
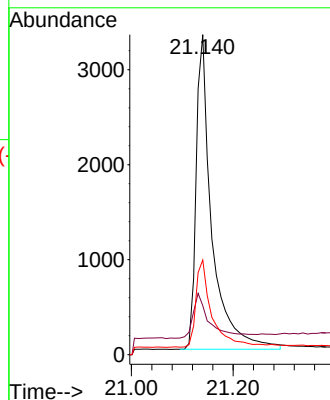
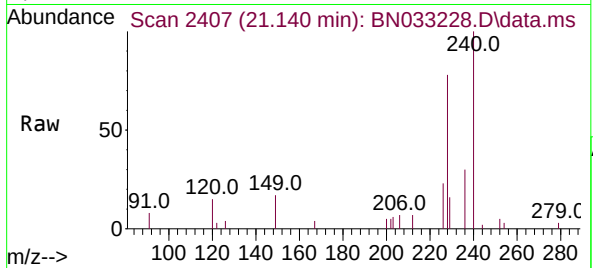
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	240	Resp:	7084
Ion	Ratio	Lower	Upper
240	100		
120	15.3	14.8	22.2
236	29.6	23.3	34.9

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.429 ng

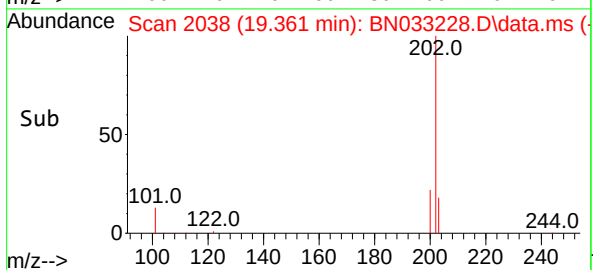
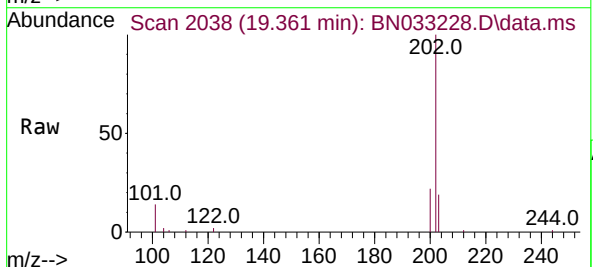
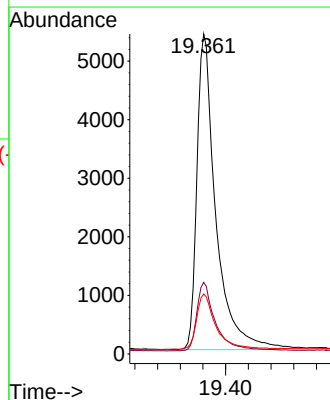
RT: 19.361 min Scan# 2038

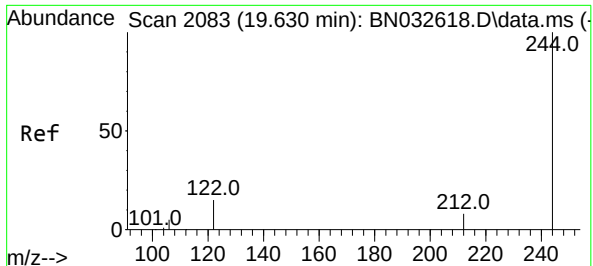
Delta R.T. 0.002 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Tgt Ion:	202	Resp:	12412
Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.6	25.0
203	18.6	14.8	22.2





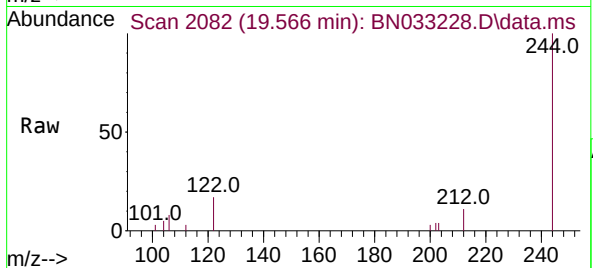
#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.566 min Scan# 2406
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

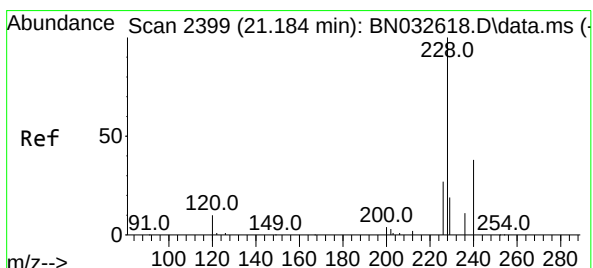
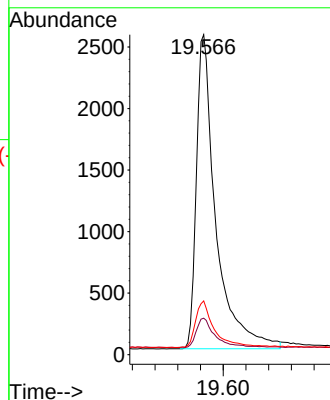
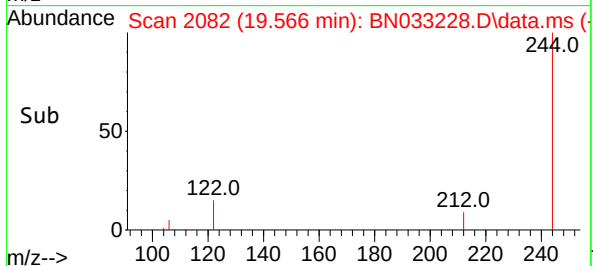


Tgt Ion:244 Resp: 6060
Ion Ratio Lower Upper
244 100
212 11.4 7.5 11.3
122 16.8 12.6 19.0

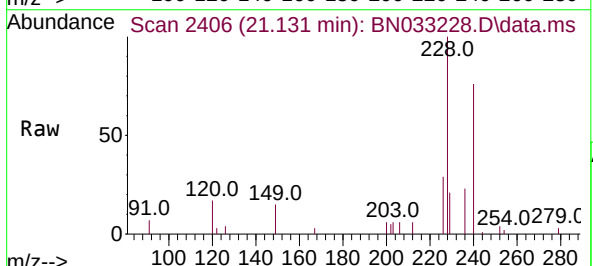
Manual Integrations

APPROVED

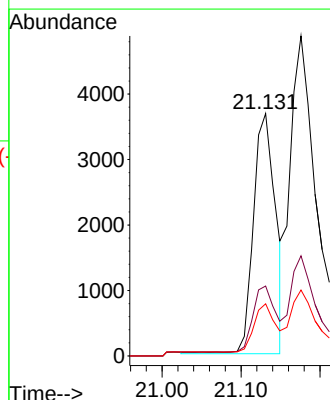
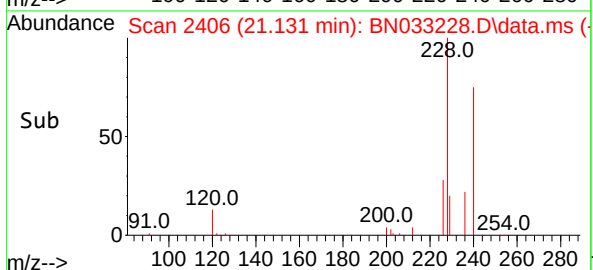
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

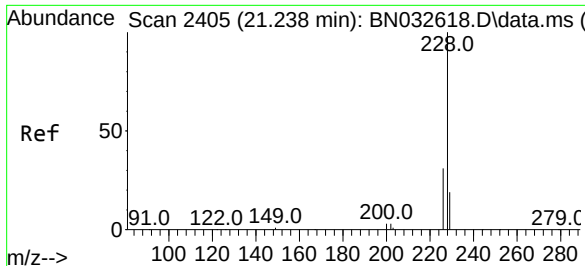


#32
Benzo(a)anthracene
Concen: 0.320 ng m
RT: 21.131 min Scan# 2406
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



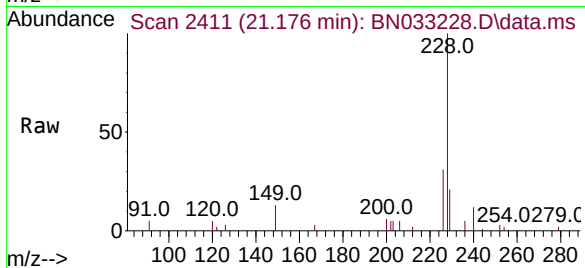
Tgt Ion:228 Resp: 7176
Ion Ratio Lower Upper
228 100
226 28.8 21.8 32.6
229 21.5 16.0 24.0





#33
Chrysene
Concen: 0.426 ng
RT: 21.176 min Scan# 2405
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

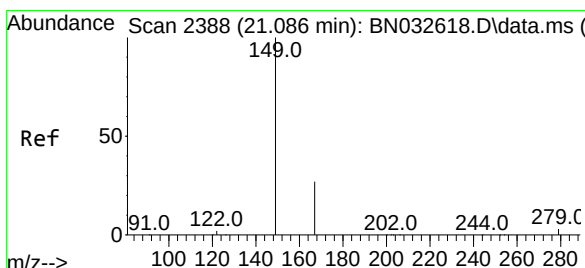
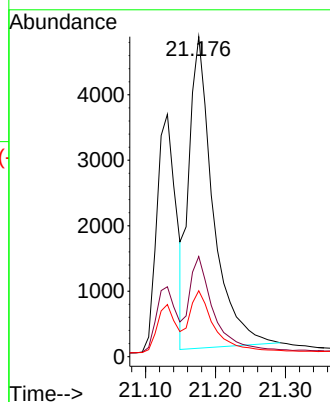
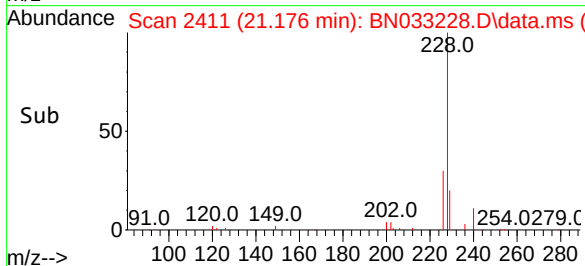
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 1133
Ion Ratio Lower Upper
228 100
226 31.3 24.2 36.2
229 20.6 16.0 24.0

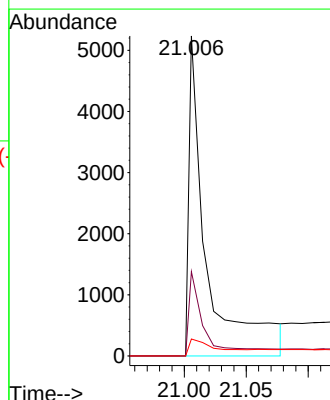
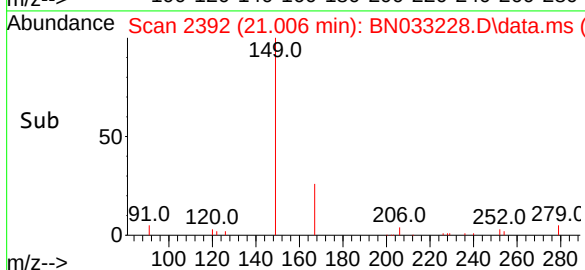
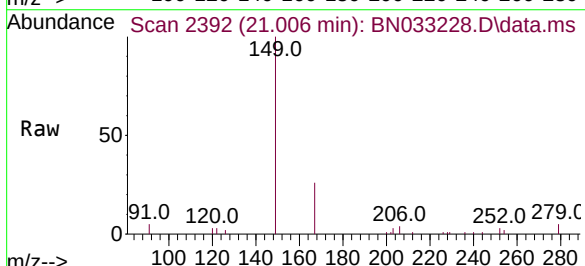
Manual Integrations
APPROVED

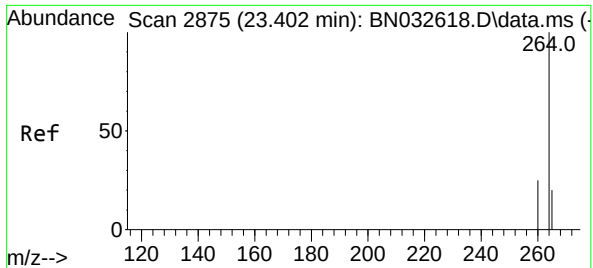
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:149 Resp: 5406
Ion Ratio Lower Upper
149 100
167 27.4 21.4 32.2
279 8.0 2.8 4.2#





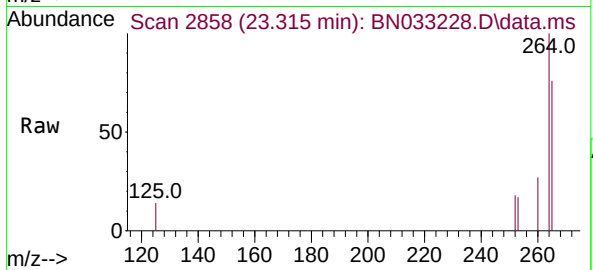
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

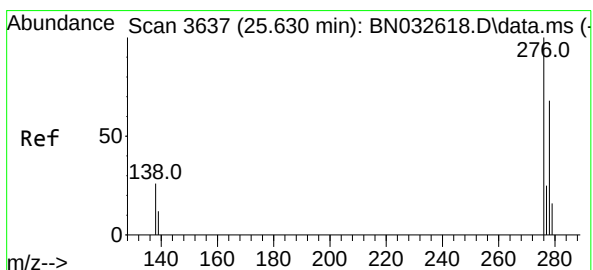
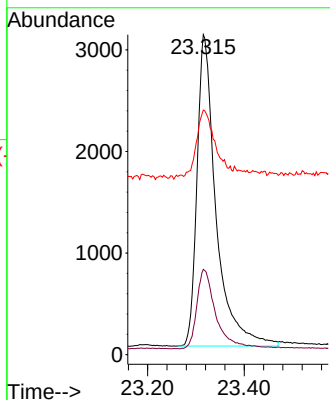
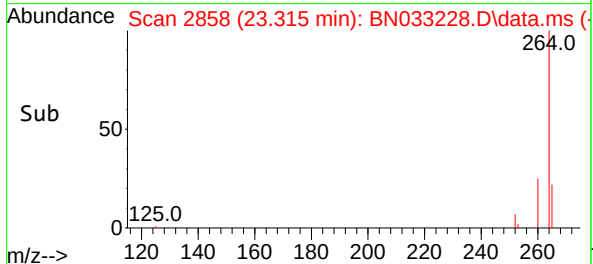


Tgt Ion:264 Resp: 835
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 76.4 85.4 128.2

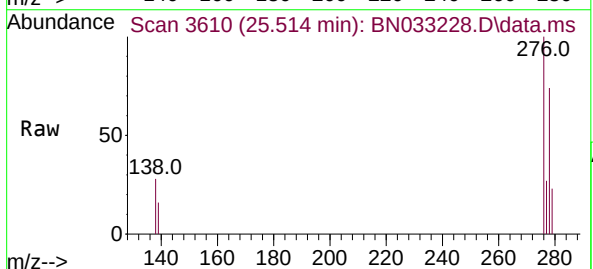
Manual Integrations

APPROVED

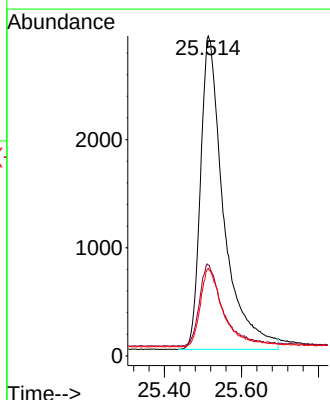
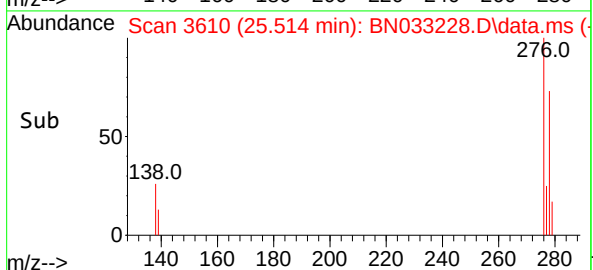
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

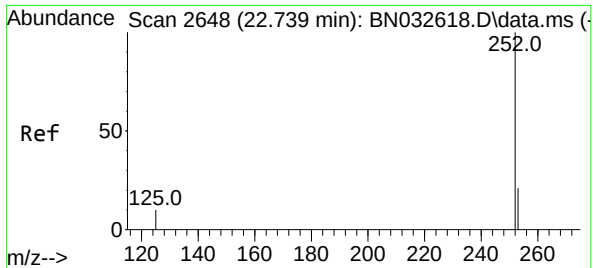


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.514 min Scan# 3610
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



Tgt Ion:276 Resp: 12098
Ion Ratio Lower Upper
276 100
138 25.9 21.0 31.4
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.319 ng m

RT: 22.666 min Scan# 2636

Delta R.T. 0.007 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

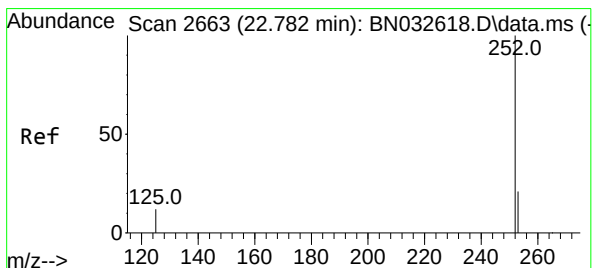
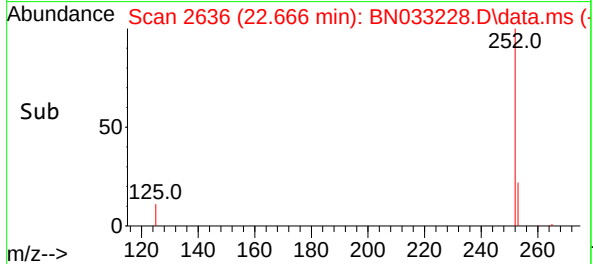
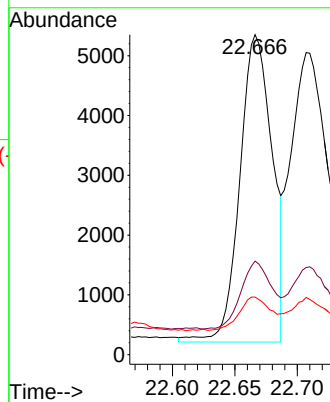
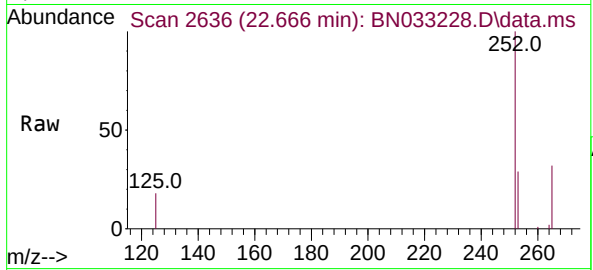
SSTDCCC0.4

Tgt Ion:	252	Resp:	9290
Ion Ratio	Lower	Upper	
252	100		
253	29.2	22.3	33.5
125	18.0	15.4	23.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.341 ng

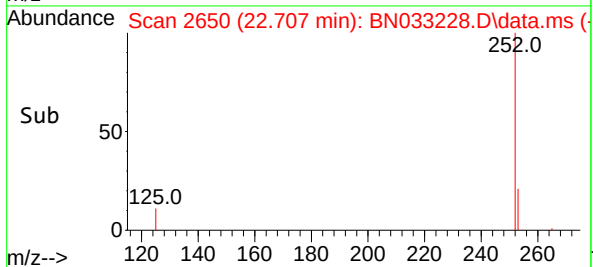
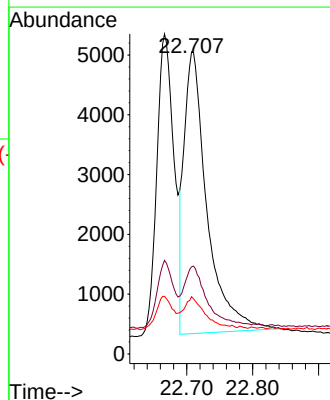
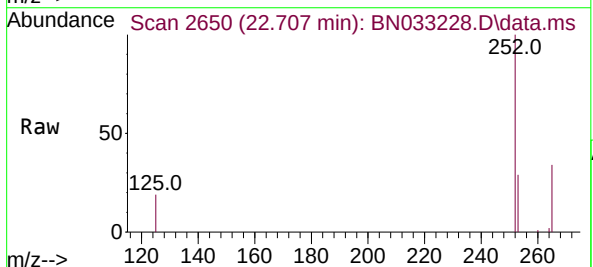
RT: 22.707 min Scan# 2650

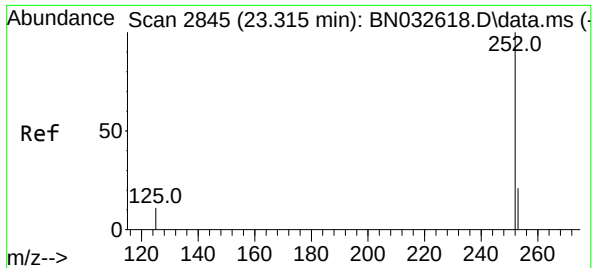
Delta R.T. 0.004 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Tgt Ion:	252	Resp:	11329
Ion Ratio	Lower	Upper	
252	100		
253	28.9	22.6	34.0
125	18.9	16.2	24.4





#39

Benzo(a)pyrene

Concen: 0.347 ng

RT: 23.233 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

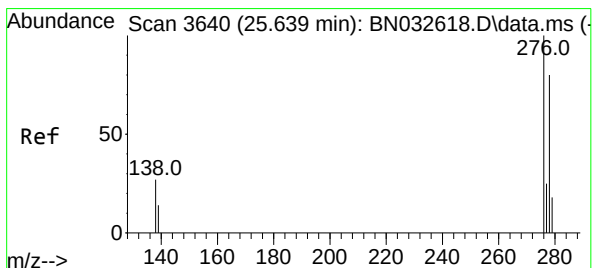
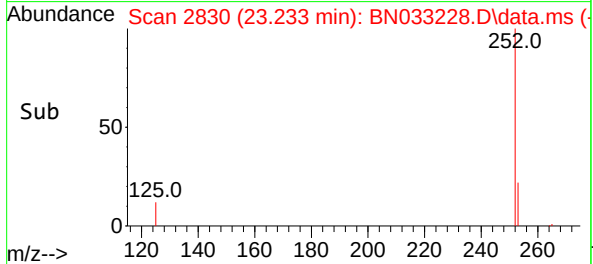
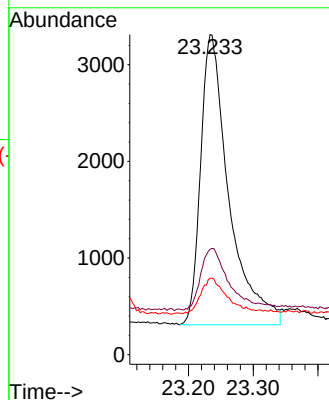
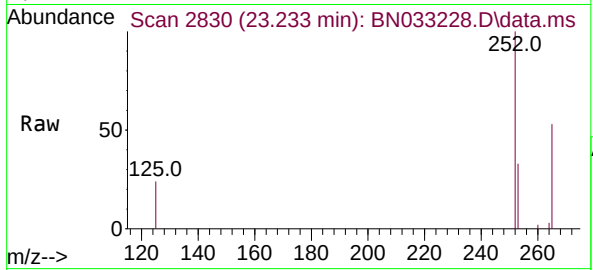
SSTDCCC0.4

Tgt Ion:	252	Resp:	910
Ion Ratio	Lower	Upper	
252	100		
253	33.0	25.8	38.8
125	23.9	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

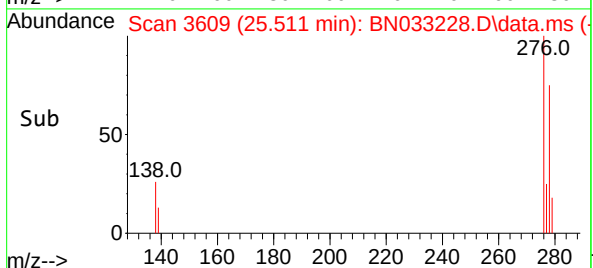
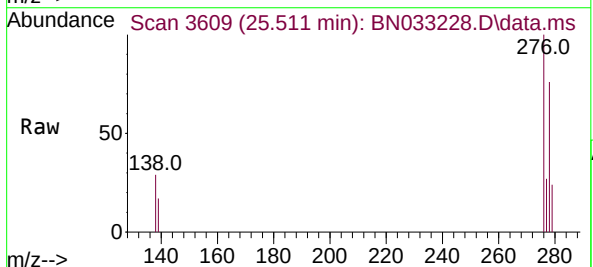
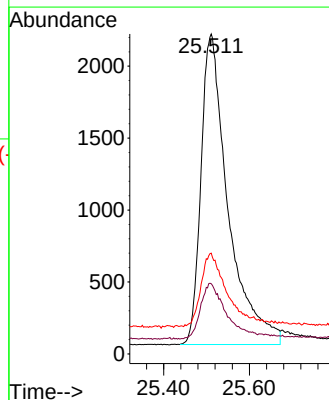
RT: 25.511 min Scan# 3609

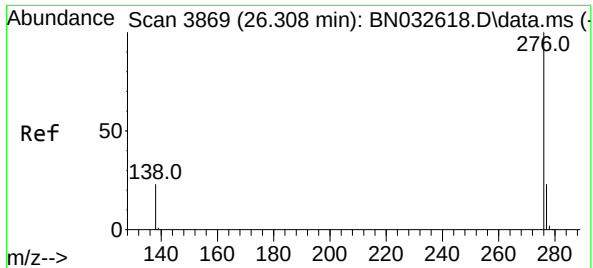
Delta R.T. 0.004 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Tgt Ion:	278	Resp:	9491
Ion Ratio	Lower	Upper	
278	100		
139	21.9	16.7	25.1
279	31.5	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.379 ng

RT: 26.189 min Scan# 3841

Delta R.T. 0.012 min

Lab File: BN033228.D

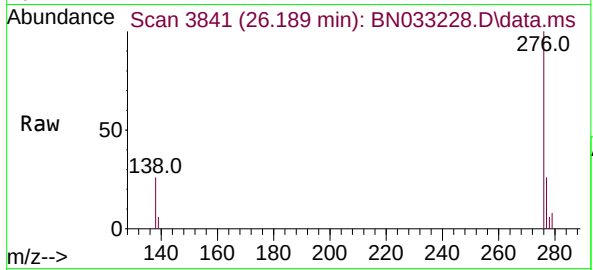
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 10919

Ion Ratio Lower Upper

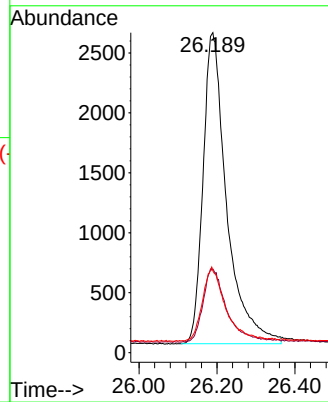
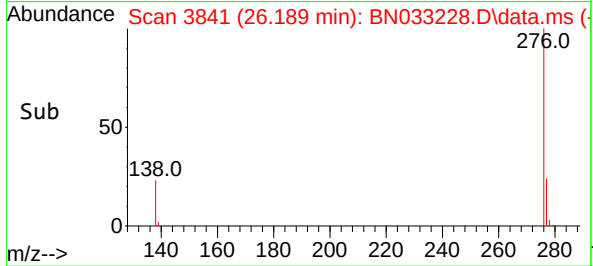
276 100

277 26.2 20.2 30.2

138 25.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033228.D
Acq On : 03 Aug 2024 07:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 05 03:25:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	68	0.00
2	1,4-Dioxane	0.496	0.550	-10.9	76	0.00
3	n-Nitrosodimethylamine	0.419	0.488	-16.5	79	0.00
4 S	2-Fluorophenol	1.012	0.980	3.2	64	0.00
5 S	Phenol-d6	1.256	1.220	2.9	66	-0.02
6	bis(2-Chloroethyl)ether	1.050	0.885	15.7	57	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	77	0.00
8 S	Nitrobenzene-d5	0.301	0.293	2.7	78	0.00
9	Naphthalene	1.108	1.046	5.6	73	-0.01
10	Hexachlorobutadiene	0.212	0.199	6.1	72	-0.01
11 SURR	2-Methylnaphthalene-d10	0.612	0.548	10.5	71	0.00
12	2-Methylnaphthalene	0.724	0.605	16.4	67	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
14 S	2,4,6-Tribromophenol	0.171	0.112	34.5#	49#	0.00
15 S	2-Fluorobiphenyl	1.489	1.432	3.8	65	0.00
16	Acenaphthylene	1.627	1.592	2.2	72	0.00
17	Acenaphthene	1.153	1.123	2.6	67	0.00
18	Fluorene	1.541	1.413	8.3	63	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	61	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.013	76.8#	23#	0.00
21	4-Bromophenyl-phenylether	0.235	0.216	8.1	57	0.00
22	Hexachlorobenzene	0.263	0.229	12.9	54	0.00
23	Atrazine	0.173	0.161	6.9	63	0.00
24	Pentachlorophenol	0.098	0.053	45.9#	40#	0.00
25	Phenanthrene	1.093	0.994	9.1	57	0.00
26	Anthracene	0.900	0.809	10.1	62	0.00
27 SURR	Fluoranthene-d10	1.035	0.846	18.3	52	0.00
28	Fluoranthene	1.323	1.067	19.3	52	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	51	0.00
30	Pyrene	1.634	1.752	-7.2	53	0.00
31 S	Terphenyl-d14	0.820	0.856	-4.4	52	0.00
32	Benzo(a)anthracene	1.265	1.013	19.9	43#	0.00
33	Chrysene	1.504	1.600	-6.4	53	0.00
34	Bis(2-ethylhexyl)phthalate	0.700	0.763	-9.0	64	0.00
35 I	Perylene-d12	1.000	1.000	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.448	8.2	60	0.00
37	Benzo(b)fluoranthene	1.393	1.112	20.2	54	0.00
38	Benzo(k)fluoranthene	1.592	1.356	14.8	54	0.00
39 C	Benzo(a)pyrene	1.256	1.090	13.2	57	0.00
40	Dibenzo(a,h)anthracene	1.245	1.136	8.8	59	0.00
41	Benzo(g,h,i)perylene	1.379	1.307	5.2	60	0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033228.D
Acq On : 03 Aug 2024 07:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 05 03:25:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	68	0.00
2	1,4-Dioxane	0.400	0.444	-11.0	76	0.00
3	n-Nitrosodimethylamine	0.400	0.466	-16.5	79	0.00
4 S	2-Fluorophenol	0.400	0.387	3.3	64	0.00
5 S	Phenol-d6	0.400	0.388	3.0	66	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.337	15.8	57	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	77	0.00
8 S	Nitrobenzene-d5	0.400	0.389	2.8	78	0.00
9	Naphthalene	0.400	0.378	5.5	73	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	72	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.358	10.5	71	0.00
12	2-Methylnaphthalene	0.400	0.334	16.5	67	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	68	0.00
14 S	2,4,6-Tribromophenol	0.400	0.261	34.8#	49	0.00
15 S	2-Fluorobiphenyl	0.400	0.385	3.8	65	0.00
16	Acenaphthylene	0.400	0.391	2.3	72	0.00
17	Acenaphthene	0.400	0.389	2.8	67	0.00
18	Fluorene	0.400	0.367	8.3	63	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	61	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.351	12.3	23	0.00
21	4-Bromophenyl-phenylether	0.400	0.367	8.3	57	0.00
22	Hexachlorobenzene	0.400	0.349	12.8	54	0.00
23	Atrazine	0.400	0.373	6.8	63	0.00
24	Pentachlorophenol	0.400	0.216	46.0#	40	0.00
25	Phenanthrene	0.400	0.364	9.0	57	0.00
26	Anthracene	0.400	0.360	10.0	62	0.00
27 SURR	Fluoranthene-d10	0.400	0.327	18.3	52	0.00
28	Fluoranthene	0.400	0.323	19.3	52	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	51	0.00
30	Pyrene	0.400	0.429	-7.2	53	0.00
31 S	Terphenyl-d14	0.400	0.418	-4.5	52	0.00
32	Benzo(a)anthracene	0.400	0.320	20.0	43	0.00
33	Chrysene	0.400	0.426	-6.5	53	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	64	0.00
35 I	Perylene-d12	0.400	0.400	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	60	0.00
37	Benzo(b)fluoranthene	0.400	0.319	20.3	54	0.00
38	Benzo(k)fluoranthene	0.400	0.341	14.8	54	0.00
39 C	Benzo(a)pyrene	0.400	0.347	13.3	57	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	59	0.00
41	Benzo(g,h,i)perylene	0.400	0.379	5.3	60	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: JAC005

Lab Code: CHEM Case No.: P3440 SAS No.: P3440 SDG No.: P3440

Instrument ID: BNA_N Calibration Date/Time: 08/06/2024 01:28

Lab File ID: BN033251.D Init. Calib. Date(s): 08/05/2024 08/05/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 18:39 22:21

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.593	0.588		-0.8	20.0
Fluoranthene-d10	1.119	1.134		1.3	20.0
2-Fluorophenol	0.991	1.074		8.4	20.0
Phenol-d6	1.361	1.349		-0.9	20.0
Nitrobenzene-d5	0.322	0.305		-5.3	20.0
Naphthalene	1.087	1.152		6.0	20.0
2-Methylnaphthalene	0.648	0.599		-7.6	20.0
2-Fluorobiphenyl	1.368	1.384		1.2	20.0
Acenaphthylene	1.596	1.499		-6.1	20.0
Acenaphthene	1.152	1.180		2.4	20.0
Fluorene	1.559	1.587		1.8	20.0
2,4,6-Tribromophenol	0.149	0.141		-5.4	20.0
Phenanthrene	1.076	1.025		-4.7	20.0
Anthracene	0.902	0.790		-12.4	20.0
Fluoranthene	1.476	1.469		-0.5	20.0
Pyrene	1.398	1.367		-2.2	20.0
Terphenyl-d14	0.691	0.665		-3.8	20.0
Benzo(a)anthracene	1.152	1.062		-7.8	20.0
Chrysene	1.547	1.585		2.5	20.0
Benzo(b)fluoranthene	1.213	1.116		-8.0	20.0
Benzo(k)fluoranthene	1.518	1.481		-2.4	20.0
Benzo(a)pyrene	1.218	1.173		-3.7	20.0
Indeno(1,2,3-cd)pyrene	1.808	1.738		-3.9	20.0
Dibenzo(a,h)anthracene	1.428	1.377		-3.6	20.0
Benzo(g,h,i)perylene	1.636	1.616		-1.2	20.0
1,4-Dioxane	0.583	0.629		7.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033251.D
 Acq On : 06 Aug 2024 01:28
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 06 04:32:06 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:57:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	866m	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3240	0.400	ng	0.02
13) Acenaphthene-d10	14.137	164	2331	0.400	ng	0.01
19) Phenanthrene-d10	16.920	188	5493	0.400	ng	0.00
29) Chrysene-d12	21.125	240	6325	0.400	ng	0.00
35) Perylene-d12	23.291	264	8047	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.380	112	930m	0.434	ng	0.09
5) Phenol-d6	6.997	99	1168m	0.396	ng	0.00
8) Nitrobenzene-d5	8.931	82	988	0.379	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	1905	0.396	ng	0.02
14) 2,4,6-Tribromophenol	15.716	330	329	0.379	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	3225	0.404	ng	0.01
27) Fluoranthene-d10	18.955	212	6229	0.405	ng	0.00
31) Terphenyl-d14	19.559	244	4207	0.385	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.047	88	545	0.332	ng	# 80
3) n-Nitrosodimethylamine	3.473	42	426	0.403	ng	# 84
6) bis(2-Chloroethyl)ether	7.055	93	1477m	0.595	ng	
9) Naphthalene	10.383	128	3733	0.424	ng	99
10) Hexachlorobutadiene	10.511	225	707	0.433	ng	# 98
12) 2-Methylnaphthalene	12.022	142	1940	0.370	ng	100
16) Acenaphthylene	13.869	152	3493	0.376	ng	100
17) Acenaphthene	14.201	154	2750	0.410	ng	100
18) Fluorene	15.227	166	3700	0.407	ng	99
20) 4,6-Dinitro-2-methylph...	15.592	198	177	0.418	ng	87
21) 4-Bromophenyl-phenylether	16.113	248	1131	0.388	ng	93
22) Hexachlorobenzene	16.200	284	1224	0.402	ng	97
23) Atrazine	16.411	200	1005	0.366	ng	97
24) Pentachlorophenol	16.635	266	330	0.324	ng	# 87
25) Phenanthrene	16.957	178	5629	0.381	ng	99
26) Anthracene	17.082	178	4341	0.350	ng	# 87
28) Fluoranthene	18.987	202	8070	0.398	ng	100
30) Pyrene	19.354	202	8648	0.391	ng	99
32) Benzo(a)anthracene	21.116	228	6720	0.369	ng	100
33) Chrysene	21.161	228	10026	0.410	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	1542	0.352	ng	# 82
36) Indeno(1,2,3-cd)pyrene	25.478	276	13983	0.384	ng	99
37) Benzo(b)fluoranthene	22.645	252	8977	0.368	ng	99
38) Benzo(k)fluoranthene	22.689	252	11917	0.390	ng	98
39) Benzo(a)pyrene	23.209	252	9439	0.385	ng	99
40) Dibenzo(a,h)anthracene	25.478	278	11077	0.386	ng	99
41) Benzo(g,h,i)perylene	26.145	276	13001	0.395	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033251.D
Acq On : 06 Aug 2024 01:28
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

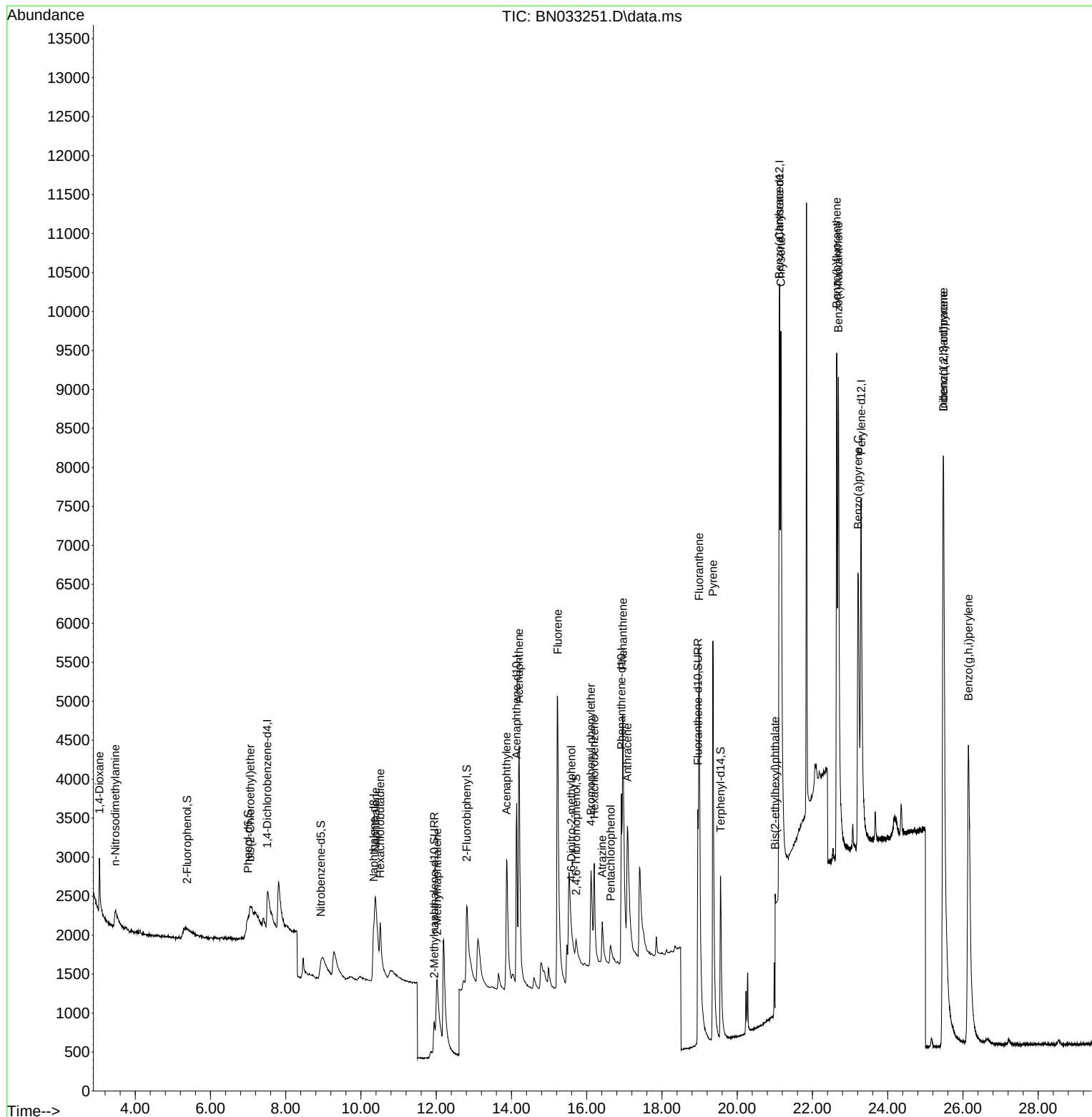
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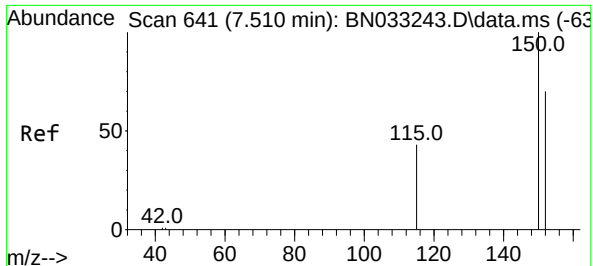
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

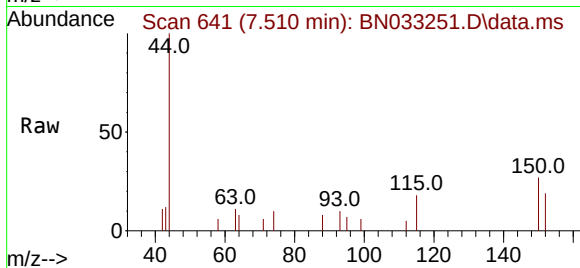
Quant Time: Aug 06 04:32:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.510 min Scan# 641
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

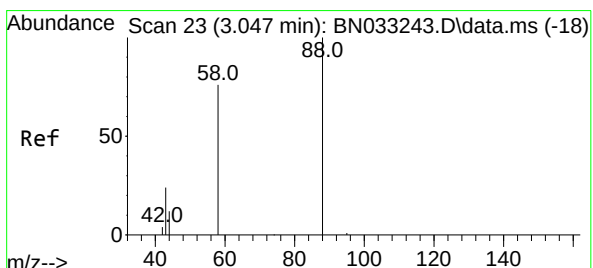
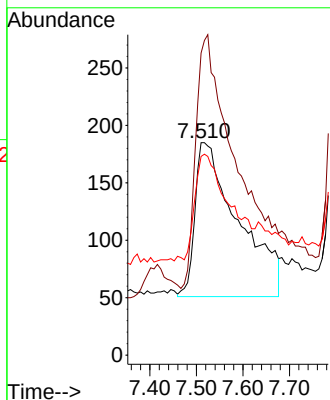
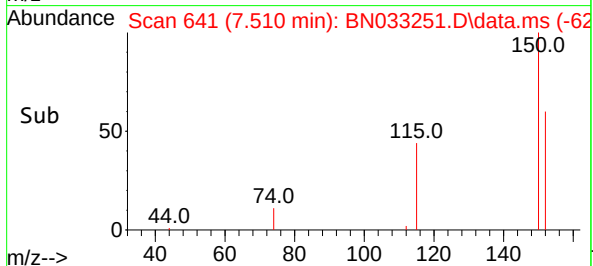
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 860
Ion Ratio Lower Upper
152 100
150 142.2 108.2 162.2
115 93.5 70.5 105.7

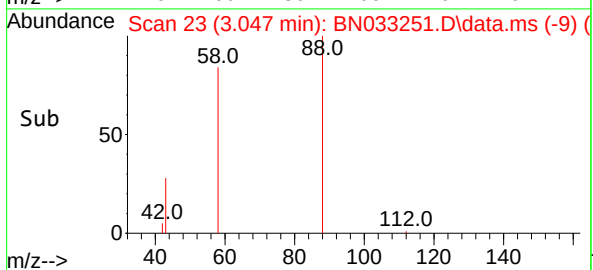
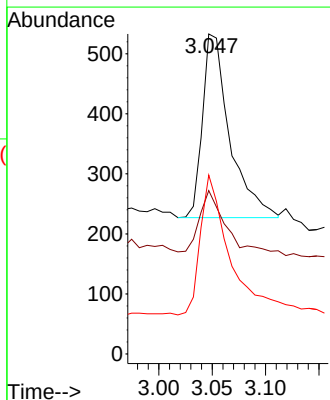
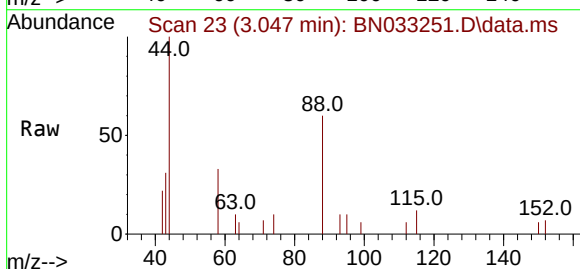
Manual Integrations
APPROVED

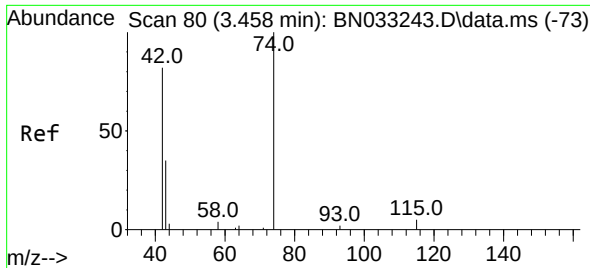
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.332 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

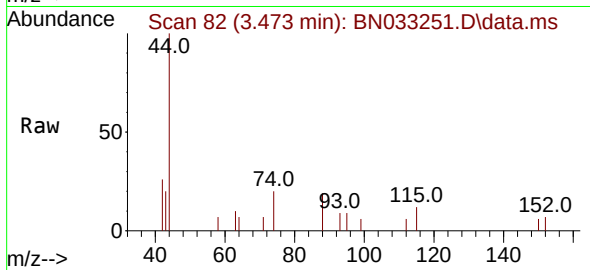
Tgt Ion: 88 Resp: 545
Ion Ratio Lower Upper
88 100
43 36.1 18.6 28.0#
58 82.9 54.5 81.7#





#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.015 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

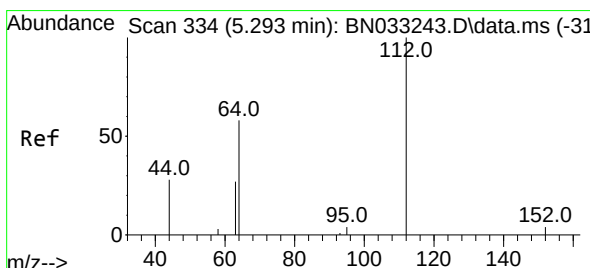
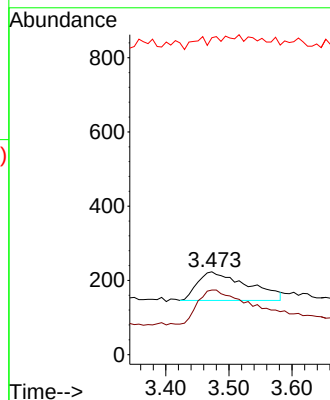
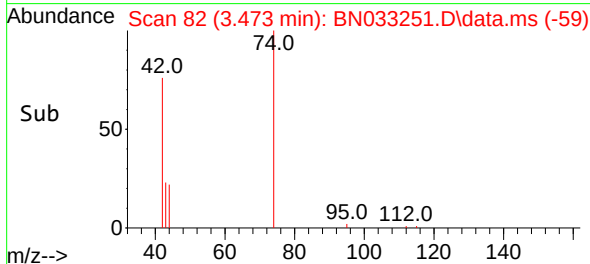
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



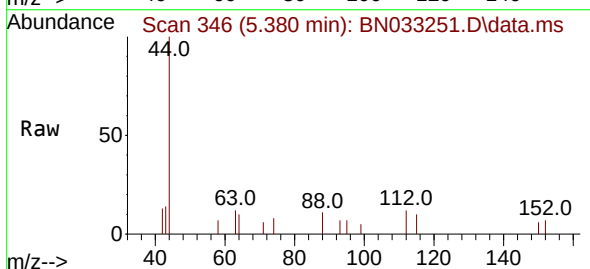
Tgt Ion: 42 Resp: 420
Ion Ratio Lower Upper
42 100
74 127.5 0.0 0.0#
44 5.6 9.6 14.4#

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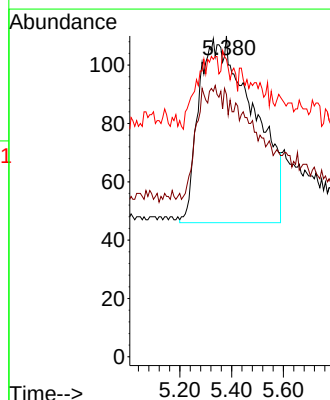
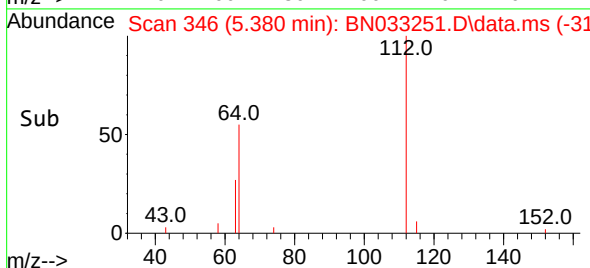
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

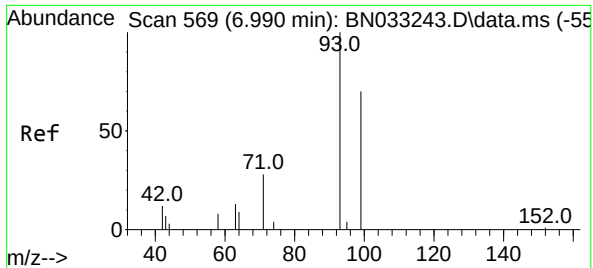


#4
2-Fluorophenol
Concen: 0.434 ng m
RT: 5.380 min Scan# 346
Delta R.T. 0.087 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



Tgt Ion:112 Resp: 930
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





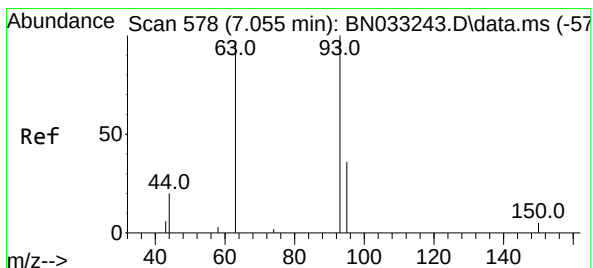
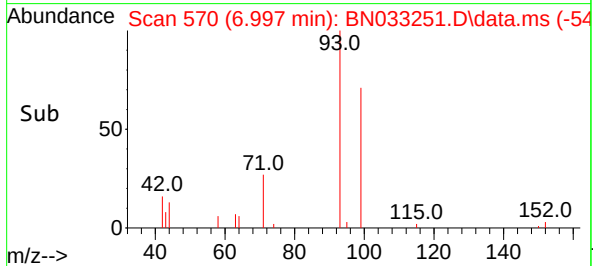
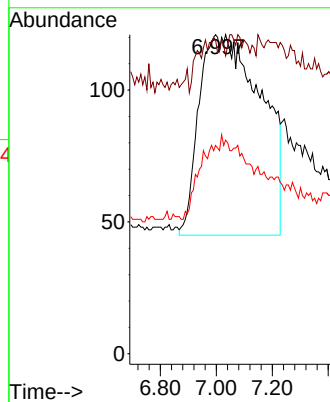
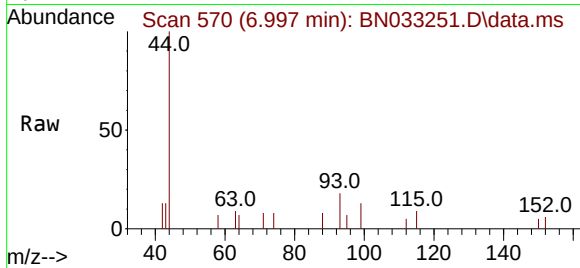
#5
Phenol-d6
Concen: 0.396 ng m
RT: 6.997 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1168
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 9.5 0.0 0.0

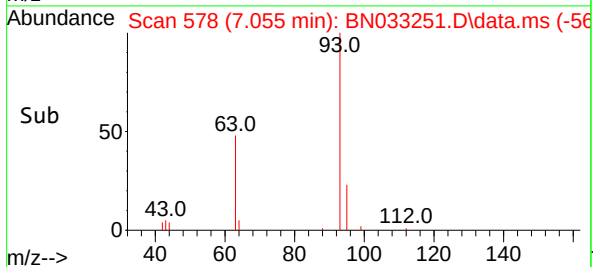
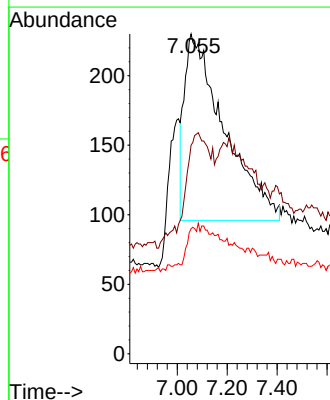
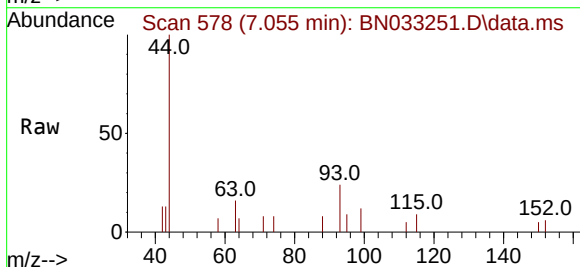
Manual Integrations
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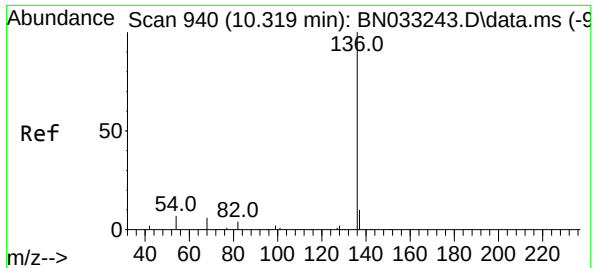
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.595 ng m
RT: 7.055 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

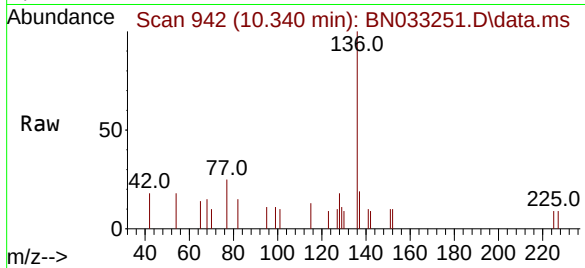
Tgt Ion: 93 Resp: 1477
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 5.1 0.0 0.0#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 940
Delta R.T. 0.021 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

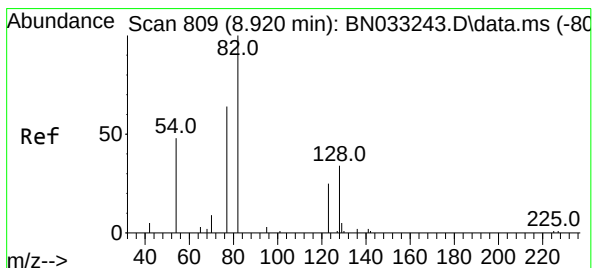
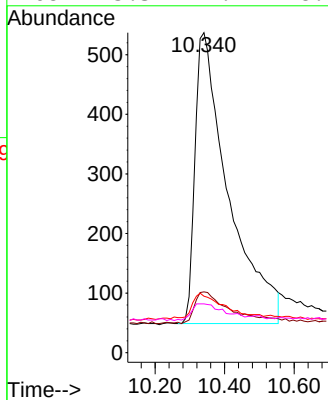
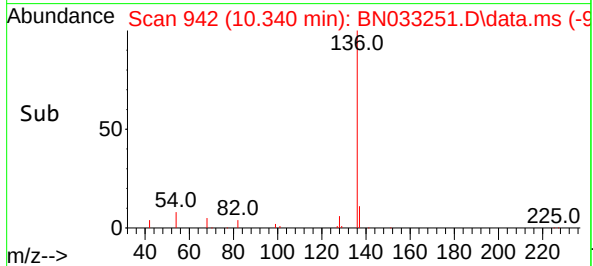
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 3240
Ion Ratio Lower Upper
136 100
137 19.0 14.1 21.1
54 17.7 13.8 20.8
68 15.3 12.4 18.6

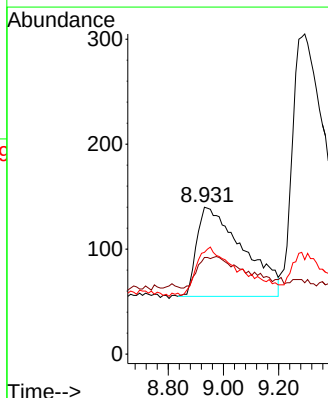
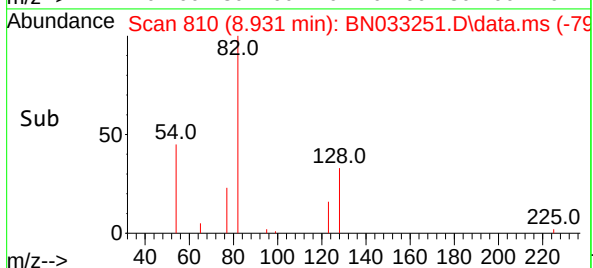
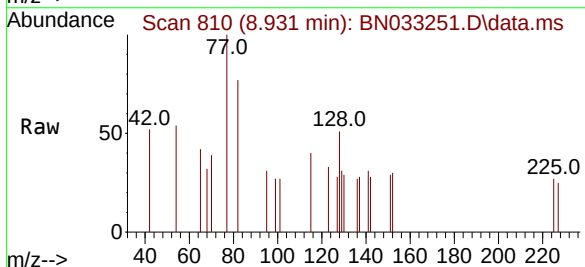
Manual Integrations
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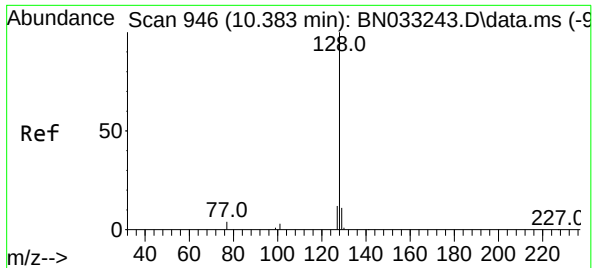
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.931 min Scan# 810
Delta R.T. 0.011 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Tgt Ion: 82 Resp: 988
Ion Ratio Lower Upper
82 100
128 65.7 54.8 82.2
54 69.3 55.9 83.9





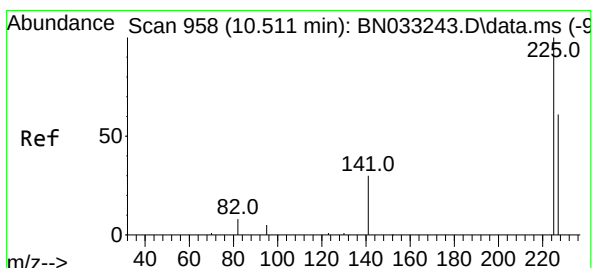
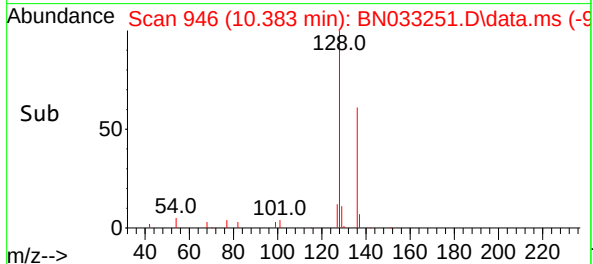
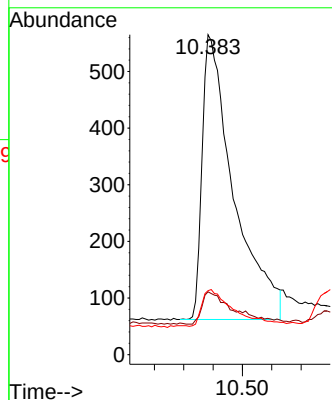
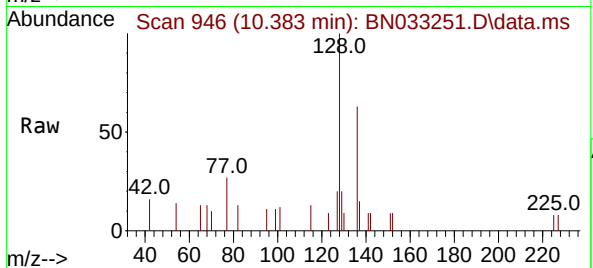
#9
Naphthalene
Concen: 0.424 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 373
Ion Ratio Lower Upper
128 100
129 19.6 15.4 23.0
127 20.0 15.8 23.6

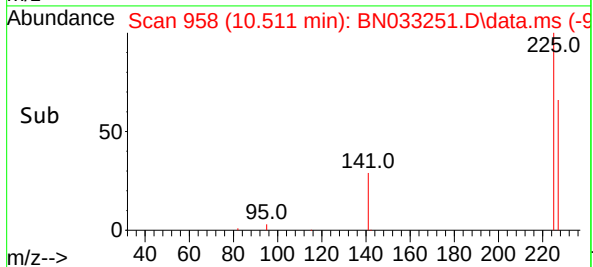
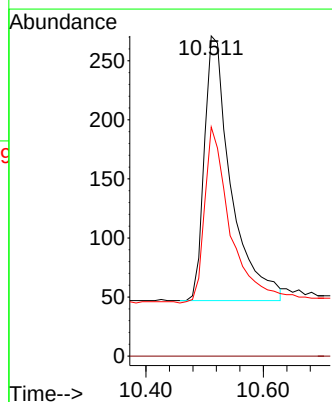
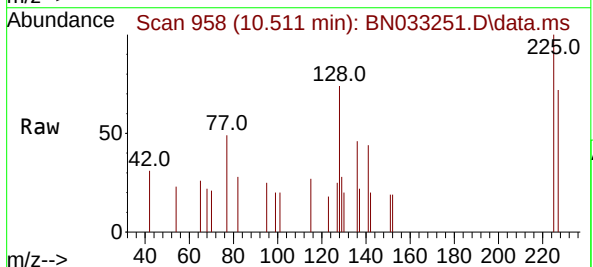
Manual Integrations
APPROVED

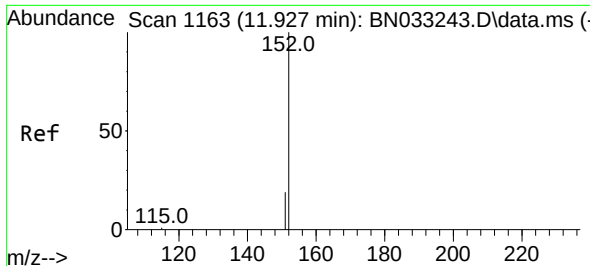
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.511 min Scan# 958
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

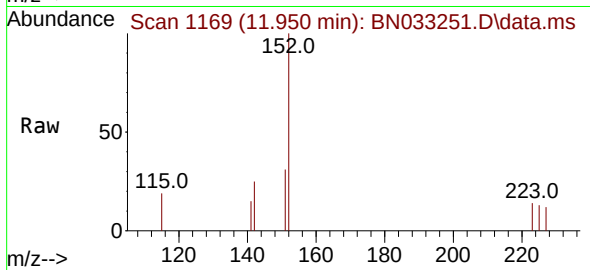
Tgt Ion:225 Resp: 707
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.396 ng
RT: 11.950 min Scan# 1169
Delta R.T. 0.023 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

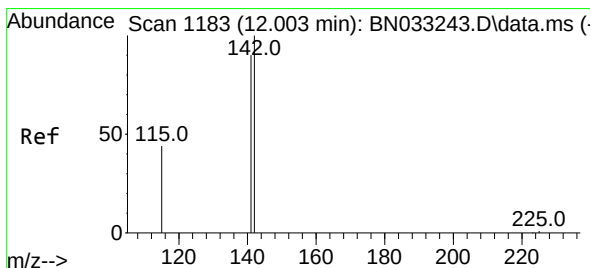
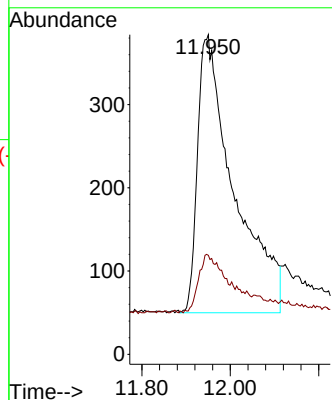
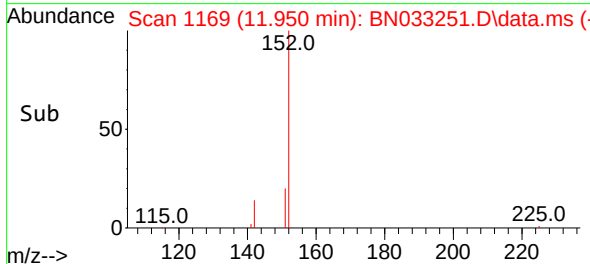
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



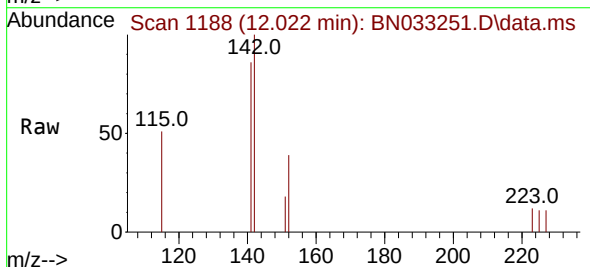
Tgt Ion:152 Resp: 190
Ion Ratio Lower Upper
152 100
151 17.8 11.9 17.9

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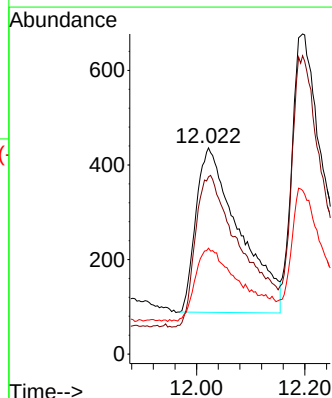
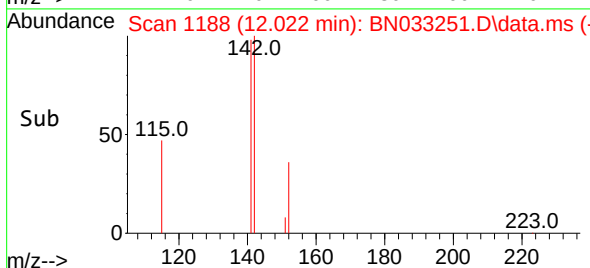
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

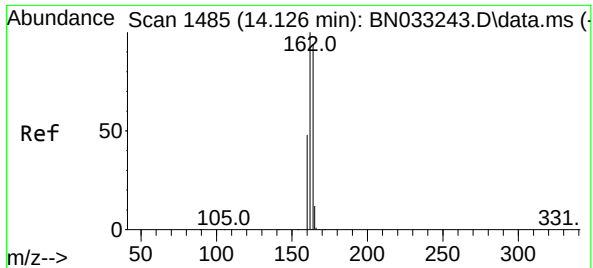


#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.022 min Scan# 1188
Delta R.T. 0.019 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



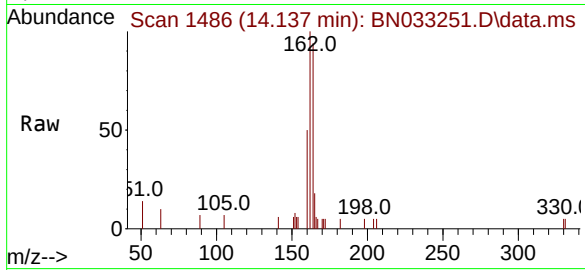
Tgt Ion:142 Resp: 1940
Ion Ratio Lower Upper
142 100
141 86.0 68.7 103.1
115 51.4 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.011 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

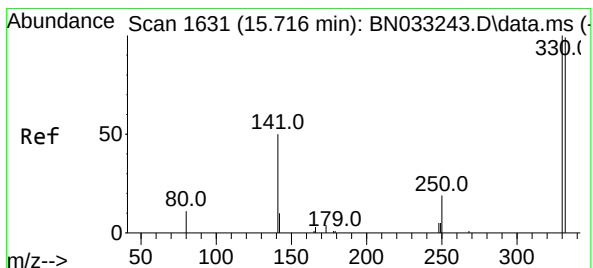
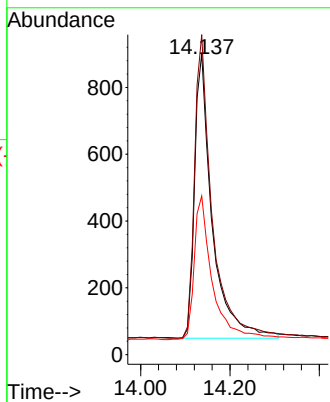
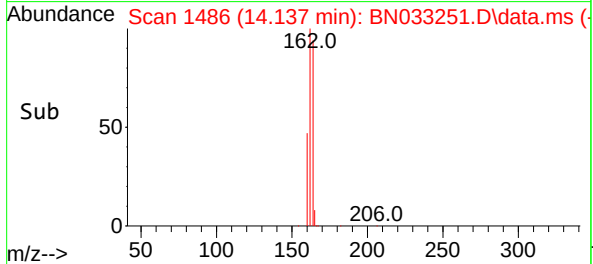
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



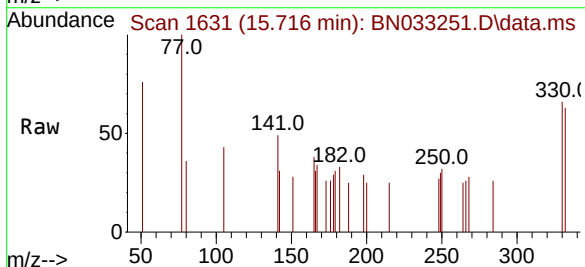
Tgt Ion:164 Resp: 233
Ion Ratio Lower Upper
164 100
162 106.3 84.6 127.0
160 52.7 42.4 63.6

Manual Integrations
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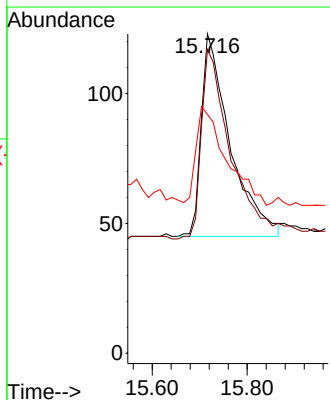
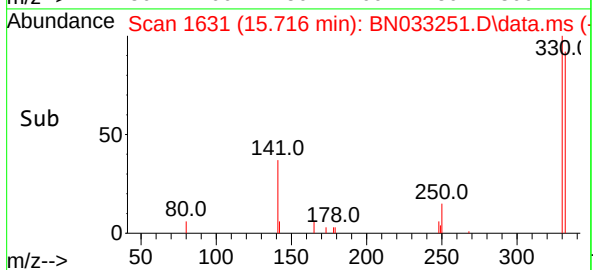
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

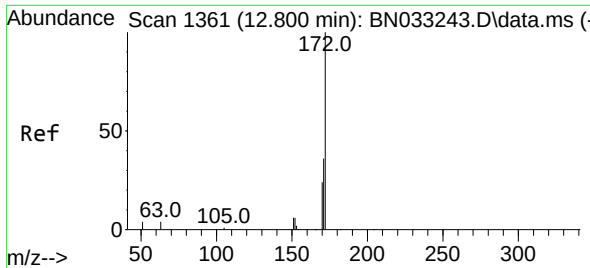


#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



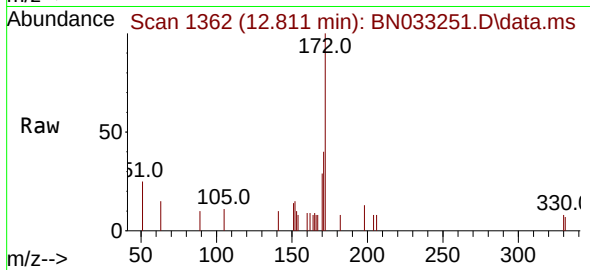
Tgt Ion:330 Resp: 329
Ion Ratio Lower Upper
330 100
332 97.0 73.7 110.5
141 50.8 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.011 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

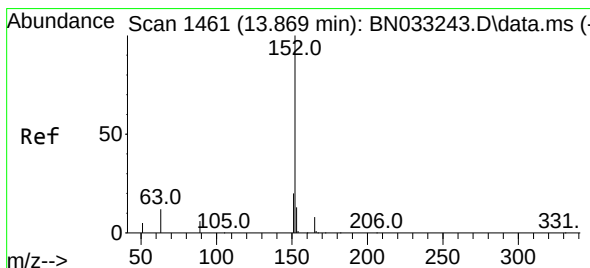
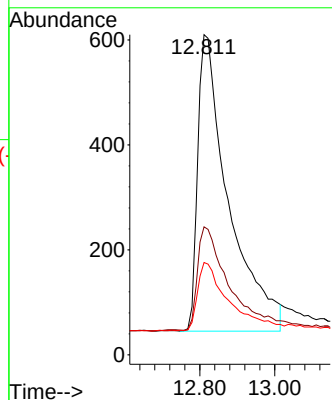
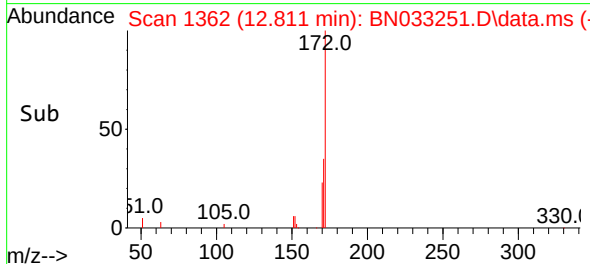
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 322
Ion Ratio Lower Upper
172 100
171 40.0 32.3 48.5
170 28.9 23.4 35.2

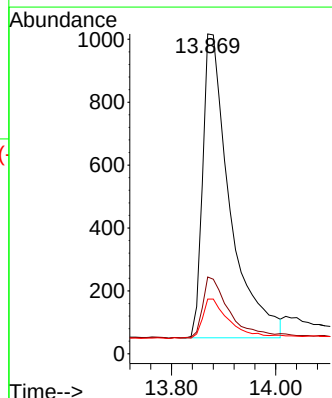
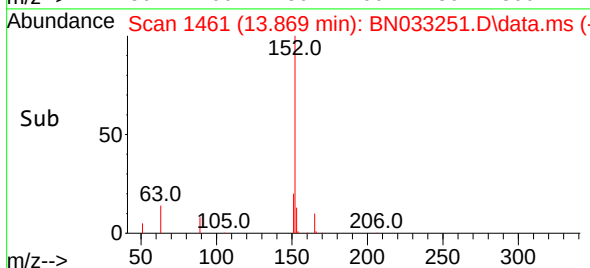
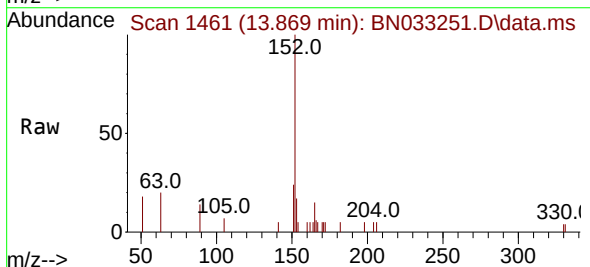
Manual Integrations
APPROVED

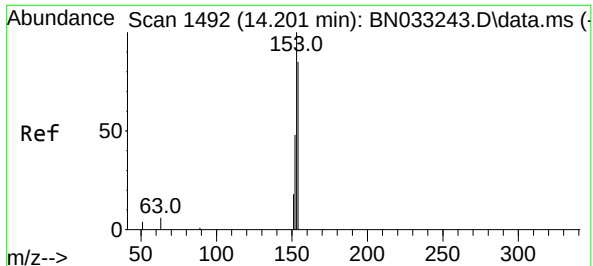
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.376 ng
RT: 13.869 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Tgt Ion:152 Resp: 3493
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 12.4 10.2 15.2





#17

Acenaphthene

Concen: 0.410 ng

RT: 14.201 min Scan# 1492

Delta R.T. -0.000 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

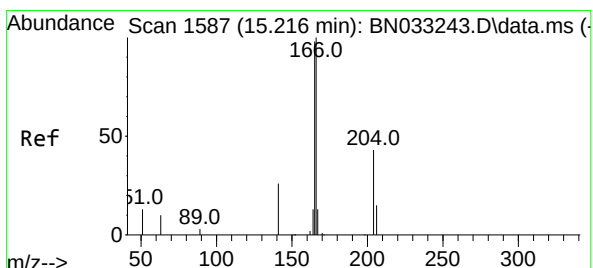
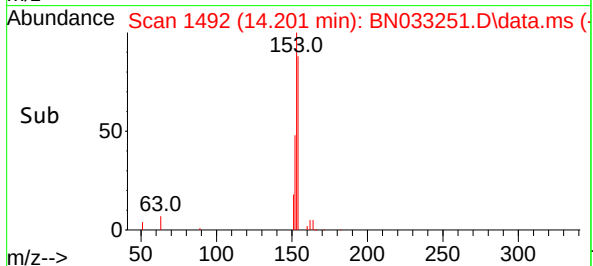
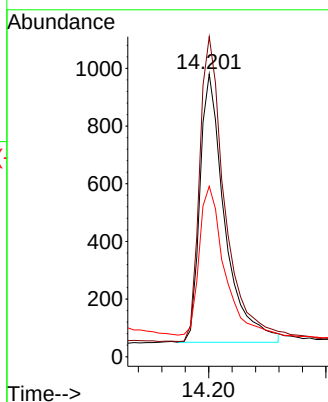
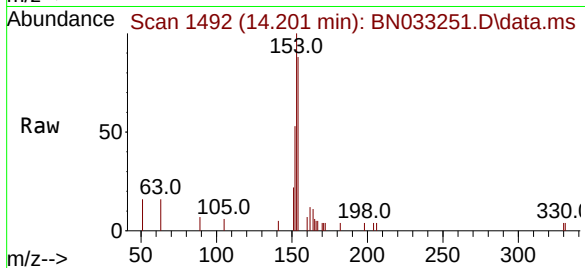
SSTDCCC0.4

Tgt Ion:	154	Resp:	2750
Ion Ratio	Lower	Upper	
154	100		
153	115.6	92.7	139.1
152	55.2	44.0	66.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#18

Fluorene

Concen: 0.407 ng

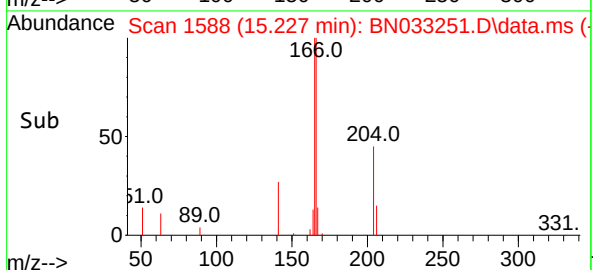
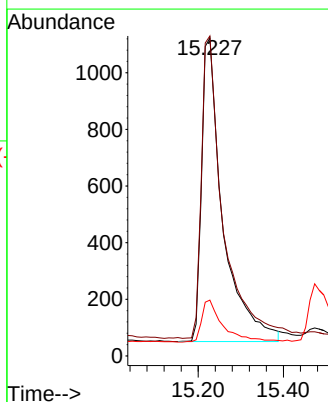
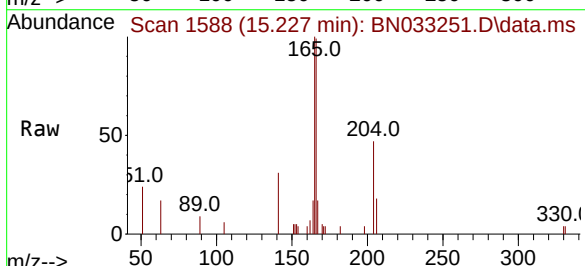
RT: 15.227 min Scan# 1588

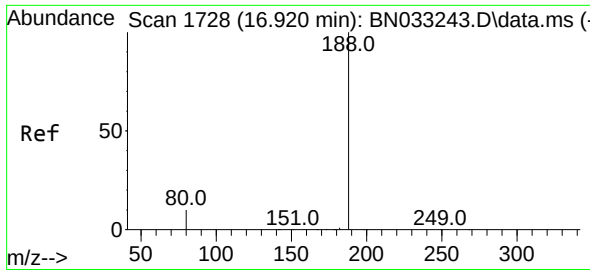
Delta R.T. 0.011 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Tgt Ion:	166	Resp:	3700
Ion Ratio	Lower	Upper	
166	100		
165	99.9	79.6	119.4
167	14.0	10.6	16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.920 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

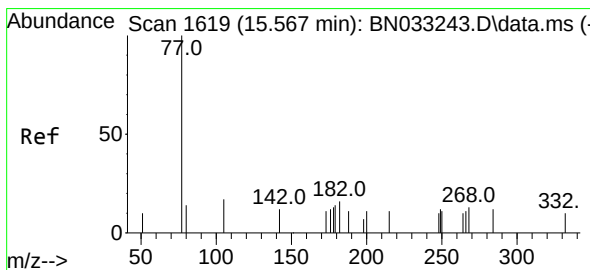
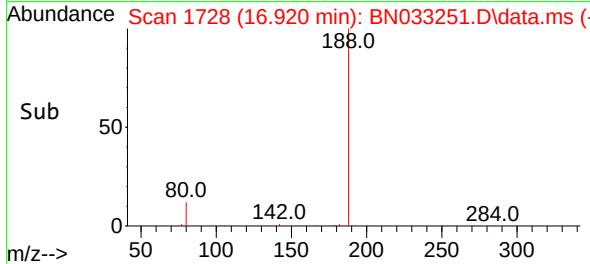
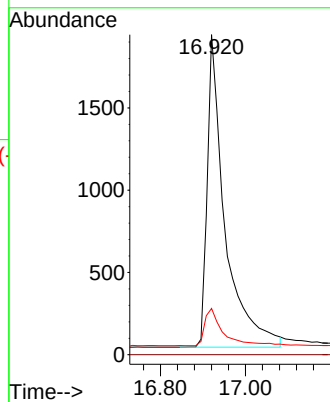
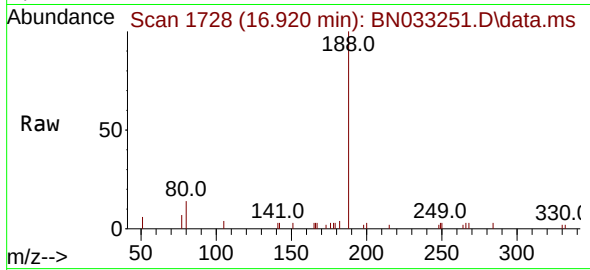
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.4	10.2	15.4

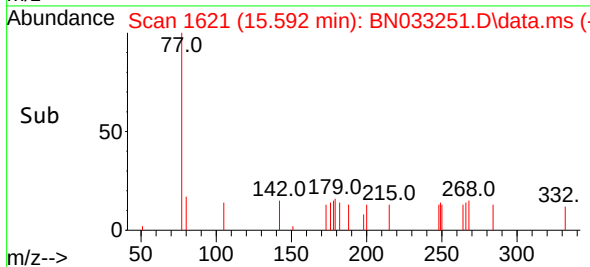
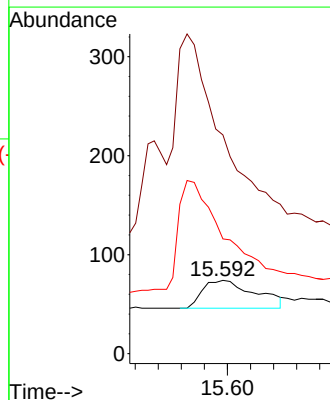
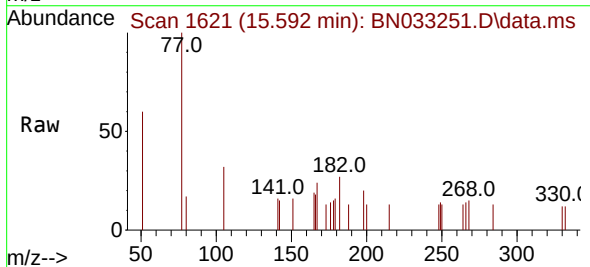
Manual Integrations
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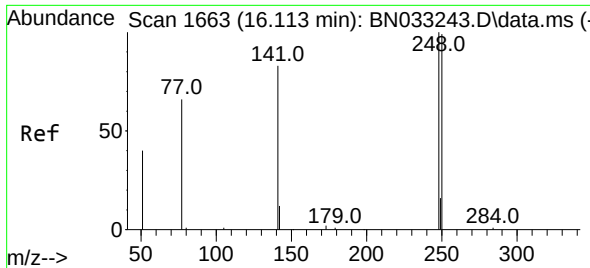
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.418 ng
RT: 15.592 min Scan# 1621
Delta R.T. 0.025 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Tgt Ion	Ratio	Lower	Upper
198	100		
51	298.6	250.6	375.8
105	156.8	152.6	229.0





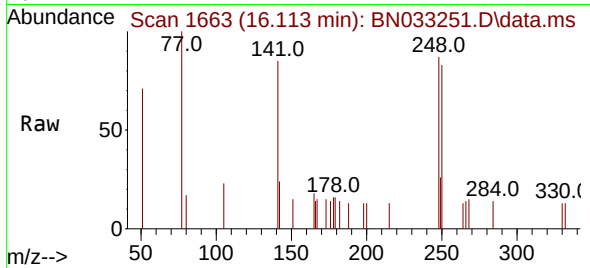
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.113 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

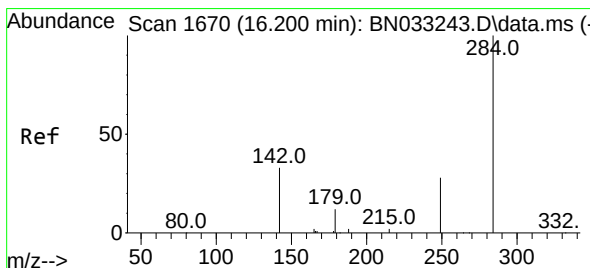
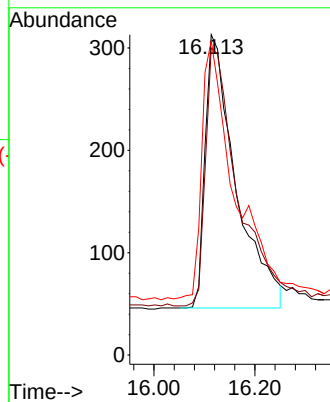
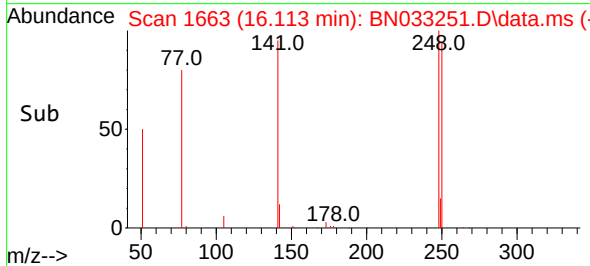


Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.8	80.0	120.0
141	98.1	71.0	106.6

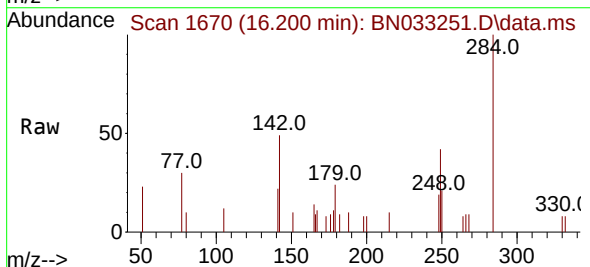
Manual Integrations

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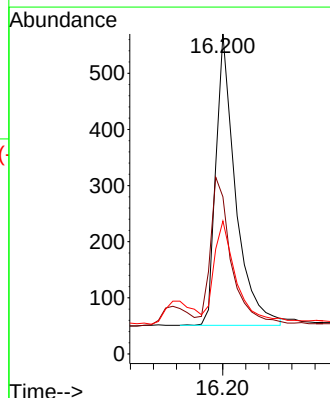
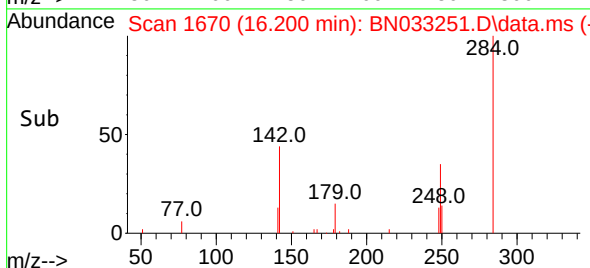
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

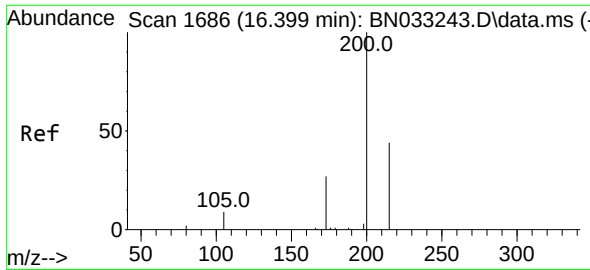


#22
Hexachlorobenzene
Concen: 0.402 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



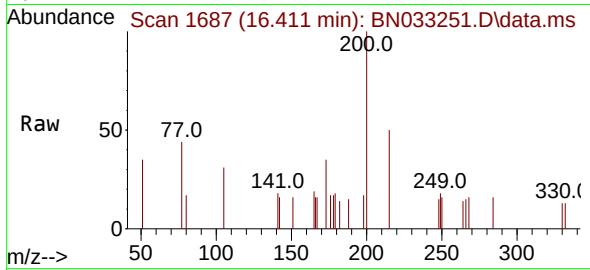
Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	38.8	58.2
249	35.6	27.8	41.6





#23
Atrazine
Concen: 0.366 ng
RT: 16.411 min Scan# 1705
Delta R.T. 0.012 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

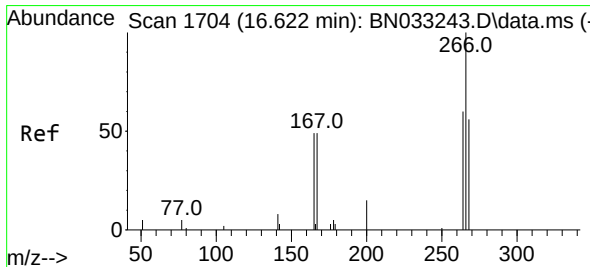
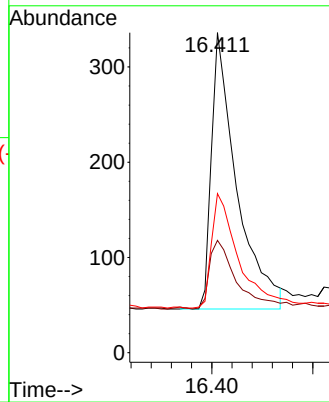
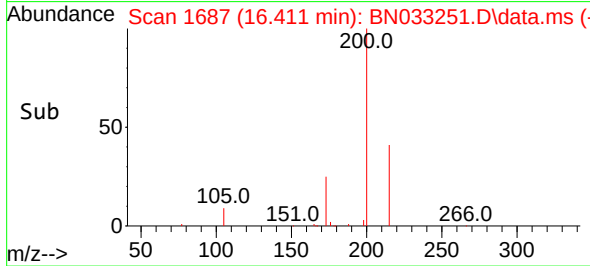
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 100
Ion Ratio Lower Upper
200 100
173 35.1 29.2 43.8
215 49.7 41.5 62.3

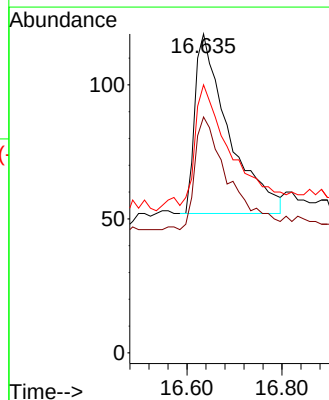
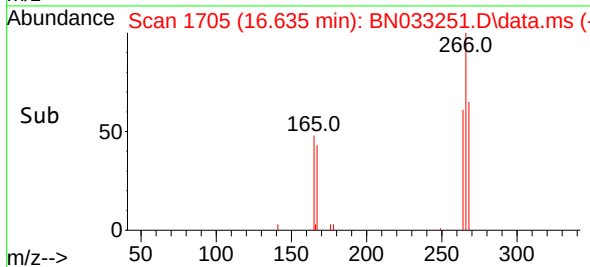
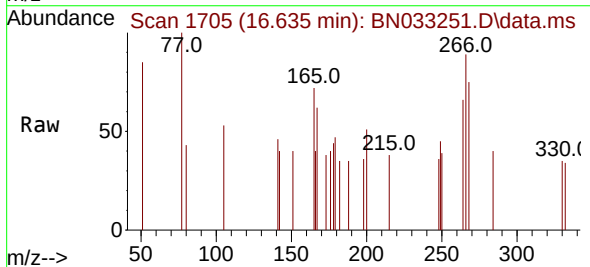
Manual Integrations
APPROVED

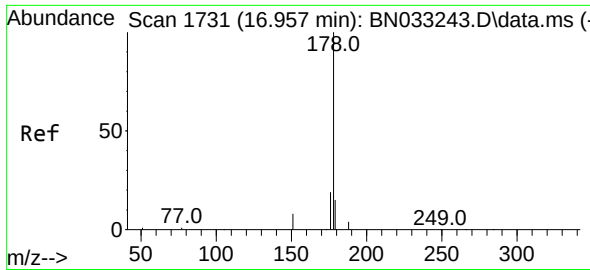
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.635 min Scan# 1705
Delta R.T. 0.013 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

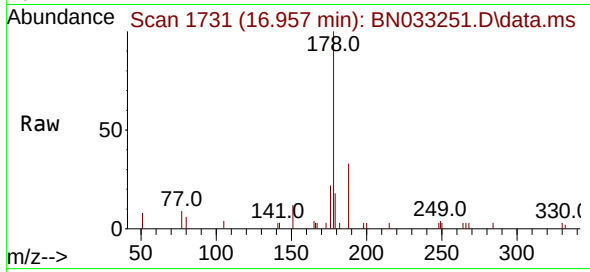
Tgt Ion:266 Resp: 330
Ion Ratio Lower Upper
266 100
264 63.3 49.3 73.9
268 80.9 50.2 75.2#





#25
Phenanthrene
Concen: 0.381 ng
RT: 16.957 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

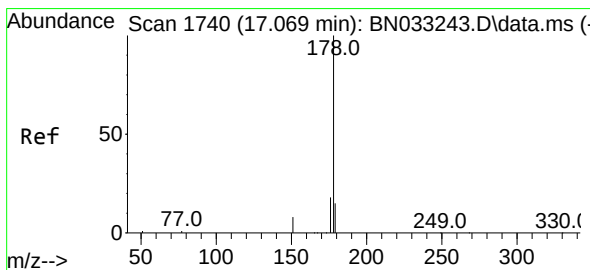
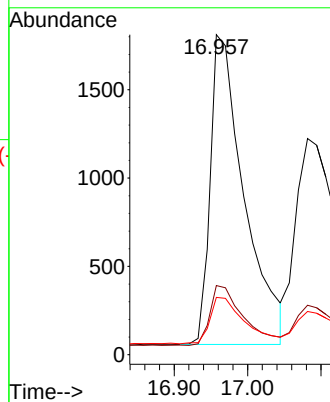
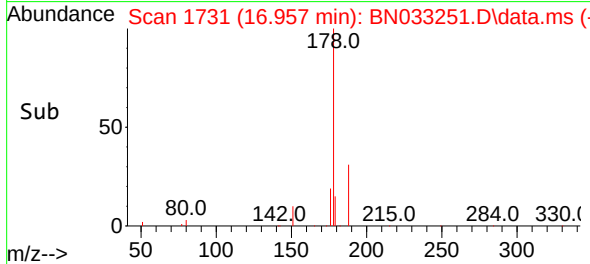
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



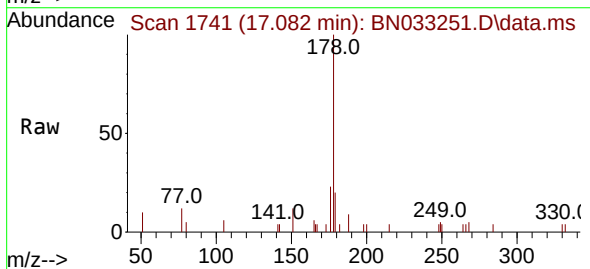
Tgt Ion:178 Resp: 5629
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.4 18.6

Manual Integrations
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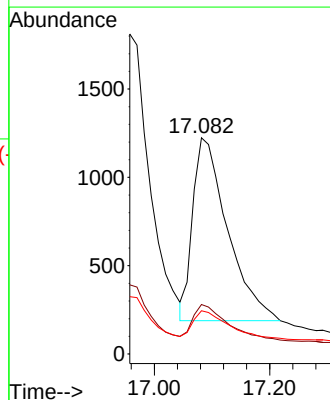
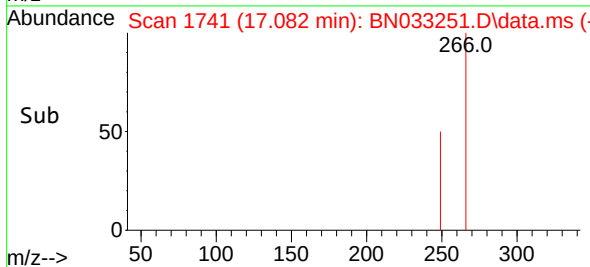
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

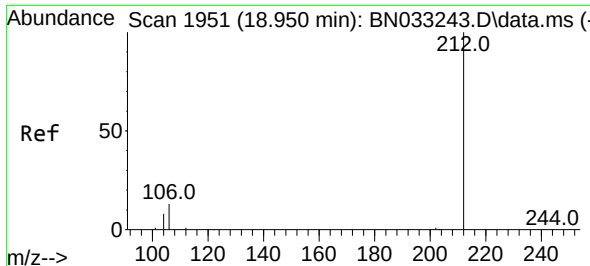


#26
Anthracene
Concen: 0.350 ng
RT: 17.082 min Scan# 1741
Delta R.T. 0.013 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



Tgt Ion:178 Resp: 4341
Ion Ratio Lower Upper
178 100
176 19.1 10.5 15.7#
179 14.7 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 18.955 min Scan# 1951

Delta R.T. 0.005 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

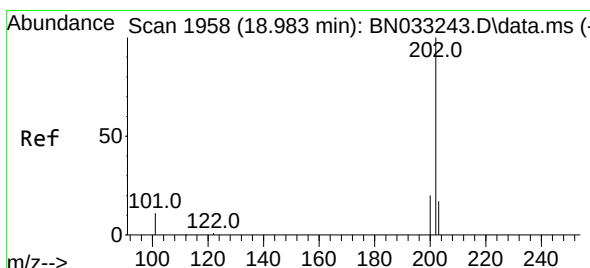
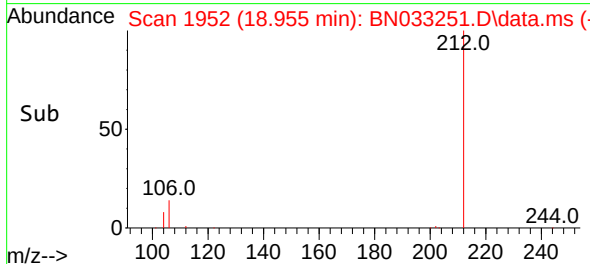
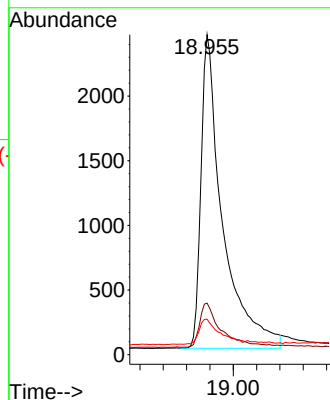
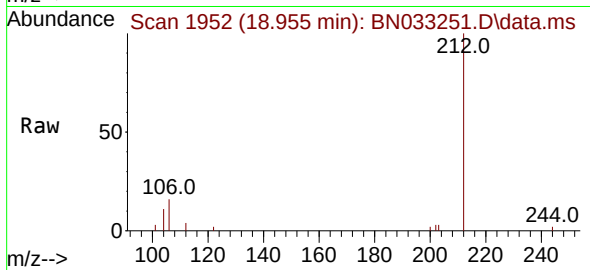
SSTDCCC0.4

Tgt Ion:	212	Resp:	6229
Ion Ratio	Lower	Upper	
212	100		
106	13.9	11.4	17.0
104	8.3	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.398 ng

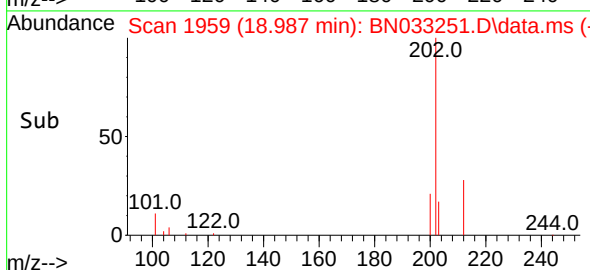
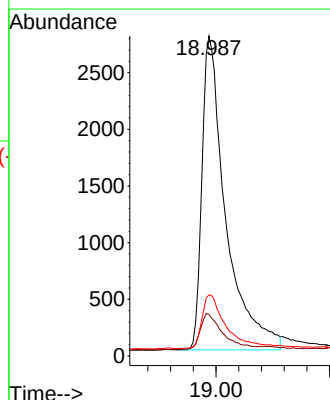
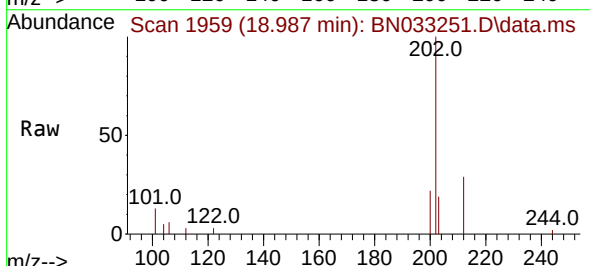
RT: 18.987 min Scan# 1959

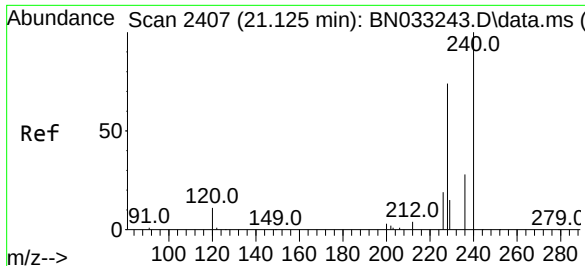
Delta R.T. 0.005 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Tgt Ion:	202	Resp:	8070
Ion Ratio	Lower	Upper	
202	100		
101	11.1	8.6	13.0
203	17.4	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.125 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN033251.D

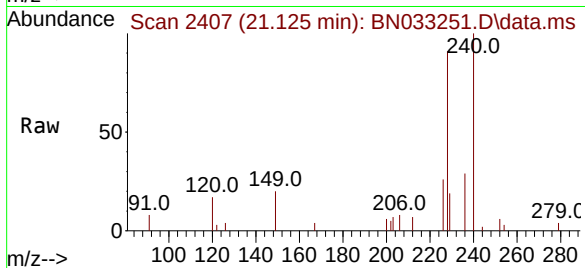
Acq: 06 Aug 2024 01:28

Instrument :

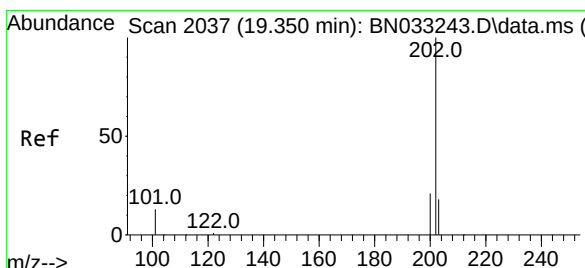
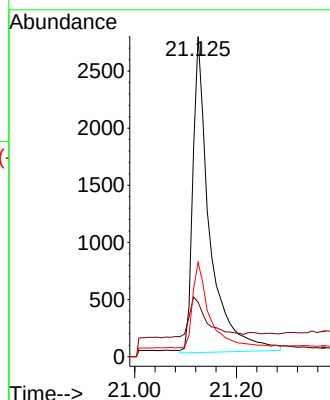
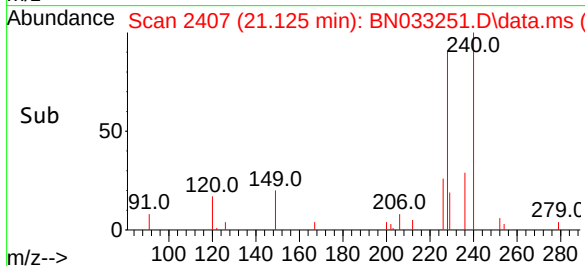
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	240	Resp:	632
Ion Ratio	Lower	Upper	
240	100		
120	17.0	13.3	19.9
236	29.5	23.8	35.6

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#30

Pyrene

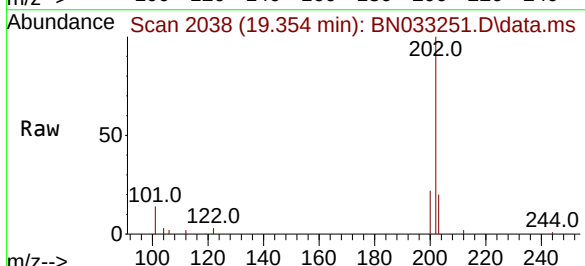
Concen: 0.391 ng

RT: 19.354 min Scan# 2038

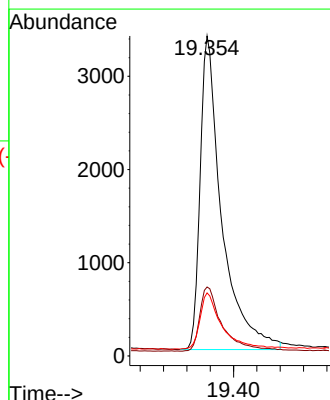
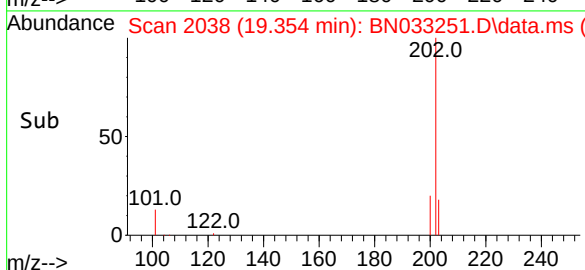
Delta R.T. 0.005 min

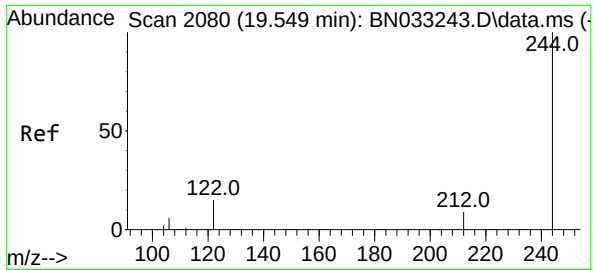
Lab File: BN033251.D

Acq: 06 Aug 2024 01:28



Tgt Ion:	202	Resp:	8648
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.0	25.4
203	18.5	14.4	21.6





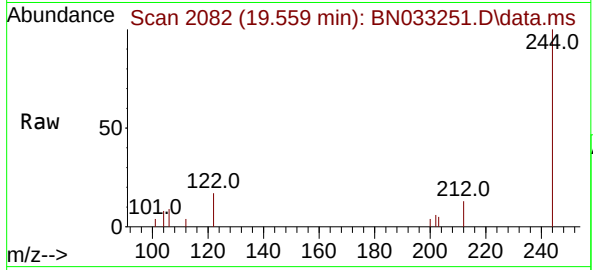
#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.559 min Scan# 2080
Delta R.T. 0.009 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

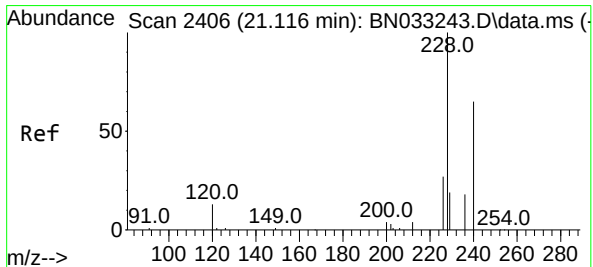
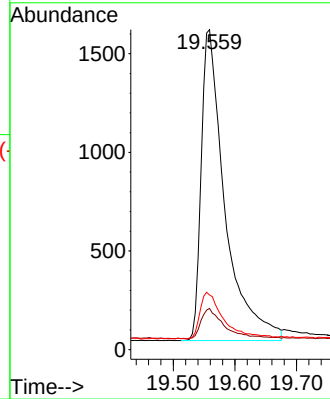
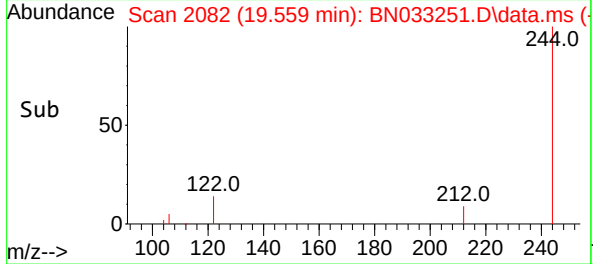


Tgt Ion:244 Resp: 420
Ion Ratio Lower Upper
244 100
212 12.9 9.9 14.9
122 17.1 14.1 21.1

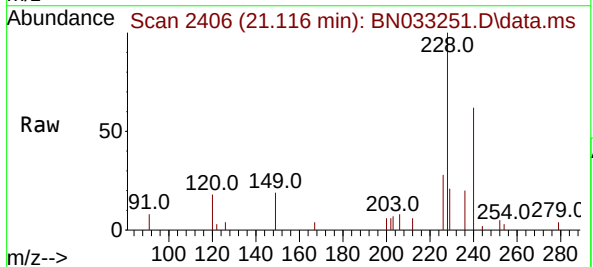
Manual Integrations

APPROVED

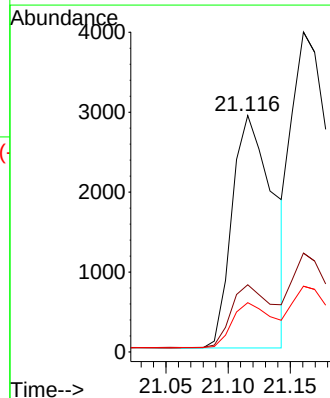
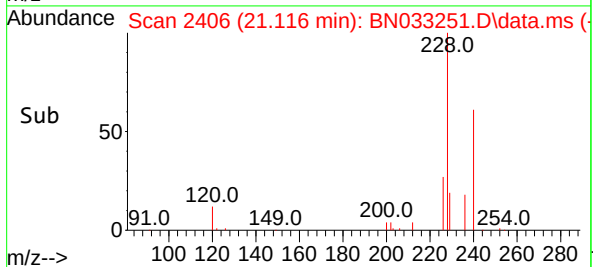
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

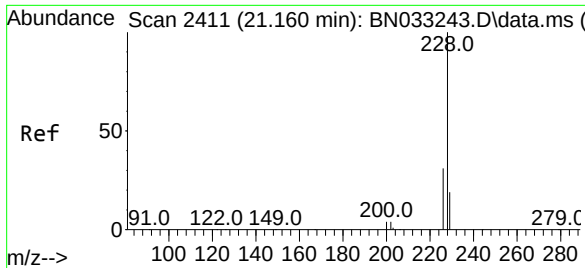


#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28



Tgt Ion:228 Resp: 6720
Ion Ratio Lower Upper
228 100
226 28.4 22.4 33.6
229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.410 ng

RT: 21.161 min Scan# 2411

Delta R.T. 0.001 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

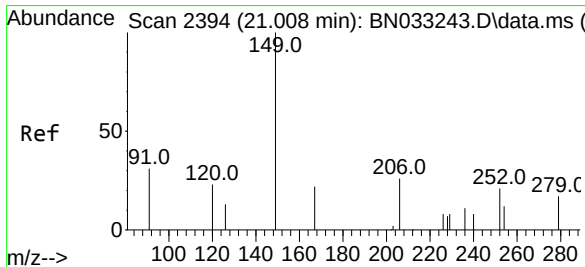
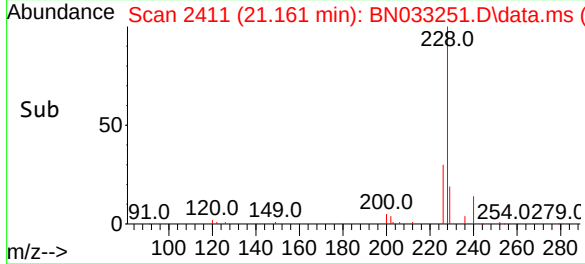
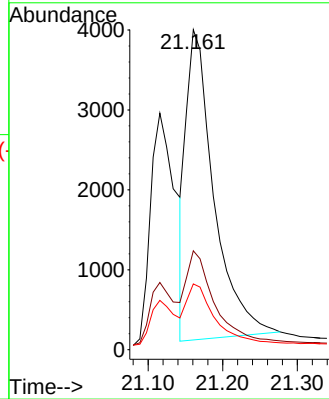
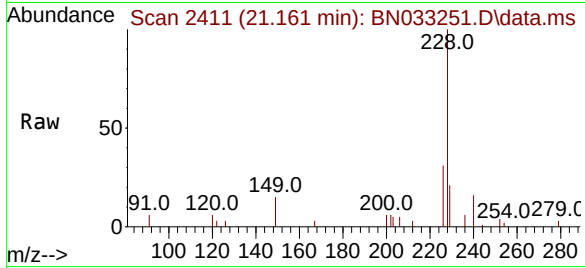
ClientSampleId :

SSTDC00.4

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.1	37.7
229	20.6	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

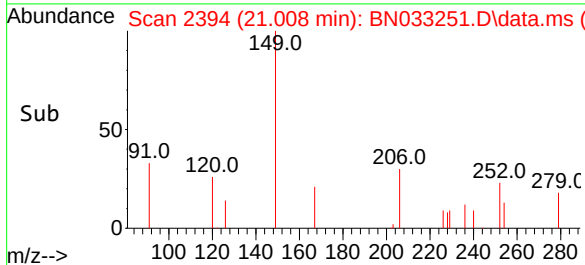
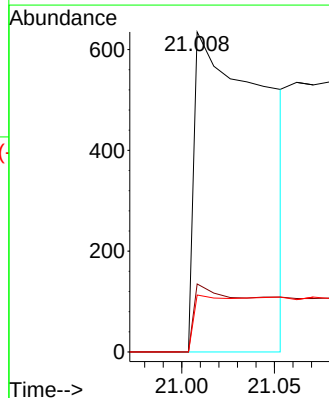
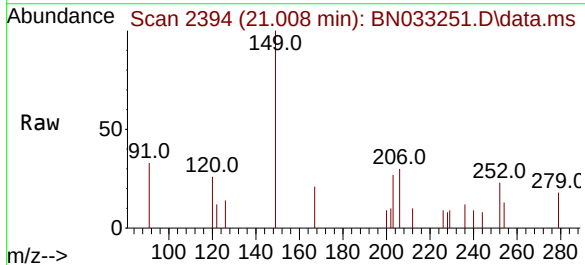
RT: 21.008 min Scan# 2394

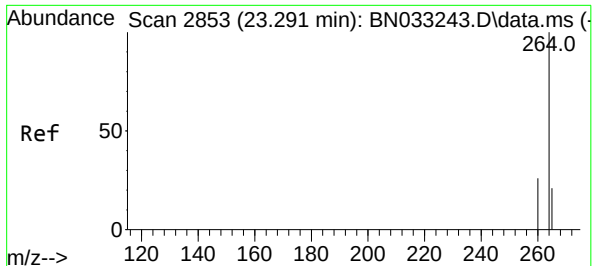
Delta R.T. 0.000 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Tgt Ion	Ratio	Lower	Upper
149	100		
167	13.2	19.8	29.6
279	8.6	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.291 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033251.D

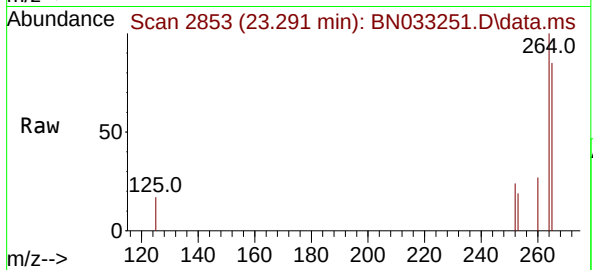
Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 804

Ion Ratio Lower Upper

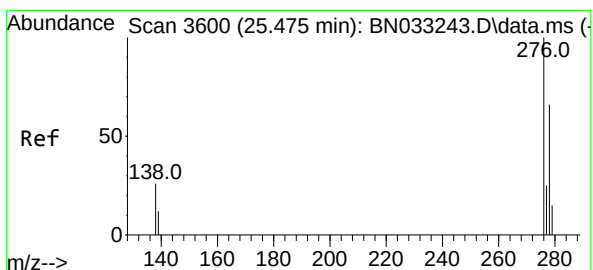
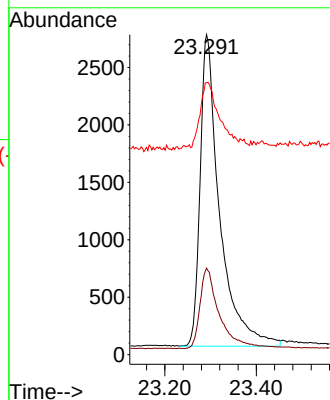
264 100

260 27.0 21.4 32.2

265 85.0 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 0.384 ng

RT: 25.478 min Scan# 3601

Delta R.T. 0.003 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

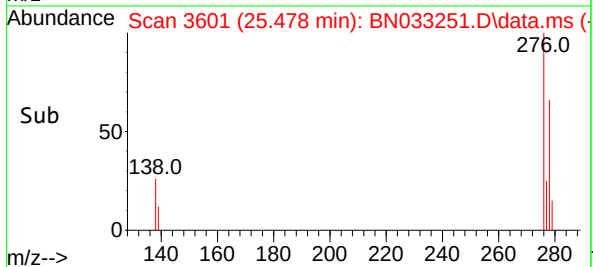
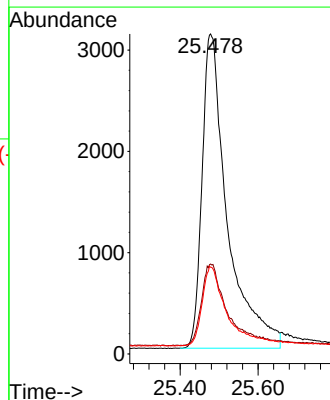
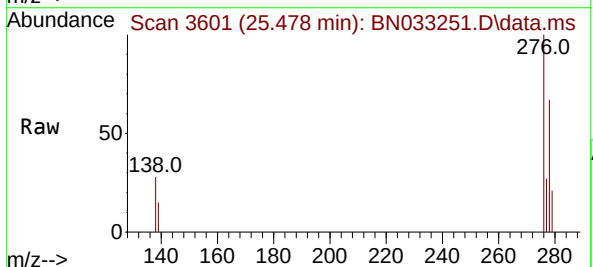
Tgt Ion:276 Resp: 13983

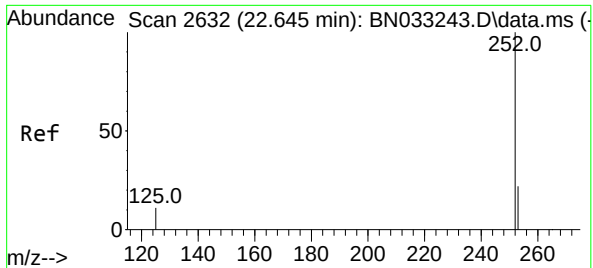
Ion Ratio Lower Upper

276 100

138 25.9 20.4 30.6

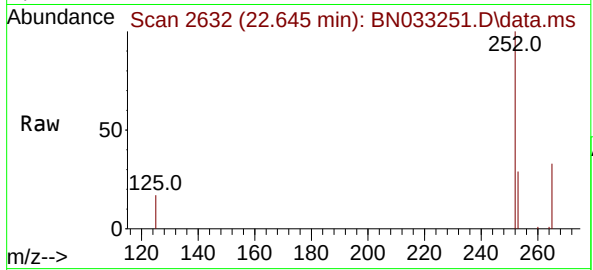
277 25.0 19.9 29.9





#37
Benzo(b)fluoranthene
Concen: 0.368 ng
RT: 22.645 min Scan# 2632
Delta R.T. 0.000 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

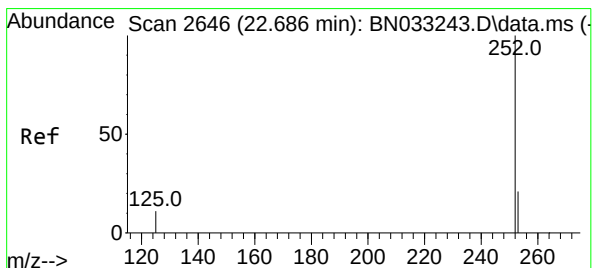
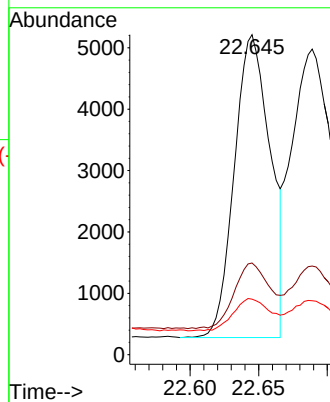
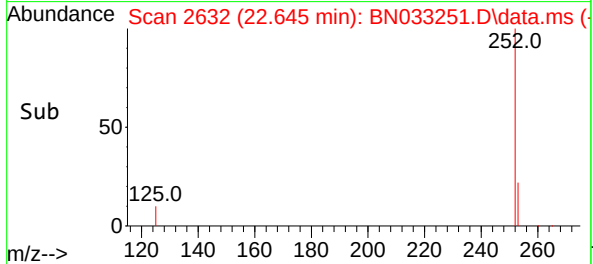
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 897
Ion Ratio Lower Upper
252 100
253 28.7 23.3 34.9
125 17.4 14.6 22.0

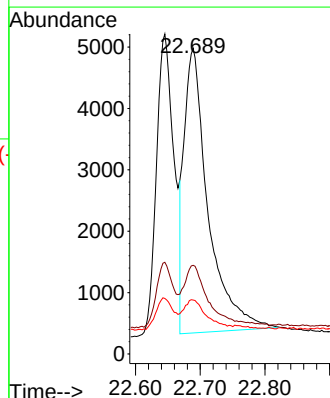
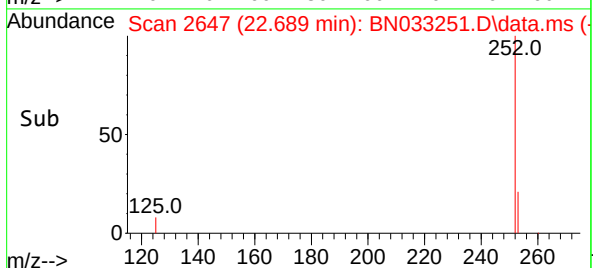
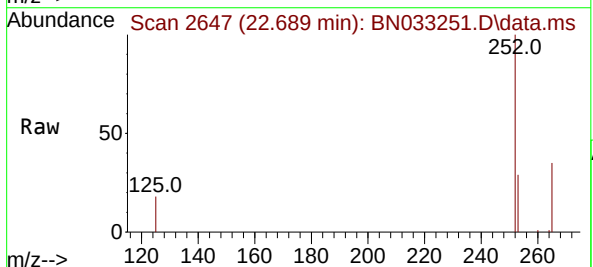
Manual Integrations
APPROVED

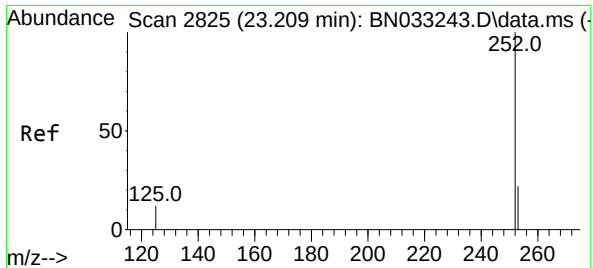
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 22.689 min Scan# 2647
Delta R.T. 0.003 min
Lab File: BN033251.D
Acq: 06 Aug 2024 01:28

Tgt Ion:252 Resp: 11917
Ion Ratio Lower Upper
252 100
253 29.0 23.7 35.5
125 17.7 15.4 23.0





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

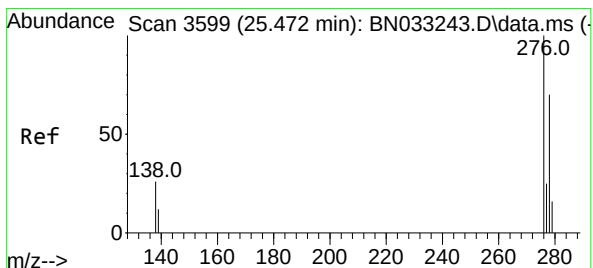
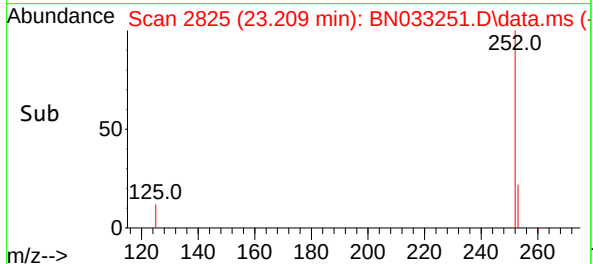
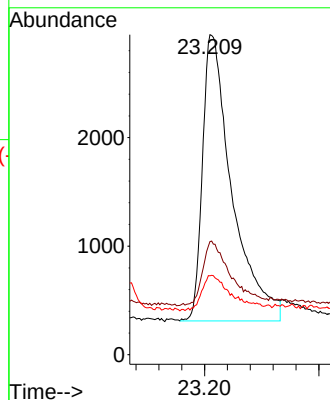
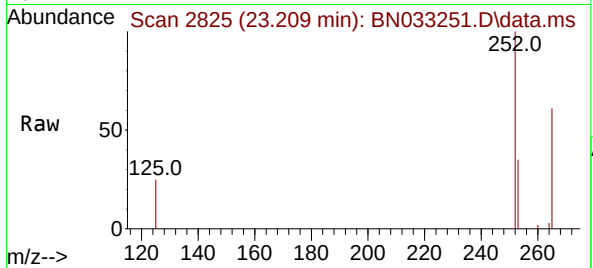
SSTDCCC0.4

Tgt Ion:	252	Resp:	9439
Ion Ratio	Lower	Upper	
252	100		
253	35.3	28.4	42.6
125	24.7	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.386 ng

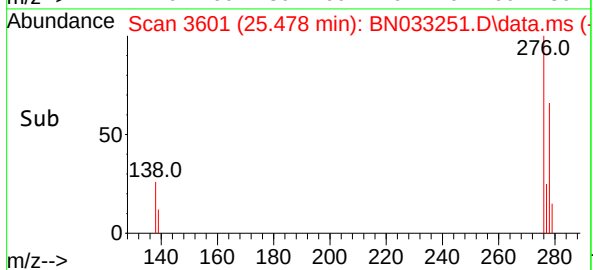
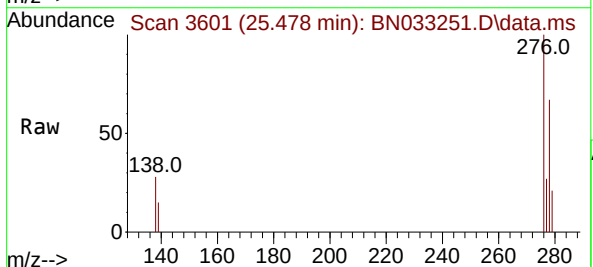
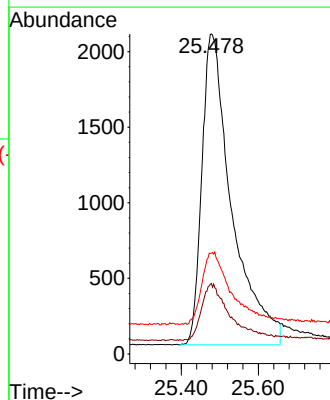
RT: 25.478 min Scan# 3601

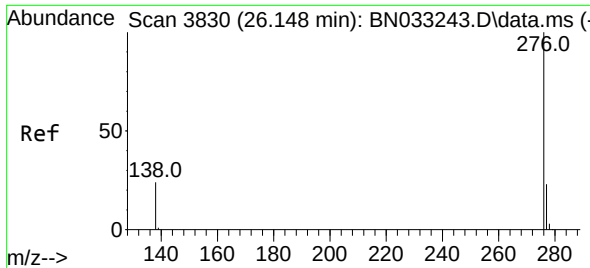
Delta R.T. 0.006 min

Lab File: BN033251.D

Acq: 06 Aug 2024 01:28

Tgt Ion:	278	Resp:	11077
Ion Ratio	Lower	Upper	
278	100		
139	22.0	16.7	25.1
279	31.5	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.145 min Scan# 3829

Delta R.T. -0.003 min

Lab File: BN033251.D

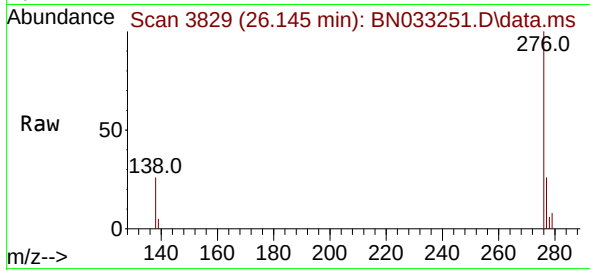
Acq: 06 Aug 2024 01:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 1300

Ion Ratio Lower Upper

276 100

277 26.1 21.0 31.4

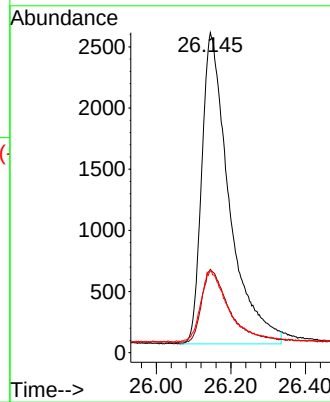
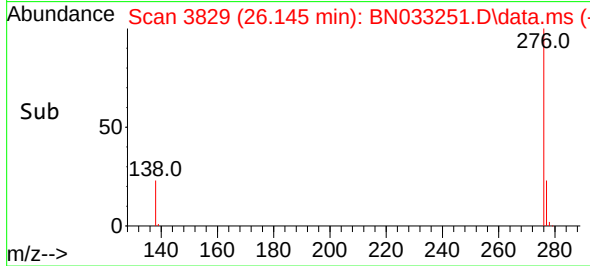
138 25.5 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024

Supervised By :mohammad ahmed 08/07/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033251.D
Acq On : 06 Aug 2024 01:28
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 06 04:32:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2	1,4-Dioxane	0.583	0.629	-7.9	93	0.00
3	n-Nitrosodimethylamine	0.488	0.492	-0.8	104	0.01
4 S	2-Fluorophenol	0.991	1.074	-8.4	88	0.09
5 S	Phenol-d6	1.361	1.349	0.9	85	0.00
6	bis(2-Chloroethyl)ether	1.147	1.706	-48.7#	128	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	89	0.02
8 S	Nitrobenzene-d5	0.322	0.305	5.3	100	0.01
9	Naphthalene	1.087	1.152	-6.0	98	0.00
10	Hexachlorobutadiene	0.202	0.218	-7.9	97	0.00
11 SURR	2-Methylnaphthalene-d10	0.593	0.588	0.8	90	0.02
12	2-Methylnaphthalene	0.648	0.599	7.6	96	0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	93	0.01
14 S	2,4,6-Tribromophenol	0.149	0.141	5.4	99	0.00
15 S	2-Fluorobiphenyl	1.368	1.384	-1.2	99	0.01
16	Acenaphthylene	1.596	1.498	6.1	94	0.00
17	Acenaphthene	1.152	1.180	-2.4	98	0.00
18	Fluorene	1.559	1.587	-1.8	100	0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.052	0.032	38.5#	88	0.03
21	4-Bromophenyl-phenylether	0.212	0.206	2.8	97	0.00
22	Hexachlorobenzene	0.222	0.223	-0.5	101	0.00
23	Atrazine	0.200	0.183	8.5	96	0.01
24	Pentachlorophenol	0.074	0.060	18.9	85	0.01
25	Phenanthrene	1.076	1.025	4.7	100	0.00
26	Anthracene	0.902	0.790	12.4	93	0.01
27 SURR	Fluoranthene-d10	1.119	1.134	-1.3	102	0.00
28	Fluoranthene	1.476	1.469	0.5	101	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.398	1.367	2.2	102	0.00
31 S	Terphenyl-d14	0.691	0.665	3.8	99	0.00
32	Benzo(a)anthracene	1.152	1.062	7.8	94	0.00
33	Chrysene	1.547	1.585	-2.5	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.277	0.244	11.9	108	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	1.808	1.738	3.9	99	0.00
37	Benzo(b)fluoranthene	1.213	1.116	8.0	98	0.00
38	Benzo(k)fluoranthene	1.518	1.481	2.4	102	0.00
39 C	Benzo(a)pyrene	1.218	1.173	3.7	102	0.00
40	Dibenzo(a,h)anthracene	1.428	1.377	3.6	99	0.00
41	Benzo(g,h,i)perylene	1.636	1.616	1.2	98	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033251.D
Acq On : 06 Aug 2024 01:28
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 06 04:32:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	90	0.00
2	1,4-Dioxane	0.400	0.332	17.0	93	0.00
3	n-Nitrosodimethylamine	0.400	0.403	-0.8	104	0.01
4 S	2-Fluorophenol	0.400	0.434	-8.5	88	0.09
5 S	Phenol-d6	0.400	0.396	1.0	85	0.00
6	bis(2-Chloroethyl)ether	0.400	0.595	-48.7#	128	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	89	0.02
8 S	Nitrobenzene-d5	0.400	0.379	5.3	100	0.01
9	Naphthalene	0.400	0.424	-6.0	98	0.00
10	Hexachlorobutadiene	0.400	0.433	-8.2	97	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.396	1.0	90	0.02
12	2-Methylnaphthalene	0.400	0.370	7.5	96	0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	93	0.01
14 S	2,4,6-Tribromophenol	0.400	0.379	5.3	99	0.00
15 S	2-Fluorobiphenyl	0.400	0.404	-1.0	99	0.01
16	Acenaphthylene	0.400	0.376	6.0	94	0.00
17	Acenaphthene	0.400	0.410	-2.5	98	0.00
18	Fluorene	0.400	0.407	-1.7	100	0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.418	-4.5	88	0.03
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	97	0.00
22	Hexachlorobenzene	0.400	0.402	-0.5	101	0.00
23	Atrazine	0.400	0.366	8.5	96	0.01
24	Pentachlorophenol	0.400	0.324	19.0	85	0.01
25	Phenanthrene	0.400	0.381	4.8	100	0.00
26	Anthracene	0.400	0.350	12.5	93	0.01
27 SURR	Fluoranthene-d10	0.400	0.405	-1.3	102	0.00
28	Fluoranthene	0.400	0.398	0.5	101	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.391	2.3	102	0.00
31 S	Terphenyl-d14	0.400	0.385	3.8	99	0.00
32	Benzo(a)anthracene	0.400	0.369	7.8	94	0.00
33	Chrysene	0.400	0.410	-2.5	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	108	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.384	4.0	99	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	98	0.00
38	Benzo(k)fluoranthene	0.400	0.390	2.5	102	0.00
39 C	Benzo(a)pyrene	0.400	0.385	3.8	102	0.00
40	Dibenzo(a,h)anthracene	0.400	0.386	3.5	99	0.00
41	Benzo(g,h,i)perylene	0.400	0.395	1.3	98	0.00

(#) = Out of Range

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



QC SAMPLE DATA

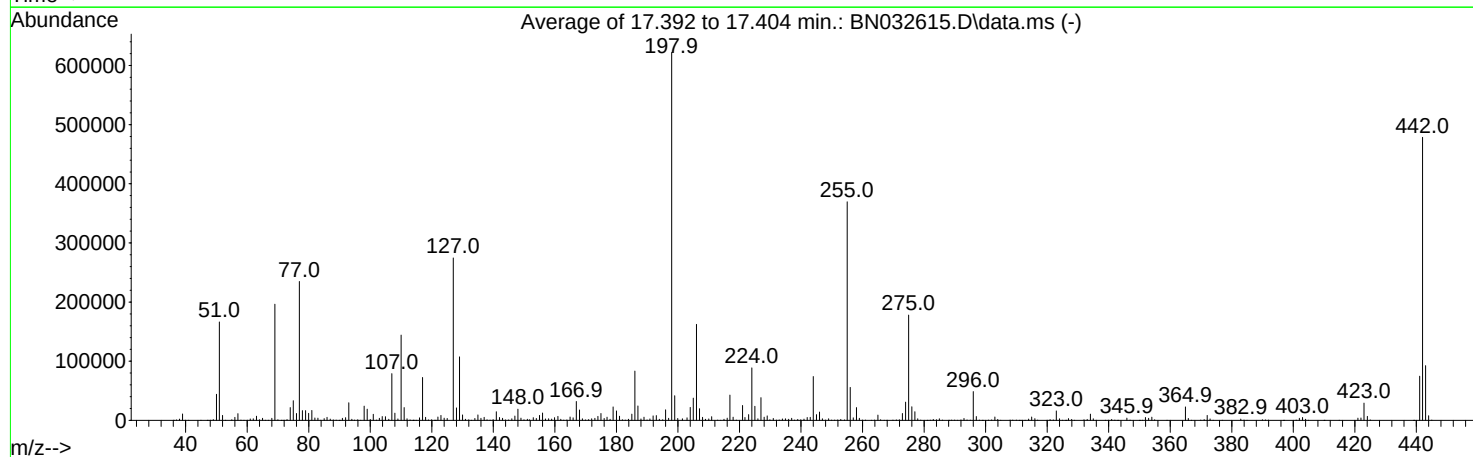
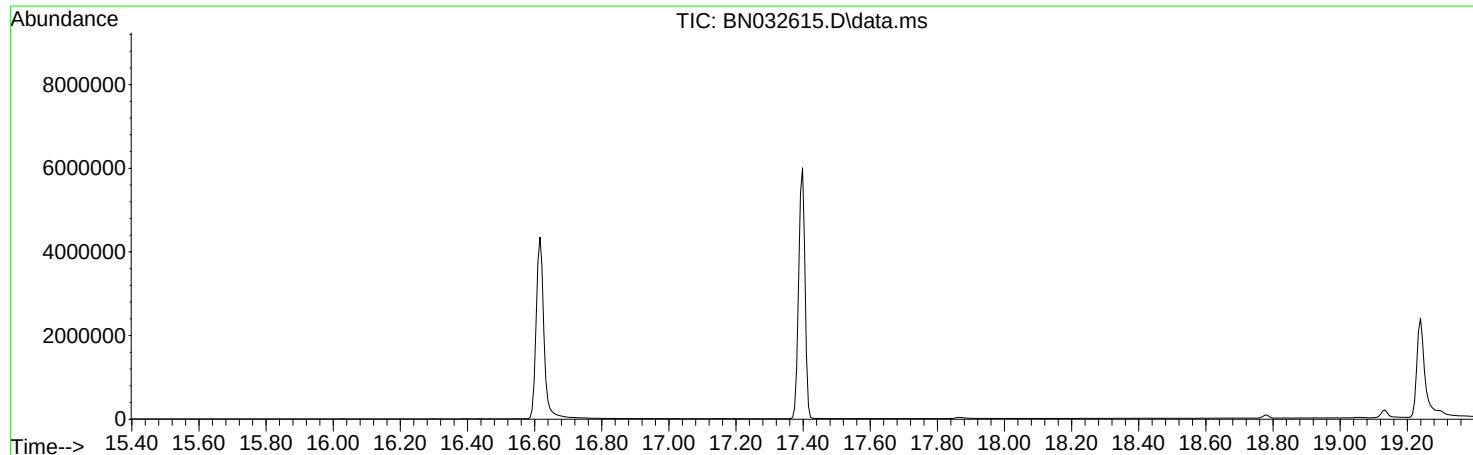
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032615.D
Acq On : 10 Jul 2024 15:03
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 10 23:45:48 2024



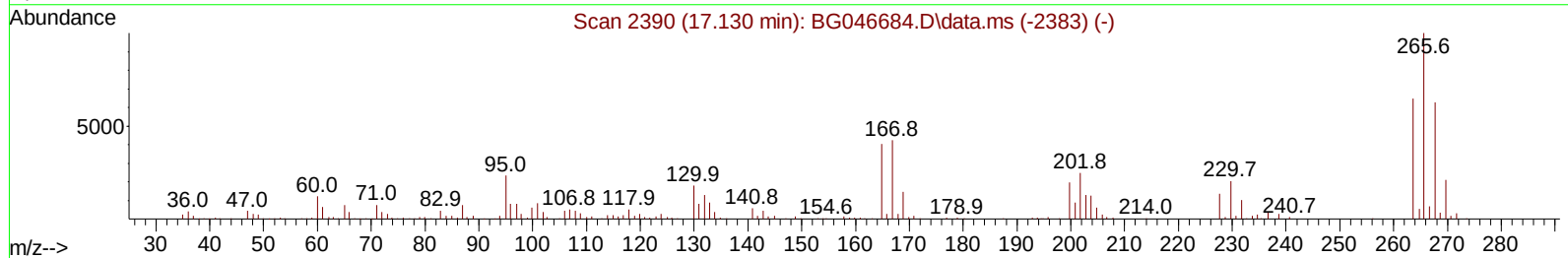
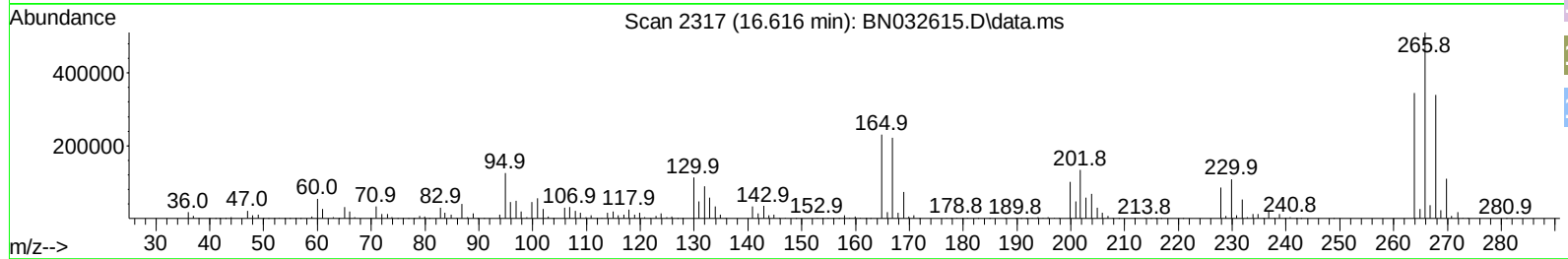
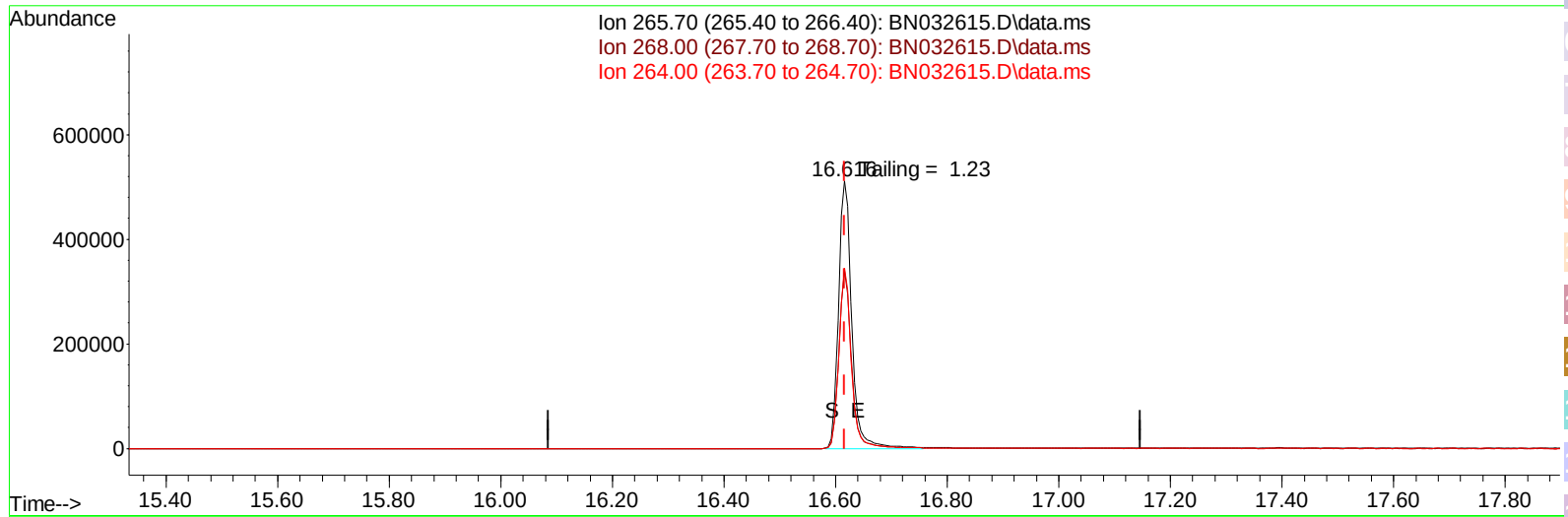
AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2441

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.7	166320	PASS
68	69	0.00	2	1.8	3465	PASS
69	198	0.00	100	31.6	196373	PASS
70	69	0.00	2	0.5	1066	PASS
127	198	10	80	44.1	274496	PASS
197	198	0.00	2	0.6	3484	PASS
198	198	100	100	100.0	621973	PASS
199	198	5	9	6.7	41595	PASS
275	198	10	60	28.6	178155	PASS
365	198	1	100	3.6	22635	PASS
441	198	0.01	100	12.0	74808	PASS
442	442	50	100	100.0	478507	PASS
443	442	15	24	19.3	92581	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032615.D
Acq On : 10 Jul 2024 15:03
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 11 03:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 11 03:07:33 2024
Response via : Initial Calibration



TIC: BN032615.D\data.ms

(70) Pentachlorophenol (C)**16.616min (0.000) 28100.93 ng****response 854109**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.51
264.00	61.60	67.53
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

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Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

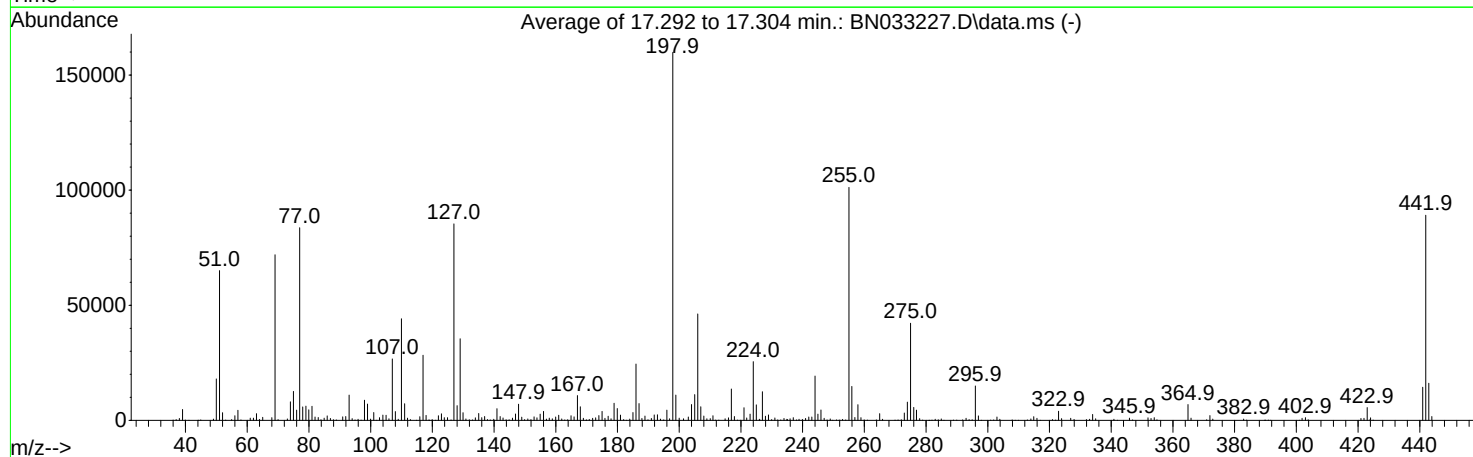
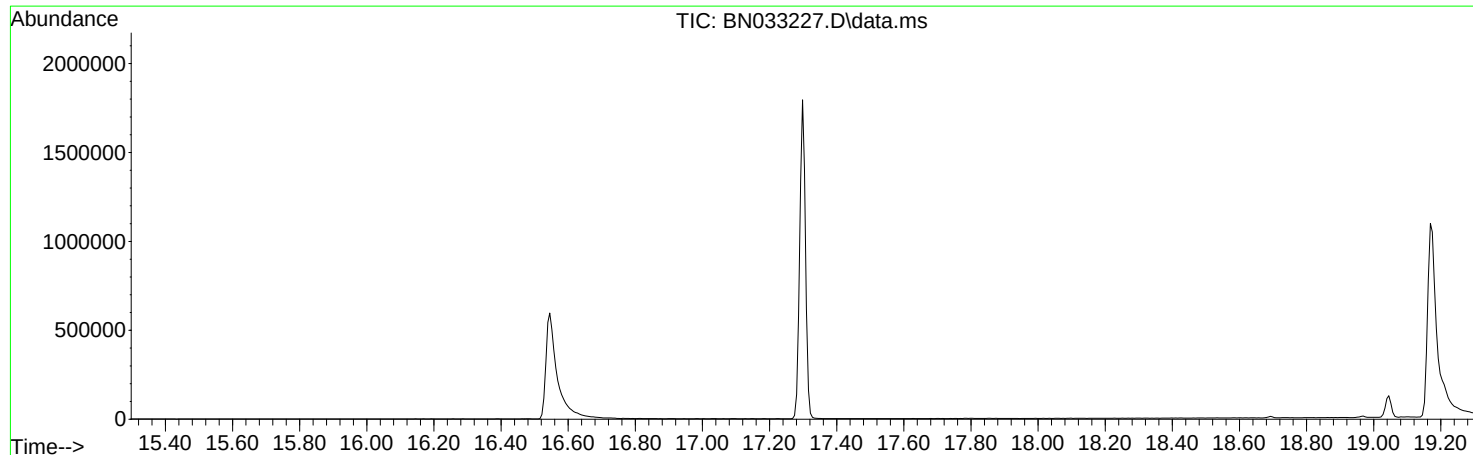
Date	Instrument Name	DFTPP Data File
7/11/2024	BNA_N	<u>BN032615.D</u>
Compound Name	Response	Retention Time
DDT	2244369	20.463
DDD	25705	20.069
DDE	645	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
26350	2270719	1.16

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 02 22:49:47 2024



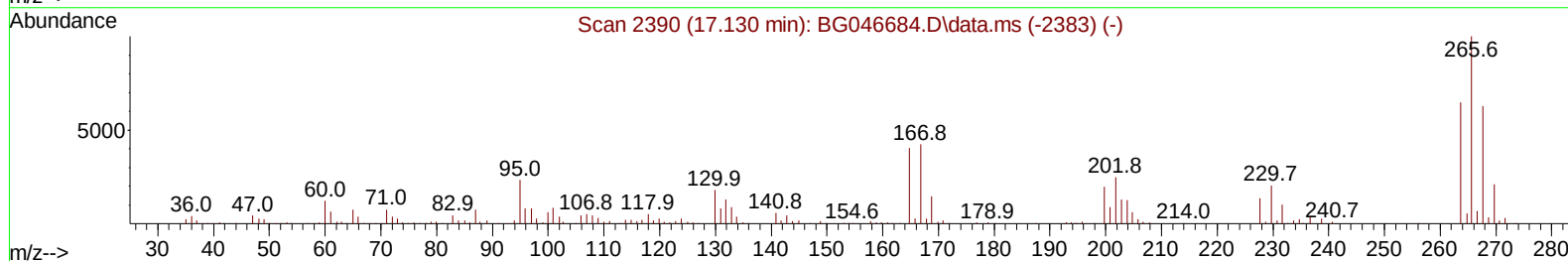
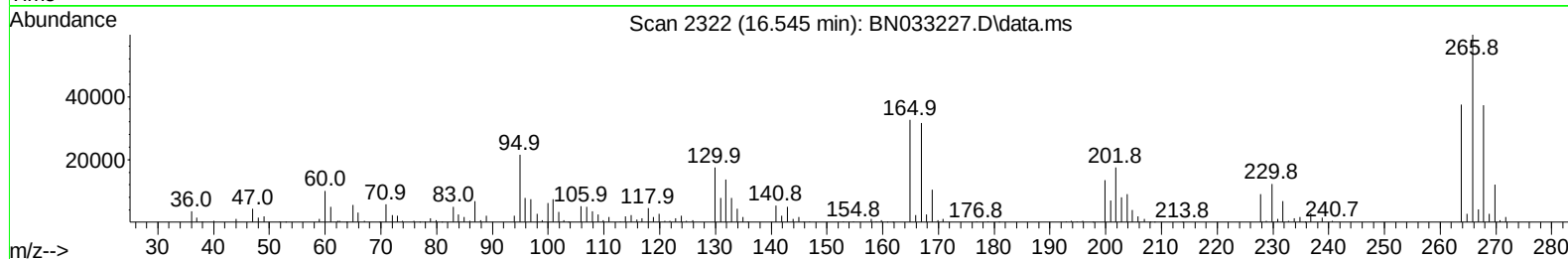
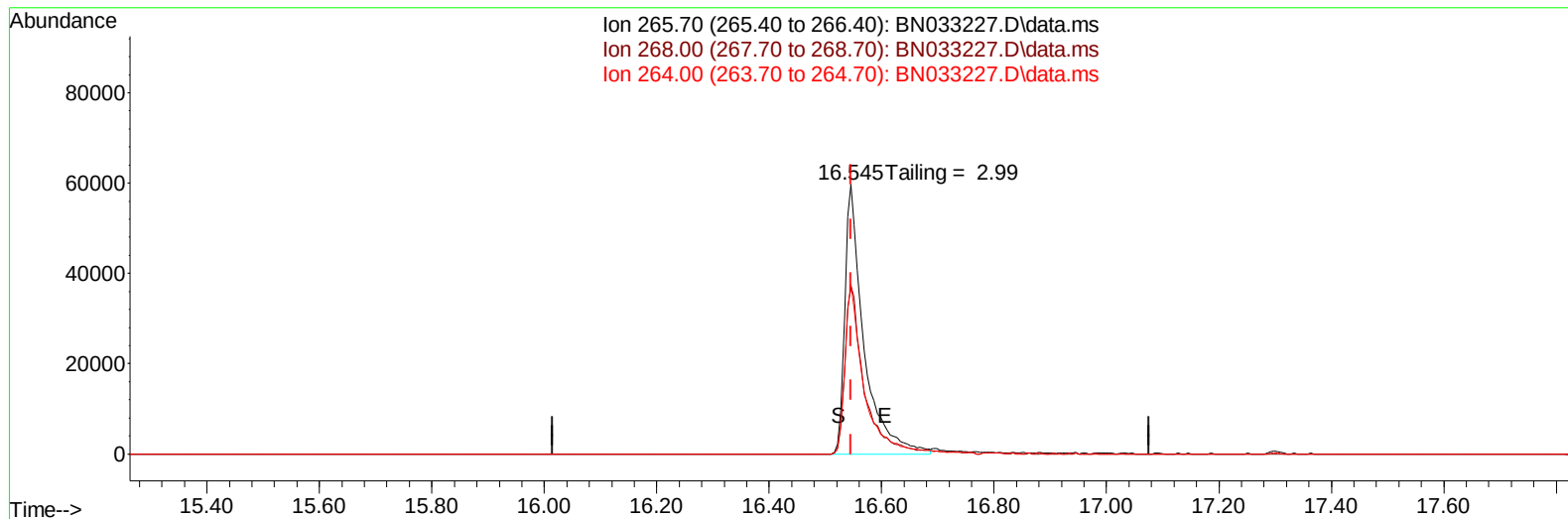
AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2442

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.7	65075	PASS
68	69	0.00	2	1.7	1203	PASS
69	198	0.00	100	45.0	71917	PASS
70	69	0.00	2	0.5	343	PASS
127	198	10	80	53.4	85360	PASS
197	198	0.00	2	0.4	710	PASS
198	198	100	100	100.0	159787	PASS
199	198	5	9	6.9	11013	PASS
275	198	10	60	26.4	42229	PASS
365	198	1	100	4.3	6906	PASS
441	198	0.01	100	9.0	14409	PASS
442	442	50	100	100.0	89128	PASS
443	442	15	24	18.1	16097	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 08:08:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 08:08:34 2024
Response via : Initial Calibration



TIC: BN033227.D\data.ms

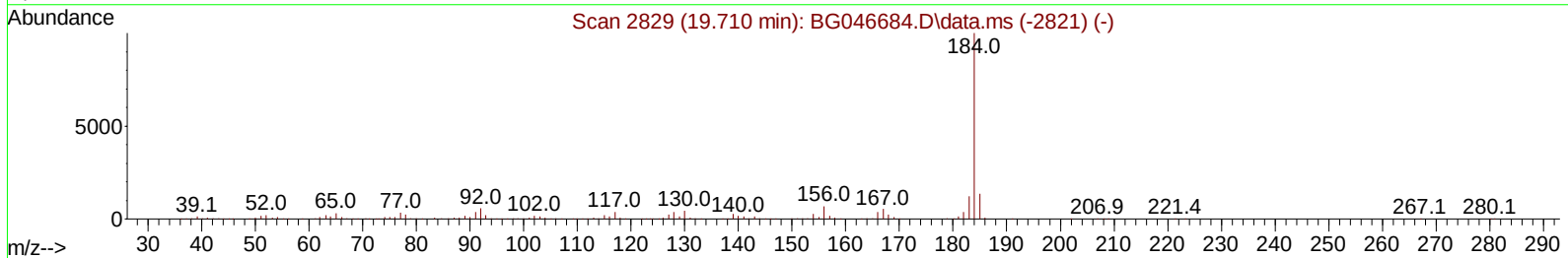
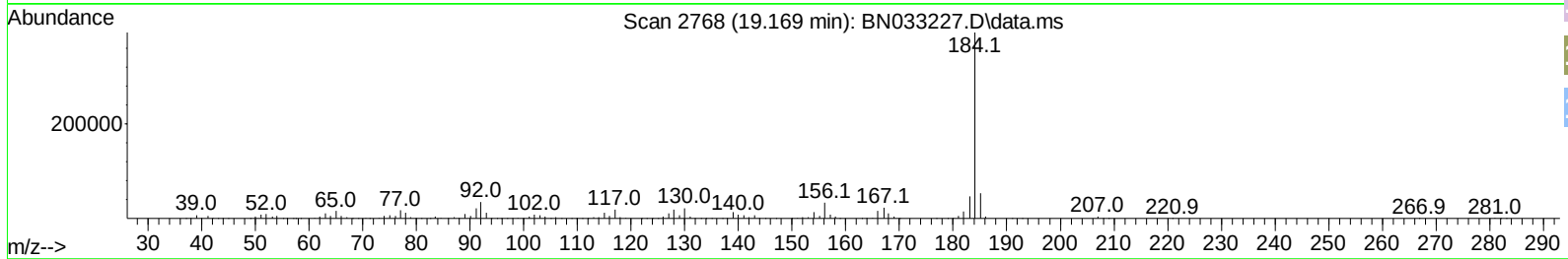
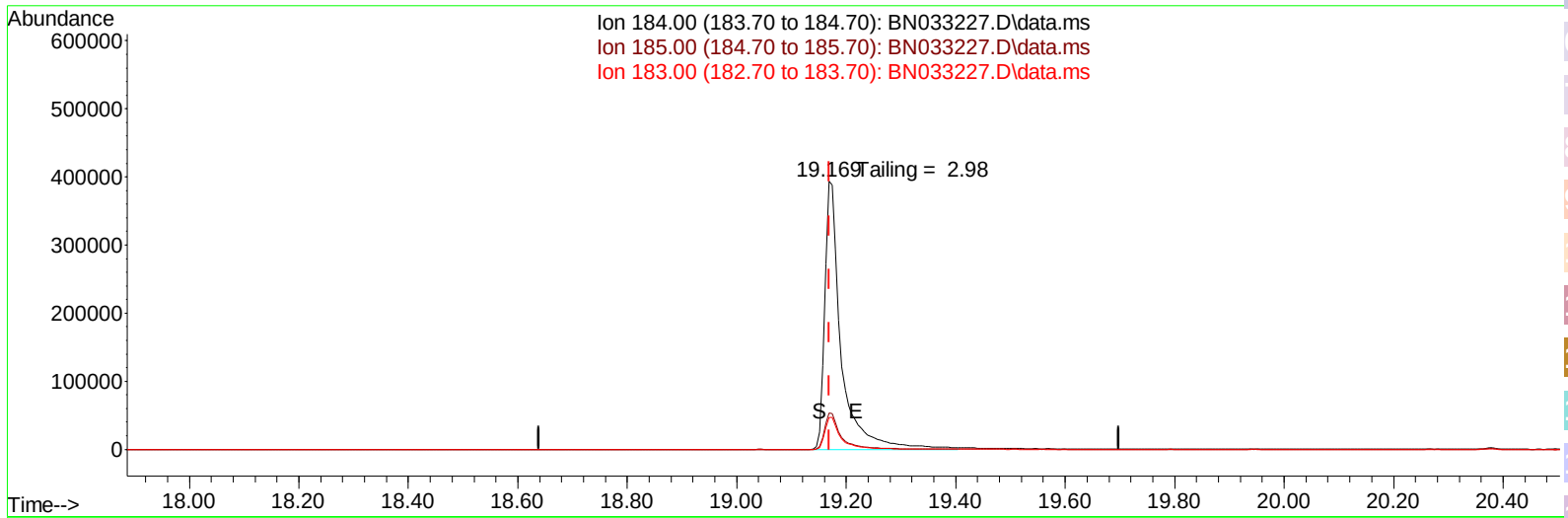
(70) Pentachlorophenol (C)**16.545min (0.000) 16263.43 ng****response 140905**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.48
264.00	61.60	62.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 08:08:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 08:08:34 2024
Response via : Initial Calibration



TIC: BN033227.D\data.ms

(77) Benzidine

19.169min (0.000) 0.00 ng

response 845092

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.69
183.00	13.20	11.93
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

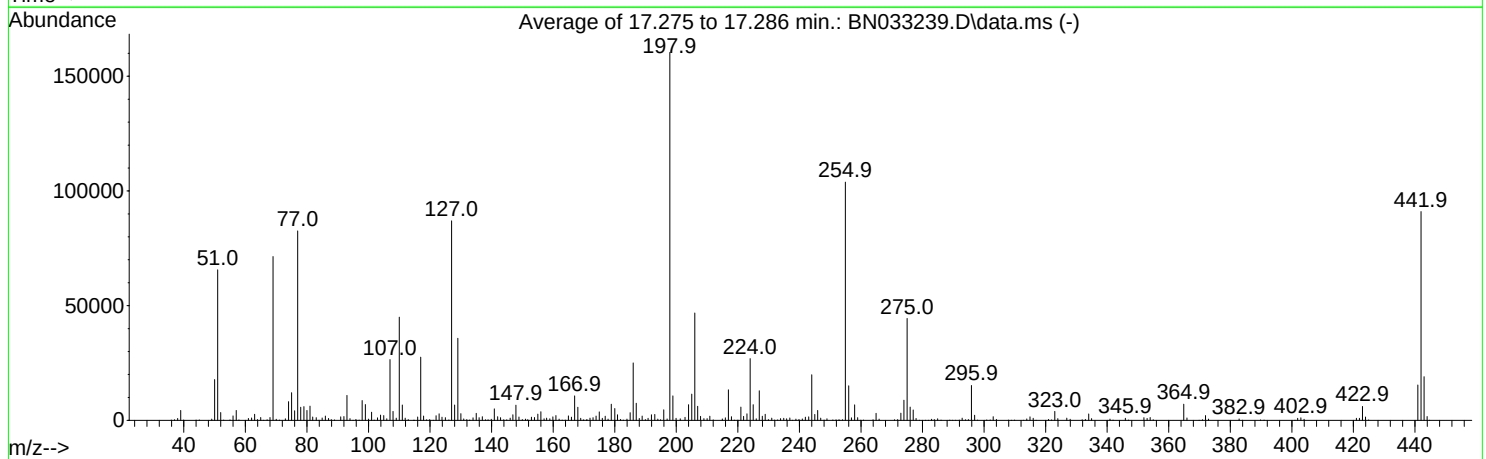
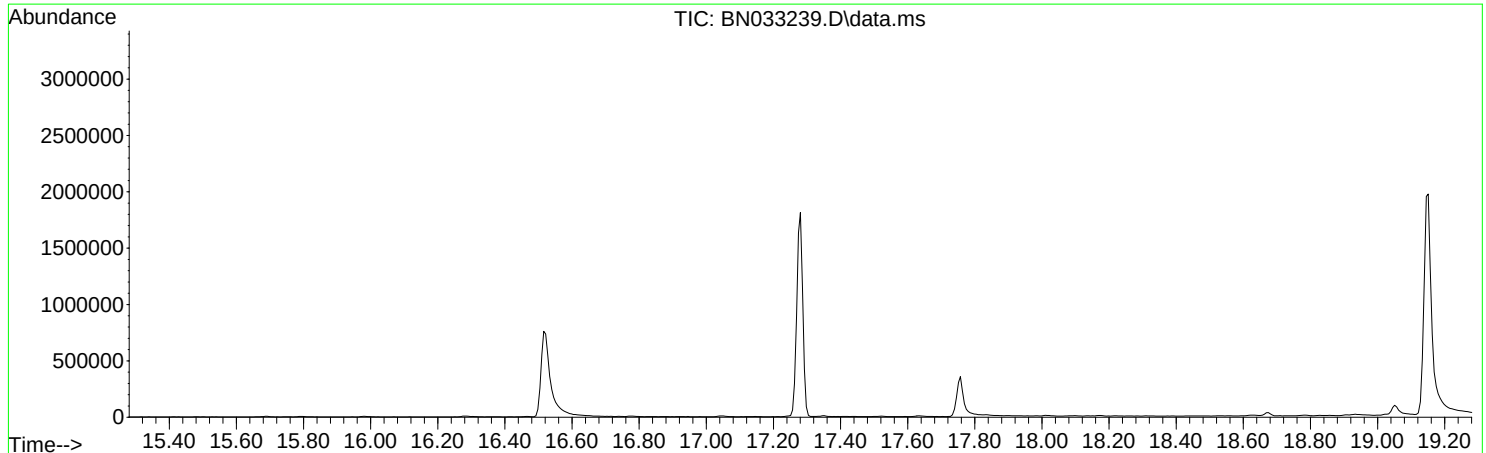
Date	Instrument Name	DFTPP Data File
8/3/2024	BNA_N	<u>BN033227.D</u>
Compound Name	Response	Retention Time
DDT	447194	20.38
DDD	59146	19.945
DDE	2418	19.427
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
61564	508758	12.10

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033239.D
Acq On : 05 Aug 2024 16:11
Operator : MA/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-BN080524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 05 23:57:48 2024



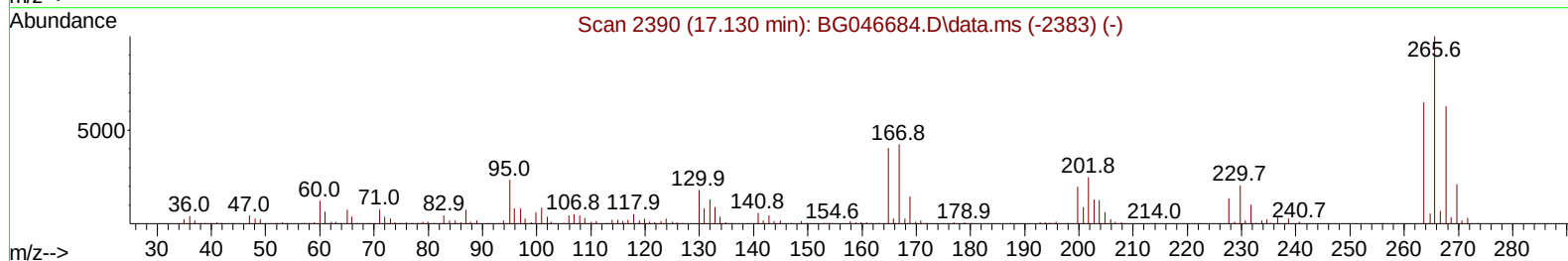
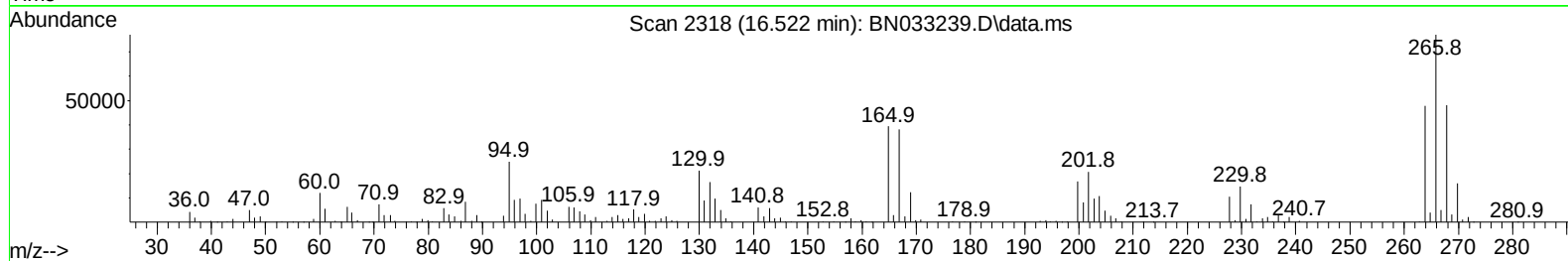
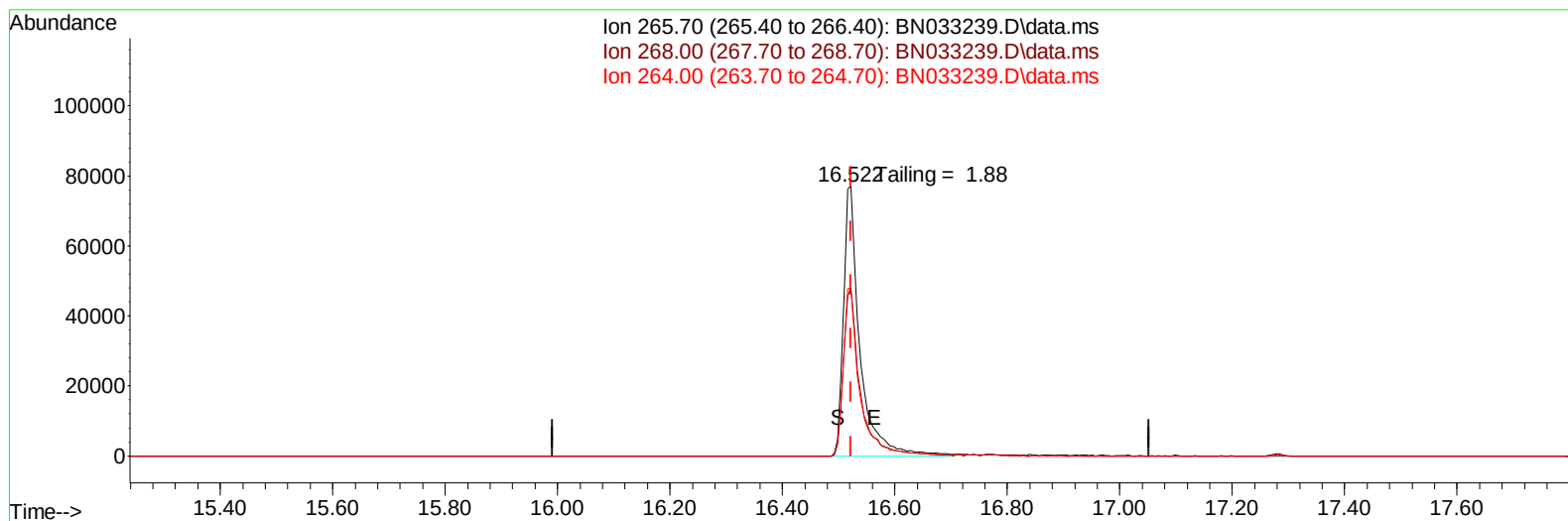
AutoFind: Scans 2446, 2447, 2448; Background Corrected with Scan 2439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.9	65632	PASS
68	69	0.00	2	1.7	1232	PASS
69	198	0.00	100	44.6	71440	PASS
70	69	0.00	2	0.7	498	PASS
127	198	10	80	54.2	86973	PASS
197	198	0.00	2	0.4	626	PASS
198	198	100	100	100.0	160352	PASS
199	198	5	9	6.6	10651	PASS
275	198	10	60	27.7	44424	PASS
365	198	1	100	4.4	7070	PASS
441	198	0.01	100	9.6	15393	PASS
442	442	50	100	100.0	91032	PASS
443	442	15	24	20.9	19047	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033239.D
Acq On : 05 Aug 2024 16:11
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 08:54:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 06 08:54:36 2024
Response via : Initial Calibration



TIC: BN033239.D\data.ms

(70) Pentachlorophenol (C)**16.522min (0.000) 16240.58 ng****response 159315**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.36
264.00	61.60	62.10
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

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Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

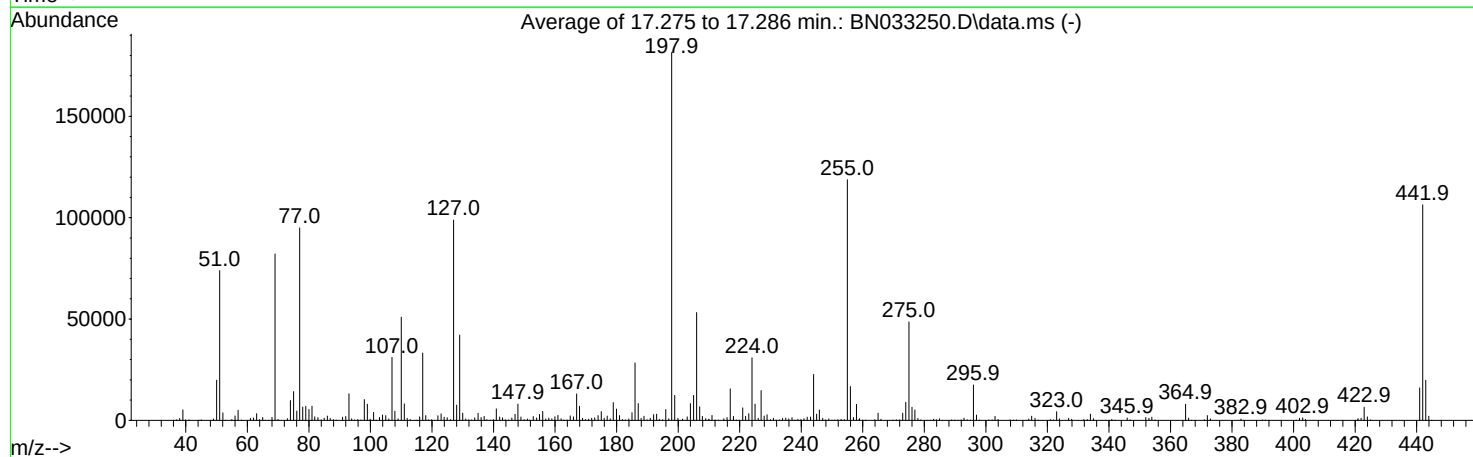
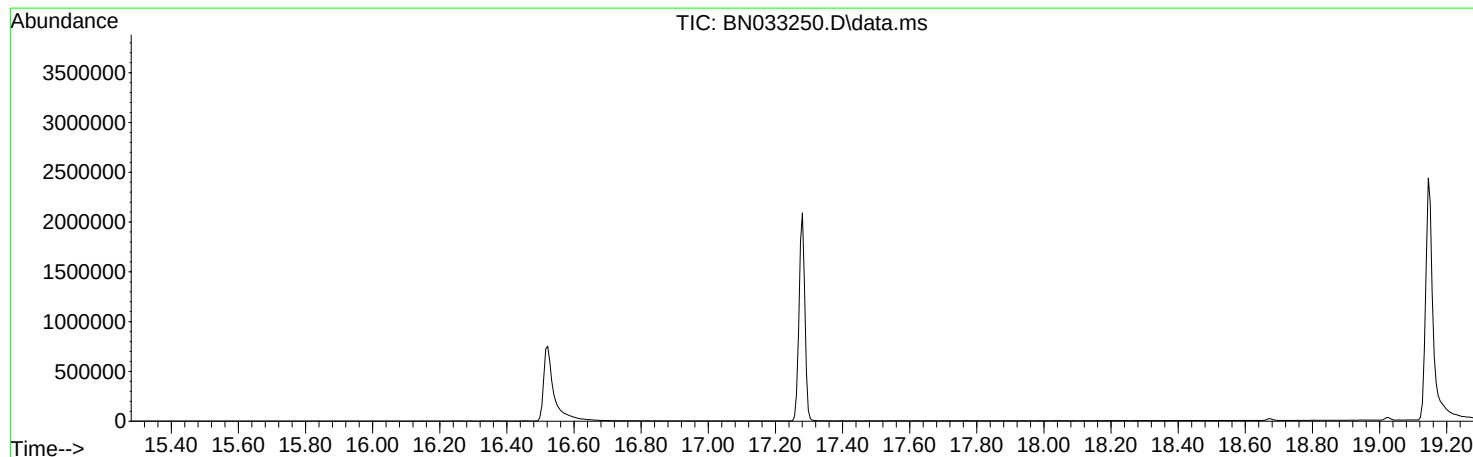
Date	Instrument Name	DFTPP Data File
8/5/2024	BNA_N	<u>BN033239.D</u>
Compound Name	Response	Retention Time
DDT	675064	20.363
DDD	9359	19.963
DDE	813	19.416
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10172	685236	1.48

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033250.D
Acq On : 06 Aug 2024 00:48
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 05 23:57:48 2024



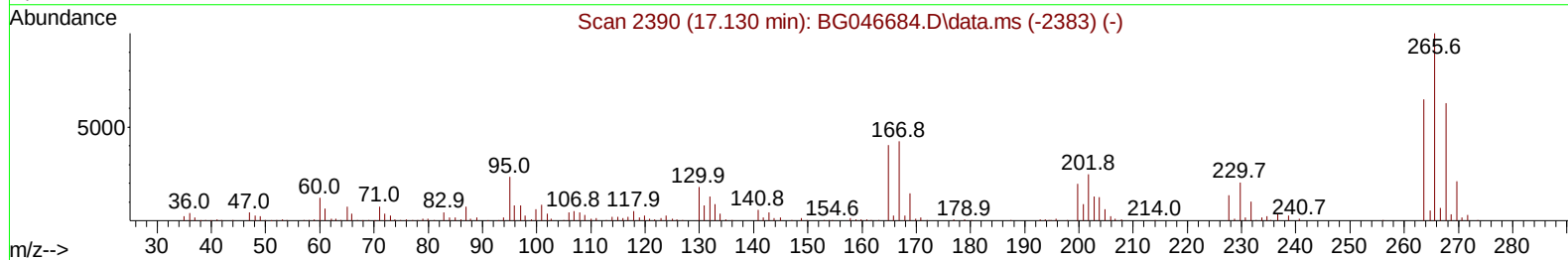
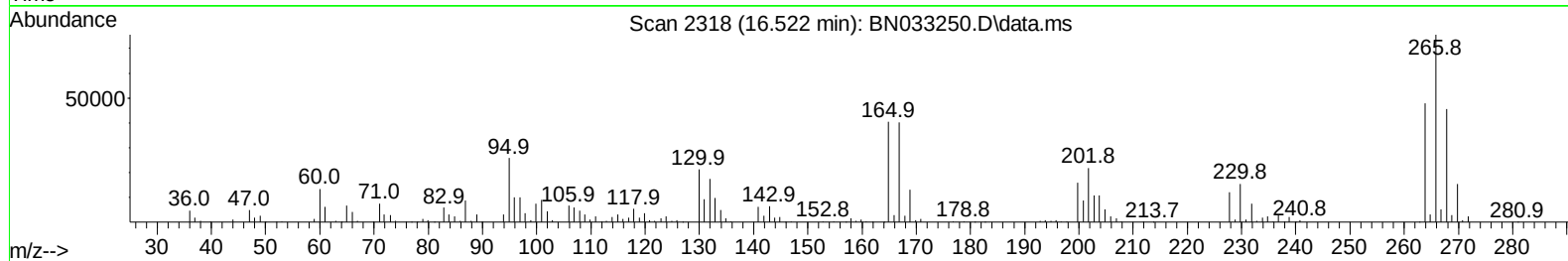
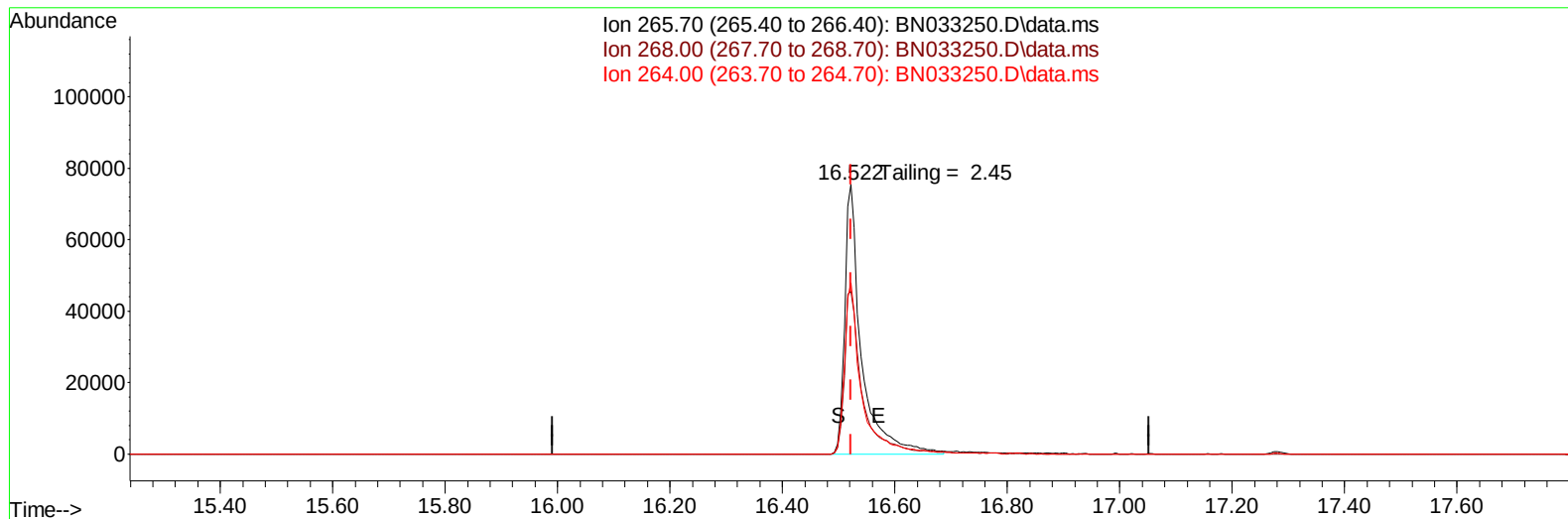
AutoFind: Scans 2446, 2447, 2448; Background Corrected with Scan 2439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.7	73899	PASS
68	69	0.00	2	1.8	1507	PASS
69	198	0.00	100	45.2	82088	PASS
70	69	0.00	2	0.6	473	PASS
127	198	10	80	54.4	98813	PASS
197	198	0.00	2	0.4	766	PASS
198	198	100	100	100.0	181483	PASS
199	198	5	9	6.8	12280	PASS
275	198	10	60	26.7	48523	PASS
365	198	1	100	4.4	7971	PASS
441	198	0.01	100	8.8	16046	PASS
442	442	50	100	100.0	106331	PASS
443	442	15	24	18.7	19845	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033250.D
Acq On : 06 Aug 2024 00:48
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 08:56:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 06 08:54:36 2024
Response via : Initial Calibration



TIC: BN033250.D\data.ms

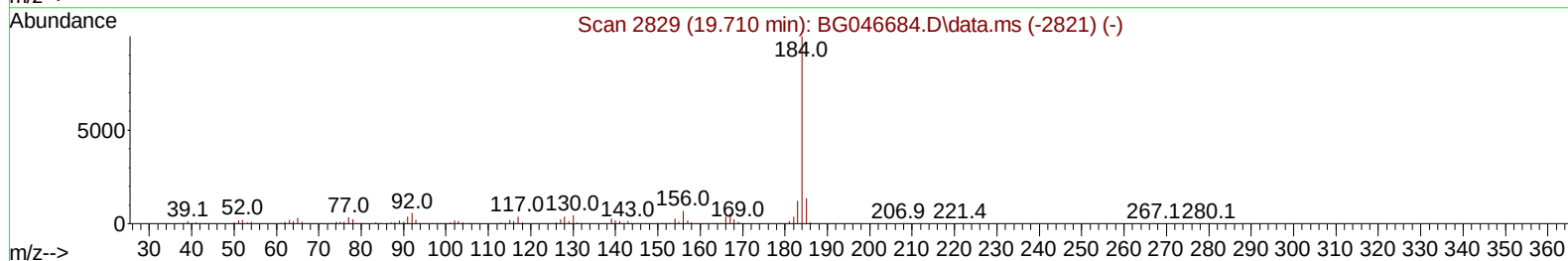
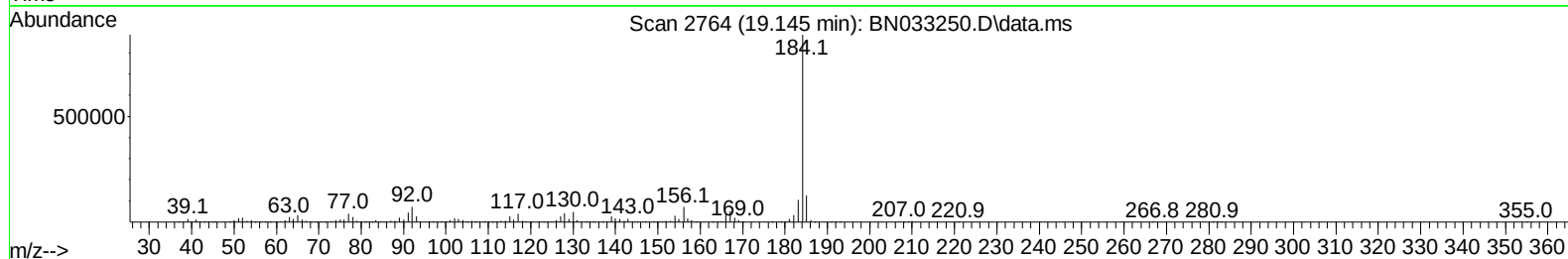
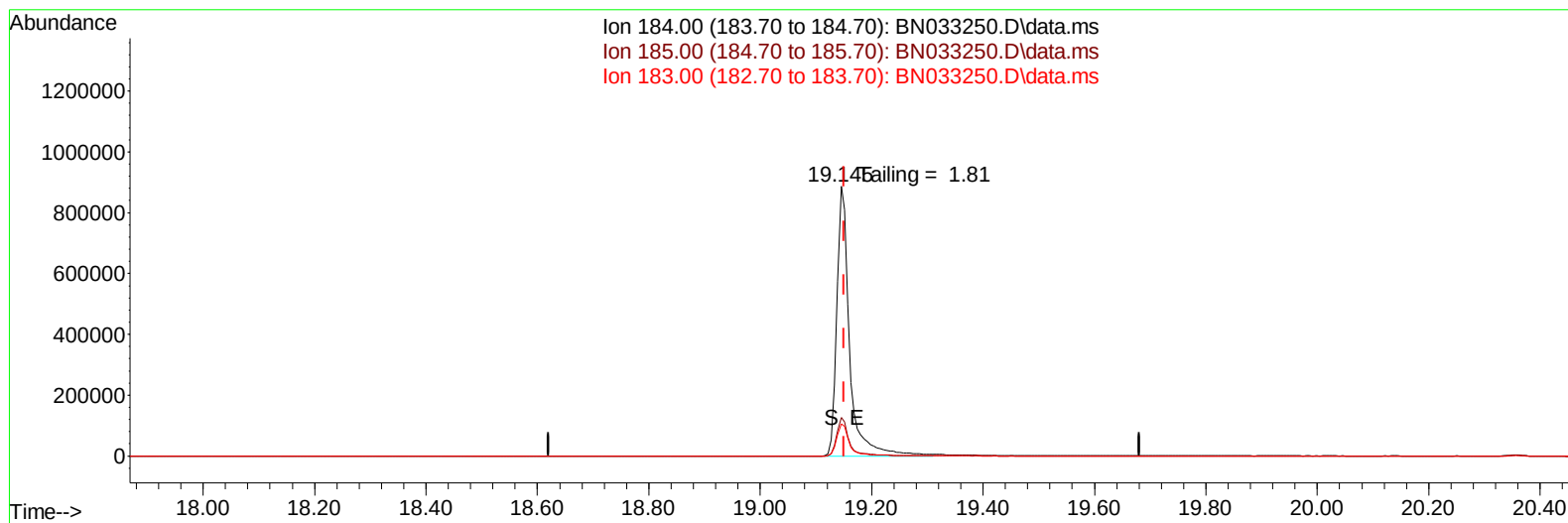
(70) Pentachlorophenol (C)**16.522min (-0.000) 13670.53 ng****response 157384**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.27
264.00	61.60	63.51
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033250.D
Acq On : 06 Aug 2024 00:48
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 08:56:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 06 08:54:36 2024
Response via : Initial Calibration



TIC: BN033250.D\data.ms

(77) Benzidine

19.145min (-0.006) 0.00 ng

response 1435972

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.23
183.00	13.20	11.97
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/5/2024	BNA_N	<u>BN033250.D</u>
Compound Name	Response	Retention Time
DDT	750394	20.357
DDD	8802	19.963
DDE	807	19.41
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9609	760003	1.26

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162464BL	SDG No.:	P3440
Lab Sample ID:	PB162464BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033252.D	1	08/02/24 09:25	08/06/24 02:04	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 (30) - 150 (150)	84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		30 (11) - 130 (175)	98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (10) - 130 (175)	87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		30 (54) - 130 (171)	105%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1310	7.625			
1146-65-2	Naphthalene-d8	4120	10.511			
15067-26-2	Acenaphthene-d10	2380	14.211			
1517-22-2	Phenanthrene-d10	5710	17.007			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162464BL	SDG No.:	P3440
Lab Sample ID:	PB162464BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033252.D	1	08/02/24 09:25	08/06/24 02:04	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	6780	21.16			
1520-96-3	Perylene-d12	7730	23.317			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
Data File : BN033252.D
Acq On : 06 Aug 2024 02:04
Operator : MA/JU
Sample : PB162464BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162464BL

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 06 04:32:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1306m	0.400	ng	0.12
7) Naphthalene-d8	10.511	136	4124m	0.400	ng	0.19
13) Acenaphthene-d10	14.211	164	2380m	0.400	ng	0.09
19) Phenanthrene-d10	17.007	188	5709m	0.400	ng	0.09
29) Chrysene-d12	21.160	240	6775	0.400	ng	# 0.04
35) Perylene-d12	23.317	264	7732	0.400	ng	# 0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.293	112	1354m	0.419	ng	0.00
5) Phenol-d6	7.243	99	1473m	0.331	ng	0.25
8) Nitrobenzene-d5	9.187	82	1299m	0.392	ng	0.27
11) 2-Methylnaphthalene-d10	12.109	152	2054m	0.336	ng	0.18
14) 2,4,6-Tribromophenol	15.828	330	179m	0.202	ng	0.11
15) 2-Fluorobiphenyl	12.950	172	2828m	0.347	ng	0.15
27) Fluoranthene-d10	19.001	212	6381	0.399	ng	0.05
31) Terphenyl-d14	19.577	244	4918	0.420	ng	0.03

Target Compounds Qvalue

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

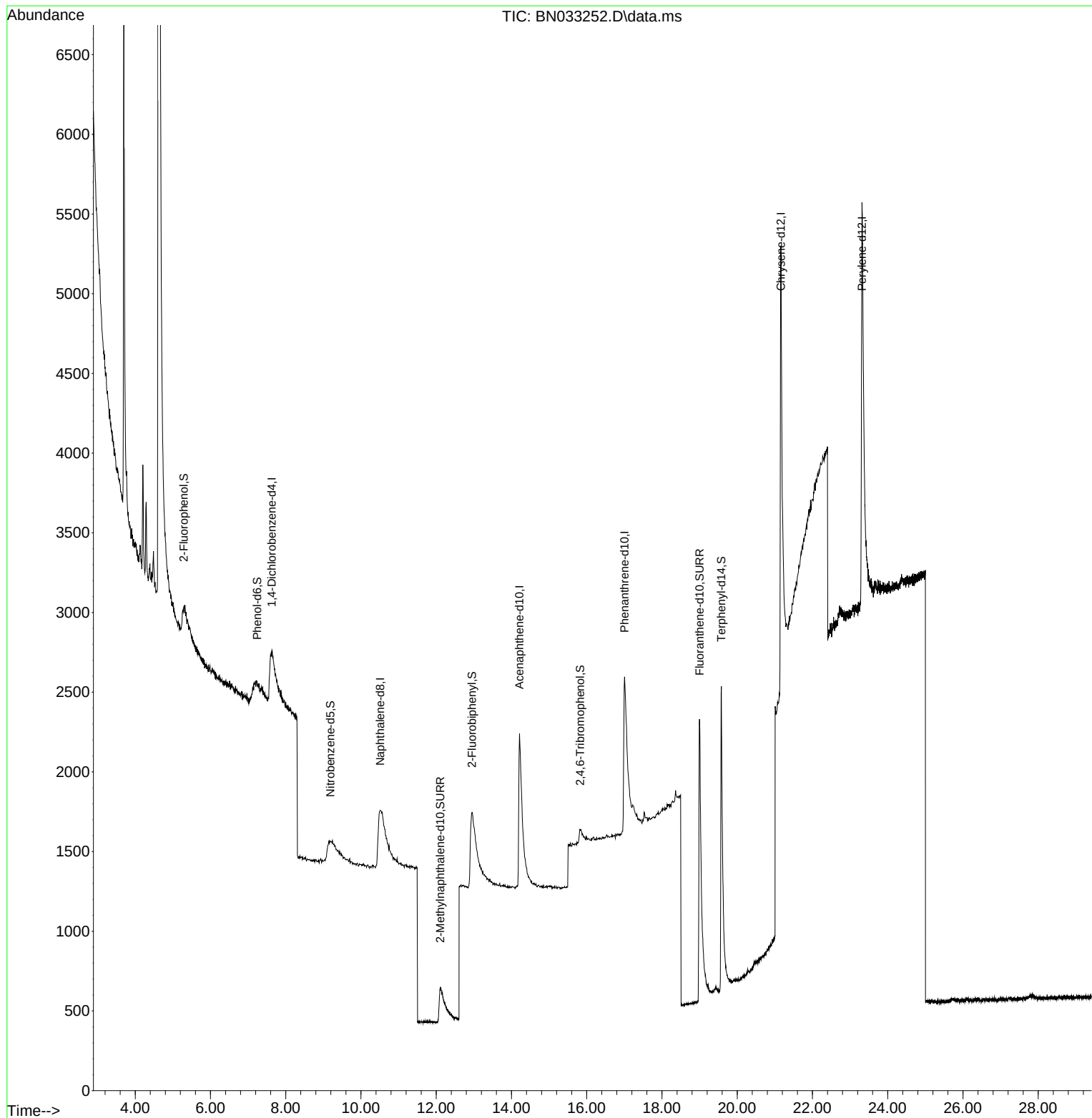
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Data File : BN033252.D
Acq On : 06 Aug 2024 02:04
Operator : MA/JU
Sample : PB162464BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

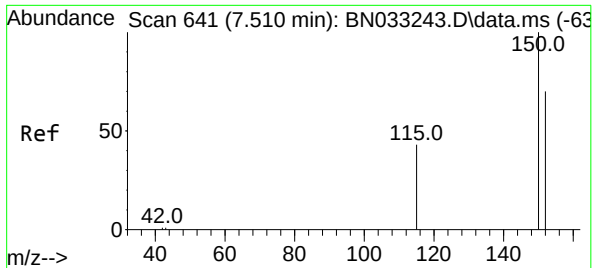
Instrument :
BNA_N
ClientSampleId :
PB162464BL

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

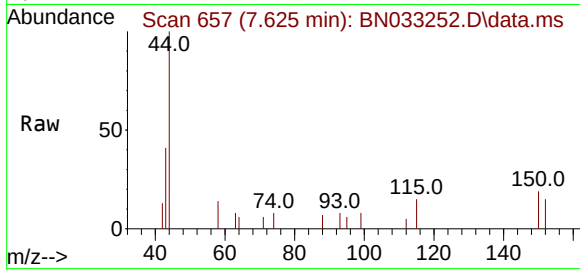
Quant Time: Aug 06 04:32:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.625 min Scan# 615
Delta R.T. 0.115 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

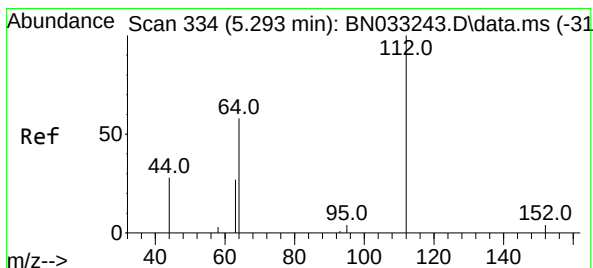
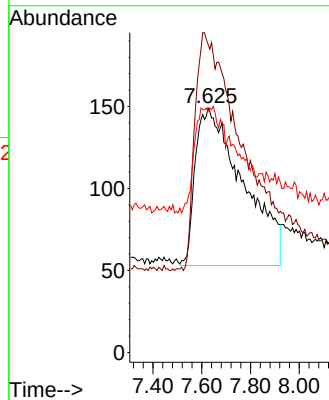
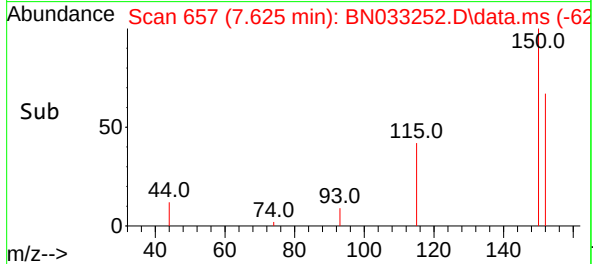
Instrument :
BNA_N
ClientSampleId :
PB162464BL



Tgt Ion:152 Resp: 1300
Ion Ratio Lower Upper
152 100
150 126.2 108.2 162.2
115 98.7 70.5 105.7

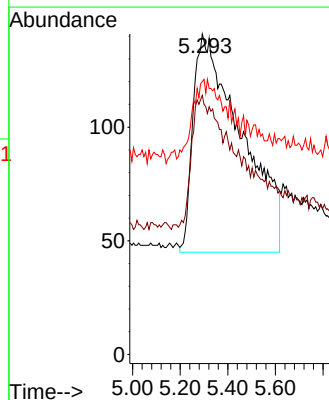
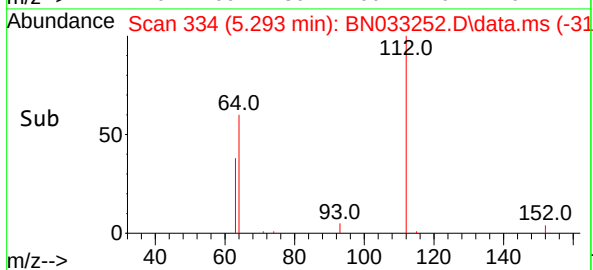
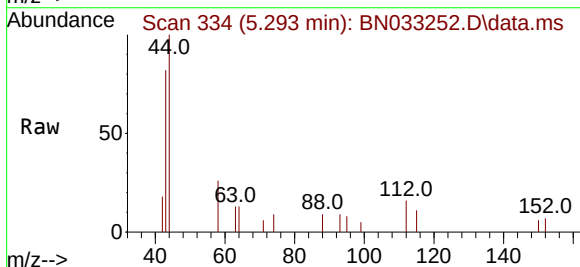
Manual Integrations
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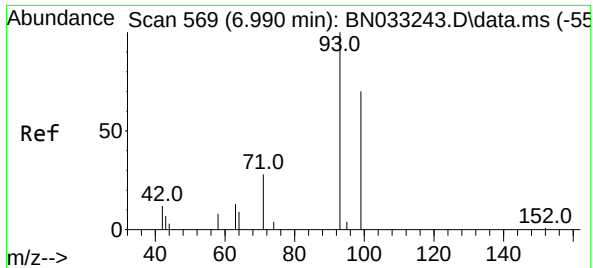
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.419 ng m
RT: 5.293 min Scan# 334
Delta R.T. -0.000 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

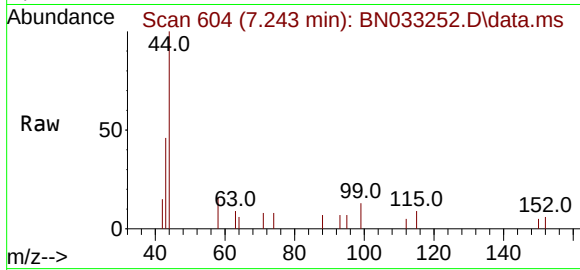
Tgt Ion:112 Resp: 1354
Ion Ratio Lower Upper
112 100
64 10.6 18.0 27.0#
63 5.9 0.0 0.0#





#5
Phenol-d6
Concen: 0.331 ng m
RT: 7.243 min Scan# 604
Delta R.T. 0.253 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

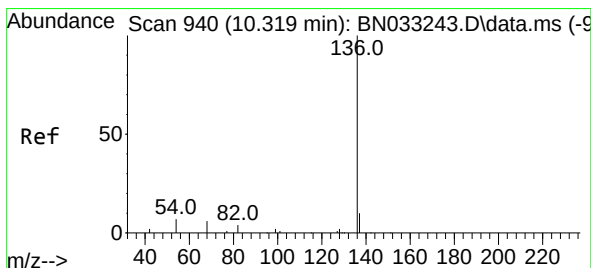
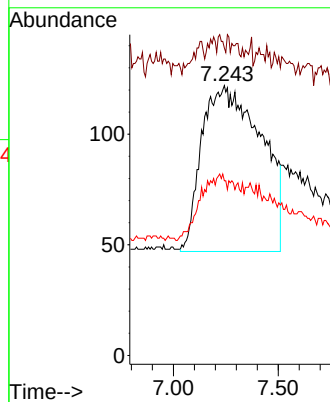
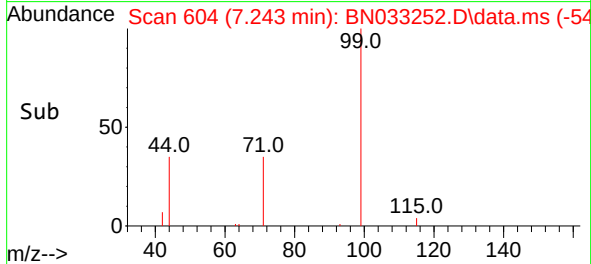
Instrument :
BNA_N
ClientSampleId :
PB162464BL



Tgt Ion: 99 Resp: 147
Ion Ratio Lower Upper
99 100
42 1.6 0.0 0.0
71 10.7 0.0 0.0

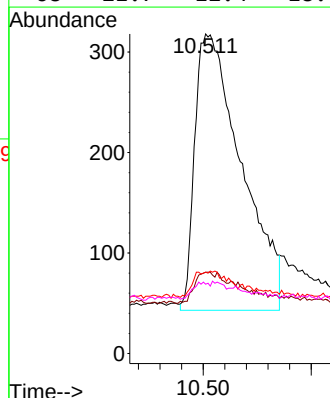
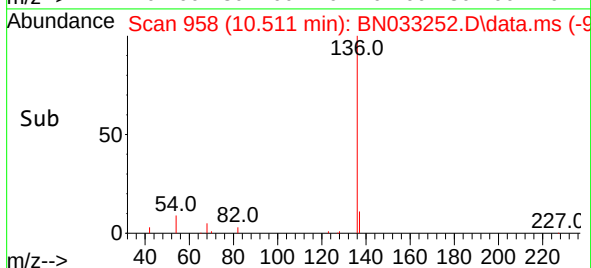
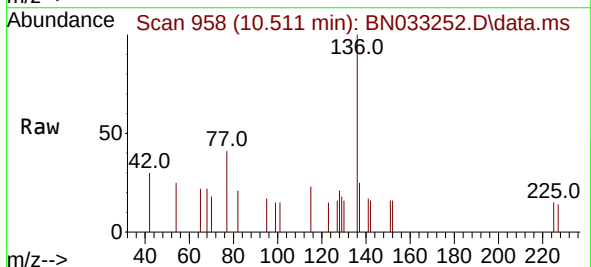
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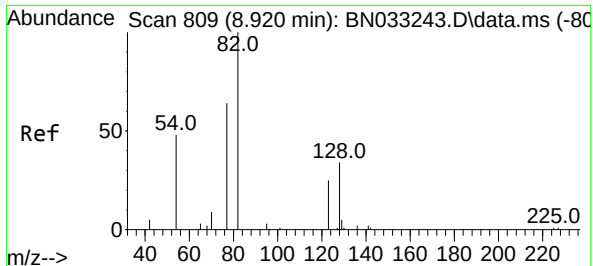
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#7
Naphthalene-d8
Concen: 0.400 ng m
RT: 10.511 min Scan# 958
Delta R.T. 0.192 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

Tgt Ion:136 Resp: 4124
Ion Ratio Lower Upper
136 100
137 25.5 14.1 21.1#
54 25.5 13.8 20.8#
68 21.7 12.4 18.6#





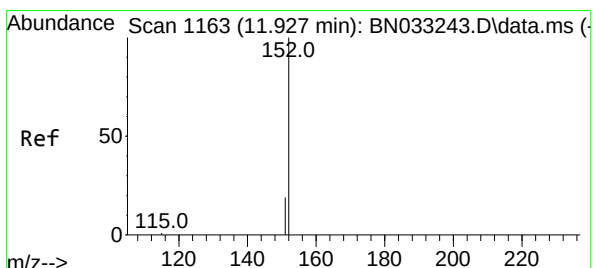
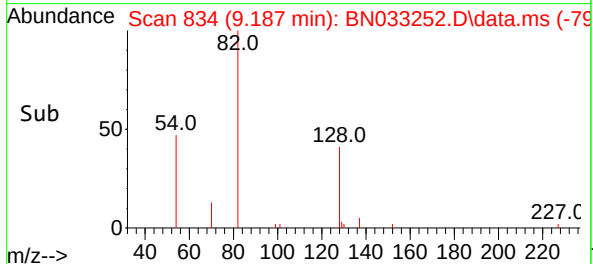
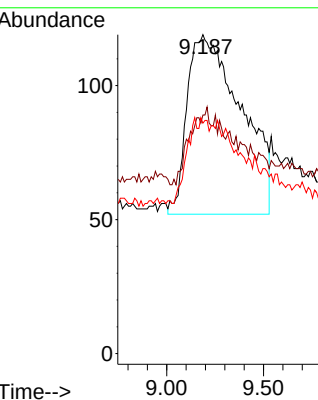
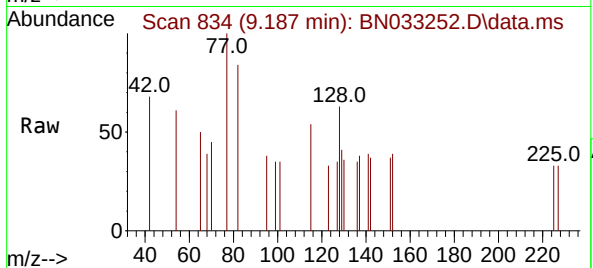
#8
Nitrobenzene-d5
Concen: 0.392 ng m
RT: 9.187 min Scan# 81
Delta R.T. 0.267 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

Instrument :
BNA_N
ClientSampleId :
PB162464BL

Tgt Ion: 82 Resp: 129
Ion Ratio Lower Upper
82 100
128 74.8 54.8 82.2
54 72.3 55.9 83.9

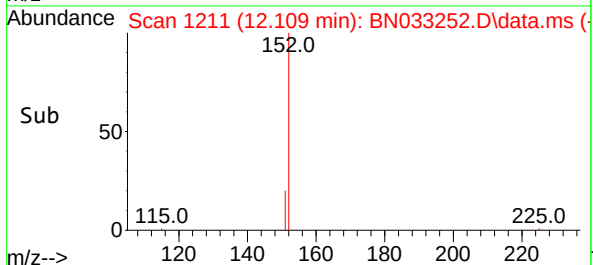
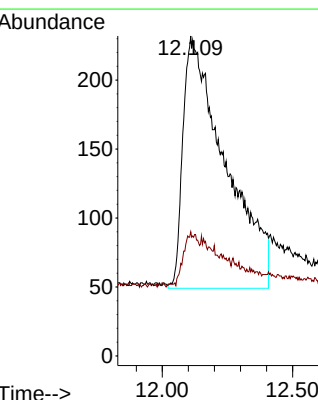
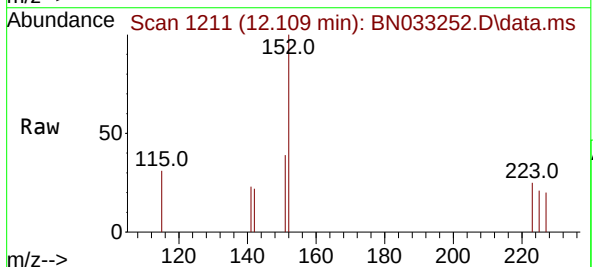
Manual Integrations
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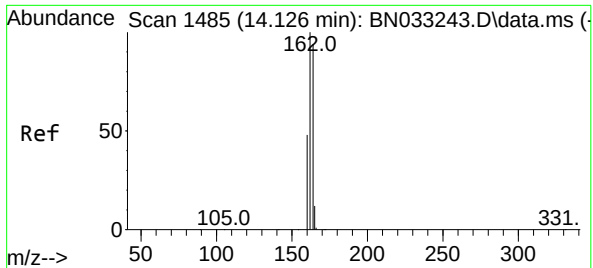
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#11
2-Methylnaphthalene-d10
Concen: 0.336 ng m
RT: 12.109 min Scan# 1211
Delta R.T. 0.182 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

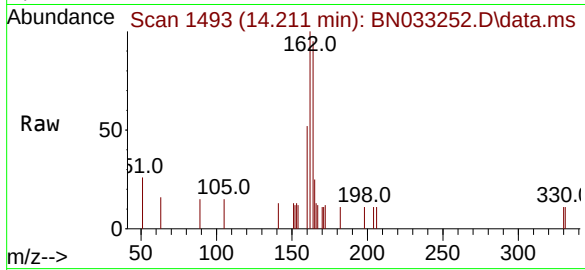
Tgt Ion:152 Resp: 2054
Ion Ratio Lower Upper
152 100
151 4.7 11.9 17.9#





#13
Acenaphthene-d10
Concen: 0.400 ng m
RT: 14.211 min Scan# 14
Delta R.T. 0.085 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

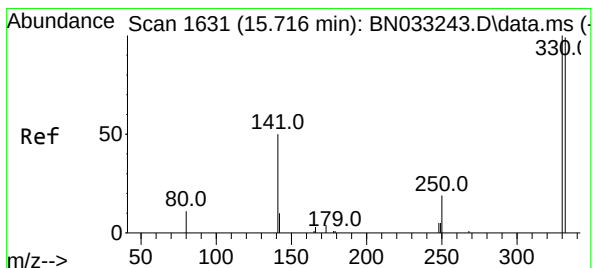
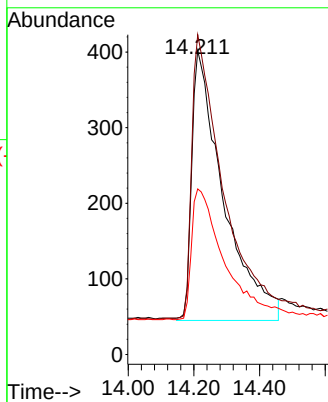
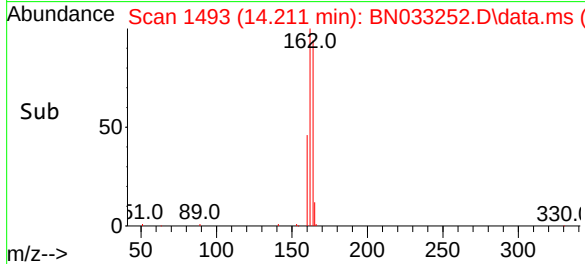
Instrument :
BNA_N
ClientSampleId :
PB162464BL



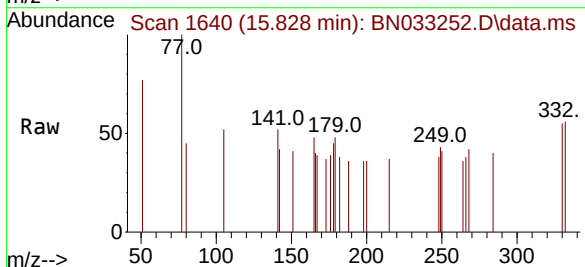
Tgt Ion:164 Resp: 2380
Ion Ratio Lower Upper
164 100
162 105.2 84.6 127.0
160 54.5 42.4 63.6

Manual Integrations
APPROVED

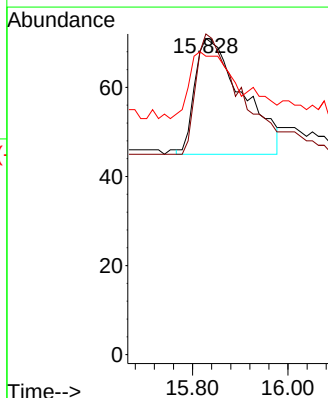
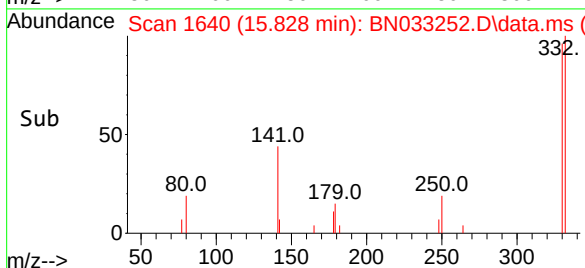
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

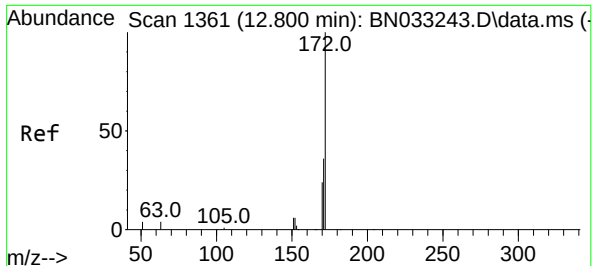


#14
2,4,6-Tribromophenol
Concen: 0.202 ng m
RT: 15.828 min Scan# 1640
Delta R.T. 0.112 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04



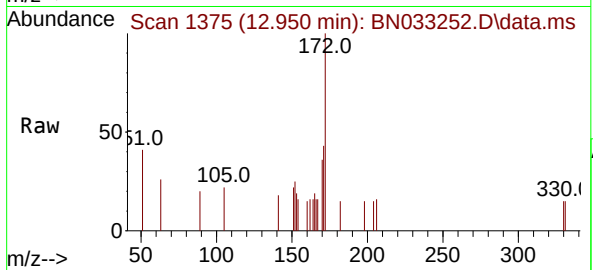
Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 56.4 73.7 110.5#
141 38.5 44.8 67.2#





#15
2-Fluorobiphenyl
Concen: 0.347 ng m
RT: 12.950 min Scan# 1735
Delta R.T. 0.150 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

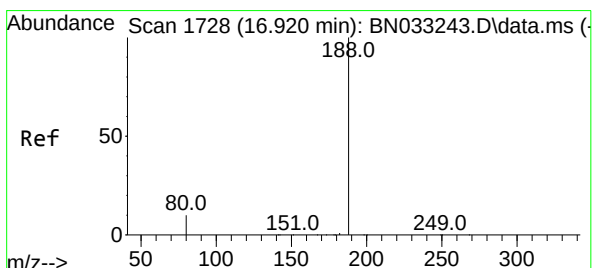
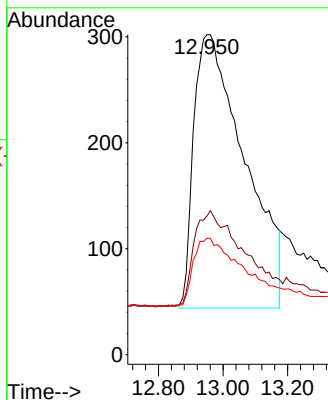
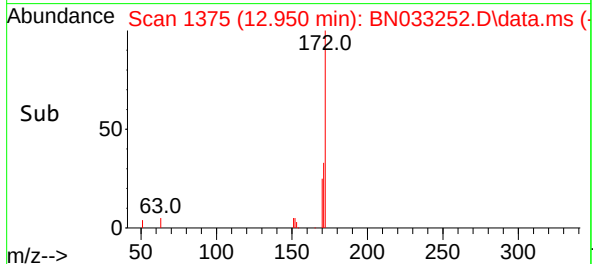
Instrument :
BNA_N
ClientSampleId :
PB162464BL



Tgt Ion:172 Resp: 282
Ion Ratio Lower Upper
172 100
171 43.4 32.3 48.5
170 36.4 23.4 35.2

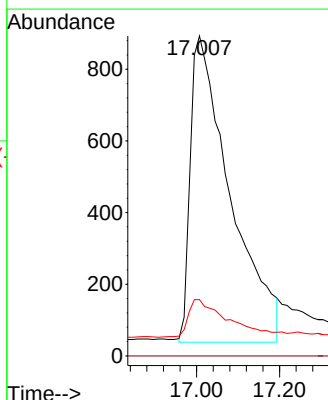
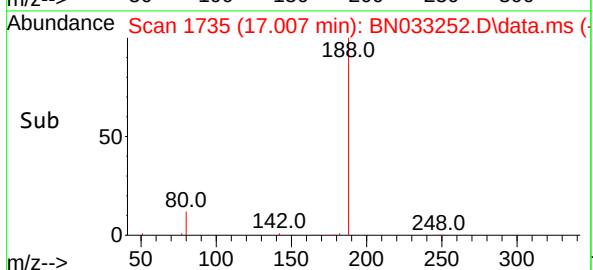
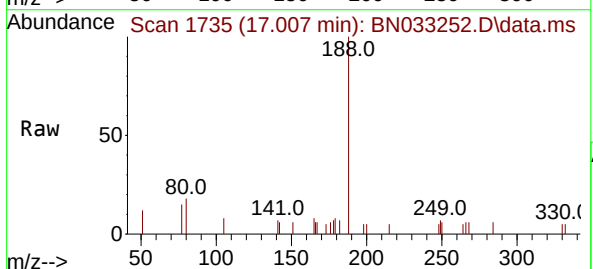
Manual Integrations
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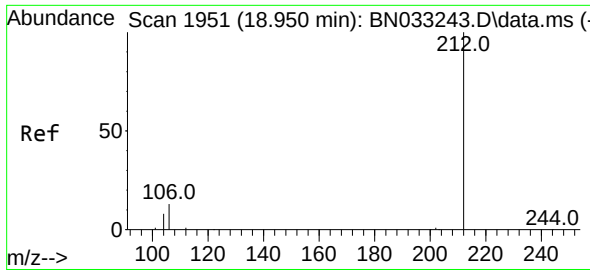
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#19
Phenanthrene-d10
Concen: 0.400 ng m
RT: 17.007 min Scan# 1735
Delta R.T. 0.087 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

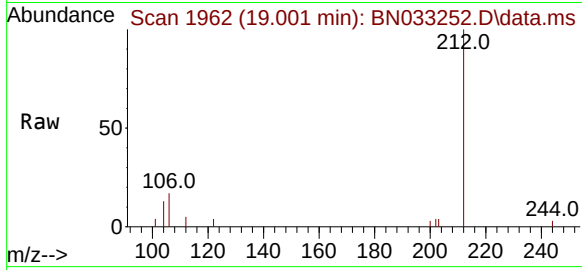
Tgt Ion:188 Resp: 5709
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.6 10.2 15.4





#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.001 min Scan# 1962
Delta R.T. 0.051 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

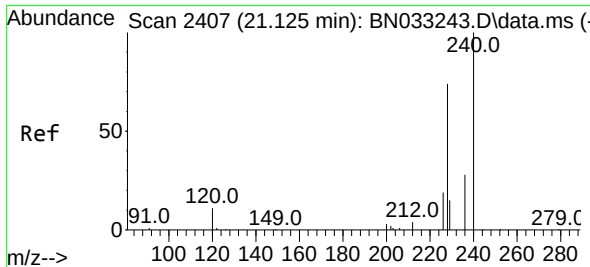
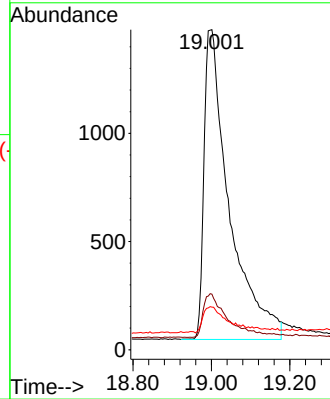
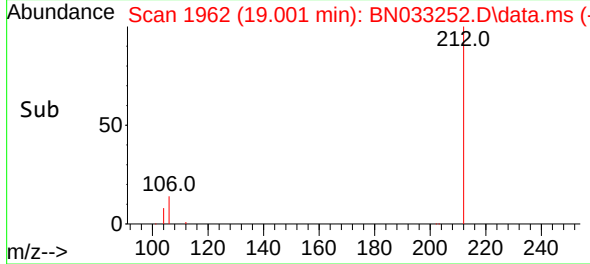
Instrument :
BNA_N
ClientSampleId :
PB162464BL



Tgt Ion:212 Resp: 638
Ion Ratio Lower Upper
212 100
106 13.6 11.4 17.0
104 8.8 7.1 10.7

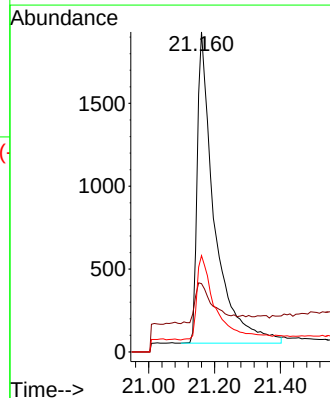
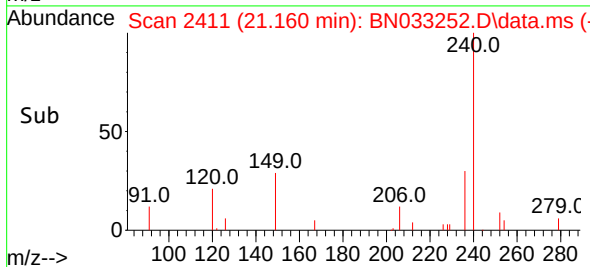
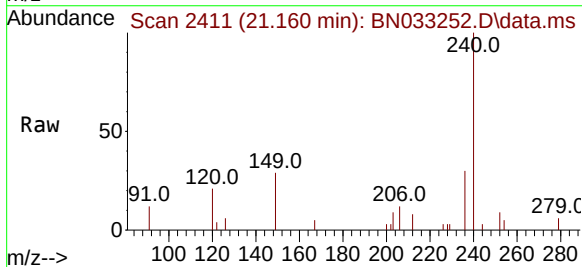
Manual Integrations
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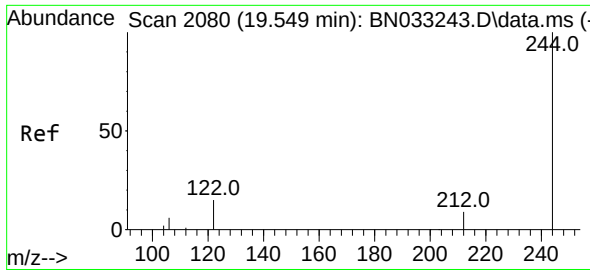
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.035 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

Tgt Ion:240 Resp: 6775
Ion Ratio Lower Upper
240 100
120 21.3 13.3 19.9#
236 30.1 23.8 35.6





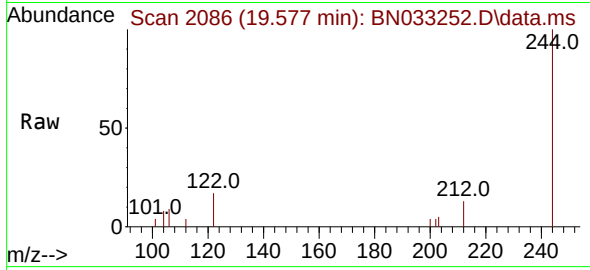
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.577 min Scan# 2086
Delta R.T. 0.028 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

Instrument :

BNA_N

ClientSampleId :

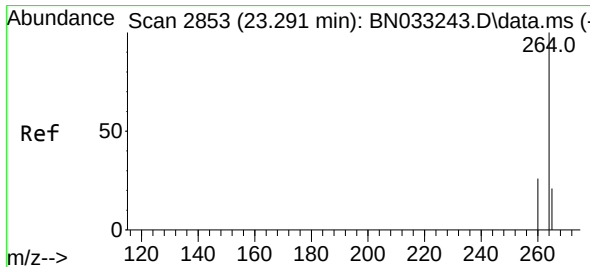
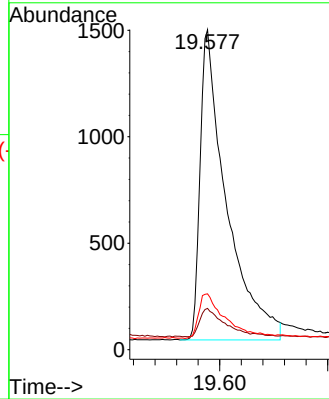
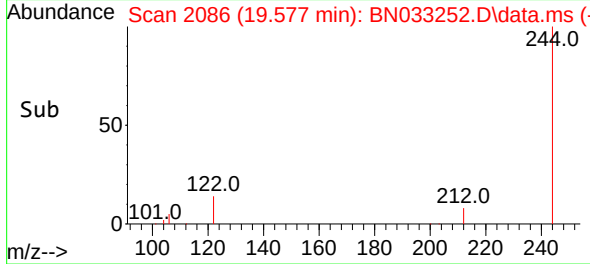
PB162464BL



Tgt Ion:244 Resp: 4918
Ion Ratio Lower Upper
244 100
212 12.9 9.9 14.9
122 17.4 14.1 21.1

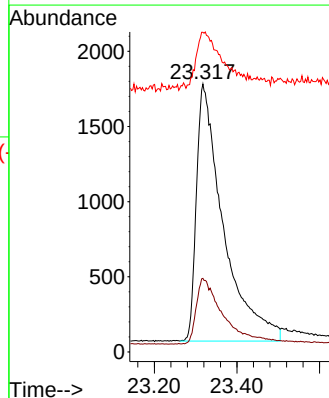
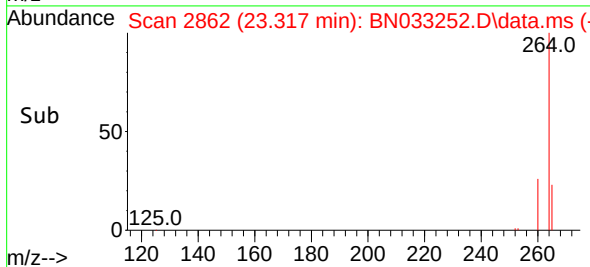
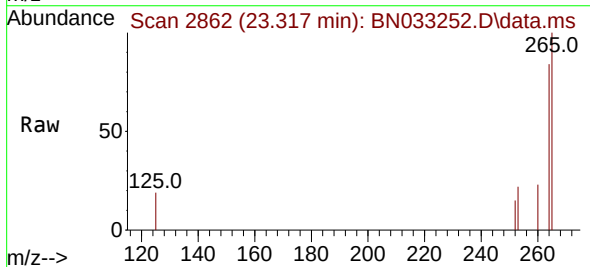
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2862
Delta R.T. 0.026 min
Lab File: BN033252.D
Acq: 06 Aug 2024 02:04

Tgt Ion:264 Resp: 7732
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 119.3 66.6 99.8#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162464BS	SDG No.:	P3440
Lab Sample ID:	PB162464BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033253.D	1	08/02/24 09:25	08/06/24 02:41	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.42		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.38		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.40		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.42		0.020	0.10	ug/L
86-73-7	Fluorene	0.41		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.38		0.020	0.10	ug/L
120-12-7	Anthracene	0.35		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.37		0.020	0.10	ug/L
129-00-0	Pyrene	0.39		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.34		0.020	0.10	ug/L
218-01-9	Chrysene	0.43		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.38		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.40		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.38		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.37		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.37		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.38		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.35		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.41		30 (30) - 150 (150)	101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		30 (11) - 130 (175)	95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		30 (10) - 130 (175)	102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		30 (54) - 130 (171)	99%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1020	7.517			
1146-65-2	Naphthalene-d8	3950	10.329			
15067-26-2	Acenaphthene-d10	2800	14.133			
1517-22-2	Phenanthrene-d10	6560	16.914			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162464BS	SDG No.:	P3440
Lab Sample ID:	PB162464BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033253.D	1	08/02/24 09:25	08/06/24 02:41	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	6890	21.131			
1520-96-3	Perylene-d12	8360	23.295			

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\BN080524\
 Data File : BN033253.D
 Acq On : 06 Aug 2024 02:41
 Operator : MA/JU
 Sample : PB162464BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162464BS

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 06 04:32:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:57:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.517	152	1021	0.400	ng	0.00
7) Naphthalene-d8	10.329	136	3951	0.400	ng	0.01
13) Acenaphthene-d10	14.133	164	2796	0.400	ng	0.00
19) Phenanthrene-d10	16.914	188	6560	0.400	ng	# 0.00
29) Chrysene-d12	21.131	240	6887	0.400	ng	0.00
35) Perylene-d12	23.295	264	8358	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.321	112	1093m	0.432	ng	0.03
5) Phenol-d6	6.990	99	1605m	0.462	ng	0.00
8) Nitrobenzene-d5	8.952	82	1213	0.382	ng	0.03
11) 2-Methylnaphthalene-d10	11.935	152	2382m	0.406	ng	0.00
14) 2,4,6-Tribromophenol	15.723	330	383	0.368	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	3920	0.410	ng	0.00
27) Fluoranthene-d10	18.957	212	6873	0.374	ng	0.00
31) Terphenyl-d14	19.561	244	4722	0.397	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.054	88	666	0.353	ng	# 83
3) n-Nitrosodimethylamine	3.480	42	521	0.418	ng	# 96
6) bis(2-Chloroethyl)ether	7.055	93	1323m	0.452	ng	
9) Naphthalene	10.383	128	4460	0.415	ng	99
10) Hexachlorobutadiene	10.511	225	842	0.422	ng	# 96
12) 2-Methylnaphthalene	12.014	142	2417	0.378	ng	98
16) Acenaphthylene	13.876	152	4422	0.396	ng	99
17) Acenaphthene	14.197	154	3359	0.417	ng	100
18) Fluorene	15.212	166	4506	0.413	ng	100
20) 4,6-Dinitro-2-methylph...	15.574	198	210	0.417	ng	96
21) 4-Bromophenyl-phenylether	16.120	248	1360	0.391	ng	96
22) Hexachlorobenzene	16.195	284	1462	0.402	ng	99
23) Atrazine	16.418	200	1161	0.354	ng	99
24) Pentachlorophenol	16.641	266	385	0.317	ng	97
25) Phenanthrene	16.964	178	6619	0.375	ng	100
26) Anthracene	17.088	178	5118	0.346	ng	# 86
28) Fluoranthene	18.989	202	8870	0.366	ng	99
30) Pyrene	19.356	202	9455	0.393	ng	99
32) Benzo(a)anthracene	21.113	228	6708	0.338	ng	98
33) Chrysene	21.167	228	11481	0.431	ng	100
34) Bis(2-ethylhexyl)phtha...	21.006	149	1648	0.346	ng	97
36) Indeno(1,2,3-cd)pyrene	25.485	276	13997	0.370	ng	98
37) Benzo(b)fluoranthene	22.646	252	9650	0.381	ng	97
38) Benzo(k)fluoranthene	22.689	252	12796	0.403	ng	97
39) Benzo(a)pyrene	23.213	252	9669	0.380	ng	98
40) Dibenzo(a,h)anthracene	25.487	278	11023	0.369	ng	98
41) Benzo(g,h,i)perylene	26.151	276	12926	0.378	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080524\
 Data File : BN033253.D
 Acq On : 06 Aug 2024 02:41
 Operator : MA/JU
 Sample : PB162464BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

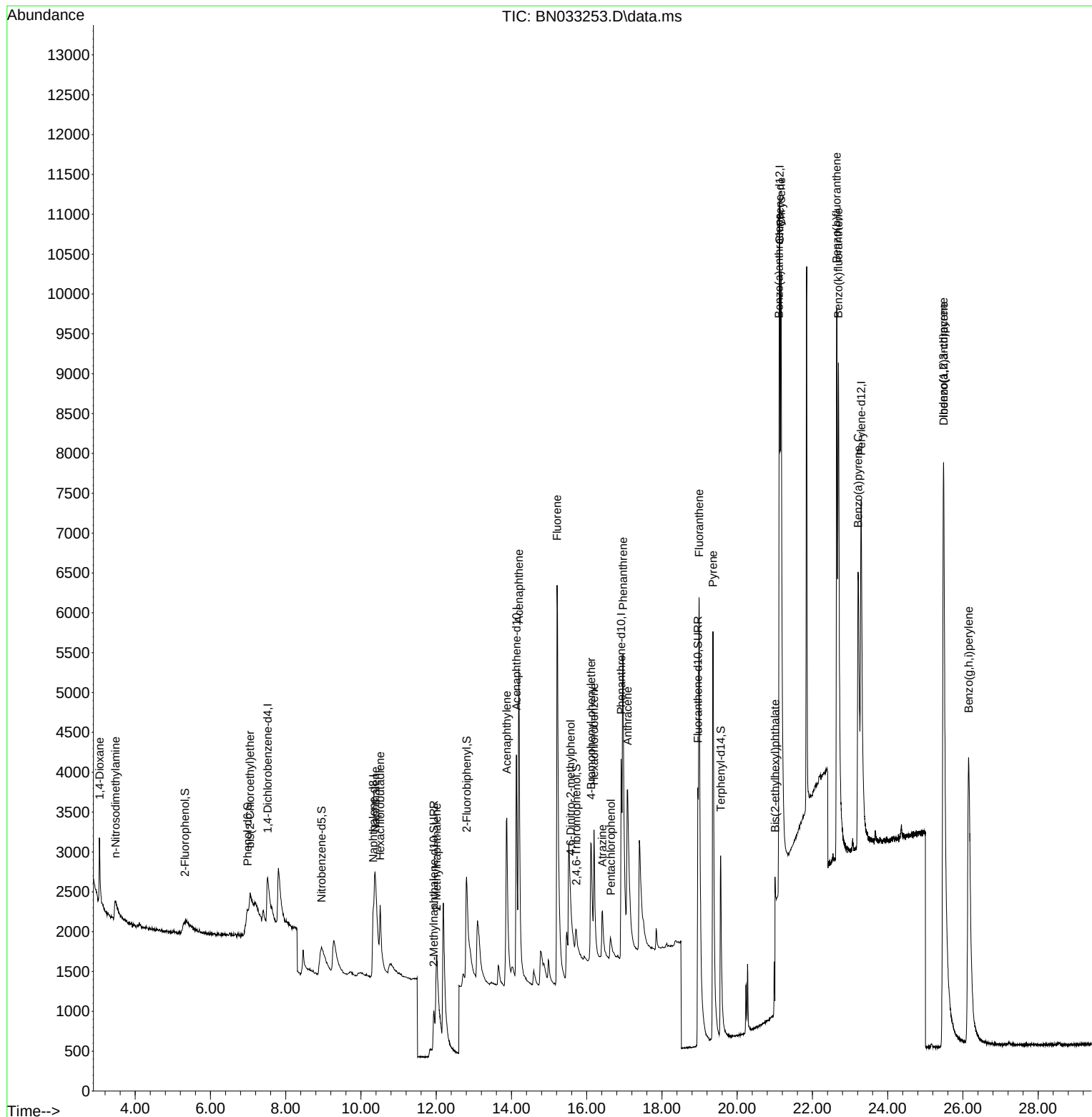
PB162464BS

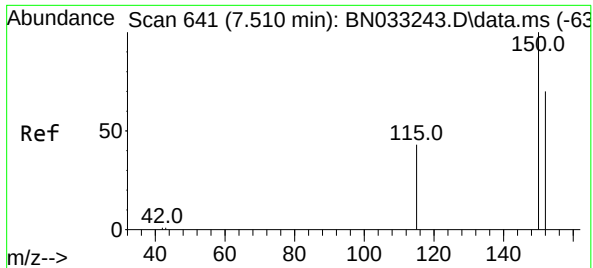
Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

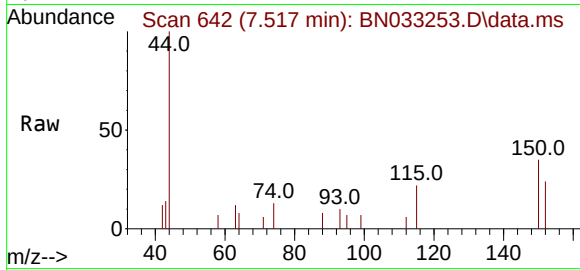
Quant Time: Aug 06 04:32:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:57:48 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.517 min Scan# 64
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

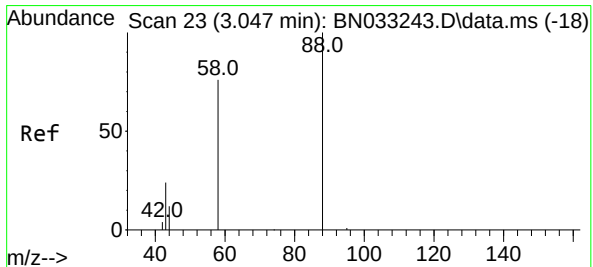
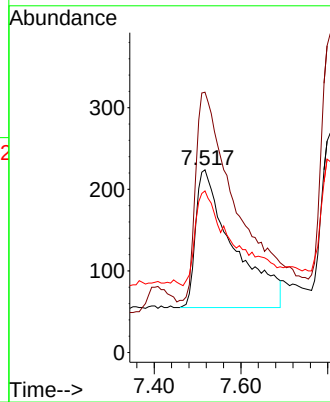
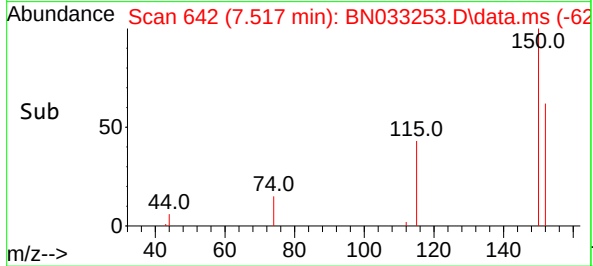
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:152 Resp: 102
Ion Ratio Lower Upper
152 100
150 142.4 108.2 162.2
115 88.4 70.5 105.7

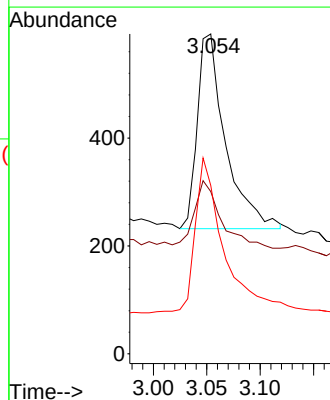
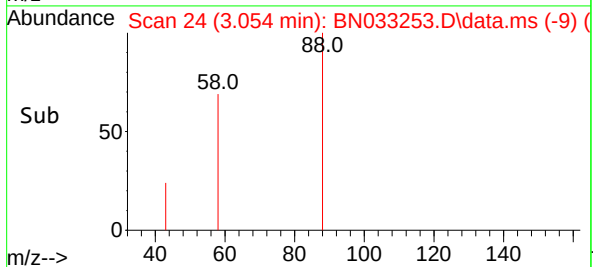
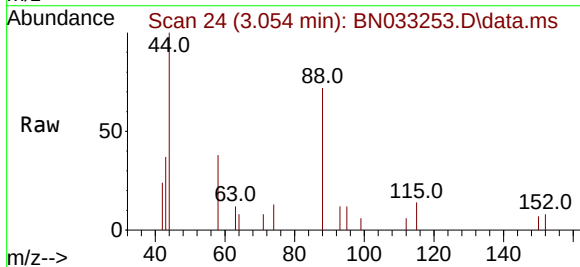
Manual Integrations
APPROVED

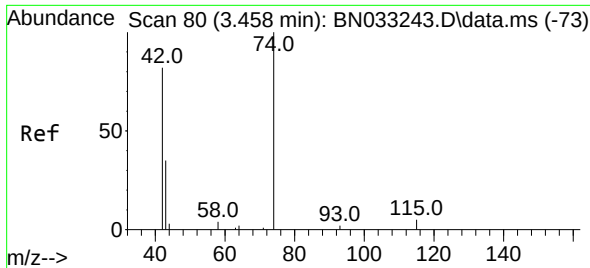
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.353 ng
RT: 3.054 min Scan# 24
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

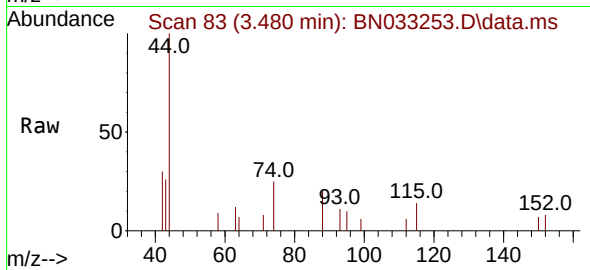
Tgt Ion: 88 Resp: 666
Ion Ratio Lower Upper
88 100
43 33.3 18.6 28.0#
58 80.3 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.418 ng
RT: 3.480 min Scan# 80
Delta R.T. 0.022 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

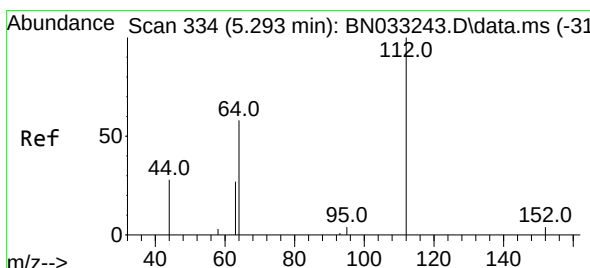
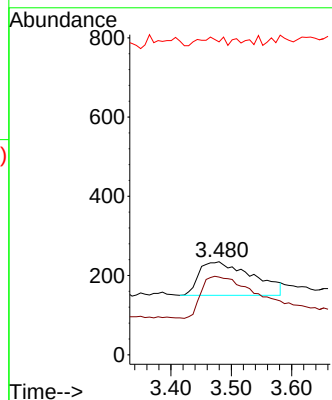
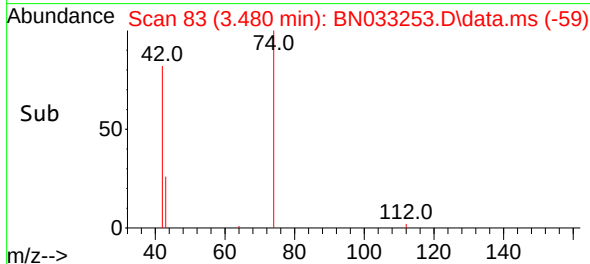
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion: 42 Resp: 52
Ion Ratio Lower Upper
42 100
74 127.3 0.0 0.0#
44 10.4 9.6 14.4

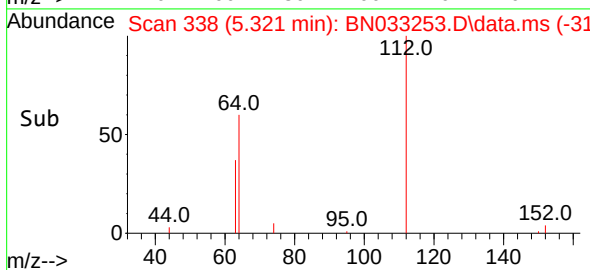
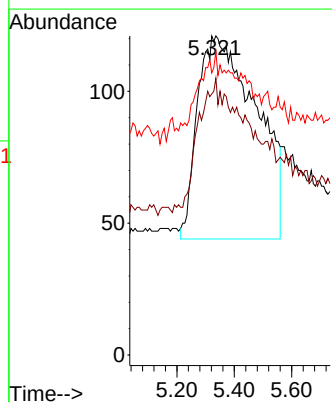
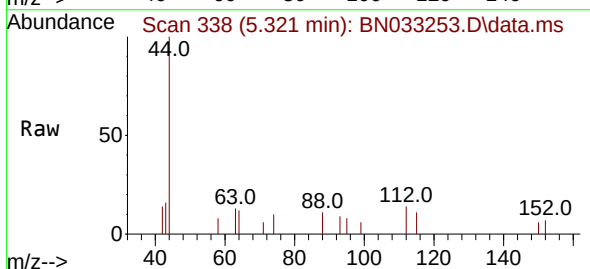
Manual Integrations
APPROVED

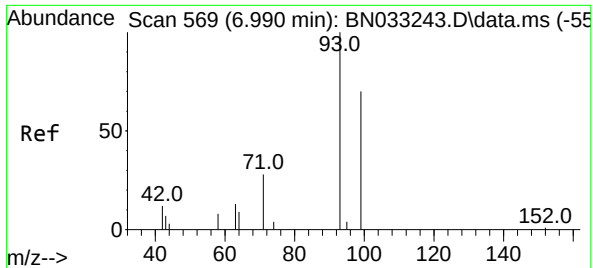
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.432 ng m
RT: 5.321 min Scan# 338
Delta R.T. 0.028 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion:112 Resp: 1093
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 8.7 0.0 0.0#





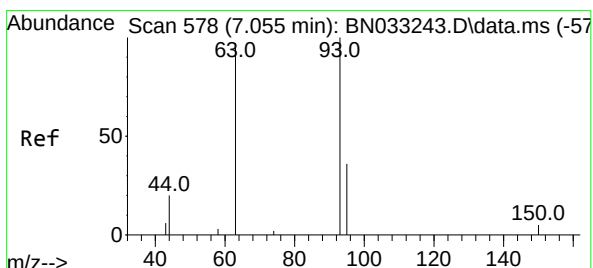
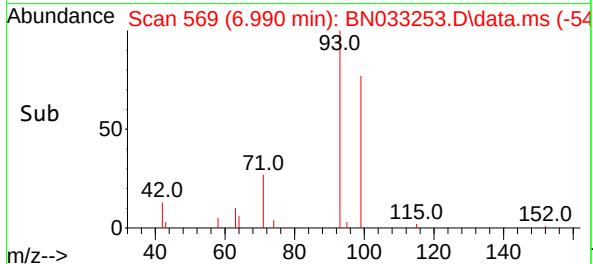
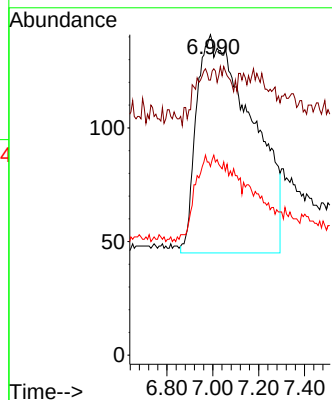
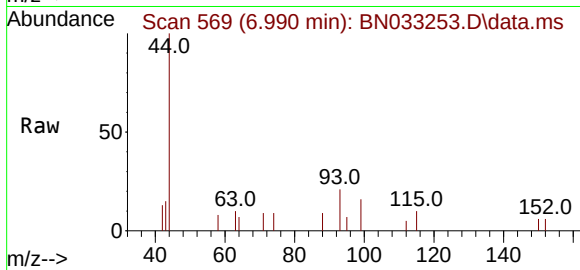
#5
Phenol-d6
Concen: 0.462 ng m
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Instrument :
BNA_N
ClientSampleId :
PB162464BS

Tgt Ion: 99 Resp: 160
Ion Ratio Lower Upper
99 100
42 0.6 0.0 0.0
71 0.0 0.0 0.0

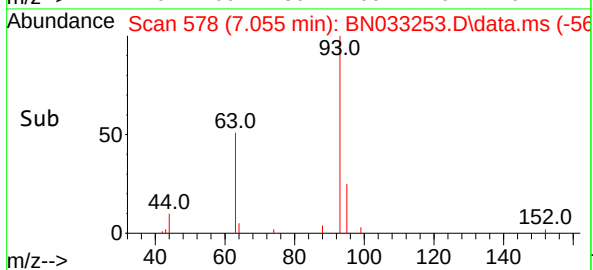
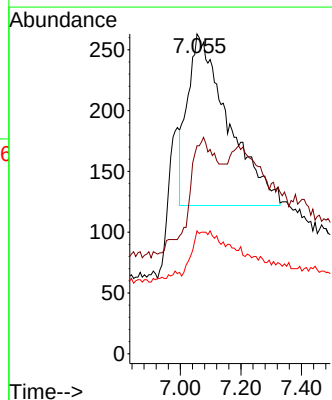
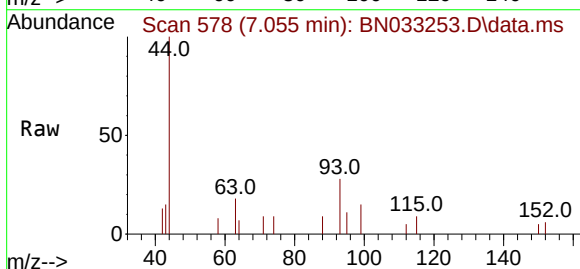
Manual Integrations
APPROVED

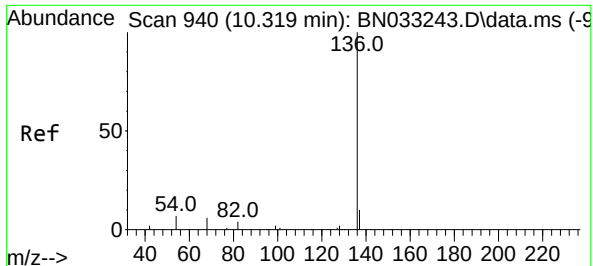
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.452 ng m
RT: 7.055 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion: 93 Resp: 1323
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 24.3 0.0 0.0#





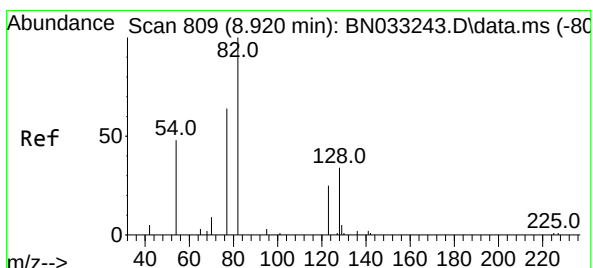
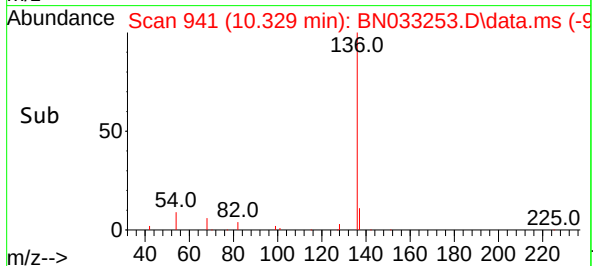
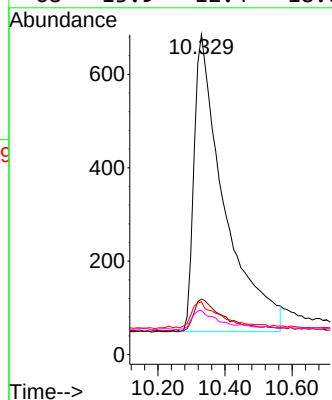
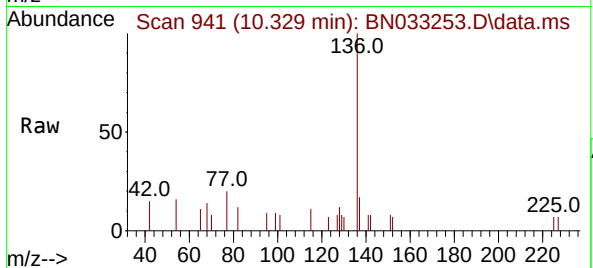
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.329 min Scan# 941
Delta R.T. 0.010 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Instrument :
BNA_N
ClientSampleId :
PB162464BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	17.4	14.1	21.1
54	16.5	13.8	20.8
68	13.9	12.4	18.6

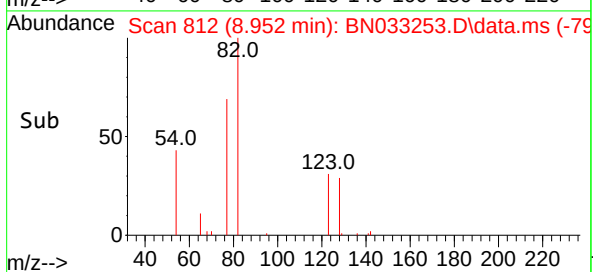
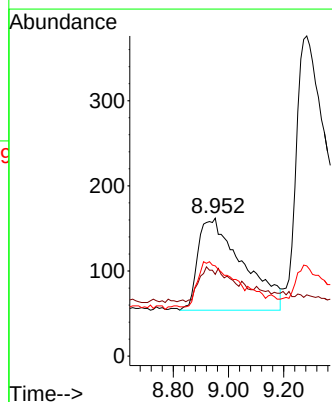
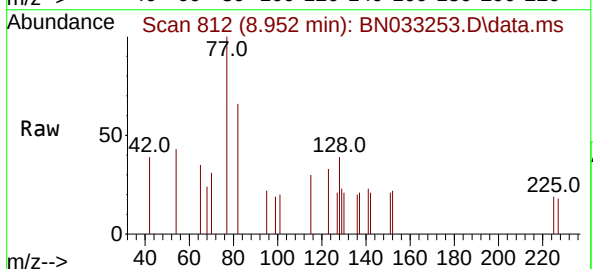
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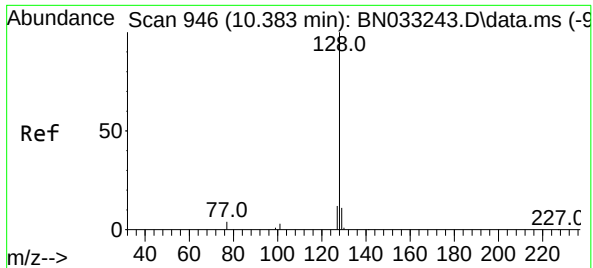
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.952 min Scan# 812
Delta R.T. 0.032 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion	Ratio	Lower	Upper
82	100		
128	59.3	54.8	82.2
54	65.4	55.9	83.9





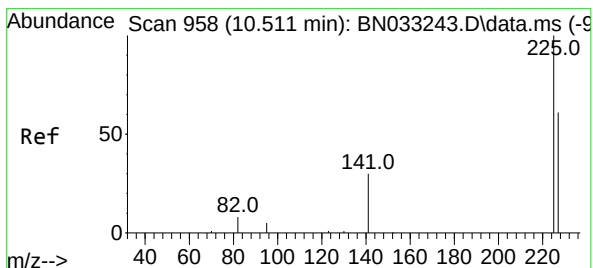
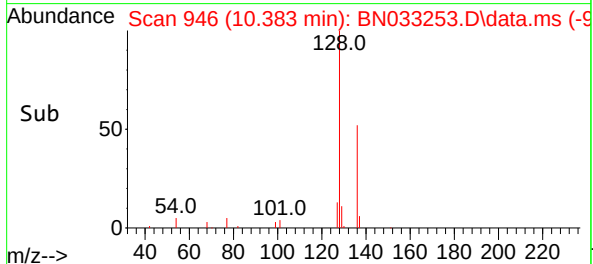
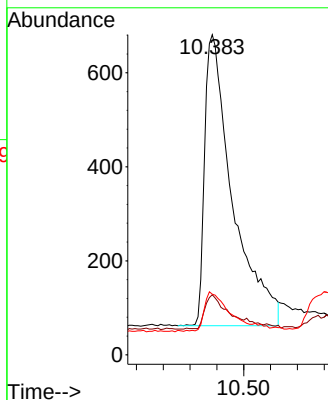
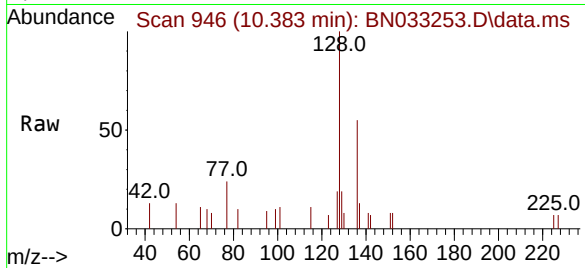
#9
Naphthalene
Concen: 0.415 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.000 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Instrument :
BNA_N
ClientSampleId :
PB162464BS

Tgt Ion:128 Resp: 4460
Ion Ratio Lower Upper
128 100
129 18.8 15.4 23.0
127 18.9 15.8 23.6

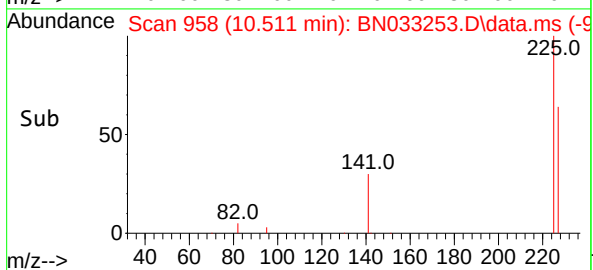
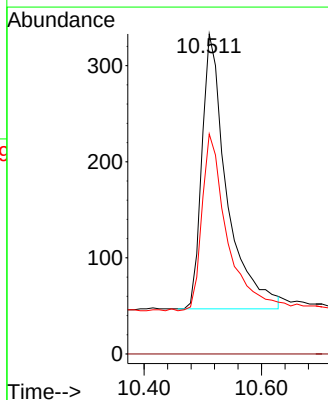
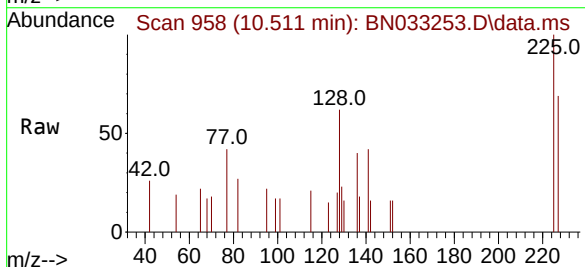
Manual Integrations
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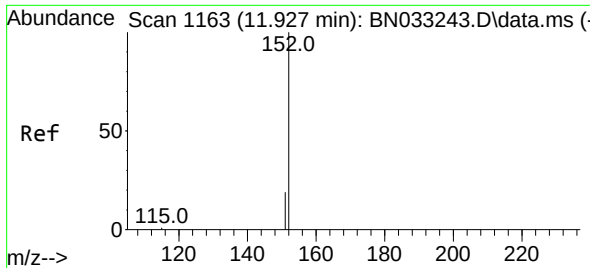
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.422 ng
RT: 10.511 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

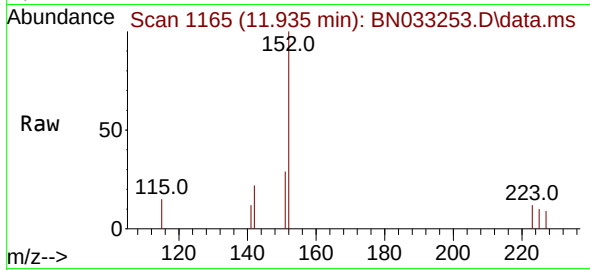
Tgt Ion:225 Resp: 842
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.406 ng m
RT: 11.935 min Scan# 1165
Delta R.T. 0.008 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

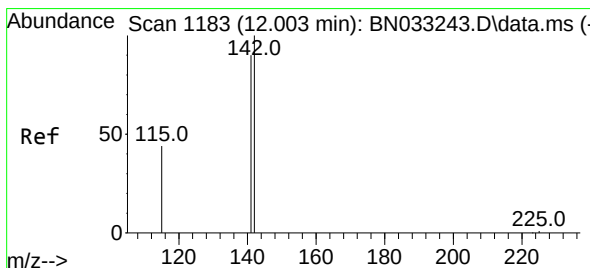
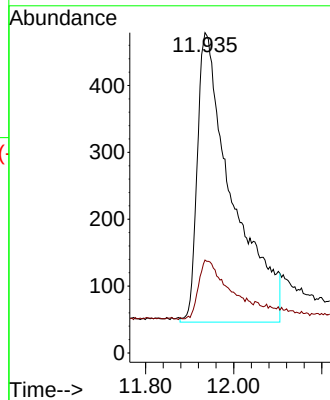
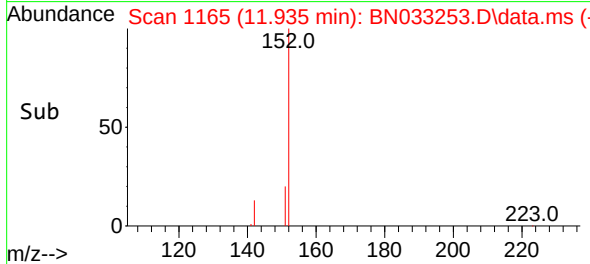
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:152 Resp: 238
Ion Ratio Lower Upper
152 100
151 16.4 11.9 17.9

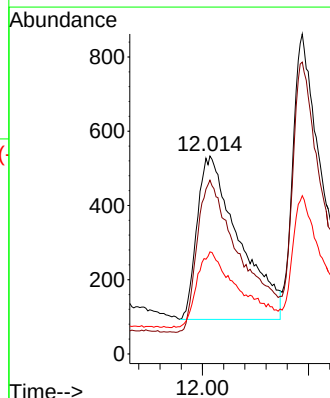
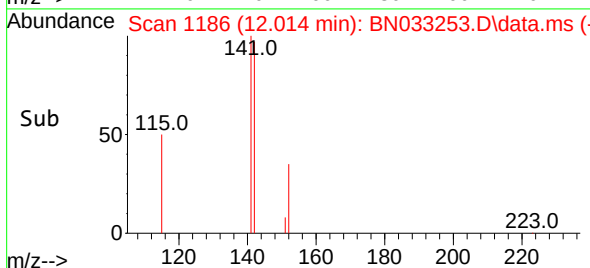
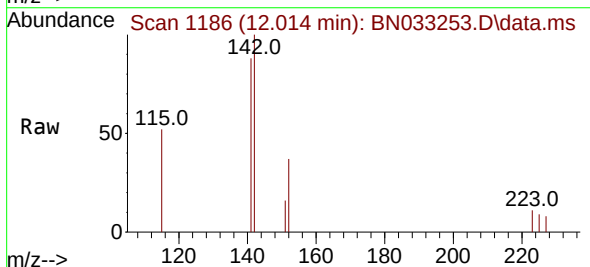
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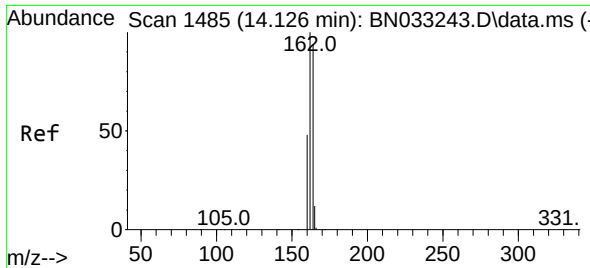
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.014 min Scan# 1186
Delta R.T. 0.011 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

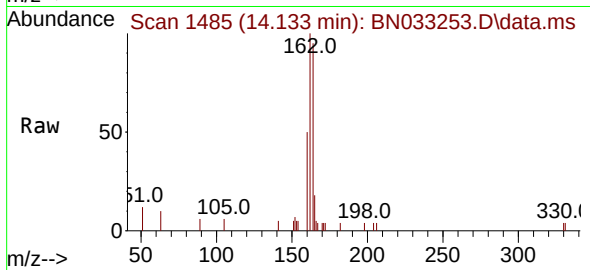
Tgt Ion:142 Resp: 2417
Ion Ratio Lower Upper
142 100
141 87.8 68.7 103.1
115 51.6 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.133 min Scan# 1485
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

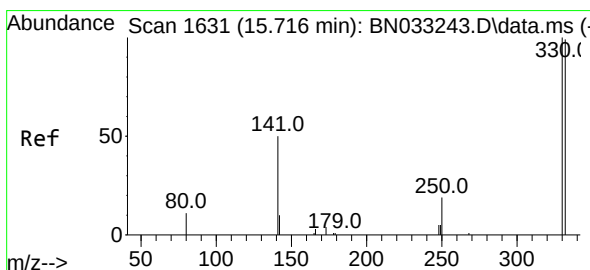
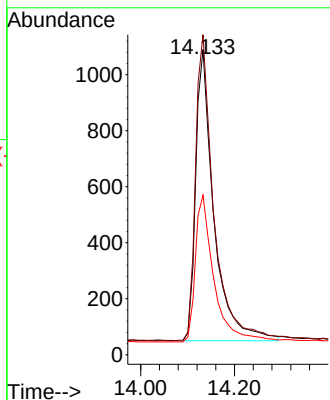
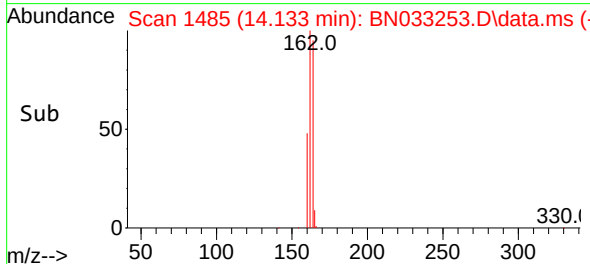
Instrument :
BNA_N
ClientSampleId :
PB162464BS



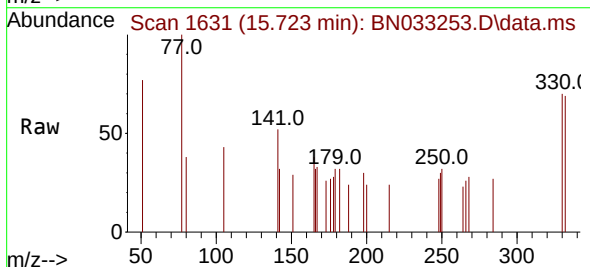
Tgt Ion:164 Resp: 2790
Ion Ratio Lower Upper
164 100
162 104.9 84.6 127.0
160 52.3 42.4 63.6

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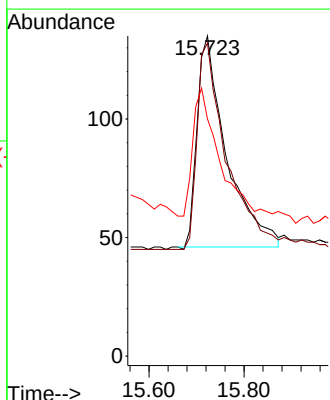
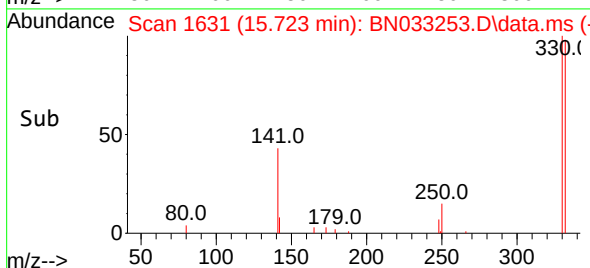
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

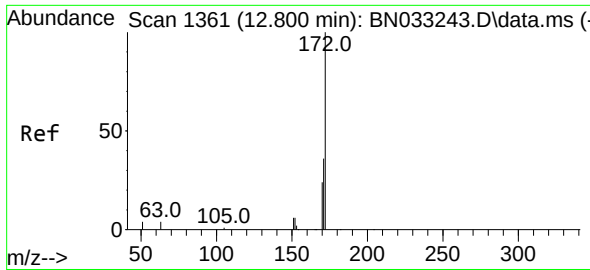


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.723 min Scan# 1631
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41



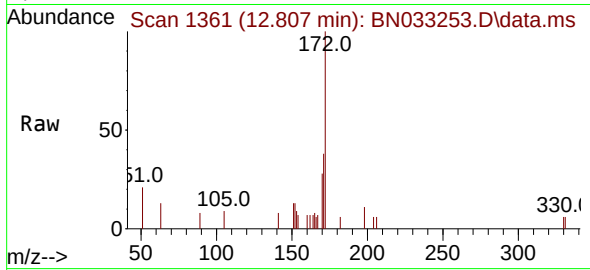
Tgt Ion:330 Resp: 383
Ion Ratio Lower Upper
330 100
332 98.2 73.7 110.5
141 53.8 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.807 min Scan# 1361
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

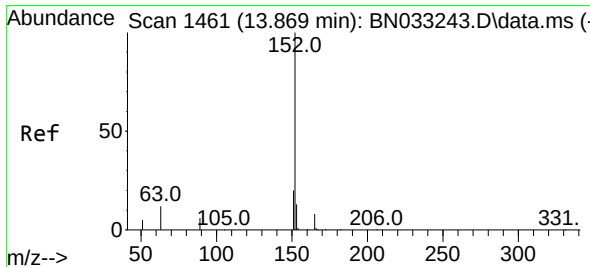
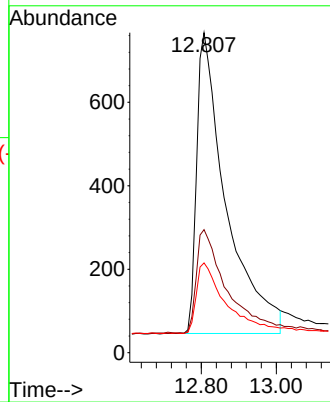
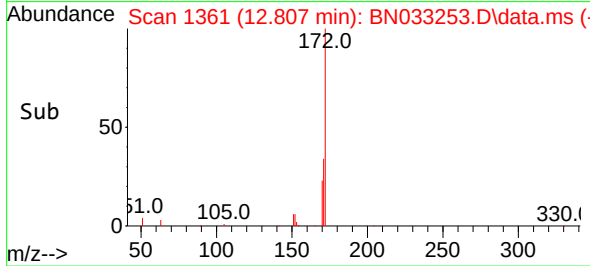
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:172 Resp: 3920
Ion Ratio Lower Upper
172 100
171 38.5 32.3 48.5
170 28.0 23.4 35.2

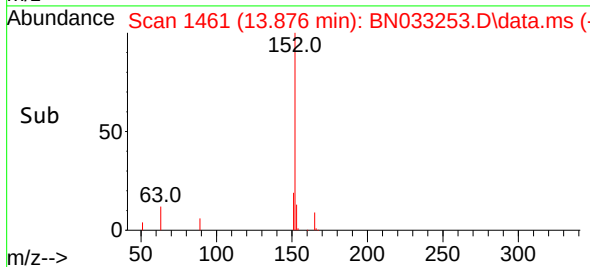
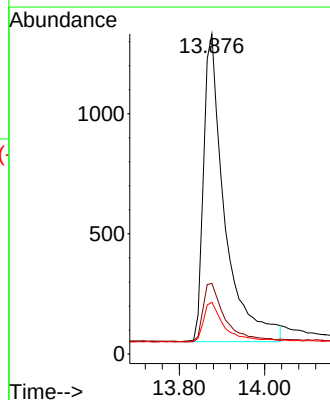
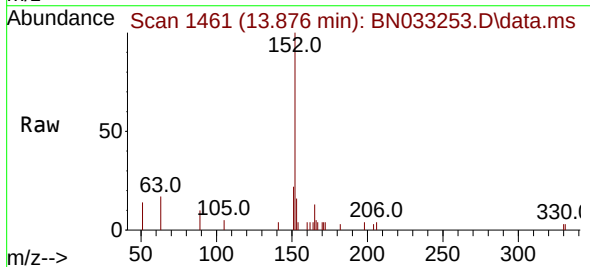
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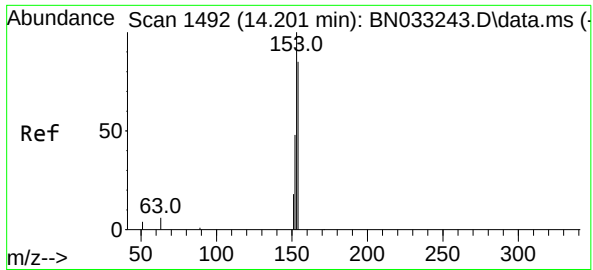
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.396 ng
RT: 13.876 min Scan# 1461
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion:152 Resp: 4422
Ion Ratio Lower Upper
152 100
151 19.5 16.1 24.1
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 0.417 ng

RT: 14.197 min Scan# 1491

Delta R.T. -0.004 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

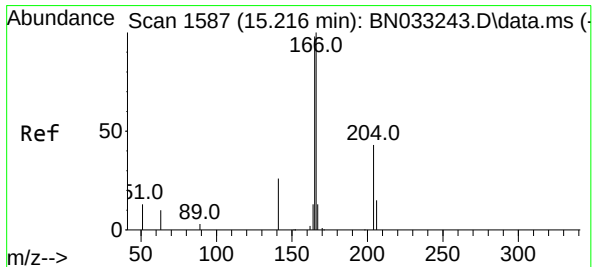
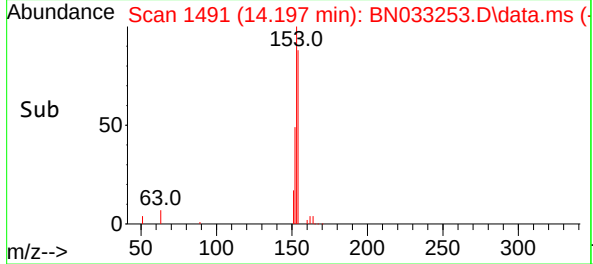
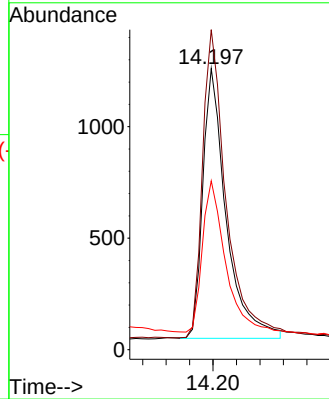
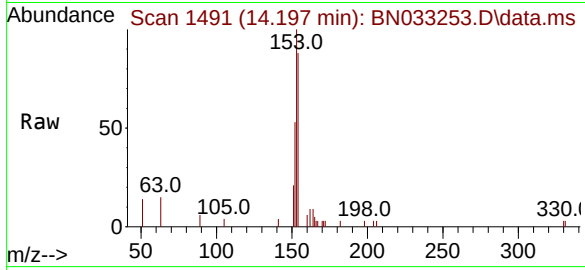
PB162464BS

Tgt Ion:	154	Resp:	335
Ion Ratio	Lower	Upper	
154	100		
153	115.6	92.7	139.1
152	54.6	44.0	66.0

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Reviewed By :Jagrut Upadhyay 08/06/2024
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#18

Fluorene

Concen: 0.413 ng

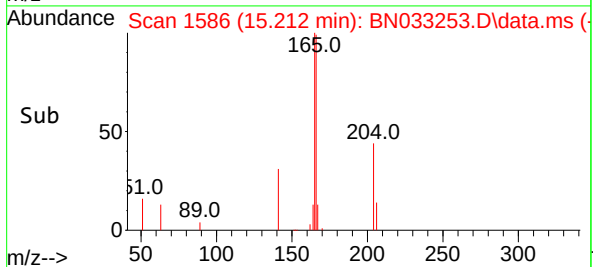
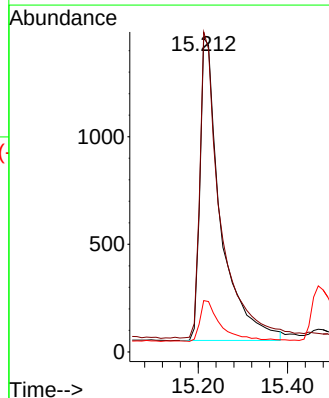
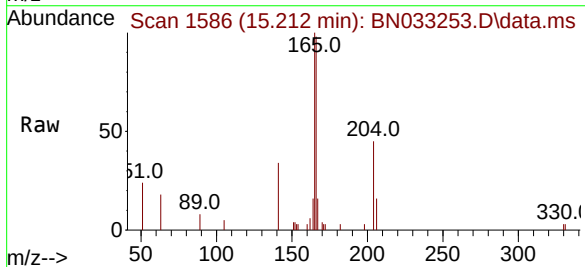
RT: 15.212 min Scan# 1586

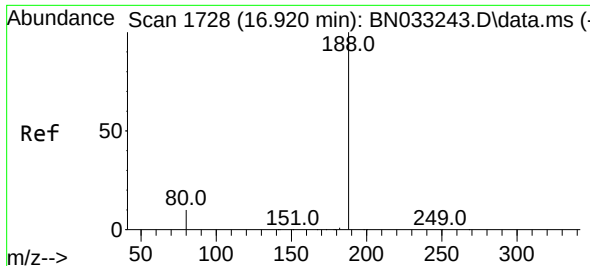
Delta R.T. -0.004 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Tgt Ion:	166	Resp:	4506
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.6	119.4
167	13.3	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.914 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

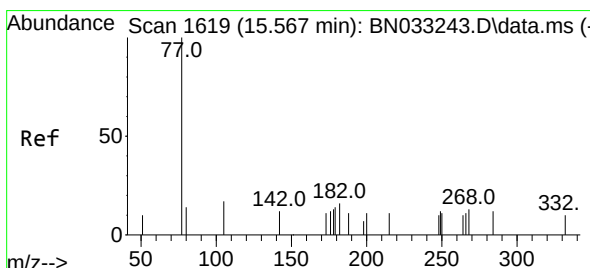
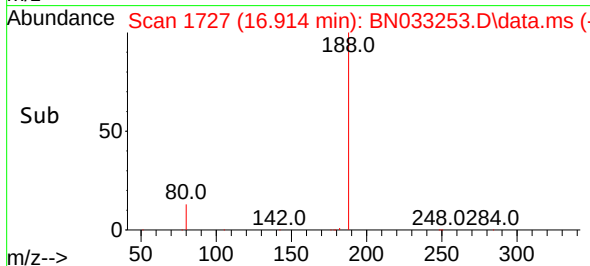
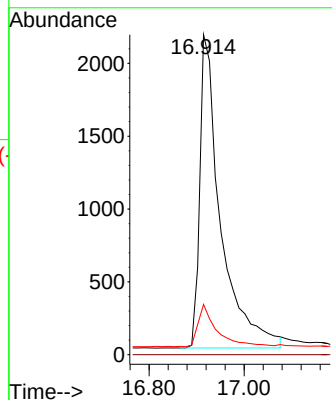
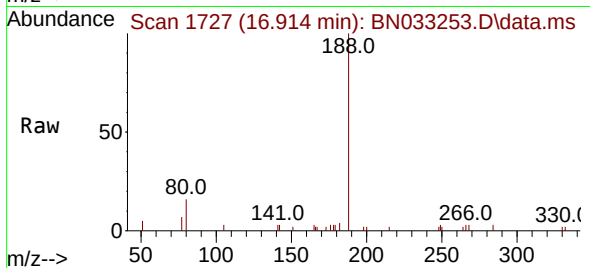
Instrument :

BNA_N

ClientSampleId :

PB162464BS

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	10.2	15.4

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Supervised By :mohammad ahmed 08/07/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.417 ng

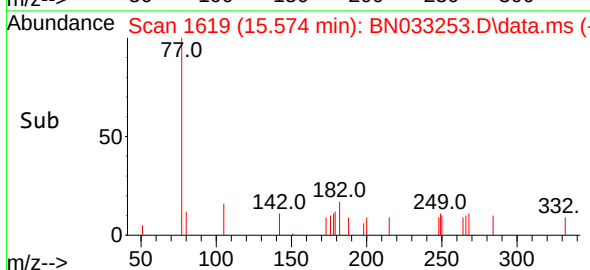
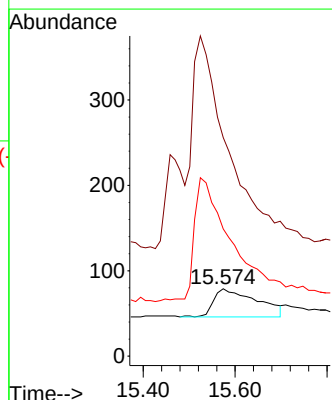
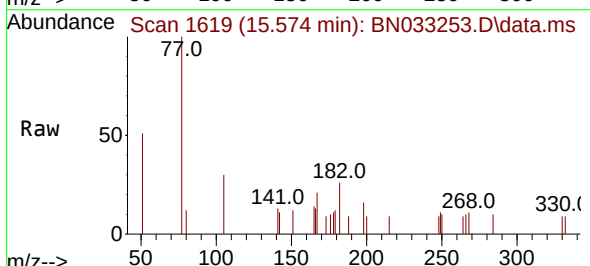
RT: 15.574 min Scan# 1619

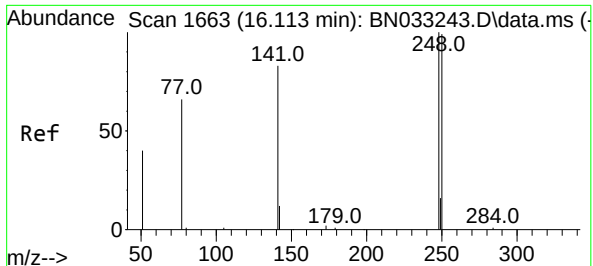
Delta R.T. 0.007 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Tgt Ion	Ratio	Lower	Upper
198	100		
51	324.1	250.6	375.8
105	188.6	152.6	229.0





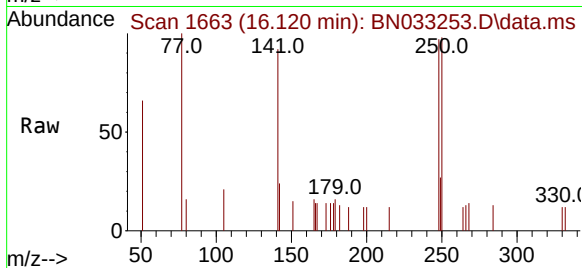
#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 16.120 min Scan# 1663
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

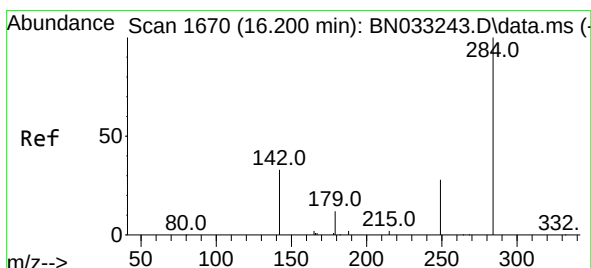
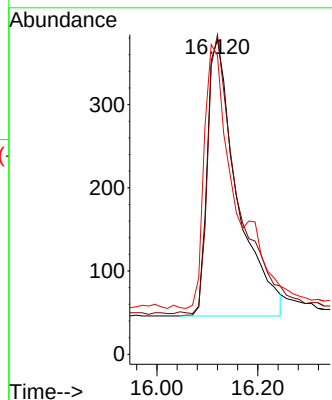
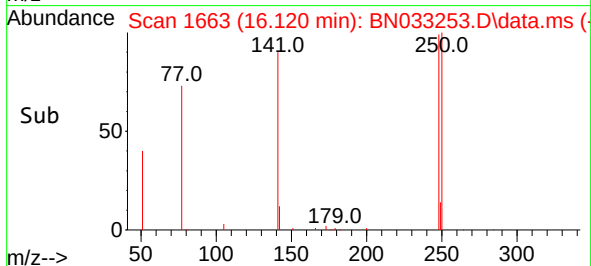
PB162464BS



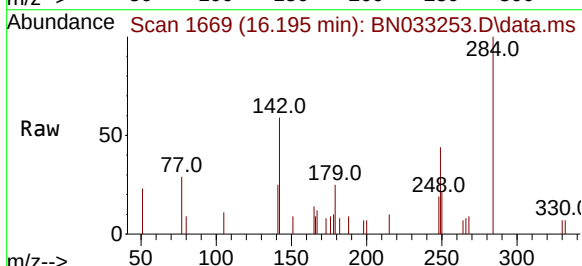
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	80.0	120.0
141	95.0	71.0	106.6

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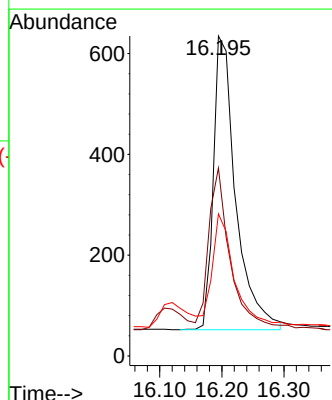
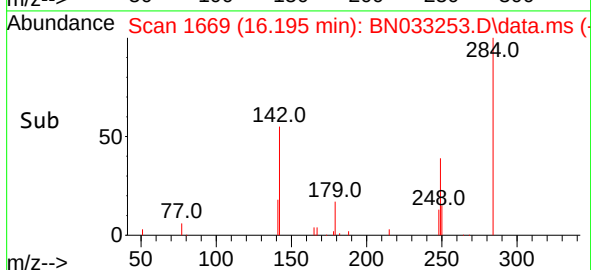
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

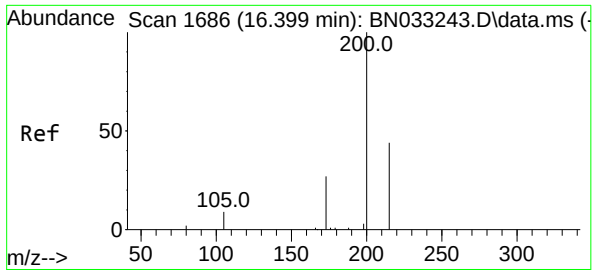


#22
Hexachlorobenzene
Concen: 0.402 ng
RT: 16.195 min Scan# 1669
Delta R.T. -0.005 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41



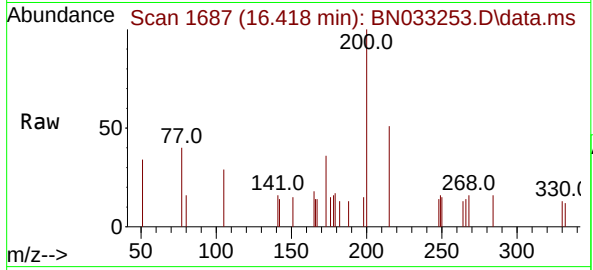
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.0	38.8	58.2
249	35.4	27.8	41.6





#23
Atrazine
Concen: 0.354 ng
RT: 16.418 min Scan# 116
Delta R.T. 0.019 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

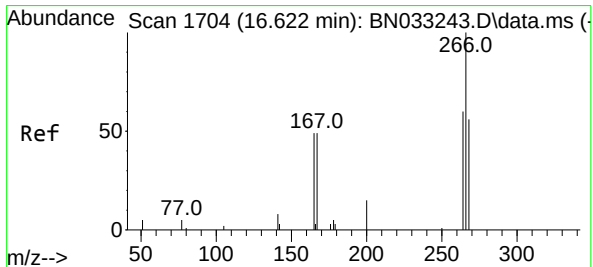
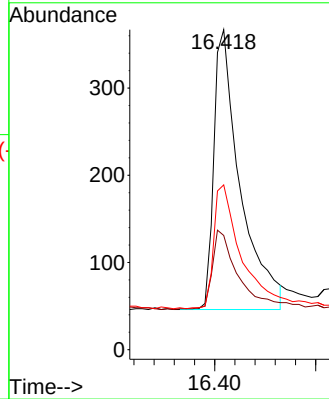
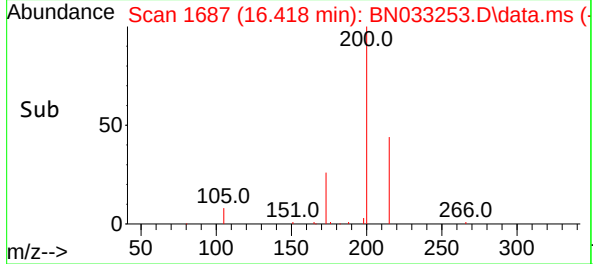
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:200 Resp: 116
Ion Ratio Lower Upper
200 100
173 35.7 29.2 43.8
215 51.5 41.5 62.3

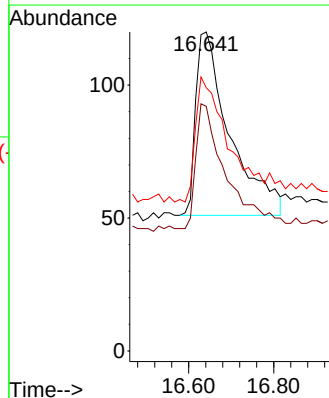
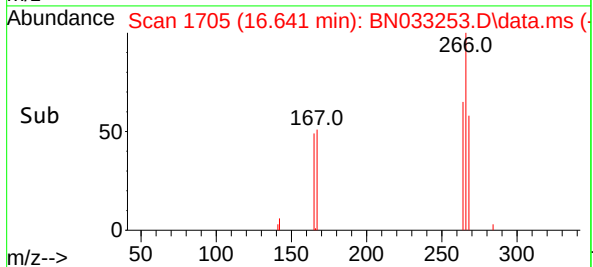
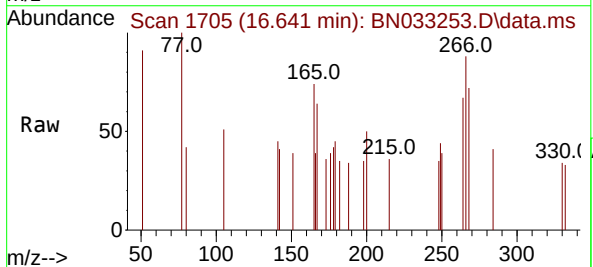
Manual Integrations
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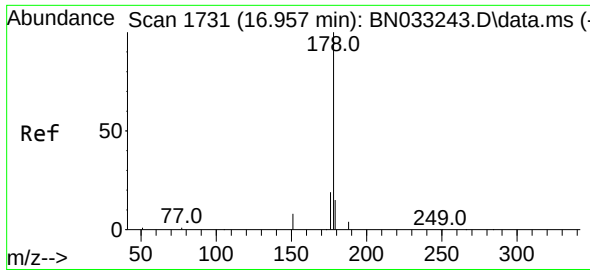
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.317 ng
RT: 16.641 min Scan# 1705
Delta R.T. 0.019 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

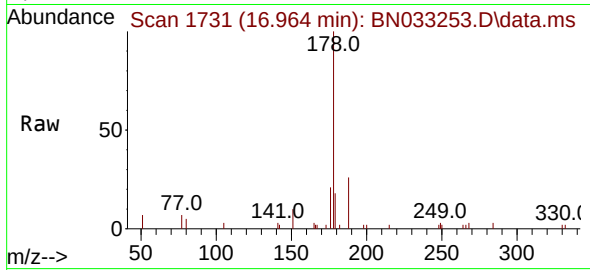
Tgt Ion:266 Resp: 385
Ion Ratio Lower Upper
266 100
264 59.7 49.3 73.9
268 66.0 50.2 75.2





#25
Phenanthrene
Concen: 0.375 ng
RT: 16.964 min Scan# 1731
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

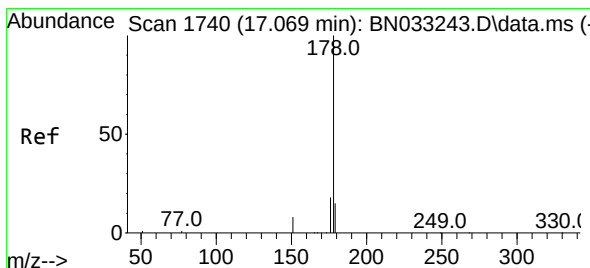
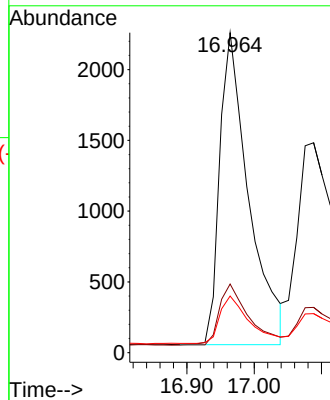
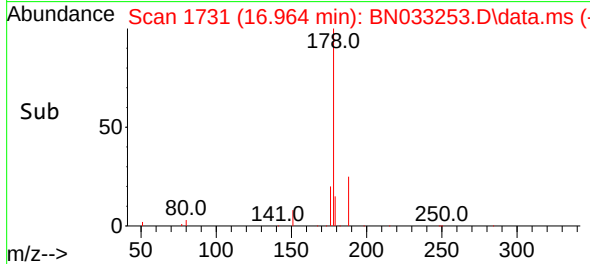
Instrument :
BNA_N
ClientSampleId :
PB162464BS



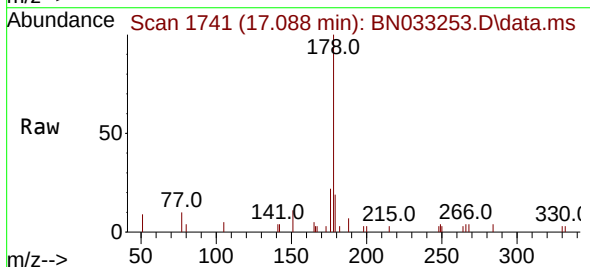
Tgt Ion:178 Resp: 6619
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.3 12.4 18.6

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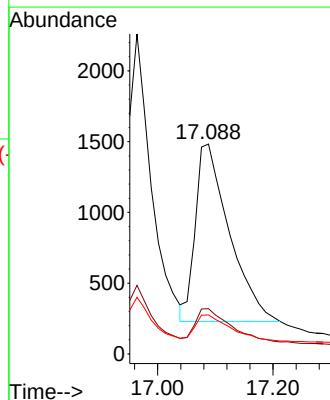
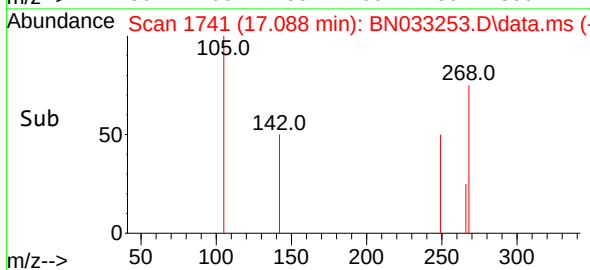
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

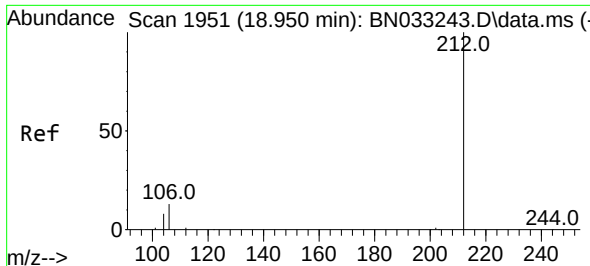


#26
Anthracene
Concen: 0.346 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.019 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41



Tgt Ion:178 Resp: 5118
Ion Ratio Lower Upper
178 100
176 19.2 10.5 15.7#
179 15.3 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.957 min Scan# 1951

Delta R.T. 0.007 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

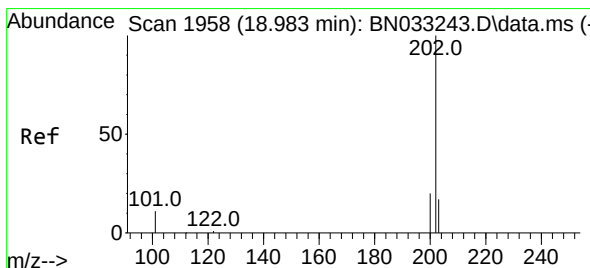
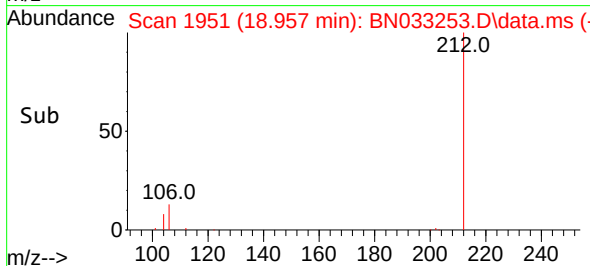
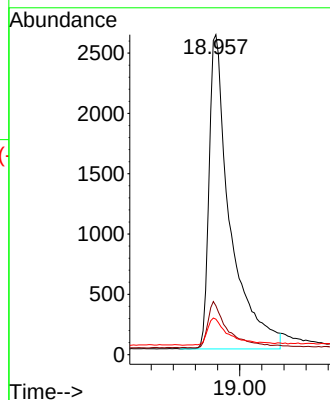
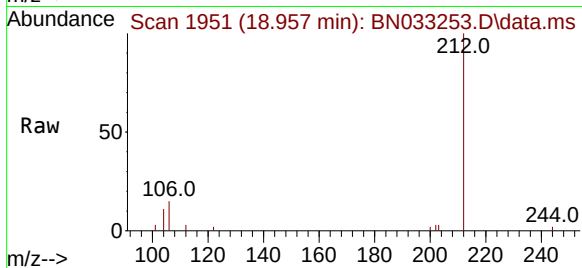
PB162464BS

Tgt Ion:	212	Resp:	687
Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.4	17.0
104	8.4	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.366 ng

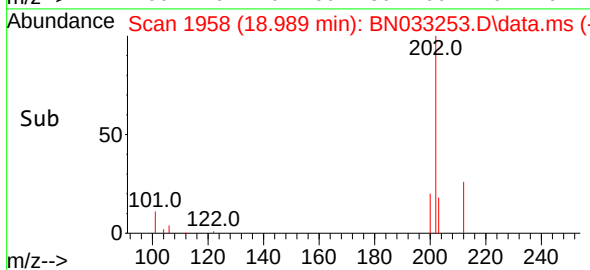
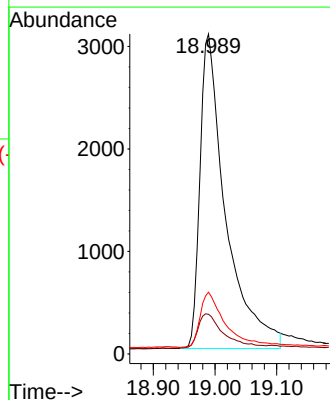
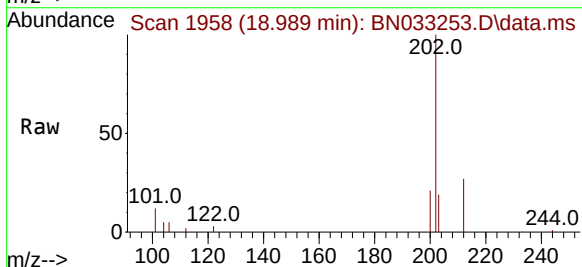
RT: 18.989 min Scan# 1958

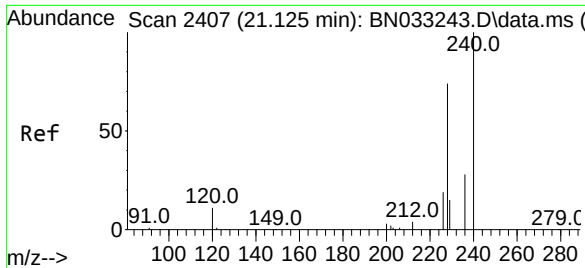
Delta R.T. 0.007 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

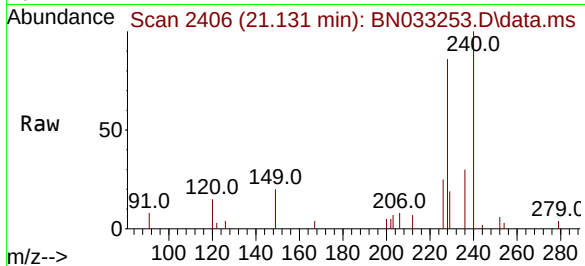
Tgt Ion:	202	Resp:	8870
Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.6	13.0
203	17.6	13.8	20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. 0.006 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

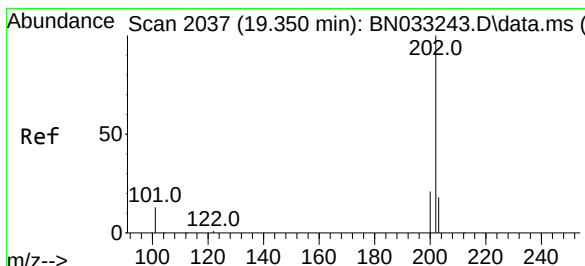
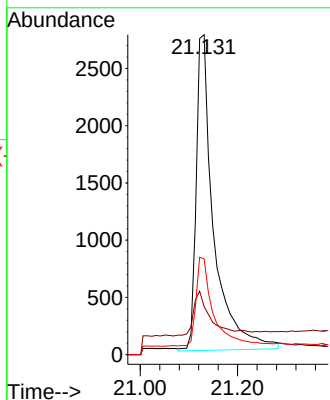
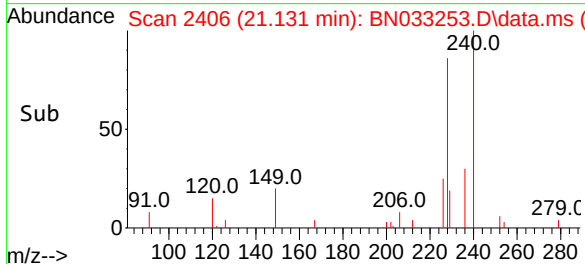
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:240 Resp: 688
Ion Ratio Lower Upper
240 100
120 15.1 13.3 19.9
236 29.9 23.8 35.6

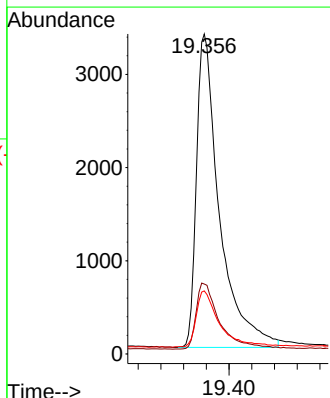
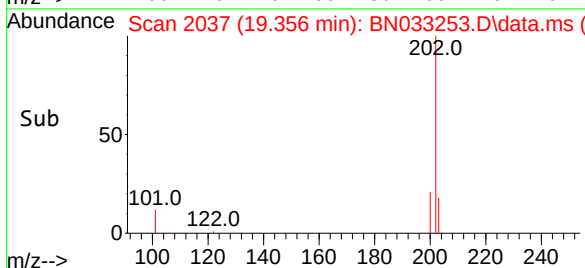
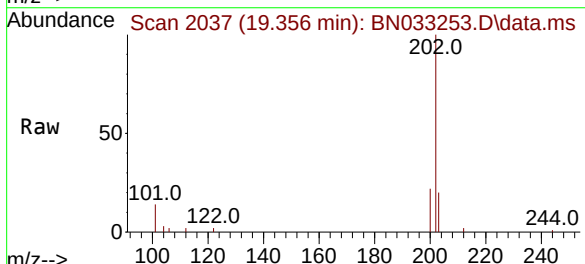
Manual Integrations
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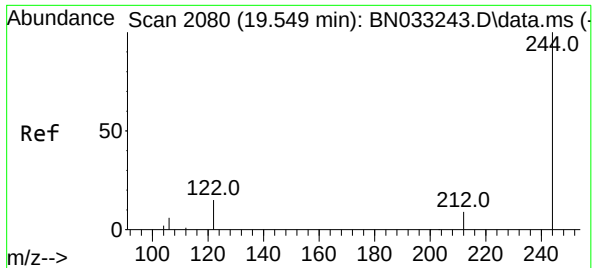
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30
Pyrene
Concen: 0.393 ng
RT: 19.356 min Scan# 2037
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion:202 Resp: 9455
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.4
203 18.1 14.4 21.6





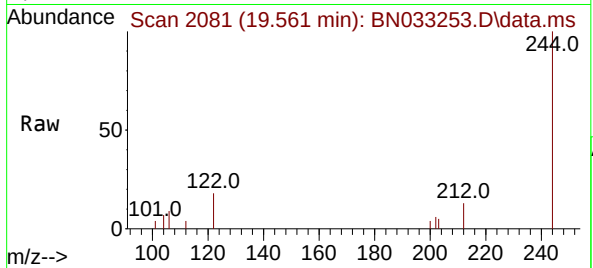
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.561 min Scan# 2081
Delta R.T. 0.011 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

PB162464BS

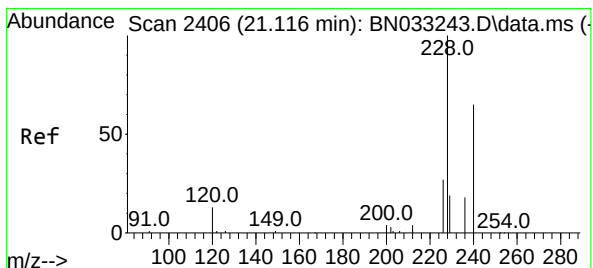
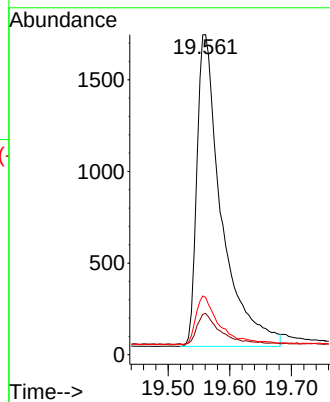


Tgt Ion:244 Resp: 472
Ion Ratio Lower Upper
244 100
212 12.9 9.9 14.9
122 17.9 14.1 21.1

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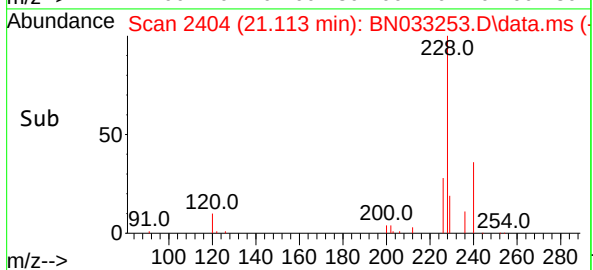
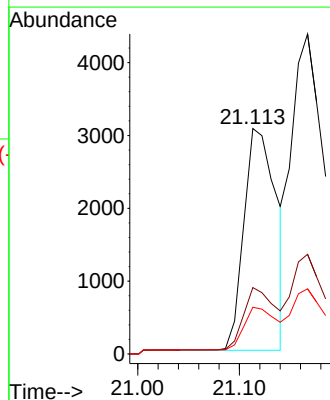
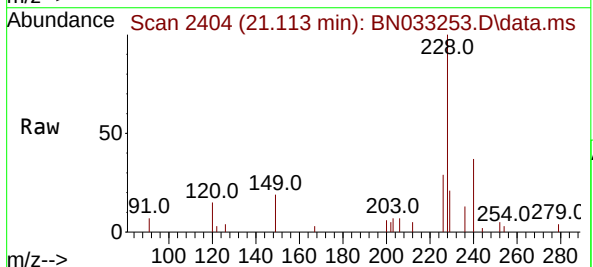
APPROVED

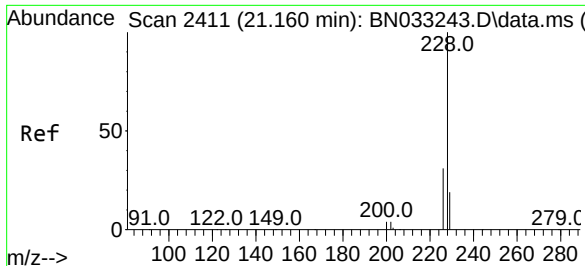
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.338 ng
RT: 21.113 min Scan# 2404
Delta R.T. -0.003 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

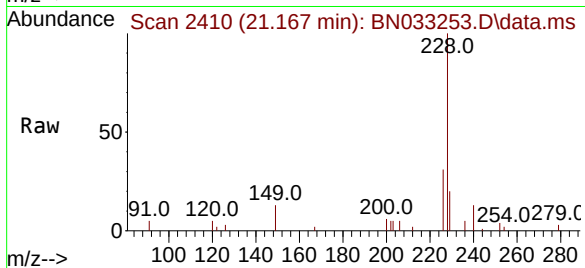
Tgt Ion:228 Resp: 6708
Ion Ratio Lower Upper
228 100
226 29.4 22.4 33.6
229 20.7 16.6 25.0





#33
Chrysene
Concen: 0.431 ng
RT: 21.167 min Scan# 2411
Delta R.T. 0.007 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

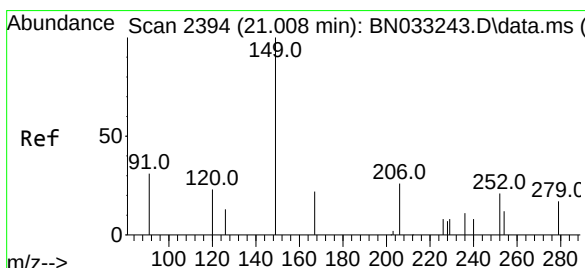
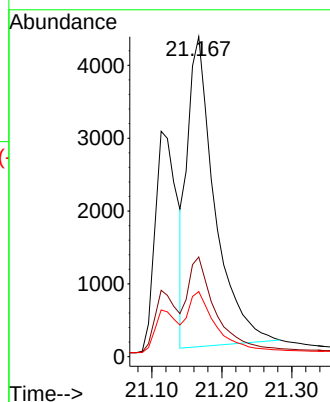
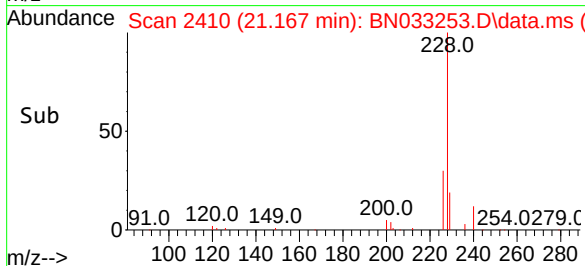
Instrument :
BNA_N
ClientSampleId :
PB162464BS



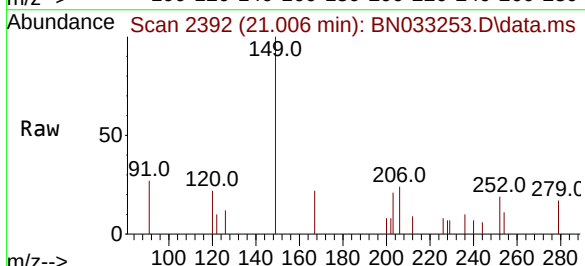
Tgt Ion:228 Resp: 1148
Ion Ratio Lower Upper
228 100
226 31.1 25.1 37.7
229 20.3 16.2 24.2

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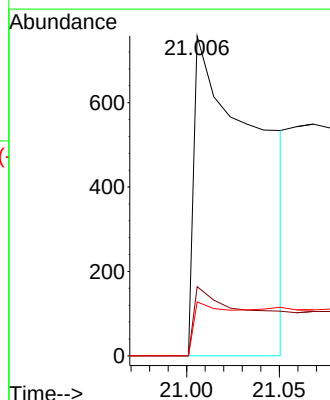
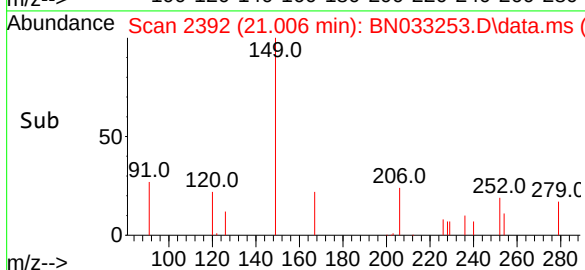
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

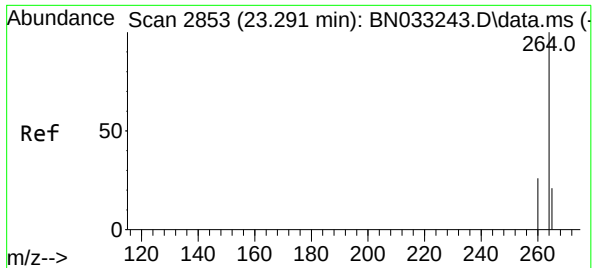


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.346 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.003 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41



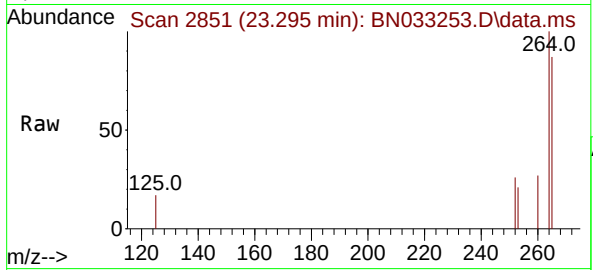
Tgt Ion:149 Resp: 1648
Ion Ratio Lower Upper
149 100
167 23.8 19.8 29.6
279 8.6 8.2 12.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.295 min Scan# 2853
Delta R.T. 0.004 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

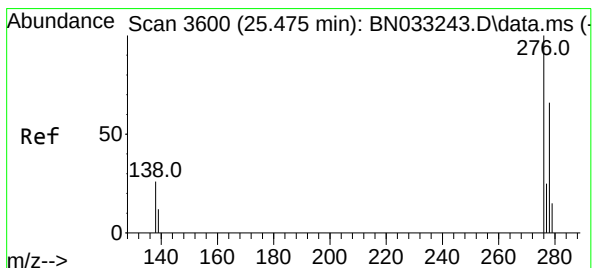
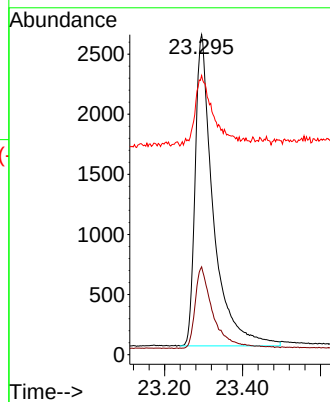
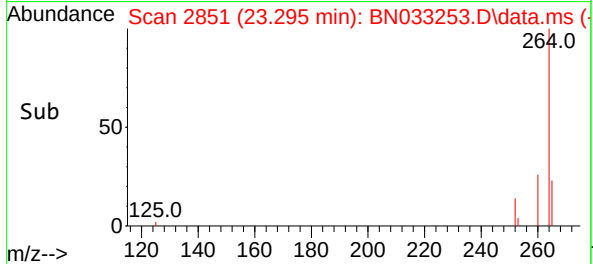
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:264 Resp: 8358
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 87.3 66.6 99.8

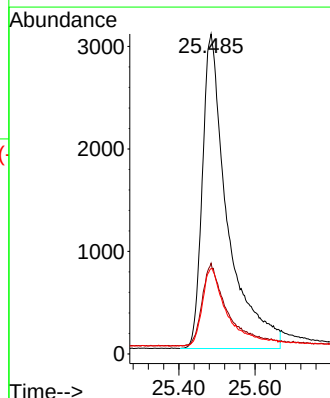
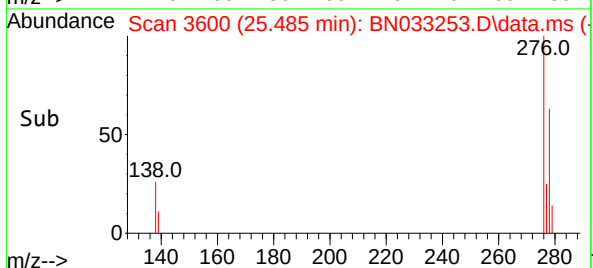
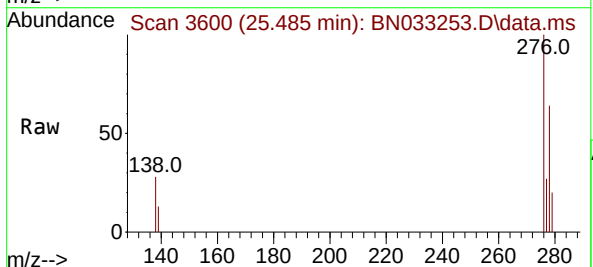
Manual Integrations
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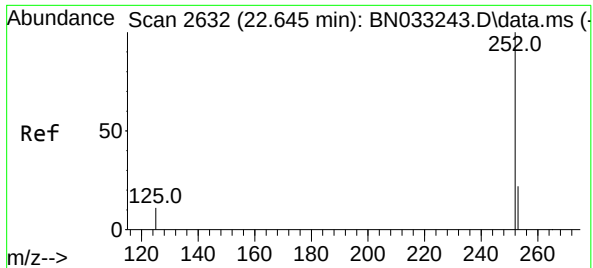
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.485 min Scan# 3600
Delta R.T. 0.009 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

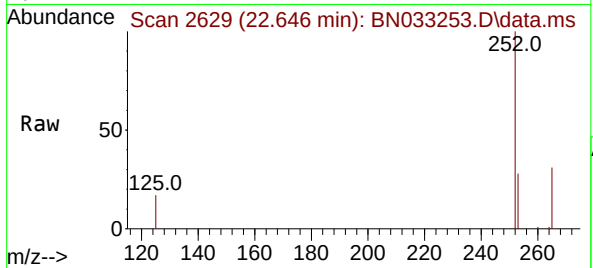
Tgt Ion:276 Resp: 13997
Ion Ratio Lower Upper
276 100
138 27.0 20.4 30.6
277 24.2 19.9 29.9





#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.646 min Scan# 2629
Delta R.T. 0.001 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

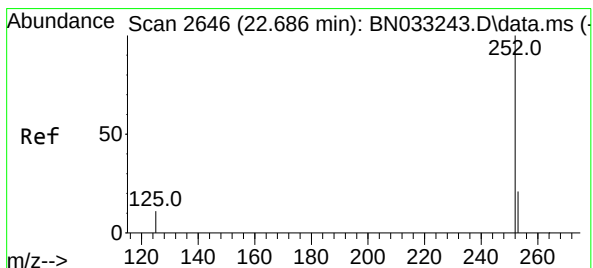
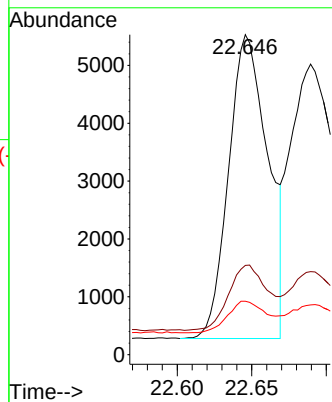
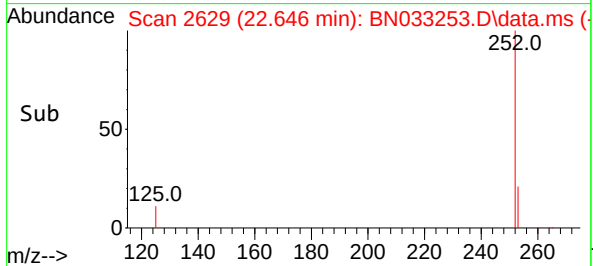
Instrument :
BNA_N
ClientSampleId :
PB162464BS



Tgt Ion:252 Resp: 9650
Ion Ratio Lower Upper
252 100
253 27.9 23.3 34.9
125 16.7 14.6 22.0

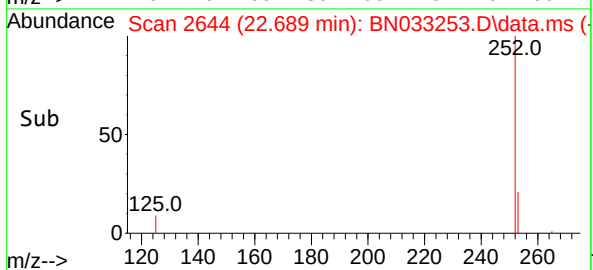
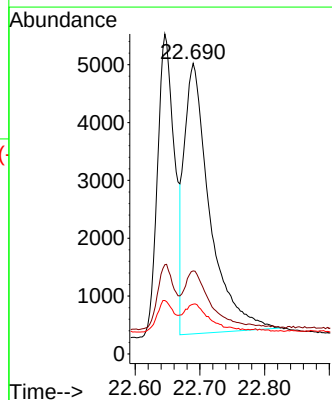
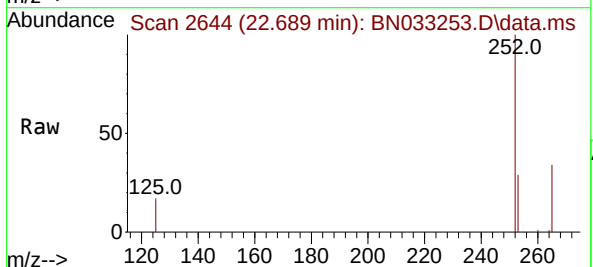
Manual Integrations
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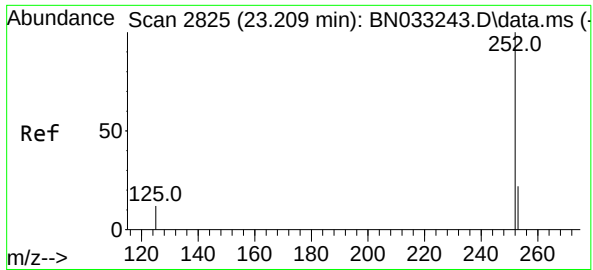
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#38
Benzo(k)fluoranthene
Concen: 0.403 ng
RT: 22.689 min Scan# 2644
Delta R.T. 0.004 min
Lab File: BN033253.D
Acq: 06 Aug 2024 02:41

Tgt Ion:252 Resp: 12796
Ion Ratio Lower Upper
252 100
253 28.6 23.7 35.5
125 17.1 15.4 23.0





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.213 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

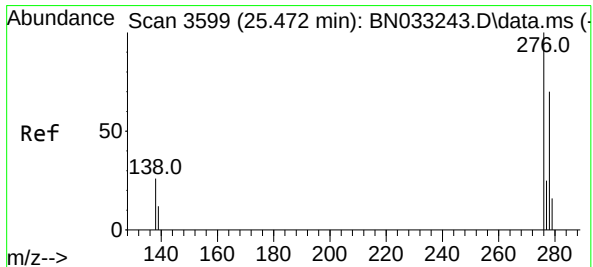
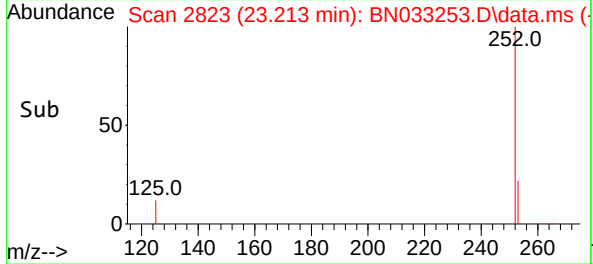
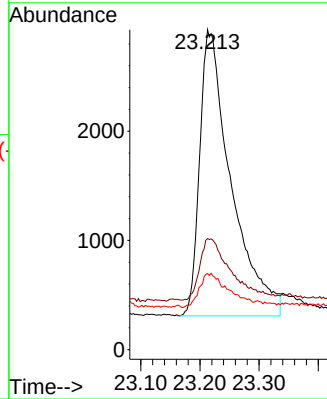
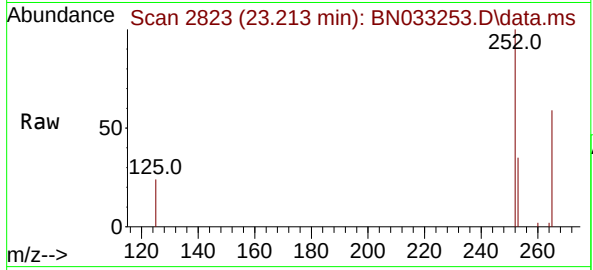
PB162464BS

Tgt Ion:	252	Resp:	966
Ion Ratio	Lower	Upper	
252	100		
253	34.7	28.4	42.6
125	23.8	20.1	30.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.369 ng

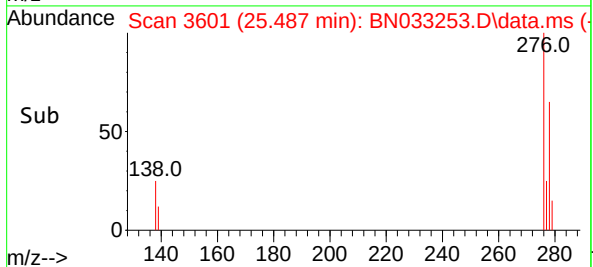
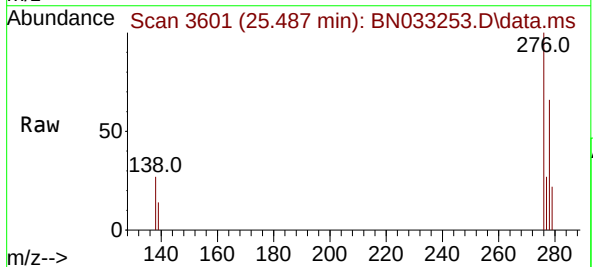
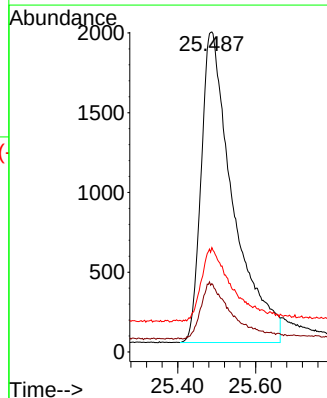
RT: 25.487 min Scan# 3601

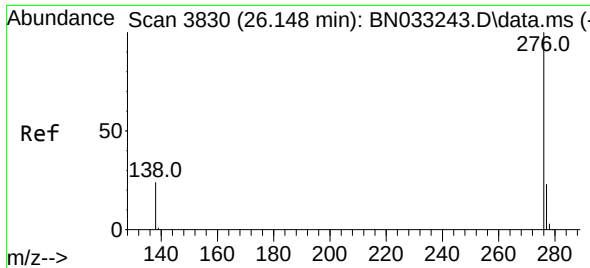
Delta R.T. 0.015 min

Lab File: BN033253.D

Acq: 06 Aug 2024 02:41

Tgt Ion:	278	Resp:	11023
Ion Ratio	Lower	Upper	
278	100		
139	21.3	16.7	25.1
279	32.6	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.151 min Scan# 3828

Delta R.T. 0.004 min

Lab File: BN033253.D

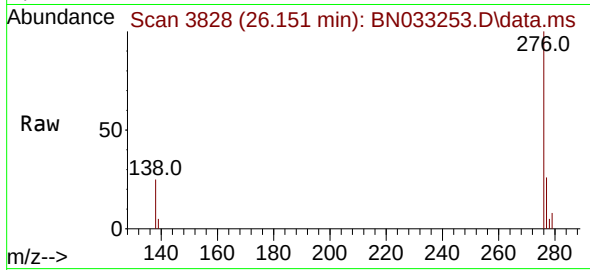
Acq: 06 Aug 2024 02:41

Instrument :

BNA_N

ClientSampleId :

PB162464BS



Tgt Ion:276 Resp: 12920

Ion Ratio Lower Upper

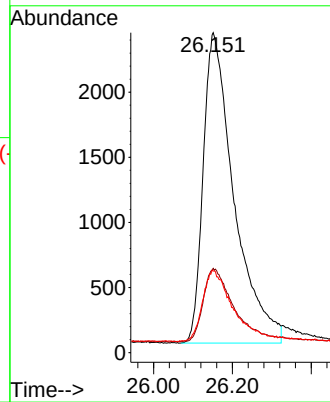
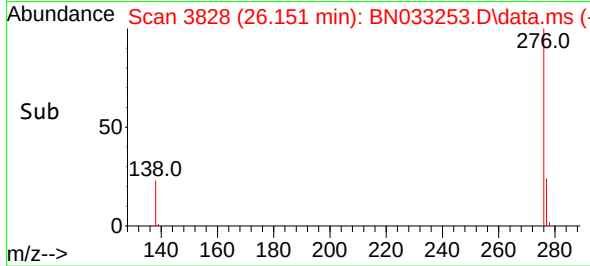
276 100

277 26.3 21.0 31.4

138 25.5 21.4 32.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124MS	SDG No.:	P3440
Lab Sample ID:	P3440-02MS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033232.D	1	08/02/24 09:25	08/03/24 11:00	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.31		0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.30		0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.36		0.020	0.11	ug/L
83-32-9	Acenaphthene	0.38		0.020	0.11	ug/L
86-73-7	Fluorene	0.39		0.020	0.11	ug/L
85-01-8	Phenanthrene	0.60		0.020	0.11	ug/L
120-12-7	Anthracene	0.39		0.030	0.11	ug/L
206-44-0	Fluoranthene	0.50		0.030	0.11	ug/L
129-00-0	Pyrene	0.53		0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.42		0.020	0.11	ug/L
218-01-9	Chrysene	0.40		0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.040	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.34		0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.38		0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.36		0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.20	J	0.080	0.22	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		30 (30) - 150 (150)	75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 (30) - 150 (150)	78%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		30 (11) - 130 (175)	70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		30 (10) - 130 (175)	75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		30 (54) - 130 (171)	119%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2740	7.51			
1146-65-2	Naphthalene-d8	9490	10.276			
15067-26-2	Acenaphthene-d10	5340	14.126			
1517-22-2	Phenanthrene-d10	10300	16.895			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124MS	SDG No.:	P3440
Lab Sample ID:	P3440-02MS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033232.D	1	08/02/24 09:25	08/03/24 11:00	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7730	21.125			
1520-96-3	Perylene-d12	7970	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033232.D
Acq On : 03 Aug 2024 11:00
Operator : MA/JU
Sample : P3440-02MS
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:26:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	2735	0.400	ng	0.00
7) Naphthalene-d8	10.276	136	9491	0.400	ng	#-0.01
13) Acenaphthene-d10	14.126	164	5337	0.400	ng	-0.01
19) Phenanthrene-d10	16.895	188	10317	0.400	ng	#-0.02
29) Chrysene-d12	21.125	240	7725	0.400	ng	0.00
35) Perylene-d12	23.303	264	7969	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.264	112	1140m	0.165	ng	0.02
5) Phenol-d6	6.939	99	952m	0.111	ng	0.06
8) Nitrobenzene-d5	8.792	82	2013	0.282	ng	-0.02
11) 2-Methylnaphthalene-d10	11.871	152	4352	0.300	ng	-0.03
14) 2,4,6-Tribromophenol	15.679	330	648	0.284	ng	-0.04
15) 2-Fluorobiphenyl	12.758	172	5956	0.300	ng	-0.03
27) Fluoranthene-d10	18.946	212	8331	0.312	ng	-0.01
31) Terphenyl-d14	19.545	244	7556	0.477	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.083	88	600	0.177	ng	# 34
3) n-Nitrosodimethylamine	3.444	42	422	0.147	ng	# 98
6) bis(2-Chloroethyl)ether	7.019	93	2938	0.409	ng	# 44
9) Naphthalene	10.319	128	7347	0.280	ng	# 97
10) Hexachlorobutadiene	10.522	225	1237	0.246	ng	# 99
12) 2-Methylnaphthalene	11.946	142	4658	0.271	ng	94
16) Acenaphthylene	13.859	152	6998	0.322	ng	99
17) Acenaphthene	14.190	154	5323	0.346	ng	99
18) Fluorene	15.195	166	7309	0.355	ng	100
21) 4-Bromophenyl-phenylether	16.088	248	1730	0.285	ng	94
22) Hexachlorobenzene	16.200	284	1910	0.281	ng	# 89
23) Atrazine	16.386	200	1842	0.413	ng	98
24) Pentachlorophenol	16.597	266	1554	0.616	ng	96
25) Phenanthrene	16.945	178	15316	0.543	ng	99
26) Anthracene	17.044	178	8127	0.350	ng	98
28) Fluoranthene	18.978	202	15468	0.453	ng	99
30) Pyrene	19.345	202	14923	0.473	ng	99
32) Benzo(a)anthracene	21.107	228	9257m	0.379	ng	
33) Chrysene	21.160	228	10368	0.357	ng	97
34) Bis(2-ethylhexyl)phtha...	21.008	149	3601	0.266	ng	# 83
36) Indeno(1,2,3-cd)pyrene	25.504	276	10811	0.344	ng	98
37) Benzo(b)fluoranthene	22.654	252	9073	0.327	ng	96
38) Benzo(k)fluoranthene	22.698	252	9577	0.302	ng	95
39) Benzo(a)pyrene	23.218	252	8728	0.349	ng	92
40) Dibenzo(a,h)anthracene	25.493	278	8118	0.327	ng	96
41) Benzo(g,h,i)perylene	26.177	276	9089	0.331	ng	95

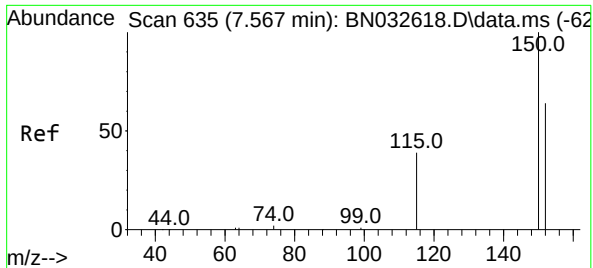
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Manual Integrations APPROVED

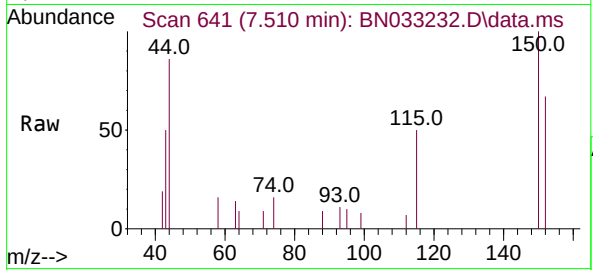
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.510 min Scan# 641
Delta R.T. 0.007 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

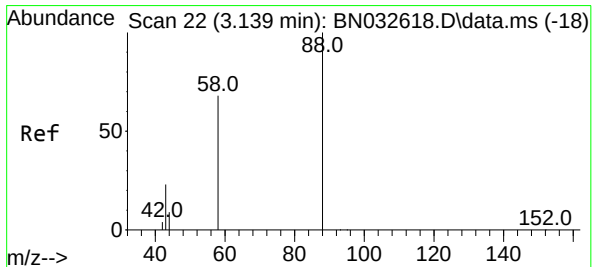
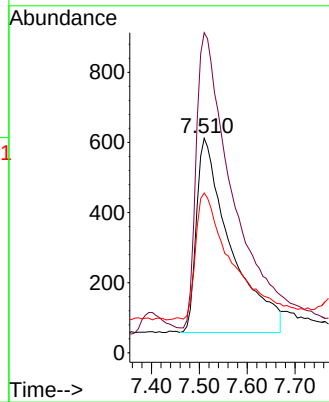
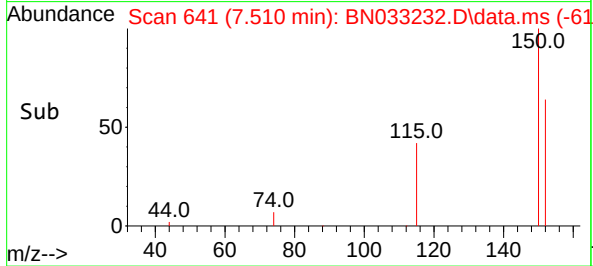
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion: 152 Resp: 273
Ion Ratio Lower Upper
152 100
150 149.2 123.8 185.6
115 74.5 52.8 79.2

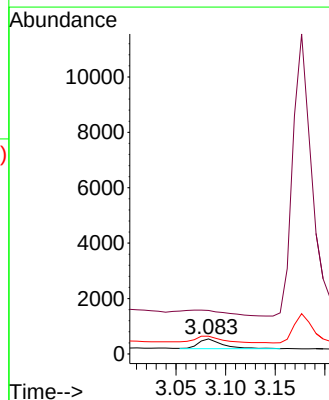
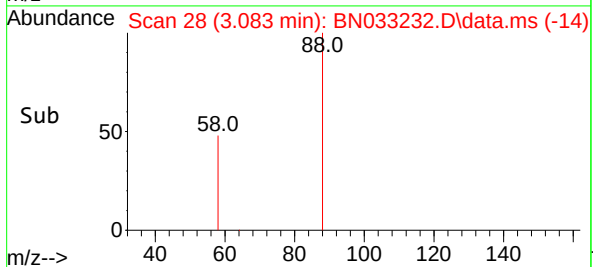
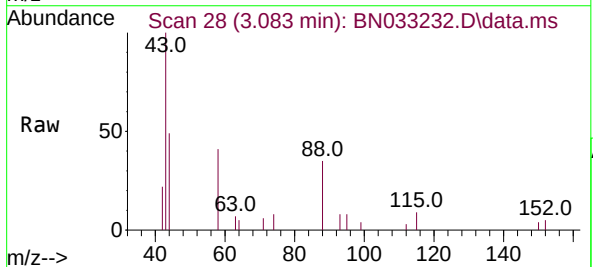
Manual Integrations
APPROVED

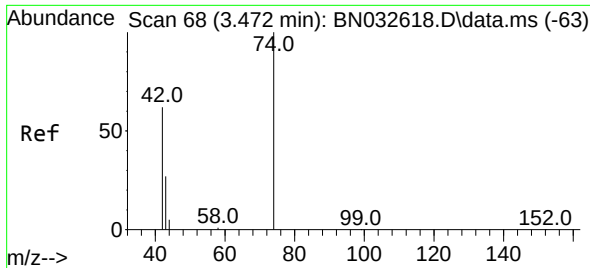
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.177 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

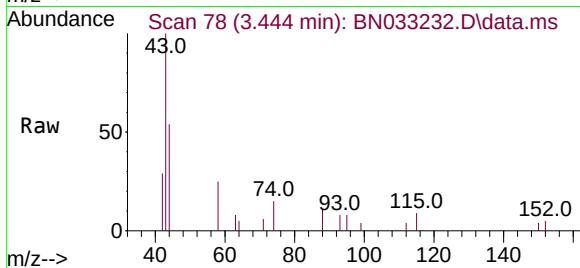
Tgt Ion: 88 Resp: 600
Ion Ratio Lower Upper
88 100
43 110.3 18.4 27.6#
58 79.7 49.2 73.8#





#3
n-Nitrosodimethylamine
Concen: 0.147 ng
RT: 3.444 min Scan# 70
Delta R.T. -0.029 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

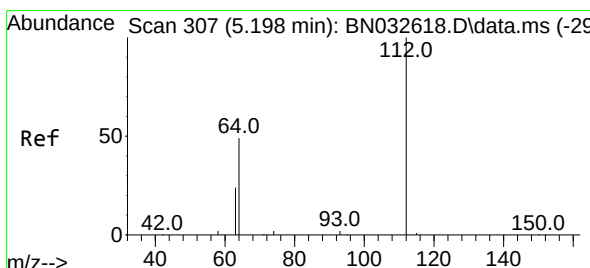
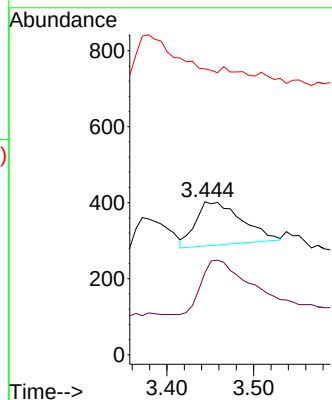
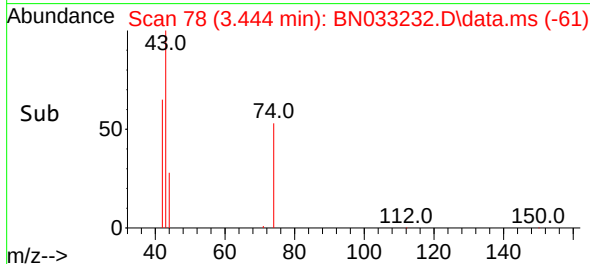
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion: 42 Resp: 42
Ion Ratio Lower Upper
42 100
74 156.2 126.9 190.3
44 0.0 4.8 7.2

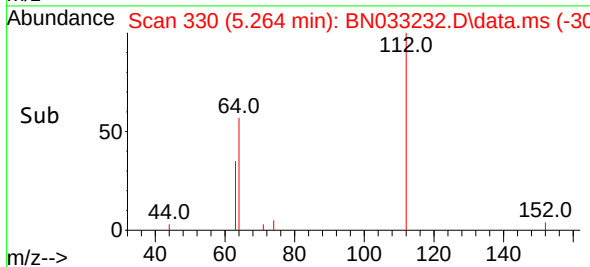
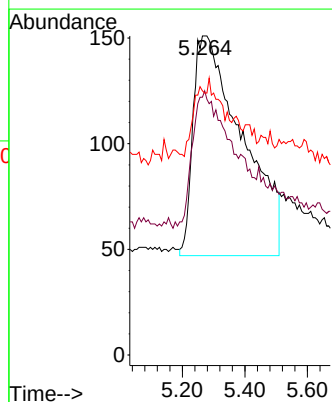
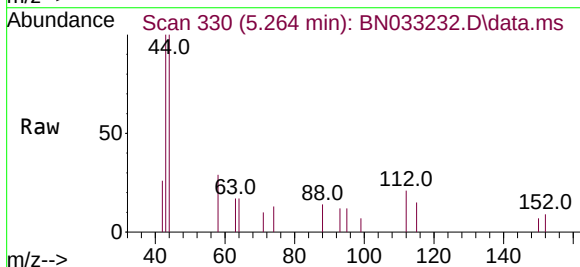
Manual Integrations
APPROVED

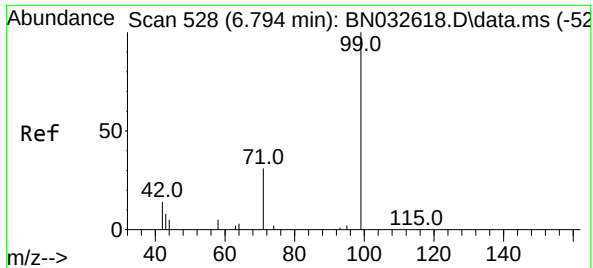
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.165 ng m
RT: 5.264 min Scan# 330
Delta R.T. 0.022 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

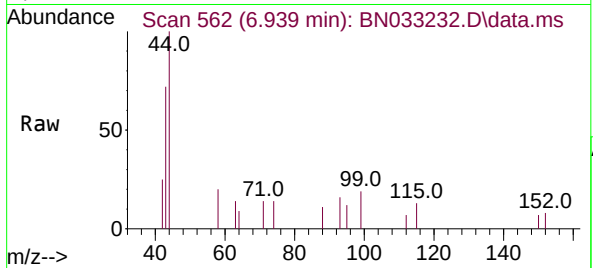
Tgt Ion:112 Resp: 1140
Ion Ratio Lower Upper
112 100
64 43.5 40.2 60.4
63 7.3 22.2 33.4





#5
Phenol-d6
Concen: 0.111 ng m
RT: 6.939 min Scan# 501
Delta R.T. 0.058 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

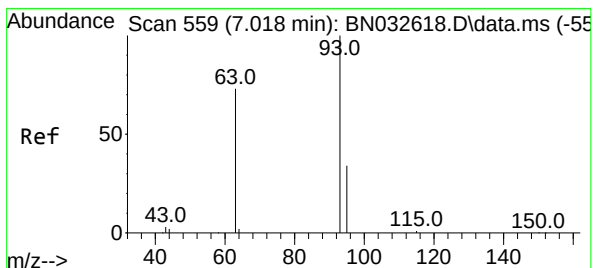
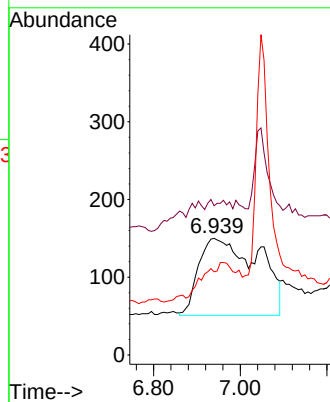
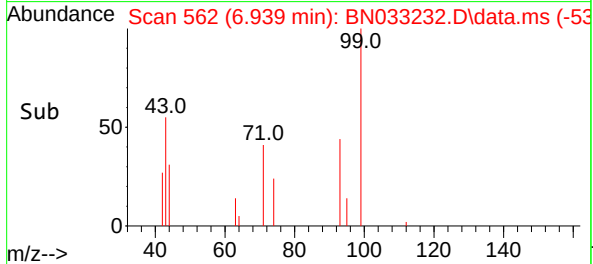
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion: 99 Resp: 952
Ion Ratio Lower Upper
99 100
42 1.2 10.5 15.7#
71 0.0 22.3 33.5#

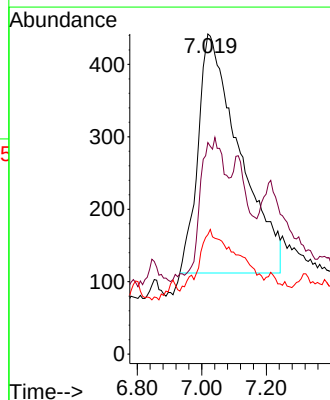
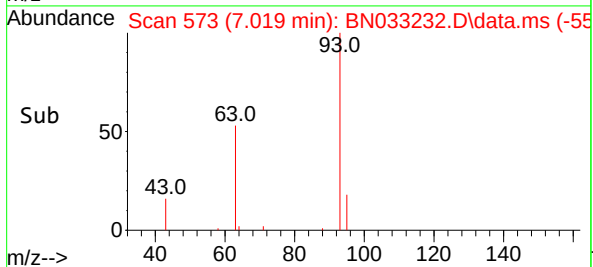
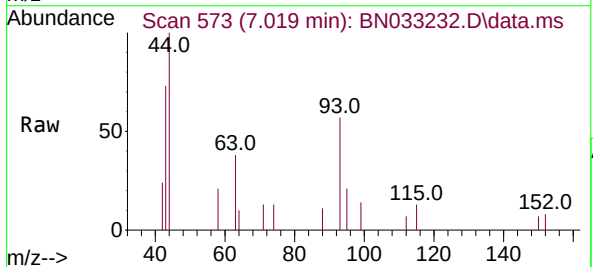
Manual Integrations
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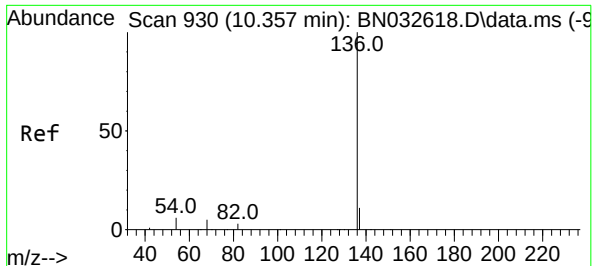
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.019 min Scan# 573
Delta R.T. 0.007 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

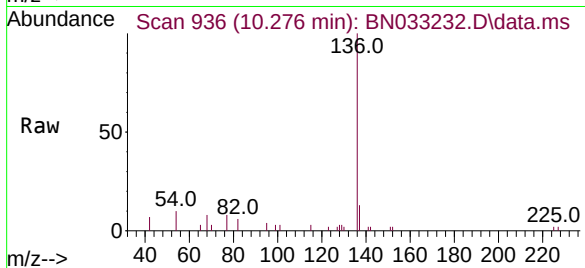
Tgt Ion: 93 Resp: 2938
Ion Ratio Lower Upper
93 100
63 0.0 46.4 69.6#
95 23.8 25.5 38.3#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.276 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

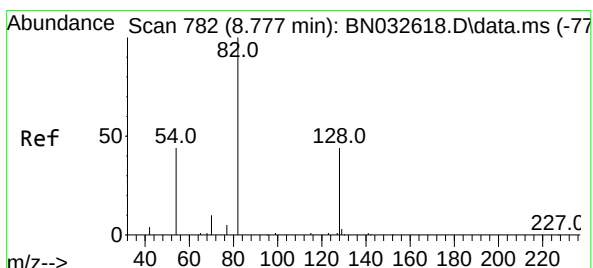
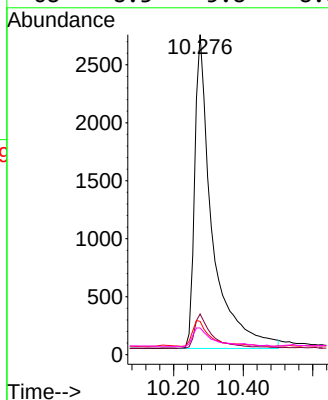
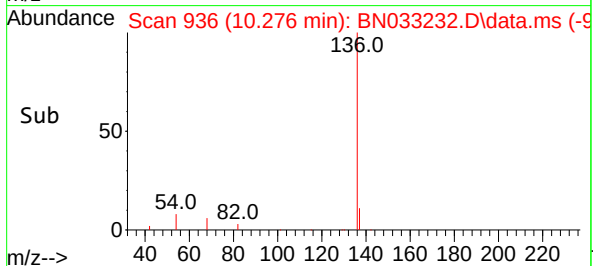
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion: 136 Resp: 949
Ion Ratio Lower Upper
136 100
137 12.7 9.9 14.9
54 10.4 6.5 9.7
68 8.3 5.8 8.8

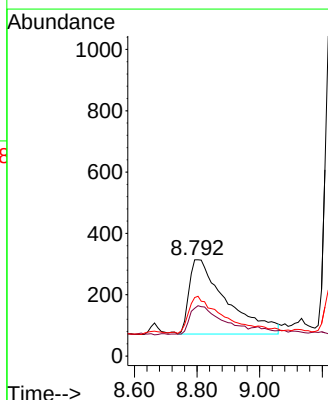
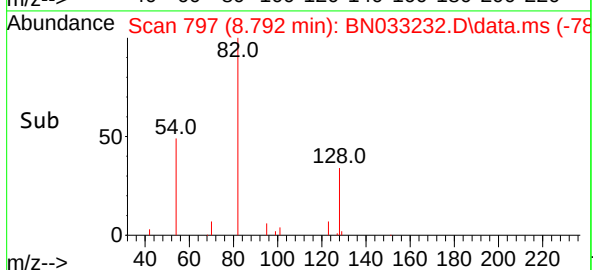
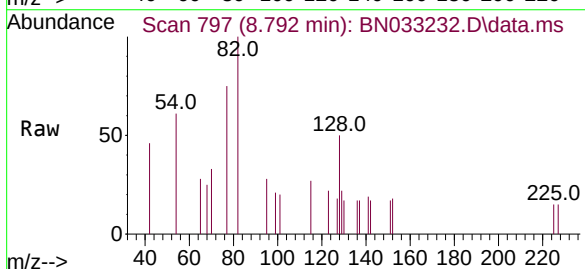
Manual Integrations
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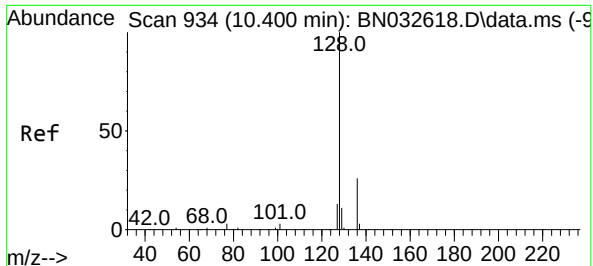
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.282 ng
RT: 8.792 min Scan# 797
Delta R.T. -0.021 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion: 82 Resp: 2013
Ion Ratio Lower Upper
82 100
128 49.7 41.7 62.5
54 60.8 39.5 59.3





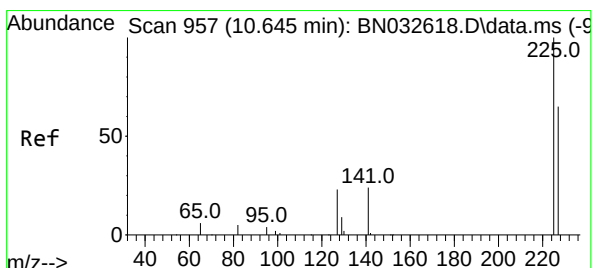
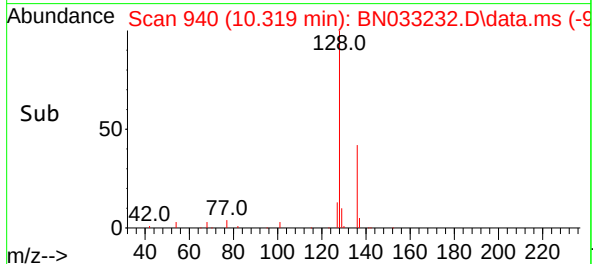
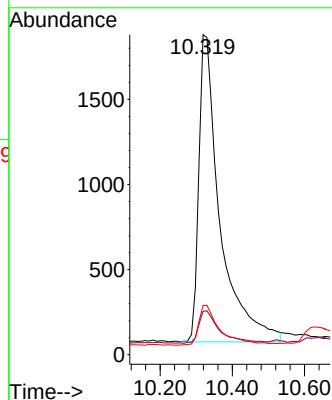
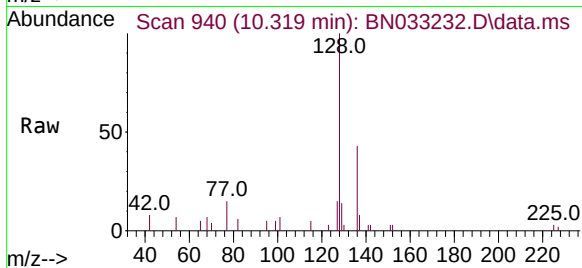
#9
Naphthalene
Concen: 0.280 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.021 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Tgt Ion:128 Resp: 734
Ion Ratio Lower Upper
128 100
129 13.6 9.8 14.8
127 15.4 11.5 17.3

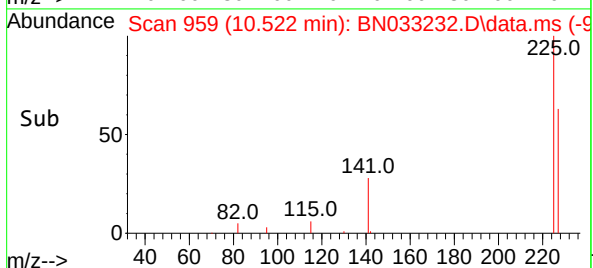
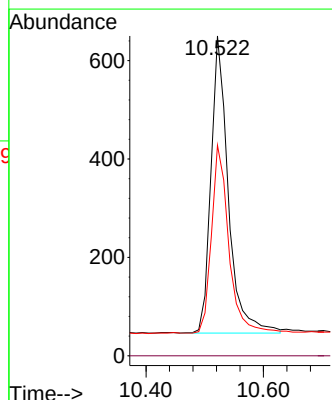
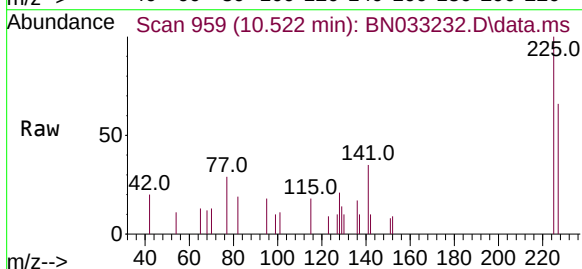
Manual Integrations
APPROVED

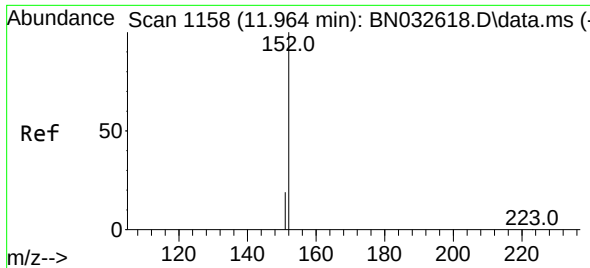
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.246 ng
RT: 10.522 min Scan# 959
Delta R.T. -0.011 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

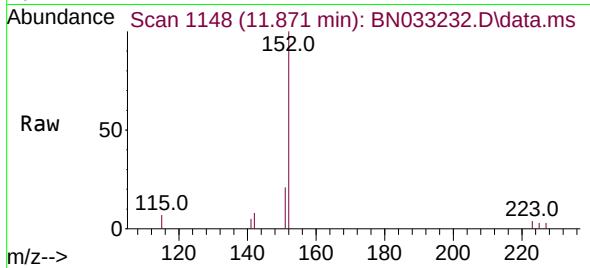
Tgt Ion:225 Resp: 1237
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 11.871 min Scan# 1158
Delta R.T. -0.030 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

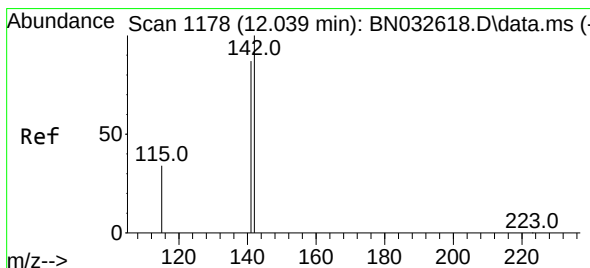
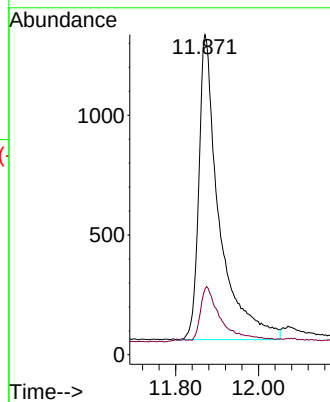
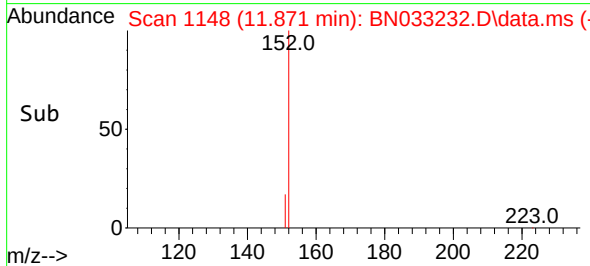
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:152 Resp: 4352
Ion Ratio Lower Upper
152 100
151 16.7 16.2 24.2

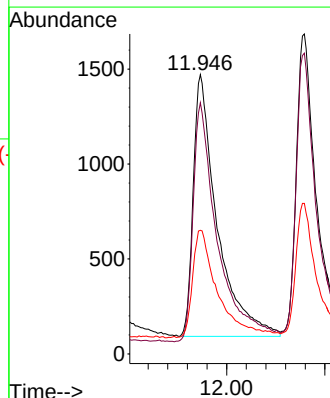
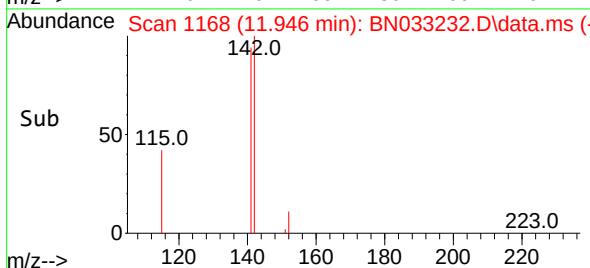
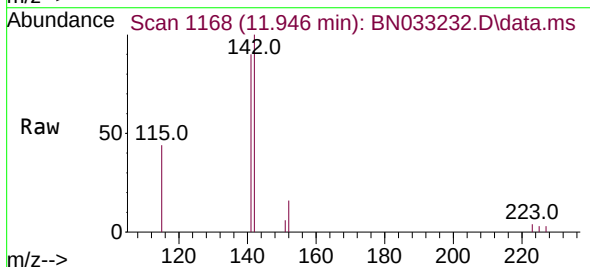
Manual Integrations
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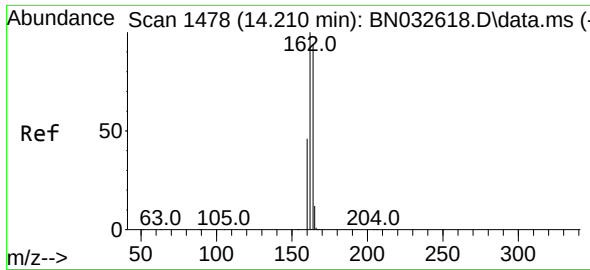
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.271 ng
RT: 11.946 min Scan# 1168
Delta R.T. -0.030 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

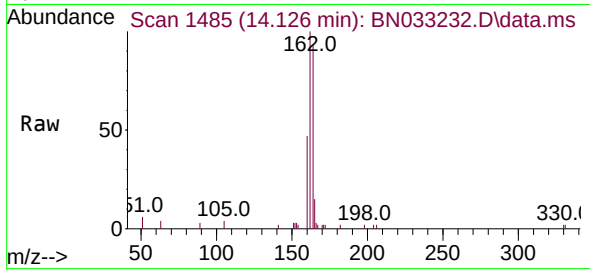
Tgt Ion:142 Resp: 4658
Ion Ratio Lower Upper
142 100
141 89.9 69.3 103.9
115 44.3 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.126 min Scan# 1478
Delta R.T. -0.011 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

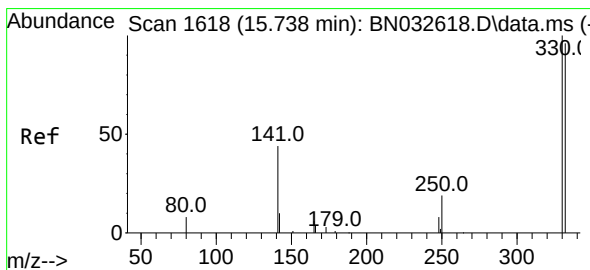
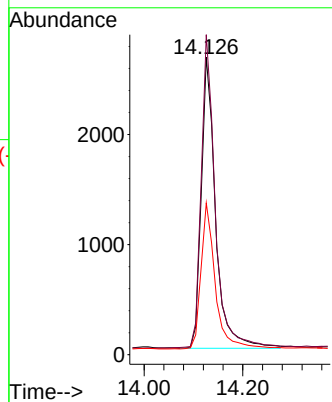
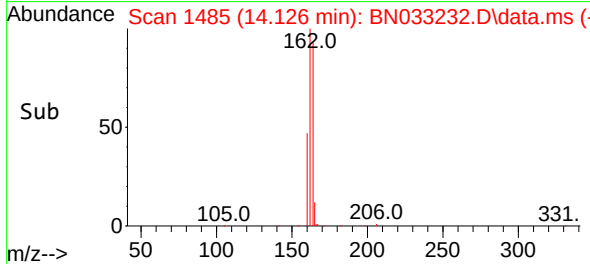
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



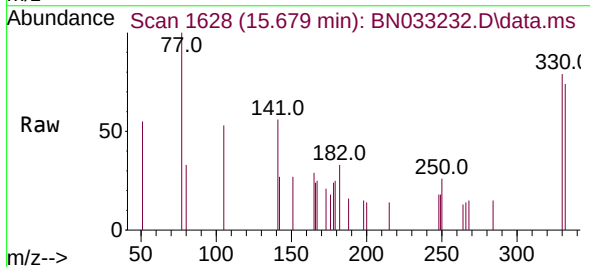
Tgt Ion:164 Resp: 533
Ion Ratio Lower Upper
164 100
162 107.6 85.0 127.4
160 51.0 39.4 59.2

Manual Integrations
APPROVED

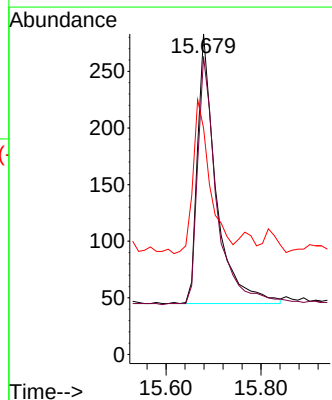
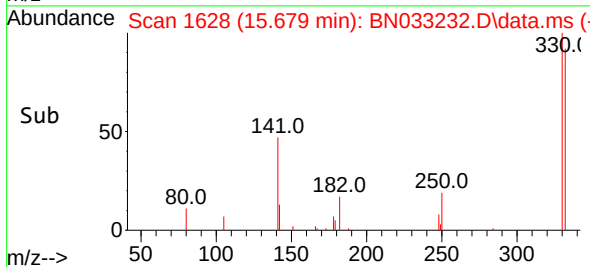
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

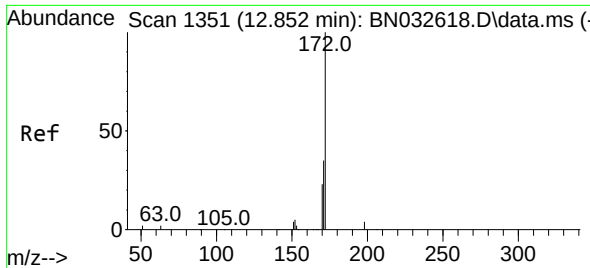


#14
2,4,6-Tribromophenol
Concen: 0.284 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.037 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00



Tgt Ion:330 Resp: 648
Ion Ratio Lower Upper
330 100
332 93.4 77.8 116.8
141 49.7 34.2 51.2





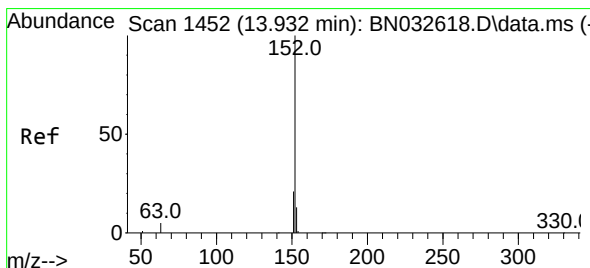
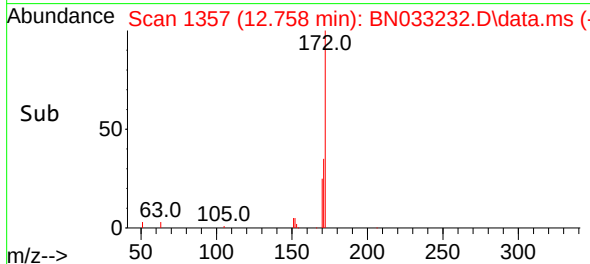
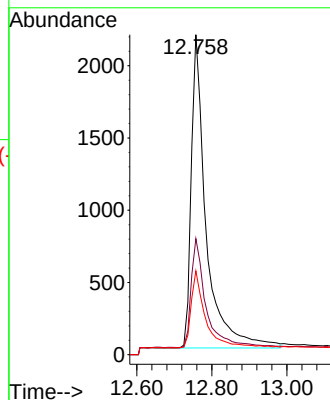
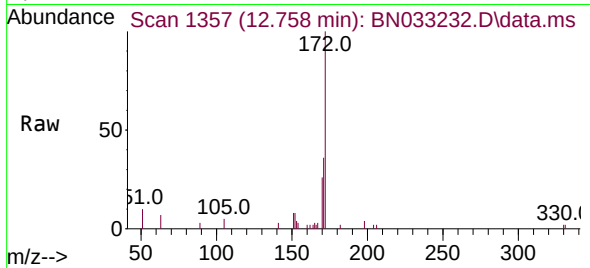
#15
2-Fluorobiphenyl
Concen: 0.300 ng
RT: 12.758 min Scan# 11
Delta R.T. -0.032 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Tgt Ion:172 Resp: 5950
Ion Ratio Lower Upper
172 100
171 36.3 28.6 43.0
170 26.2 19.0 28.6

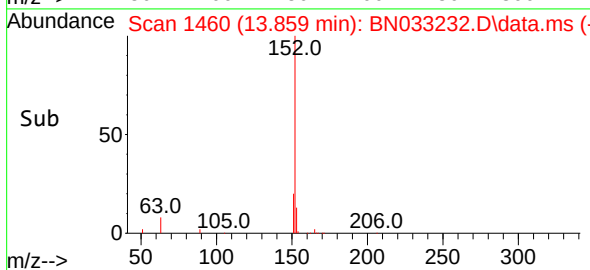
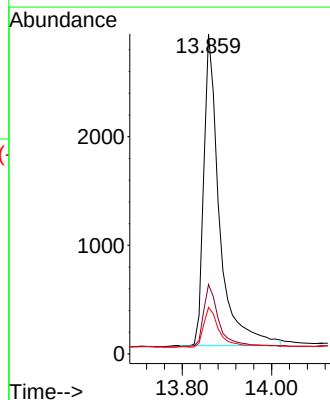
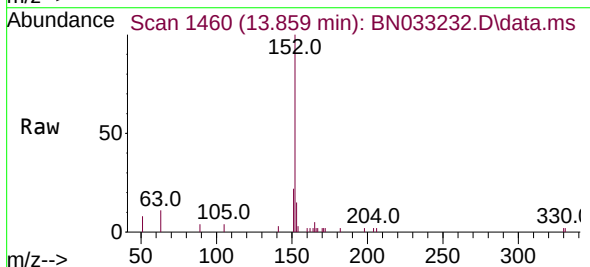
Manual Integrations
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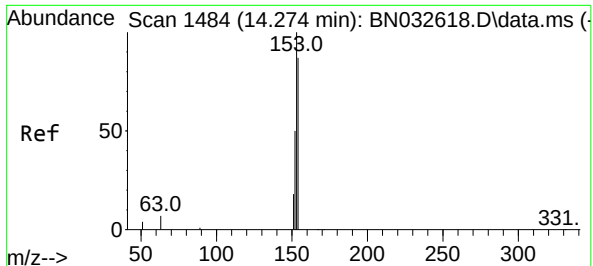
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.322 ng
RT: 13.859 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

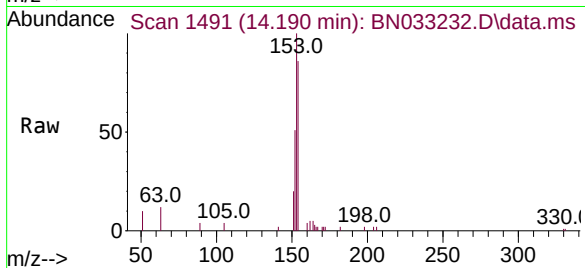
Tgt Ion:152 Resp: 6998
Ion Ratio Lower Upper
152 100
151 20.3 16.0 24.0
153 13.5 10.6 15.8





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.190 min Scan# 1484
Delta R.T. -0.011 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

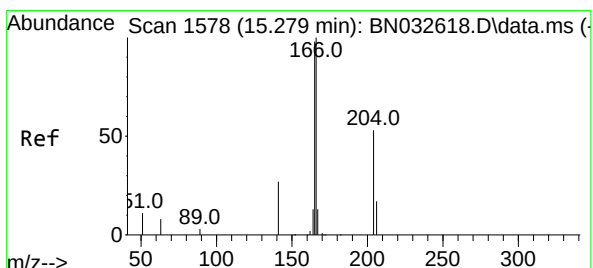
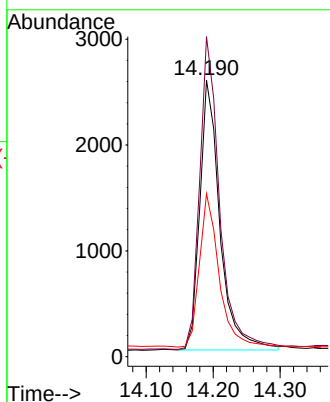
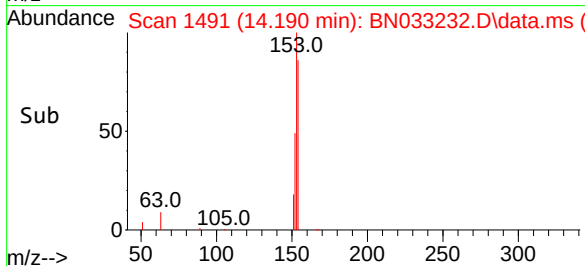
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:154 Resp: 532
Ion Ratio Lower Upper
154 100
153 115.5 91.8 137.8
152 55.7 45.2 67.8

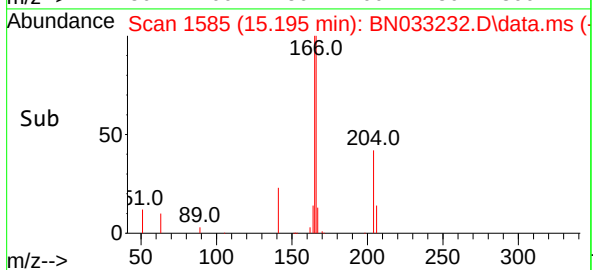
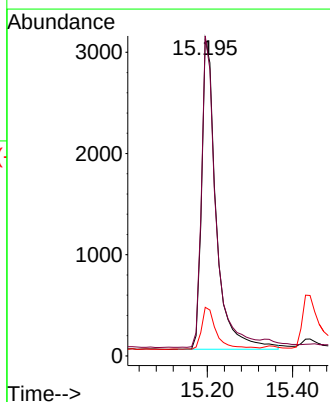
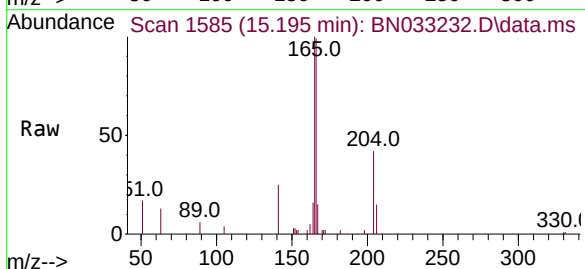
Manual Integrations
APPROVED

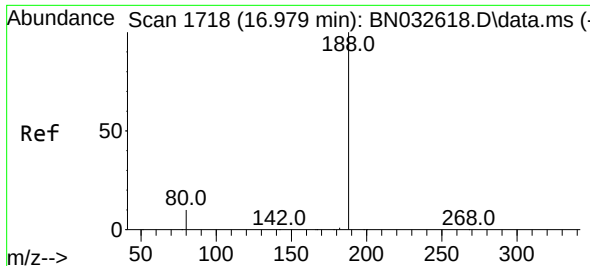
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.355 ng
RT: 15.195 min Scan# 1585
Delta R.T. -0.021 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:166 Resp: 7309
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.7 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.895 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN033232.D

Acq: 03 Aug 2024 11:00

Instrument :

BNA_N

ClientSampleId :

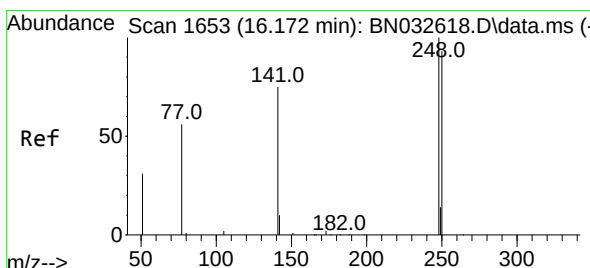
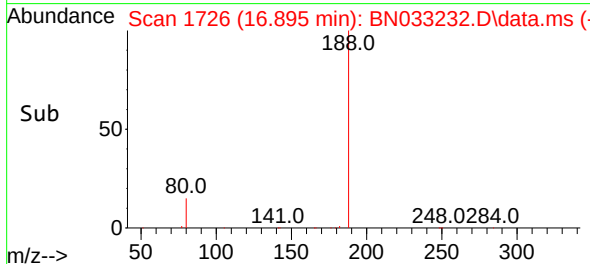
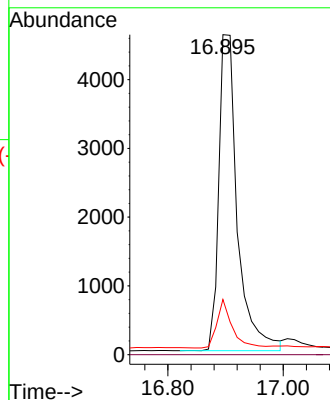
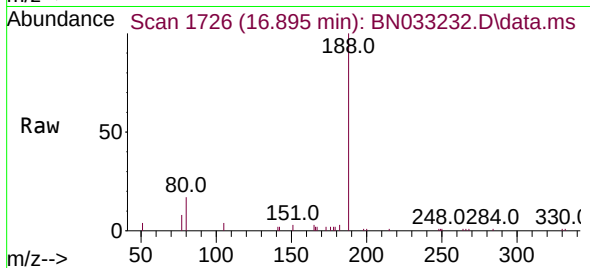
923-K1-WS-080124MS

Tgt Ion:	188	Resp:	1031
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	17.2	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024



#21

4-Bromophenyl-phenylether

Concen: 0.285 ng

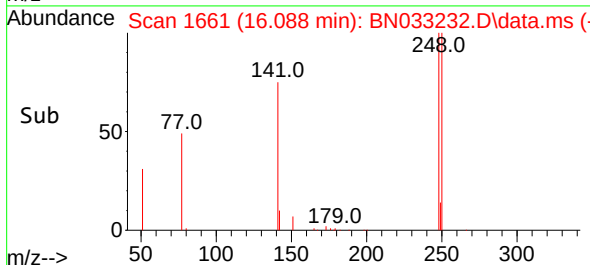
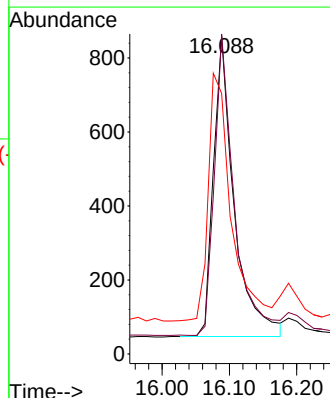
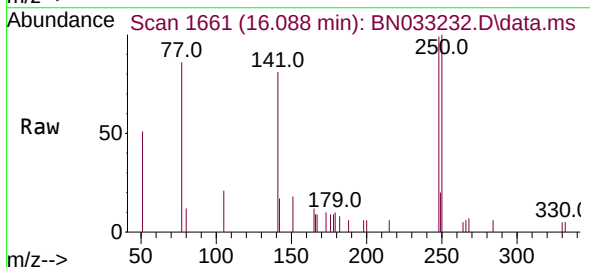
RT: 16.088 min Scan# 1661

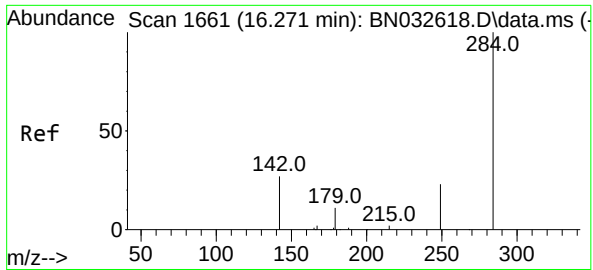
Delta R.T. -0.025 min

Lab File: BN033232.D

Acq: 03 Aug 2024 11:00

Tgt Ion:	248	Resp:	1730
Ion Ratio	Lower	Upper	
248	100		
250	100.6	75.1	112.7
141	81.9	62.0	93.0





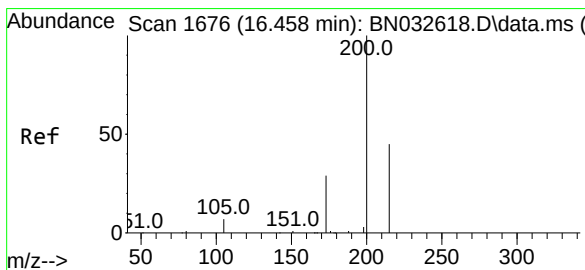
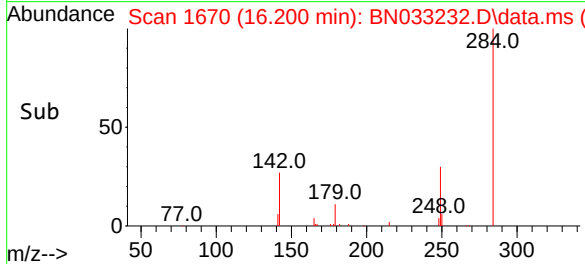
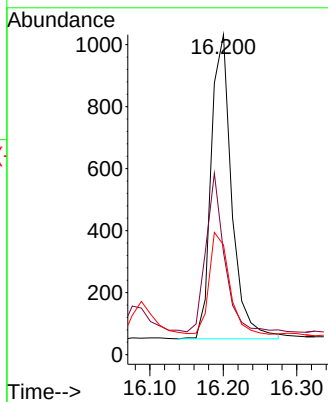
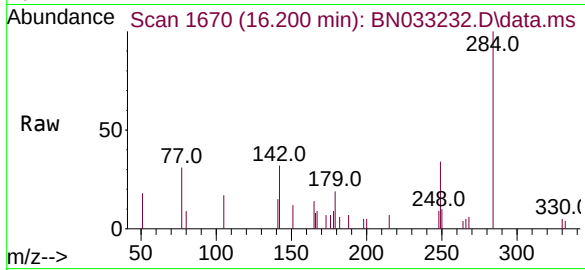
#22
Hexachlorobenzene
Concen: 0.281 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Tgt Ion:284 Resp: 1910
Ion Ratio Lower Upper
284 100
142 46.3 29.4 44.0
249 33.5 24.6 36.8

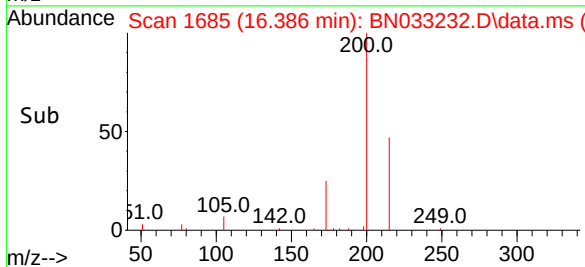
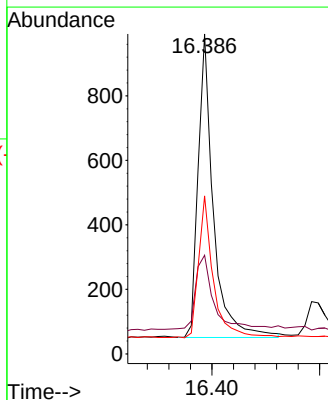
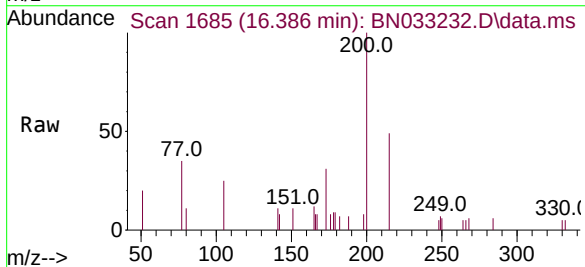
Manual Integrations
APPROVED

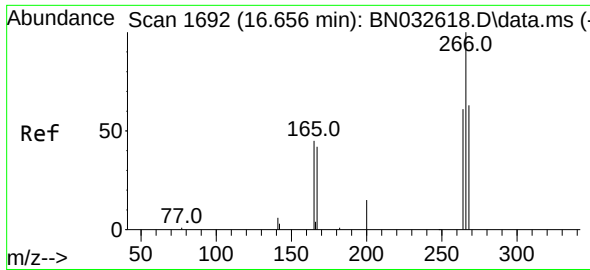
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#23
Atrazine
Concen: 0.413 ng
RT: 16.386 min Scan# 1685
Delta R.T. -0.025 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:200 Resp: 1842
Ion Ratio Lower Upper
200 100
173 30.8 25.4 38.2
215 49.4 38.2 57.2





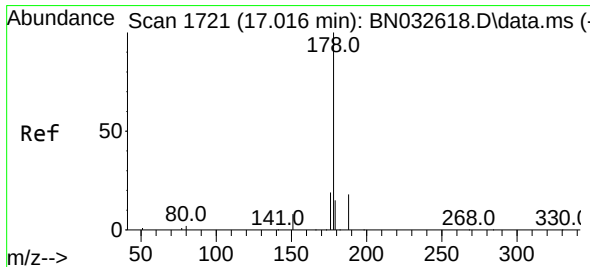
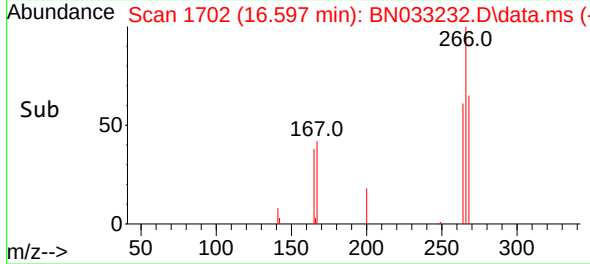
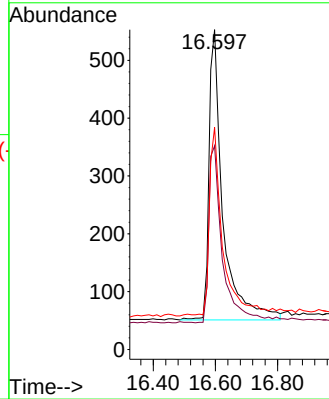
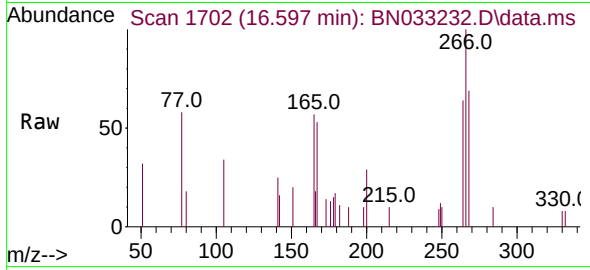
#24
Pentachlorophenol
Concen: 0.616 ng
RT: 16.597 min Scan# 1702
Delta R.T. -0.037 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Tgt Ion:266 Resp: 1554
Ion Ratio Lower Upper
266 100
264 61.6 50.2 75.2
268 61.1 52.8 79.2

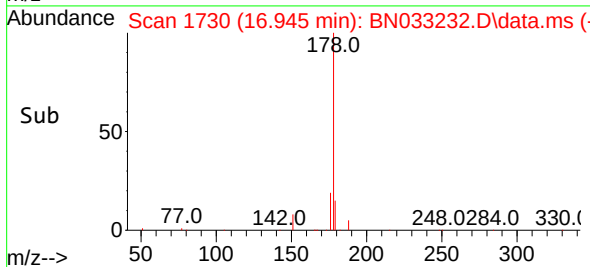
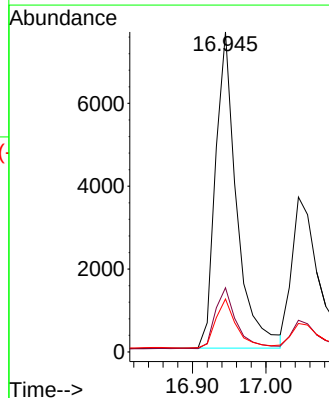
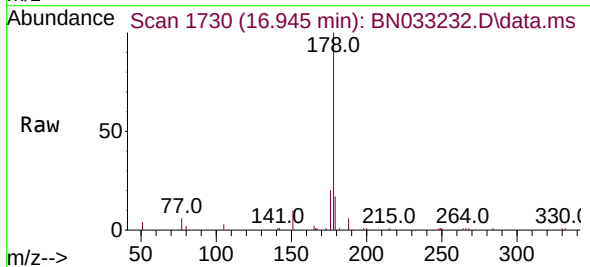
Manual Integrations
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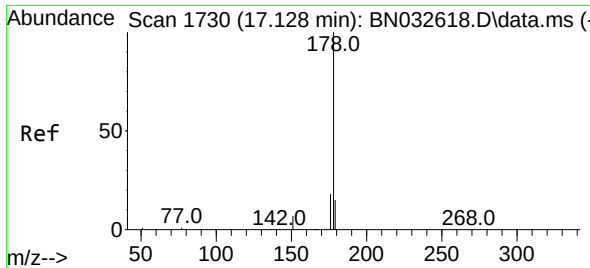
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#25
Phenanthrene
Concen: 0.543 ng
RT: 16.945 min Scan# 1730
Delta R.T. -0.025 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

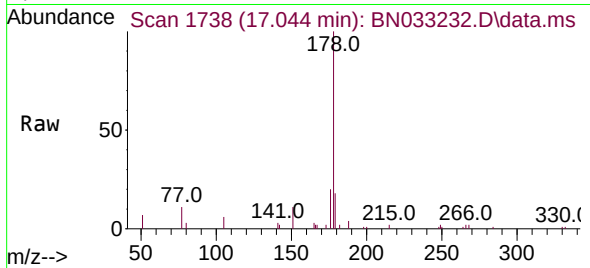
Tgt Ion:178 Resp: 15316
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 15.3 12.2 18.4





#26
Anthracene
Concen: 0.350 ng
RT: 17.044 min Scan# 1738
Delta R.T. -0.025 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

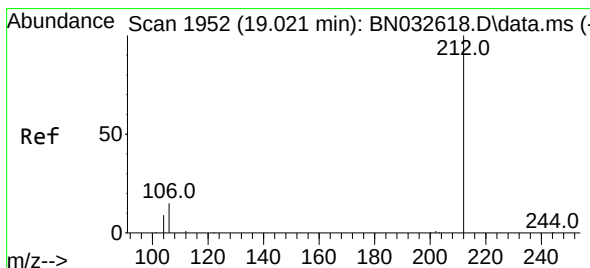
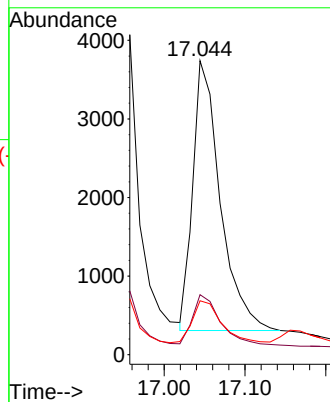
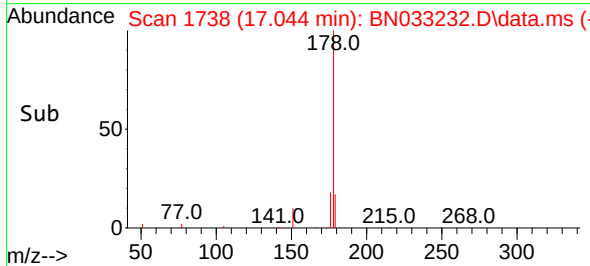
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:178 Resp: 812
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 16.3 11.8 17.8

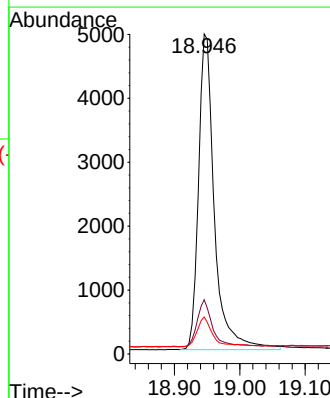
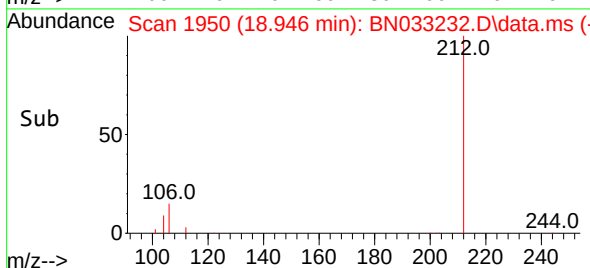
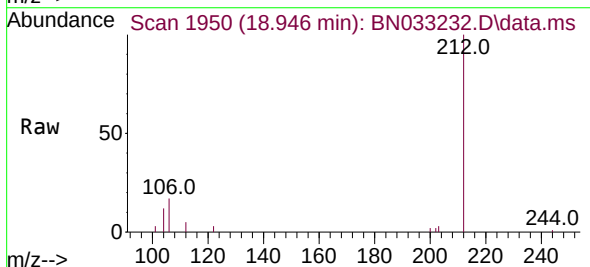
Manual Integrations
APPROVED

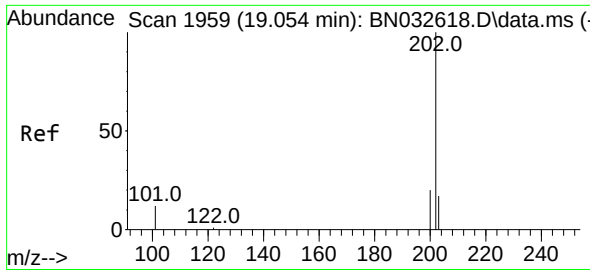
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.312 ng
RT: 18.946 min Scan# 1950
Delta R.T. -0.014 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

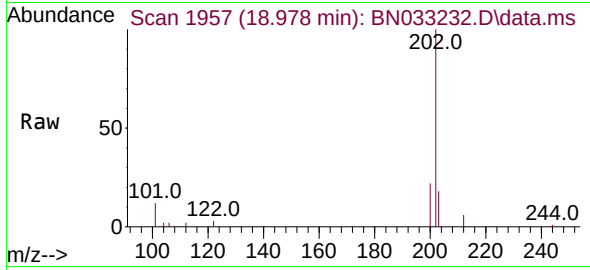
Tgt Ion:212 Resp: 8331
Ion Ratio Lower Upper
212 100
106 14.5 11.9 17.9
104 9.2 6.9 10.3





#28
Fluoranthene
Concen: 0.453 ng
RT: 18.978 min Scan# 1959
Delta R.T. -0.014 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

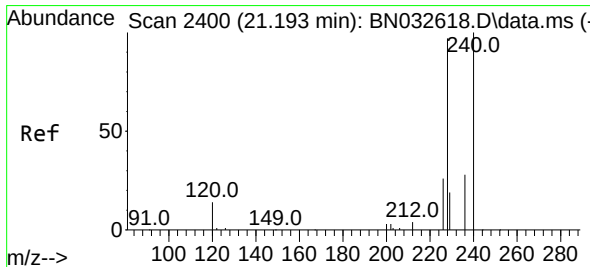
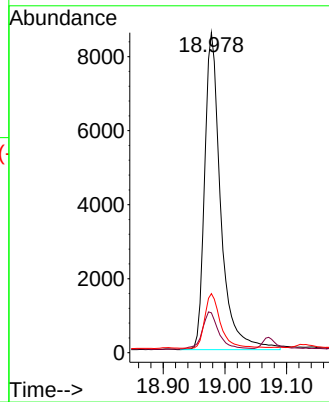
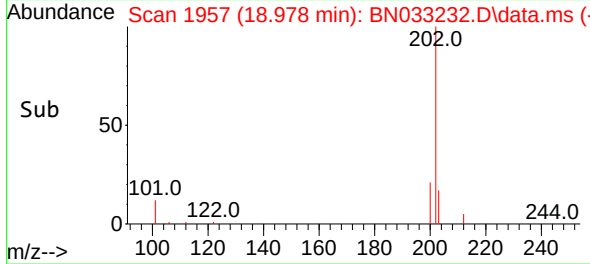
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:202 Resp: 1546
Ion Ratio Lower Upper
202 100
101 12.7 9.6 14.4
203 17.0 13.8 20.6

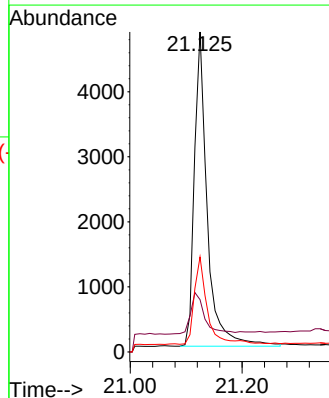
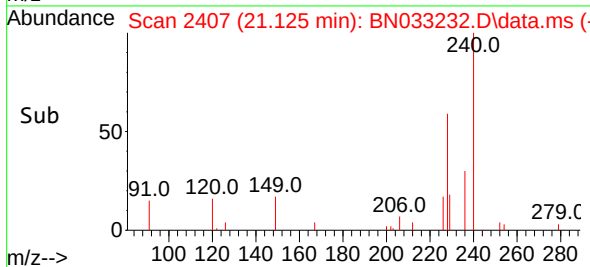
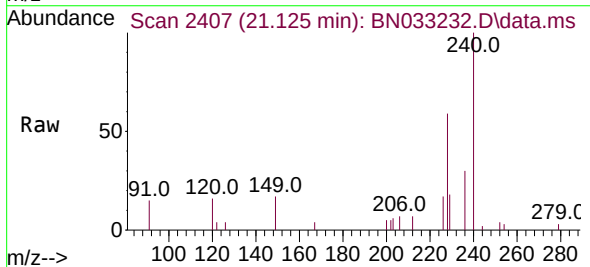
Manual Integrations
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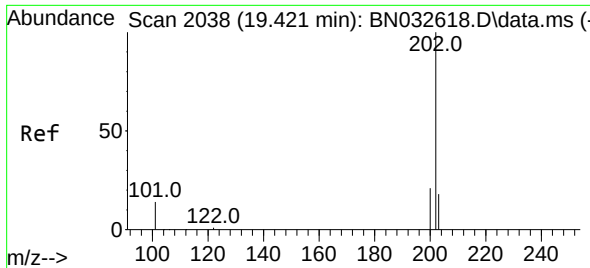
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.125 min Scan# 2407
Delta R.T. -0.009 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:240 Resp: 7725
Ion Ratio Lower Upper
240 100
120 16.3 14.8 22.2
236 29.7 23.3 34.9





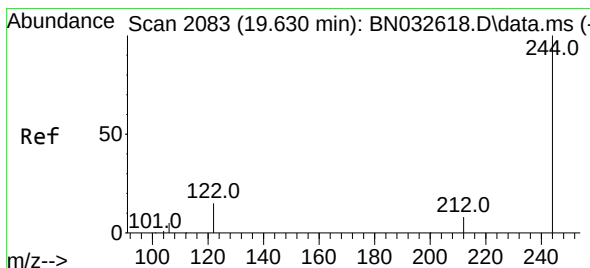
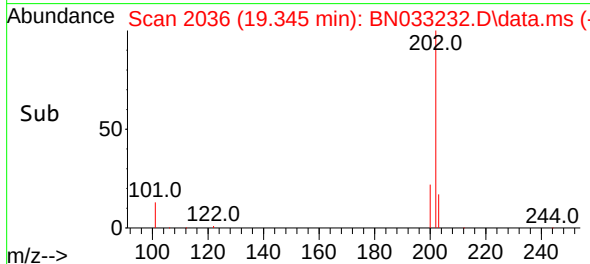
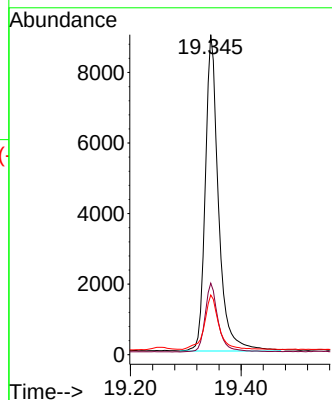
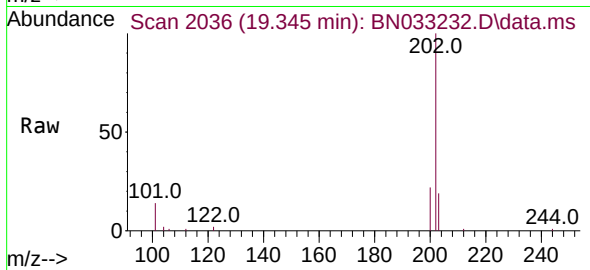
#30
Pyrene
Concen: 0.473 ng
RT: 19.345 min Scan# 2079
Delta R.T. -0.014 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS

Tgt Ion:202 Resp: 1492
Ion Ratio Lower Upper
202 100
200 21.7 16.6 25.0
203 18.9 14.8 22.2

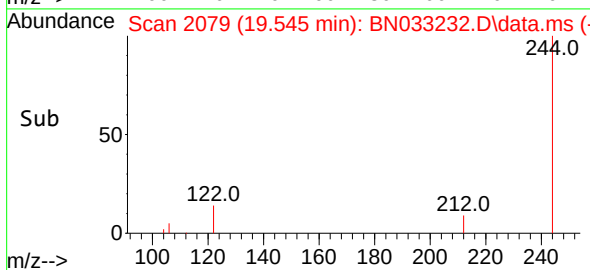
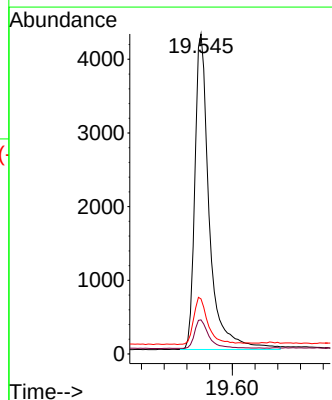
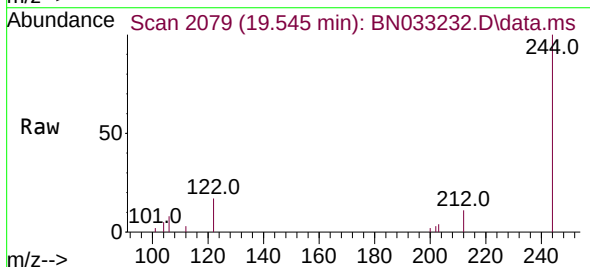
Manual Integrations
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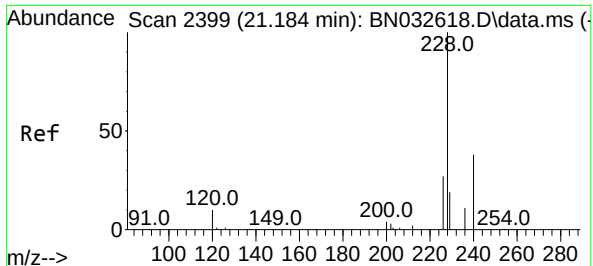
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.477 ng
RT: 19.545 min Scan# 2079
Delta R.T. -0.018 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:244 Resp: 7556
Ion Ratio Lower Upper
244 100
212 10.7 7.5 11.3
122 17.2 12.6 19.0





#32

Benzo(a)anthracene

Concen: 0.379 ng m

RT: 21.107 min Scan# 2410

Delta R.T. -0.018 min

Lab File: BN033232.D

Acq: 03 Aug 2024 11:00

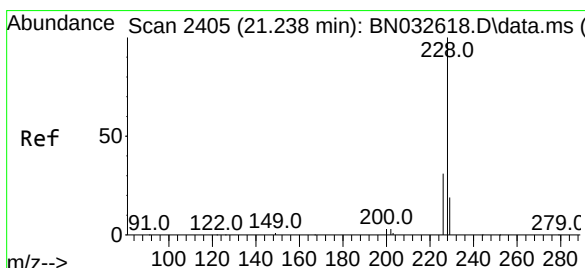
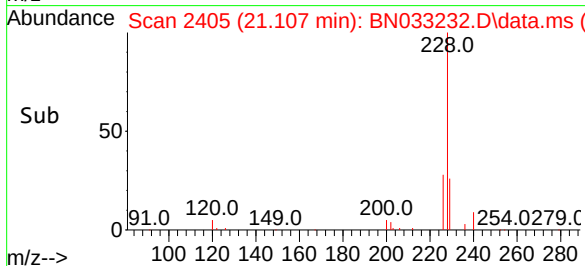
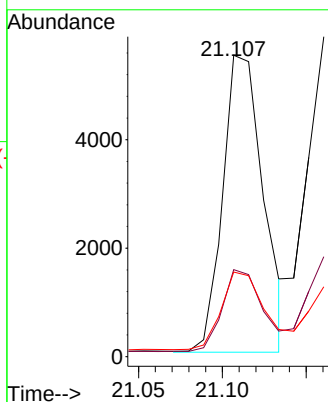
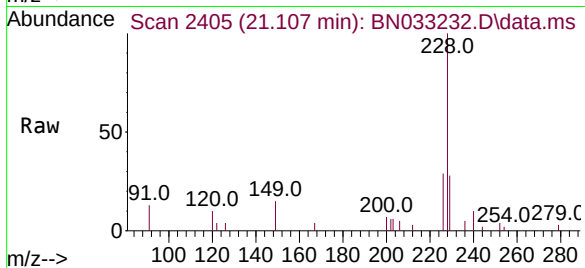
Instrument :

BNA_N

ClientSampleId :

923-K1-WS-080124MS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.6
229	28.1	16.0	24.0

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#33

Chrysene

Concen: 0.357 ng

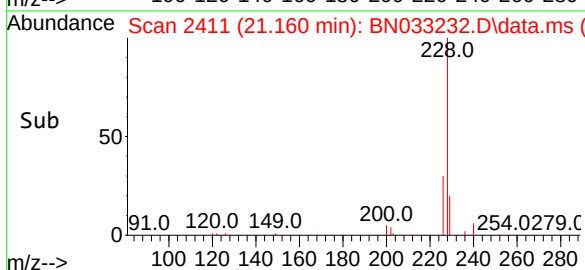
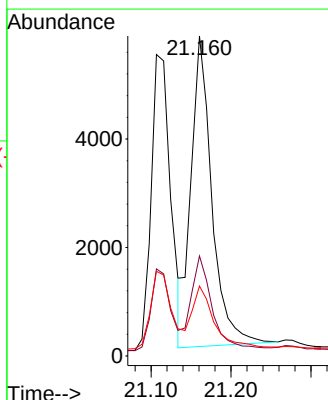
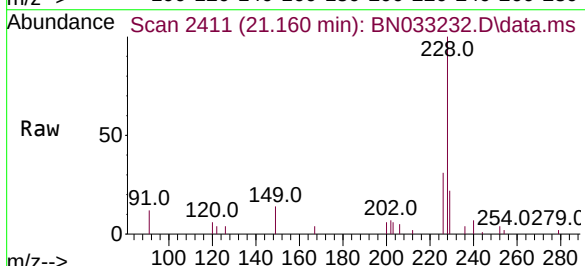
RT: 21.160 min Scan# 2411

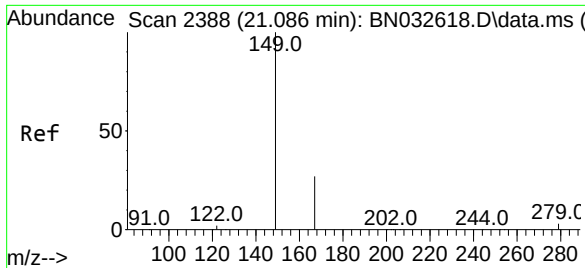
Delta R.T. -0.009 min

Lab File: BN033232.D

Acq: 03 Aug 2024 11:00

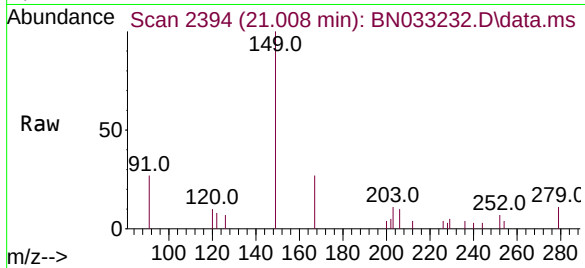
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.2	36.2
229	21.9	16.0	24.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.266 ng
RT: 21.008 min Scan# 2100
Delta R.T. 0.000 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

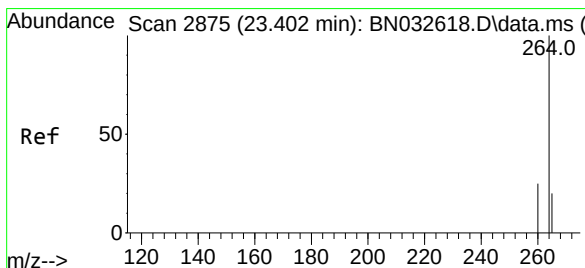
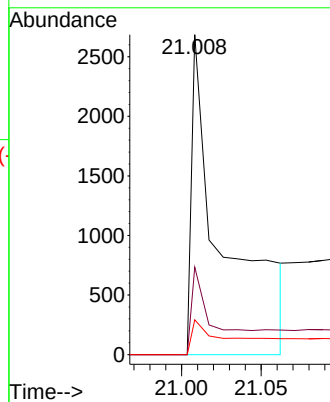
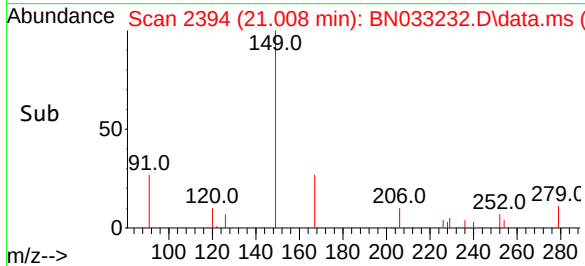
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:149 Resp: 360
Ion Ratio Lower Upper
149 100
167 20.1 21.4 32.2
279 18.9 2.8 4.2

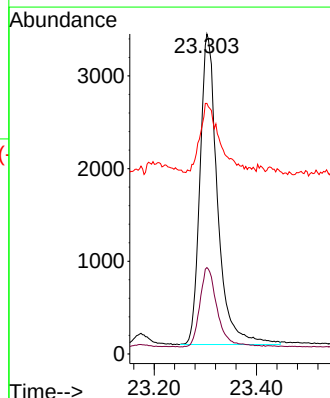
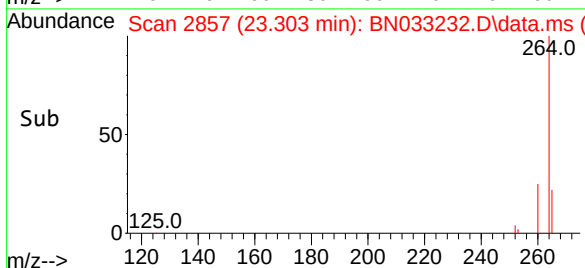
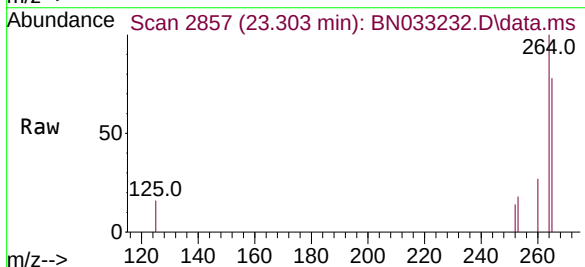
Manual Integrations
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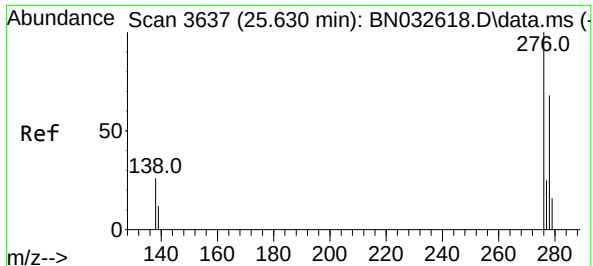
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2857
Delta R.T. -0.012 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:264 Resp: 7969
Ion Ratio Lower Upper
264 100
260 27.0 20.9 31.3
265 78.3 85.4 128.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.344 ng

RT: 25.504 min Scan# 30

Delta R.T. -0.003 min

Lab File: BN033232.D

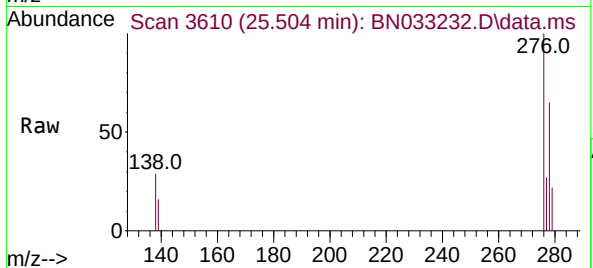
Acq: 03 Aug 2024 11:00

Instrument :

BNA_N

ClientSampleId :

923-K1-WS-080124MS



Tgt Ion: 276 Resp: 1081

Ion Ratio Lower Upper

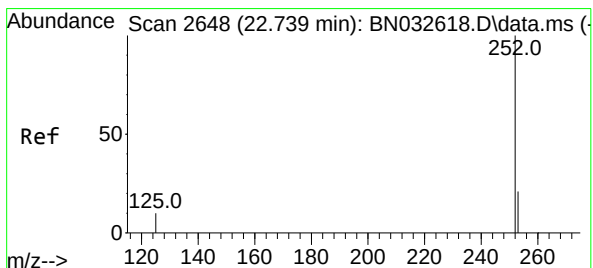
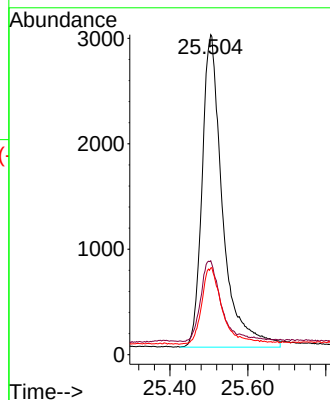
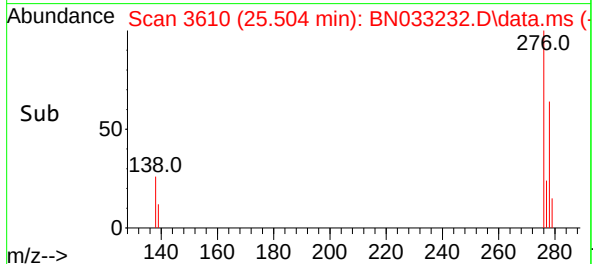
276 100

138 24.4 21.0 31.4

277 24.5 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#37

Benzo(b)fluoranthene

Concen: 0.327 ng

RT: 22.654 min Scan# 2635

Delta R.T. -0.006 min

Lab File: BN033232.D

Acq: 03 Aug 2024 11:00

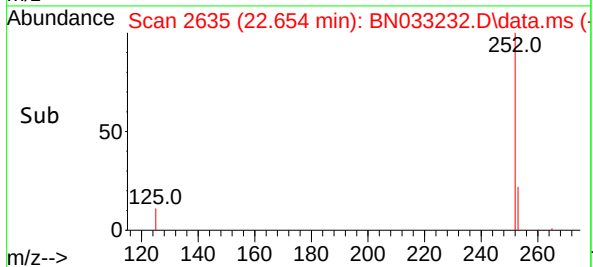
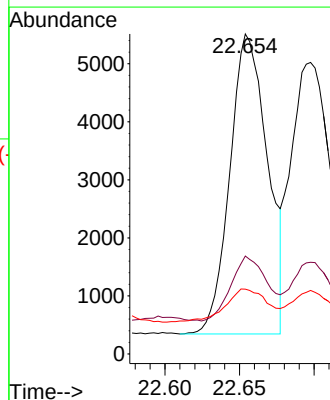
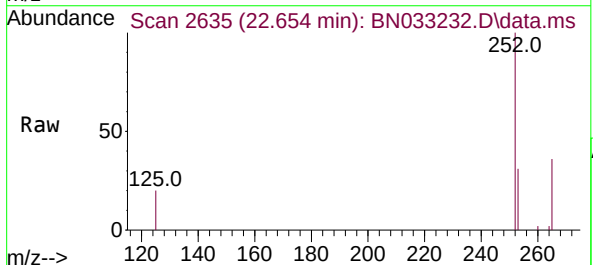
Tgt Ion: 252 Resp: 9073

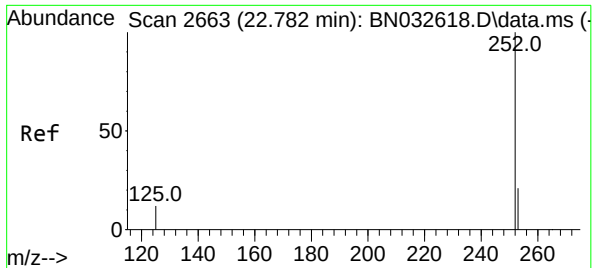
Ion Ratio Lower Upper

252 100

253 30.6 22.3 33.5

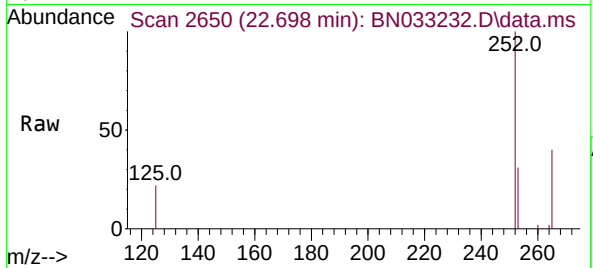
125 20.3 15.4 23.2





#38
Benzo(k)fluoranthene
Concen: 0.302 ng
RT: 22.698 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

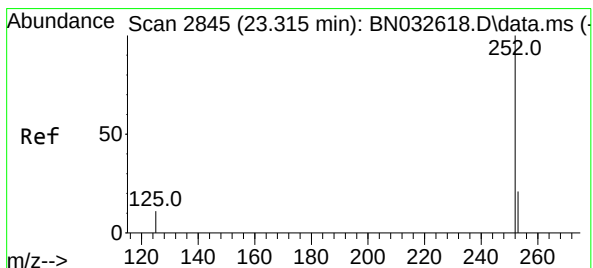
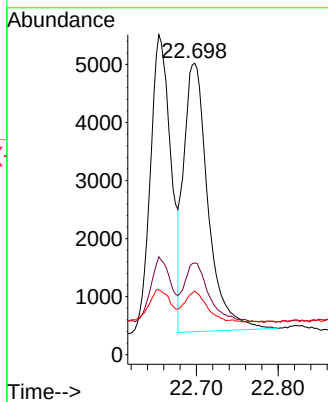
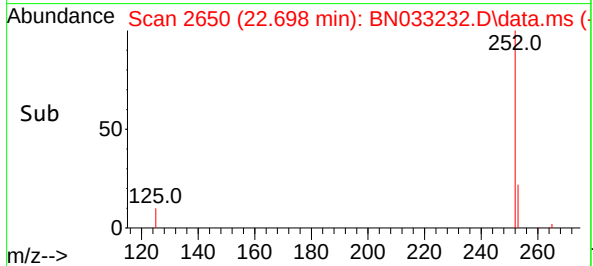
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:252 Resp: 957
Ion Ratio Lower Upper
252 100
253 31.4 22.6 34.0
125 21.8 16.2 24.4

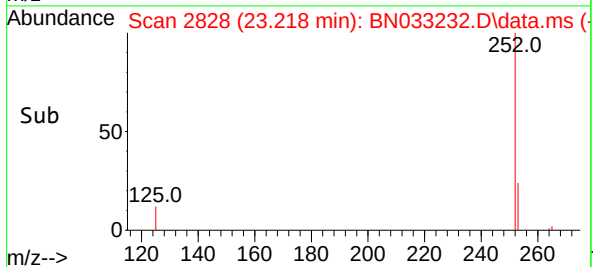
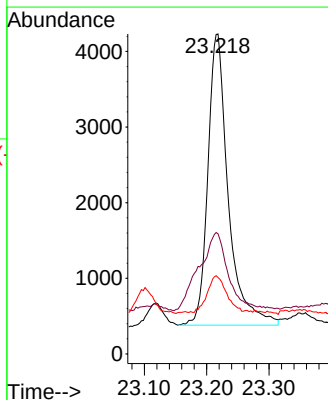
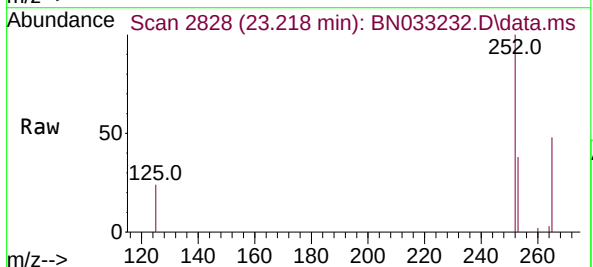
Manual Integrations
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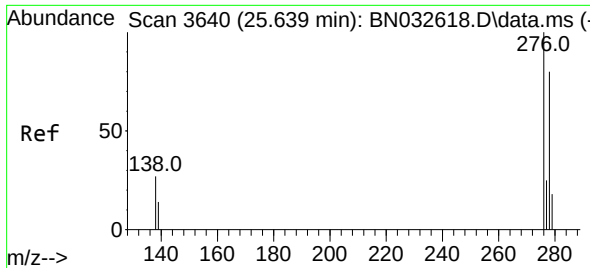
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#39
Benzo(a)pyrene
Concen: 0.349 ng
RT: 23.218 min Scan# 2828
Delta R.T. -0.006 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

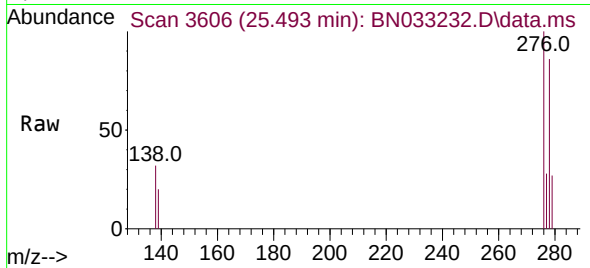
Tgt Ion:252 Resp: 8728
Ion Ratio Lower Upper
252 100
253 37.6 25.8 38.8
125 23.9 21.4 32.2





#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.493 min Scan# 30
Delta R.T. -0.015 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

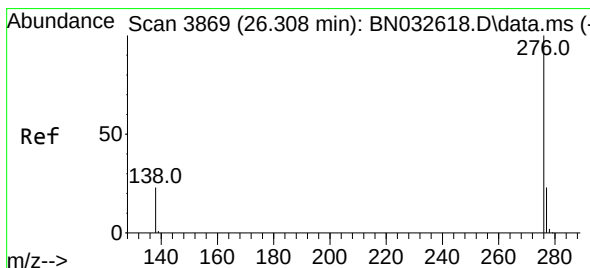
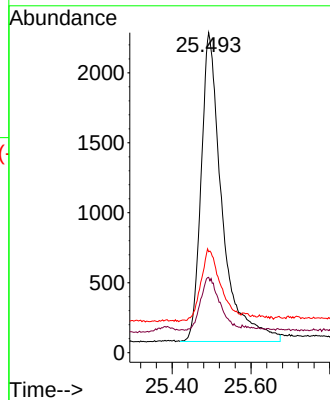
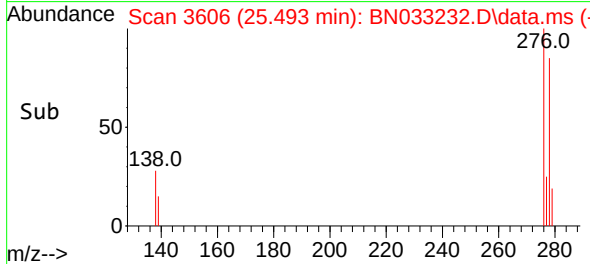
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MS



Tgt Ion:278 Resp: 8118
Ion Ratio Lower Upper
278 100
139 23.5 16.7 25.1
279 31.5 24.3 36.5

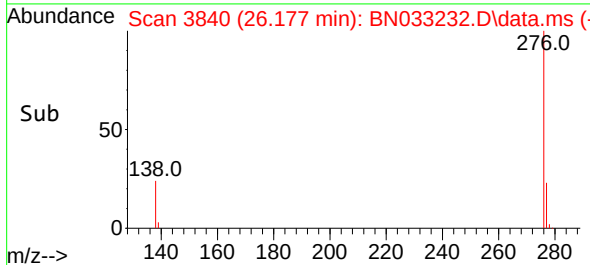
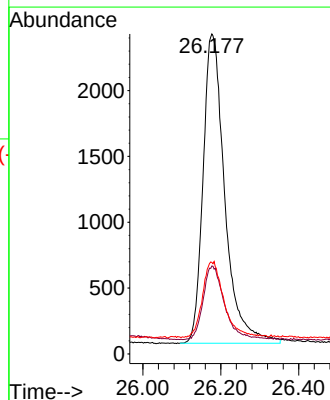
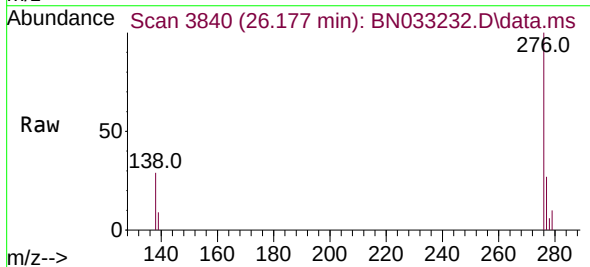
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#41
Benzo(g,h,i)perylene
Concen: 0.331 ng
RT: 26.177 min Scan# 3840
Delta R.T. 0.000 min
Lab File: BN033232.D
Acq: 03 Aug 2024 11:00

Tgt Ion:276 Resp: 9089
Ion Ratio Lower Upper
276 100
277 27.5 20.2 30.2
138 28.6 20.5 30.7



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124MSD	SDG No.:	P3440
Lab Sample ID:	P3440-03MSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033233.D	1	08/02/24 09:25	08/03/24 11:36	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.35		0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.32		0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.40		0.020	0.11	ug/L
83-32-9	Acenaphthene	0.45		0.020	0.11	ug/L
86-73-7	Fluorene	0.45		0.020	0.11	ug/L
85-01-8	Phenanthrene	0.67		0.020	0.11	ug/L
120-12-7	Anthracene	0.44		0.030	0.11	ug/L
206-44-0	Fluoranthene	0.54		0.030	0.11	ug/L
129-00-0	Pyrene	0.57		0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.47		0.020	0.11	ug/L
218-01-9	Chrysene	0.39		0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.39		0.040	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.36		0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.42		0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.41		0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.40		0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.38		0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.20	J	0.070	0.22	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (30) - 150 (150)	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 (30) - 150 (150)	84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (11) - 130 (175)	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (10) - 130 (175)	87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	30 (54) - 130 (171)	134%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2520		7.503		
1146-65-2	Naphthalene-d8	8200		10.276		
15067-26-2	Acenaphthene-d10	4480		14.126		
1517-22-2	Phenanthrene-d10	9620		16.908		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124MSD	SDG No.:	P3440
Lab Sample ID:	P3440-03MSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BN033233.D	1	08/02/24 09:25	08/03/24 11:36	PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	6930	21.125			
1520-96-3	Perylene-d12	7610	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033233.D
 Acq On : 03 Aug 2024 11:36
 Operator : MA/JU
 Sample : P3440-03MSD
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 923-K1-WS-080124MSD

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:26:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.503	152	2521	0.400	ng	0.00
7) Naphthalene-d8	10.276	136	8200	0.400	ng	#-0.01
13) Acenaphthene-d10	14.126	164	4479	0.400	ng	-0.01
19) Phenanthrene-d10	16.908	188	9624	0.400	ng	-0.01
29) Chrysene-d12	21.125	240	6930	0.400	ng	0.00
35) Perylene-d12	23.303	264	7608	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.257	112	1108m	0.174	ng	0.01
5) Phenol-d6	6.954	99	991m	0.125	ng	0.07
8) Nitrobenzene-d5	8.803	82	2039	0.330	ng	-0.01
11) 2-Methylnaphthalene-d10	11.874	152	4061	0.324	ng	-0.03
14) 2,4,6-Tribromophenol	15.679	330	638	0.333	ng	-0.04
15) 2-Fluorobiphenyl	12.758	172	5777	0.347	ng	-0.03
27) Fluoranthene-d10	18.946	212	8339	0.335	ng	-0.01
31) Terphenyl-d14	19.545	244	7601	0.535	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.083	88	556	0.178	ng	# 23
3) n-Nitrosodimethylamine	3.444	42	534	0.202	ng	# 75
6) bis(2-Chloroethyl)ether	7.004	93	2762	0.417	ng	# 82
9) Naphthalene	10.330	128	7162	0.315	ng	97
10) Hexachlorobutadiene	10.522	225	1188	0.274	ng	# 99
12) 2-Methylnaphthalene	11.950	142	4316	0.291	ng	# 92
16) Acenaphthylene	13.859	152	6590	0.362	ng	99
17) Acenaphthene	14.190	154	5274	0.409	ng	100
18) Fluorene	15.195	166	6988	0.405	ng	97
21) 4-Bromophenyl-phenylether	16.088	248	1858	0.329	ng	96
22) Hexachlorobenzene	16.200	284	1935	0.306	ng	# 87
23) Atrazine	16.386	200	1921	0.461	ng	100
24) Pentachlorophenol	16.597	266	1618	0.688	ng	99
25) Phenanthrene	16.945	178	16154	0.614	ng	99
26) Anthracene	17.044	178	8655	0.400	ng	99
28) Fluoranthene	18.978	202	15613	0.491	ng	99
30) Pyrene	19.345	202	14639	0.517	ng	99
32) Benzo(a)anthracene	21.107	228	9364m	0.427	ng	
33) Chrysene	21.160	228	9159	0.352	ng	97
34) Bis(2-ethylhexyl)phtha...	21.008	149	3434	0.283	ng	# 92
36) Indeno(1,2,3-cd)pyrene	25.499	276	11100	0.370	ng	100
37) Benzo(b)fluoranthene	22.654	252	9386	0.354	ng	96
38) Benzo(k)fluoranthene	22.698	252	9835	0.325	ng	97
39) Benzo(a)pyrene	23.215	252	9034	0.378	ng	92
40) Dibenzo(a,h)anthracene	25.493	278	8553	0.361	ng	96
41) Benzo(g,h,i)perylene	26.177	276	9042	0.345	ng	96

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

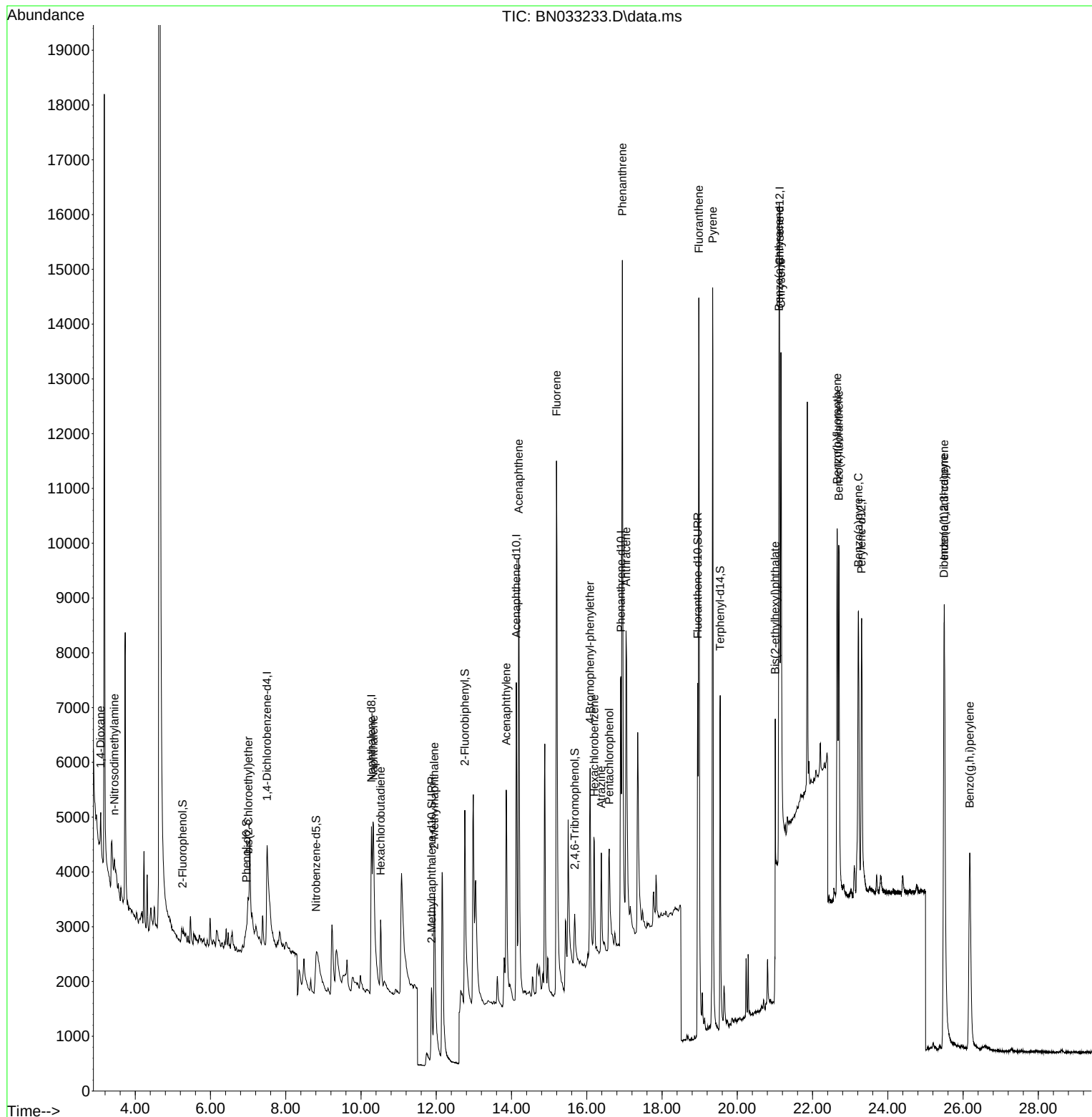
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Acq On : 03 Aug 2024 11:36
Operator : MA/JU
Sample : P3440-03MSD
Misc :
ALS Vial : 38 Sample Multiplier: 1

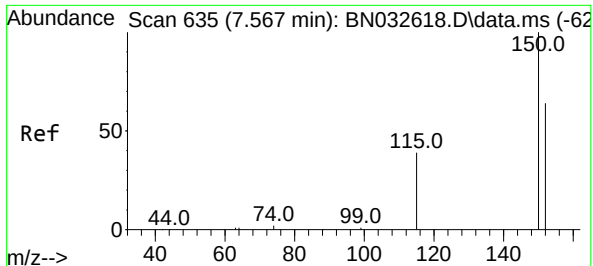
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Manual Integrations
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Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

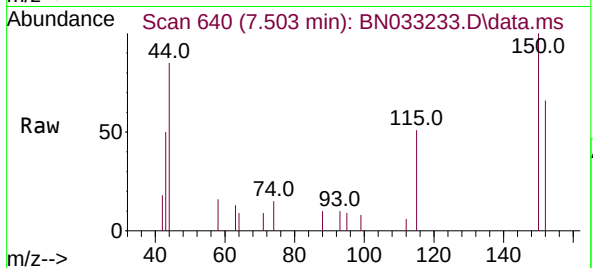
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.503 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

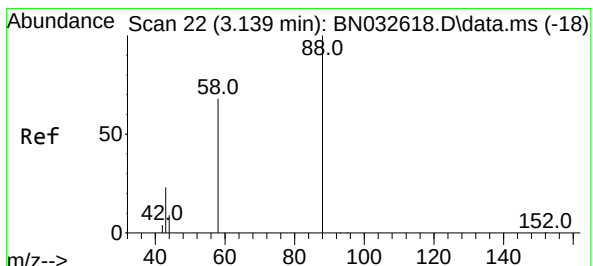
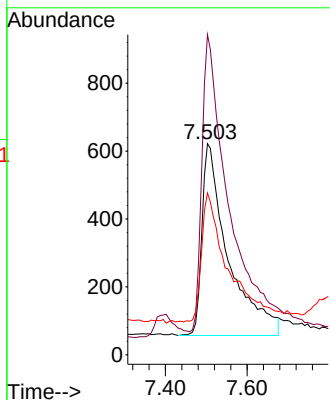
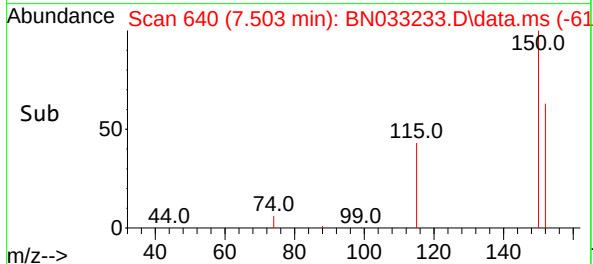
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion: 152 Resp: 252
Ion Ratio Lower Upper
152 100
150 151.6 123.8 185.6
115 76.7 52.8 79.2

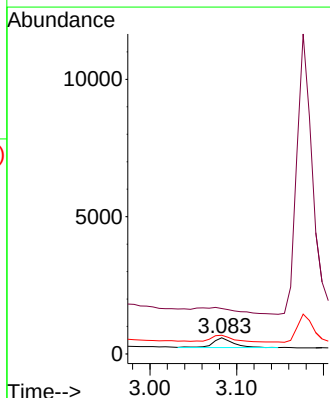
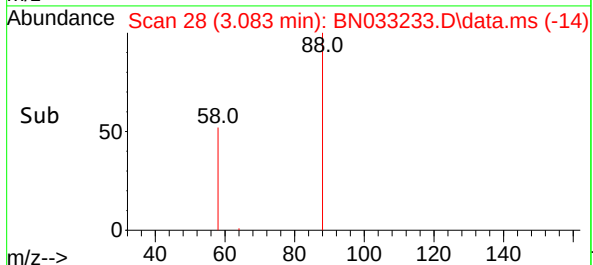
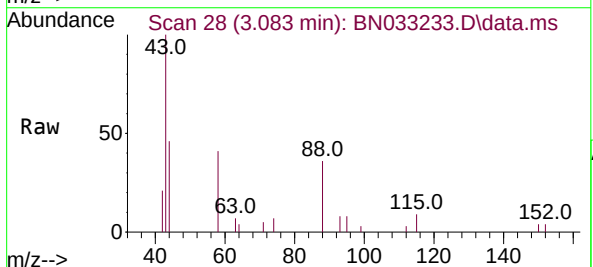
Manual Integrations
APPROVED

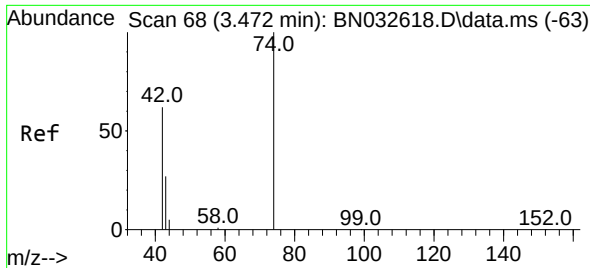
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.178 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

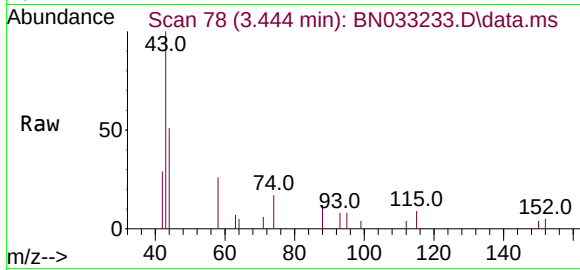
Tgt Ion: 88 Resp: 556
Ion Ratio Lower Upper
88 100
43 132.7 18.4 27.6#
58 77.7 49.2 73.8#





#3
n-Nitrosodimethylamine
Concen: 0.202 ng
RT: 3.444 min Scan# 70
Delta R.T. -0.029 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

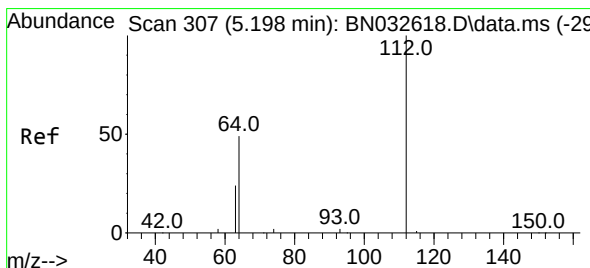
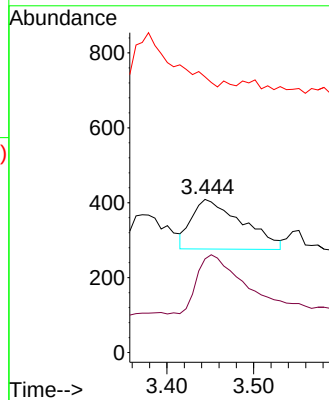
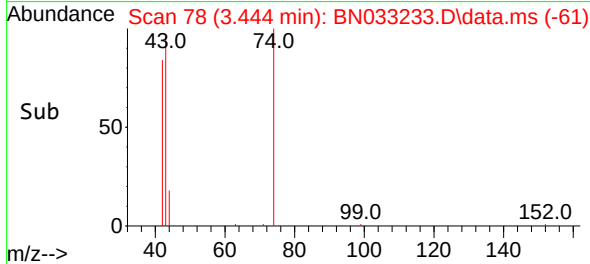
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion: 42 Resp: 534
Ion Ratio Lower Upper
42 100
74 125.7 126.9 190.3
44 0.0 4.8 7.2

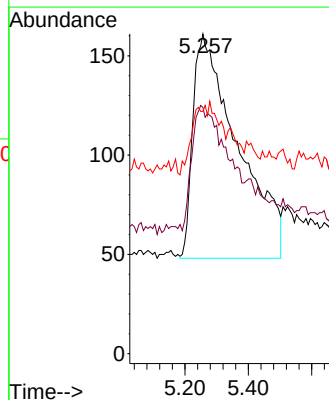
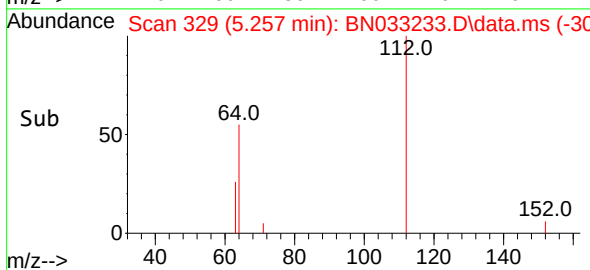
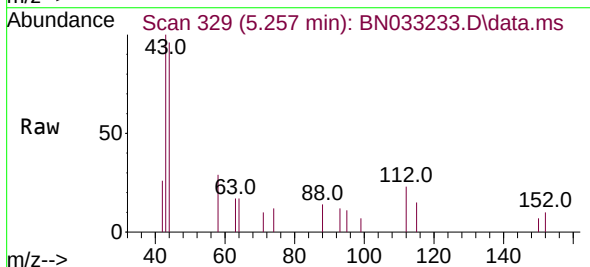
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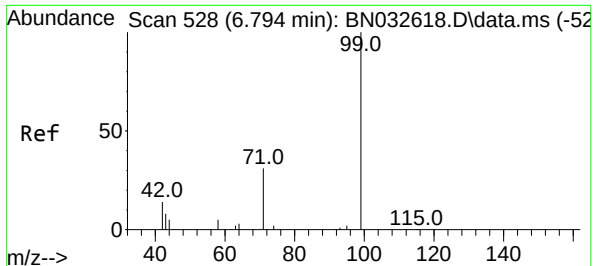
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.174 ng m
RT: 5.257 min Scan# 329
Delta R.T. 0.014 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:112 Resp: 1108
Ion Ratio Lower Upper
112 100
64 43.1 40.2 60.4
63 8.3 22.2 33.4





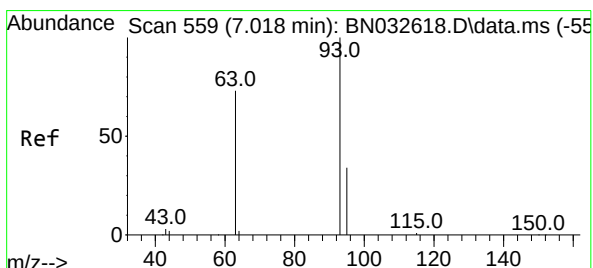
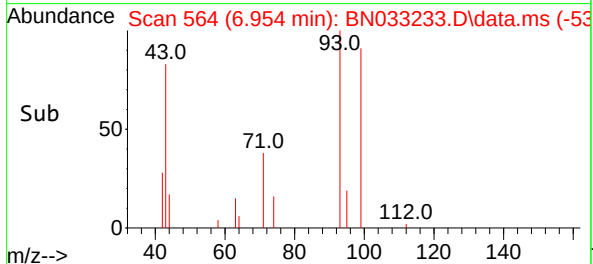
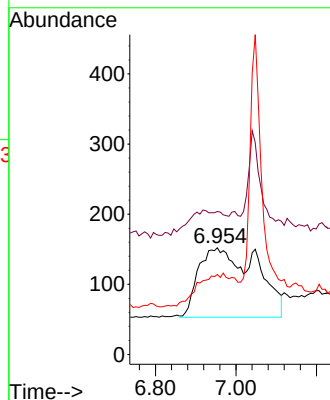
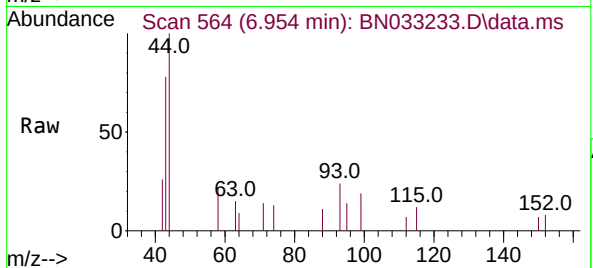
#5
Phenol-d6
Concen: 0.125 ng m
RT: 6.954 min Scan# 501
Delta R.T. 0.072 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion: 99 Resp: 99
Ion Ratio Lower Upper
99 100
42 0.0 10.5 15.7
71 18.3 22.3 33.5

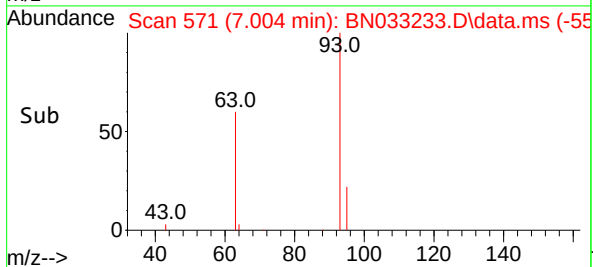
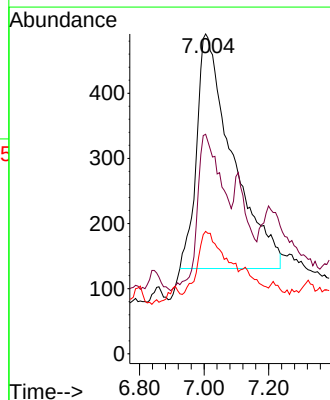
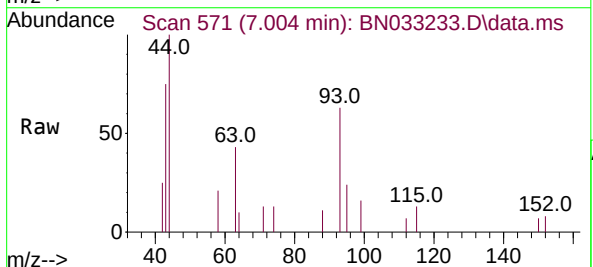
Manual Integrations
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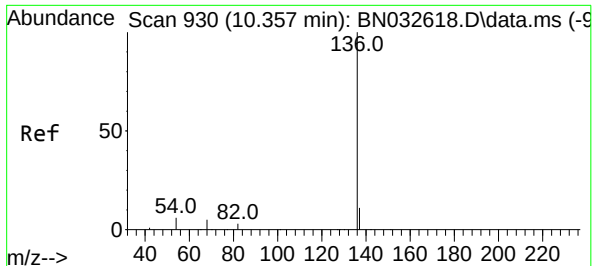
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.417 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion: 93 Resp: 2762
Ion Ratio Lower Upper
93 100
63 44.6 46.4 69.6#
95 21.2 25.5 38.3#





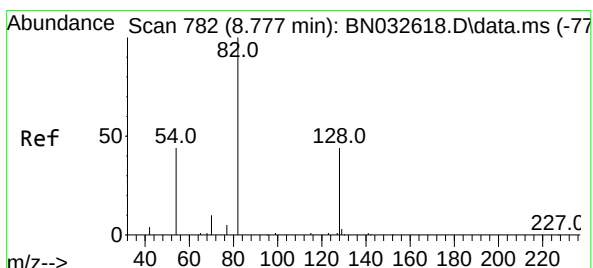
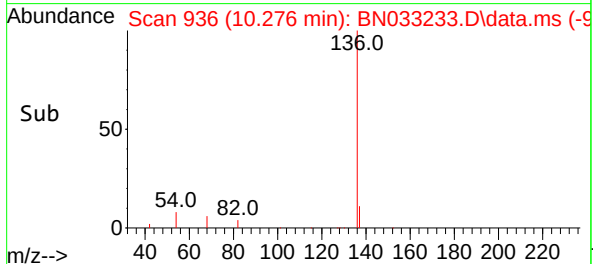
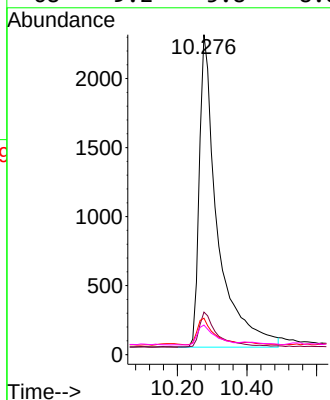
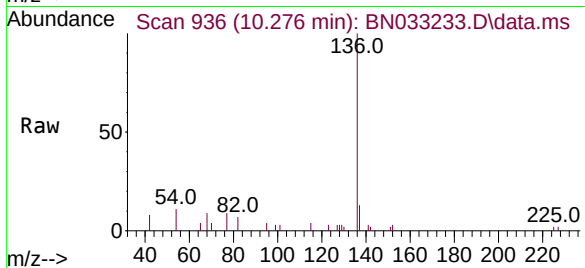
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.276 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion:	136	Resp:	8200
Ion	Ratio	Lower	Upper
136	100		
137	13.3	9.9	14.9
54	11.4	6.5	9.7
68	9.2	5.8	8.8

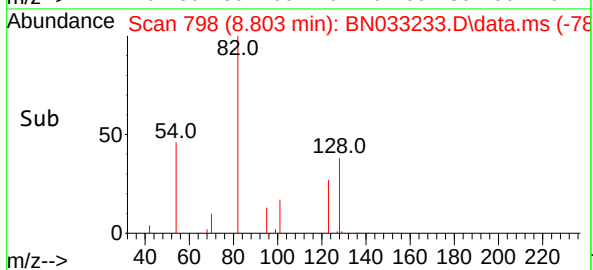
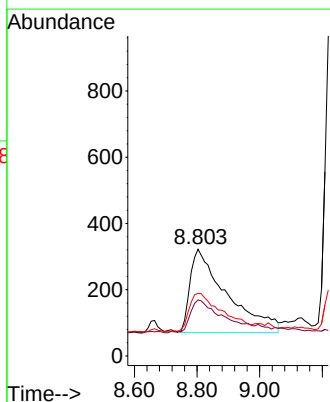
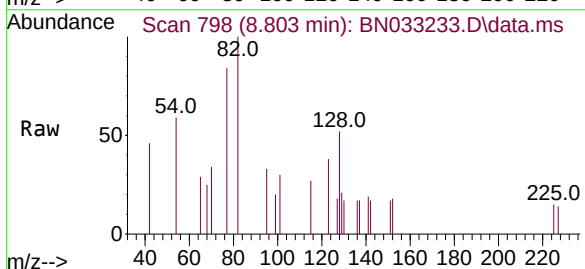
Manual Integrations
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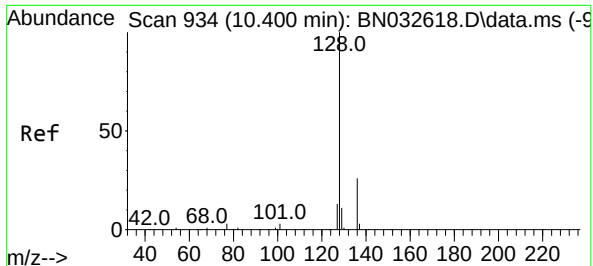
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.330 ng
RT: 8.803 min Scan# 798
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:	82	Resp:	2039
Ion	Ratio	Lower	Upper
82	100		
128	52.5	41.7	62.5
54	58.7	39.5	59.3





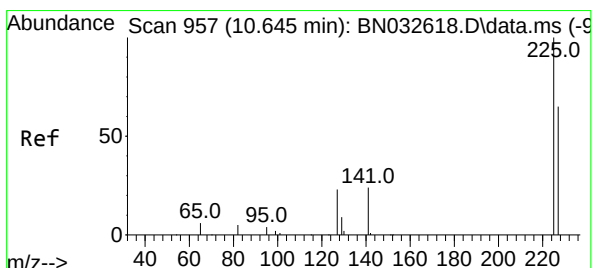
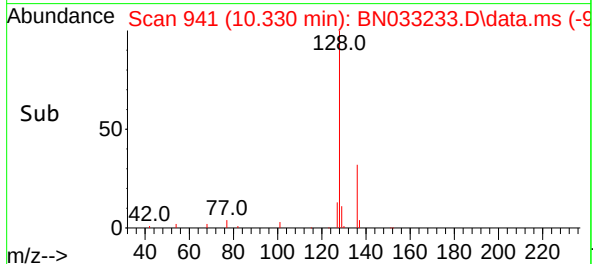
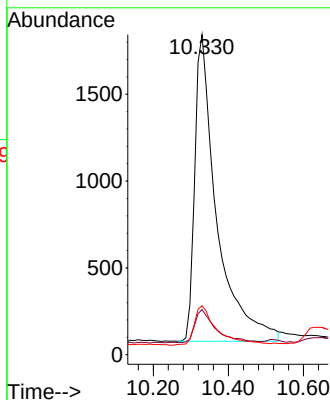
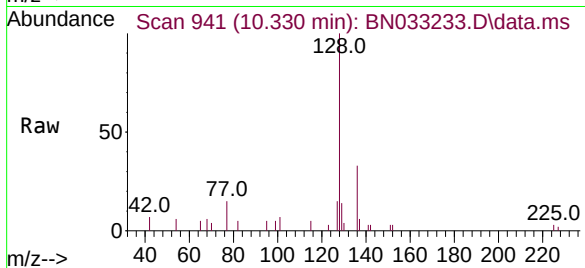
#9
Naphthalene
Concen: 0.315 ng
RT: 10.330 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion:128 Resp: 716
Ion Ratio Lower Upper
128 100
129 14.1 9.8 14.8
127 15.3 11.5 17.3

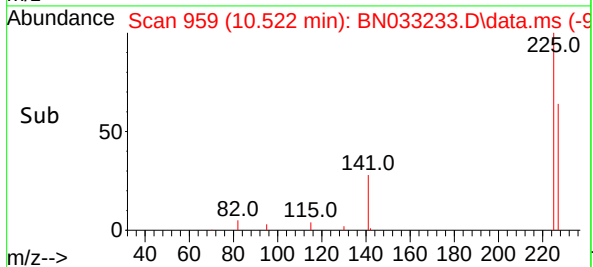
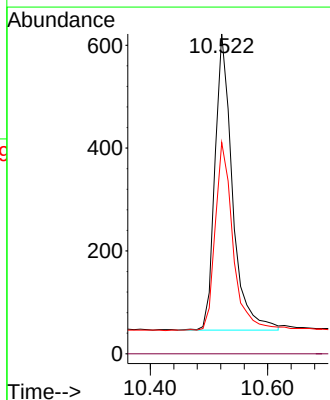
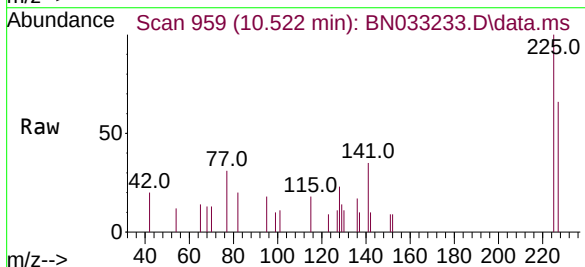
Manual Integrations
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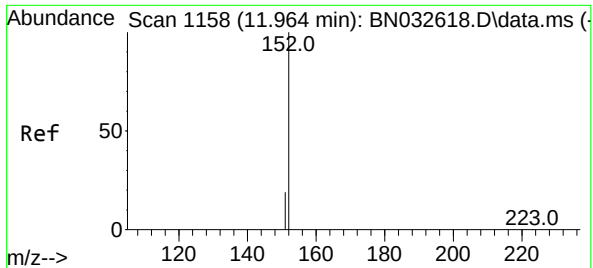
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.274 ng
RT: 10.522 min Scan# 959
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

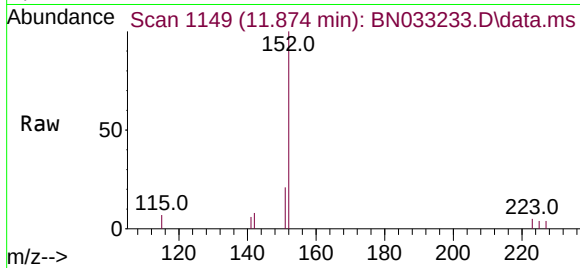
Tgt Ion:225 Resp: 1188
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 11.874 min Scan# 1169
Delta R.T. -0.026 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

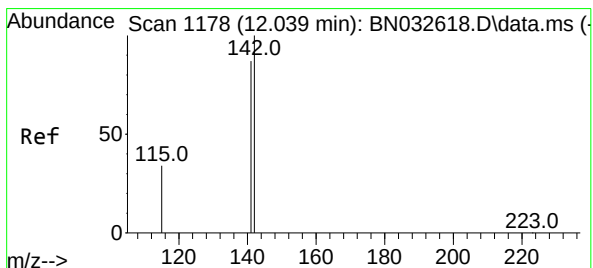
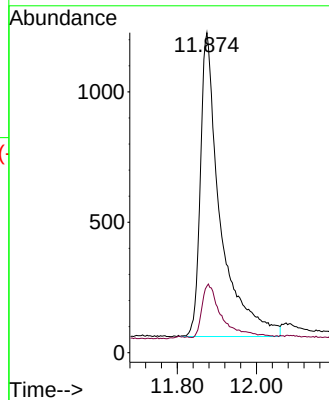
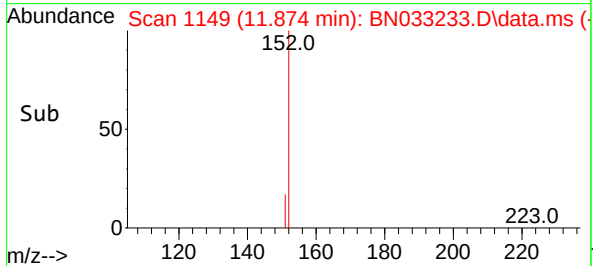
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



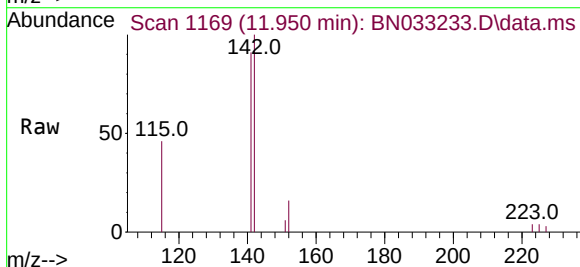
Tgt Ion:152 Resp: 406
Ion Ratio Lower Upper
152 100
151 17.2 16.2 24.2

Manual Integrations
APPROVED

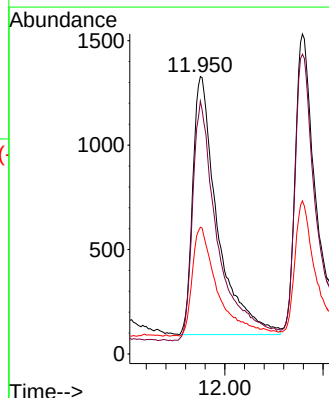
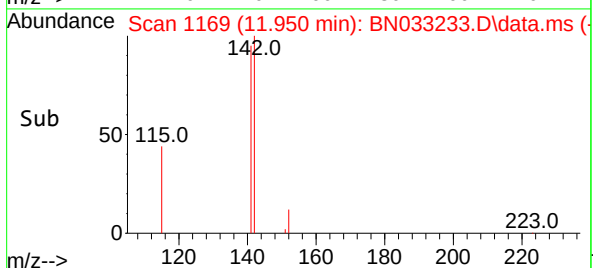
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

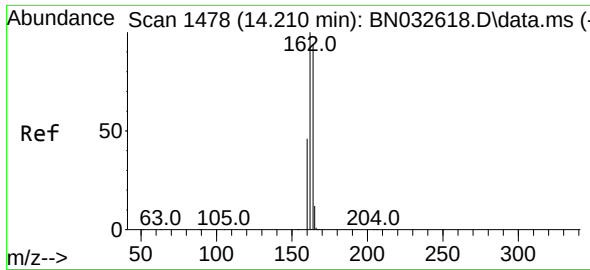


#12
2-Methylnaphthalene
Concen: 0.291 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.026 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36



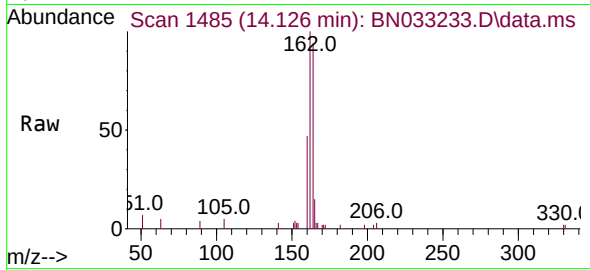
Tgt Ion:142 Resp: 4316
Ion Ratio Lower Upper
142 100
141 91.1 69.3 103.9
115 45.7 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.126 min Scan# 1478
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

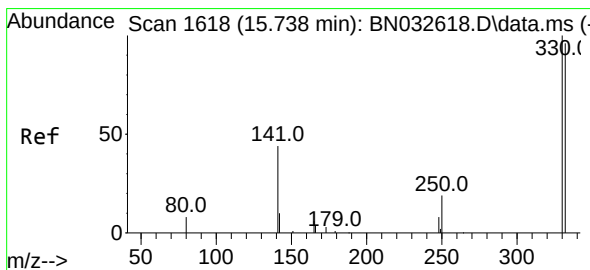
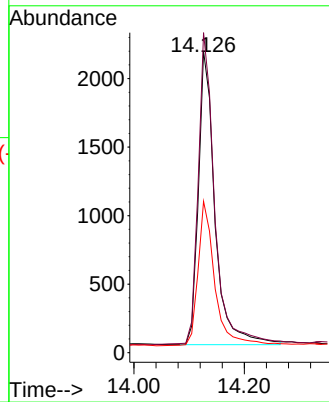
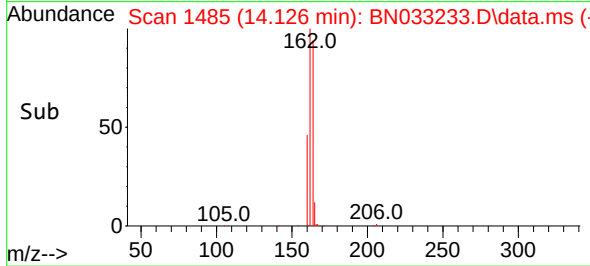
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



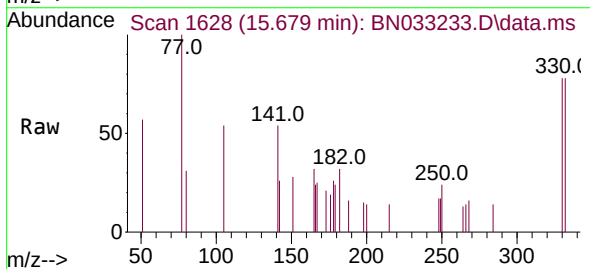
Tgt Ion:164 Resp: 4479
Ion Ratio Lower Upper
164 100
162 106.1 85.0 127.4
160 50.2 39.4 59.2

Manual Integrations
APPROVED

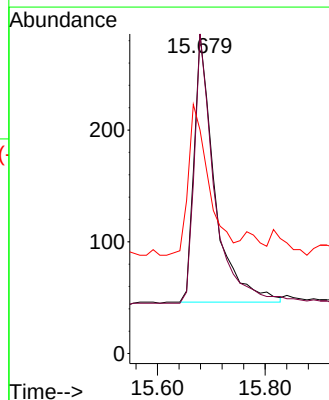
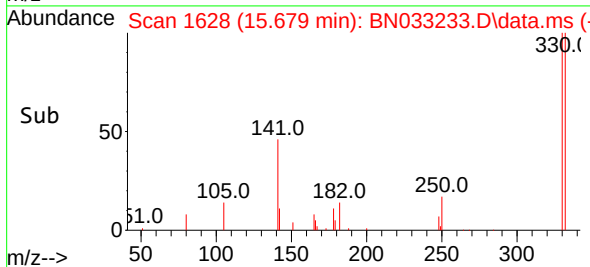
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

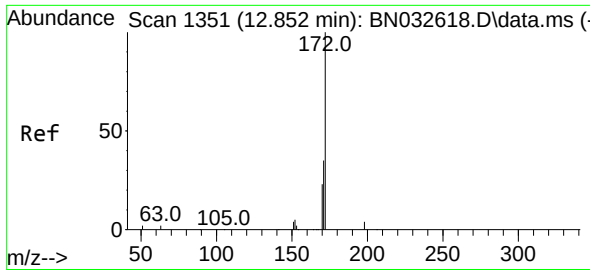


#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.037 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36



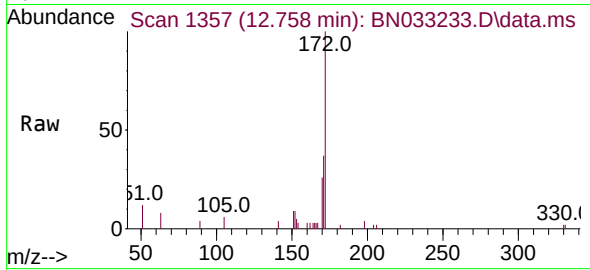
Tgt Ion:330 Resp: 638
Ion Ratio Lower Upper
330 100
332 98.4 77.8 116.8
141 53.3 34.2 51.2#





#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.758 min Scan# 11
Delta R.T. -0.032 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

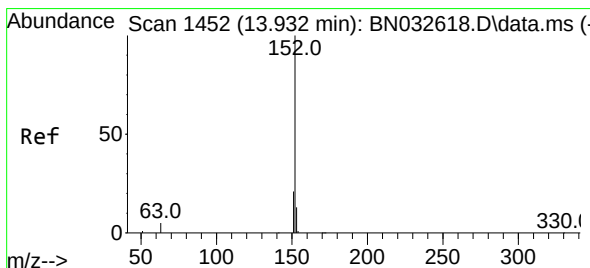
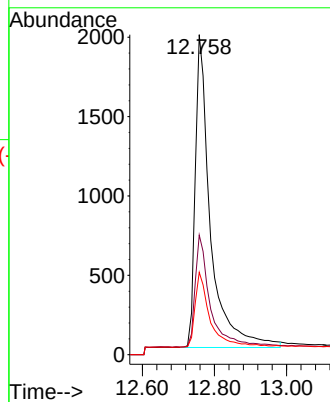
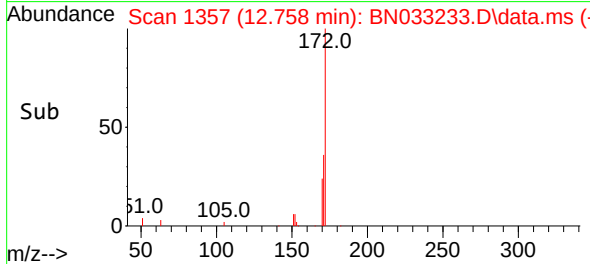
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:172 Resp: 577
Ion Ratio Lower Upper
172 100
171 37.4 28.6 43.0
170 25.7 19.0 28.6

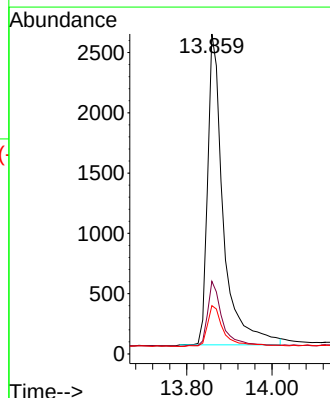
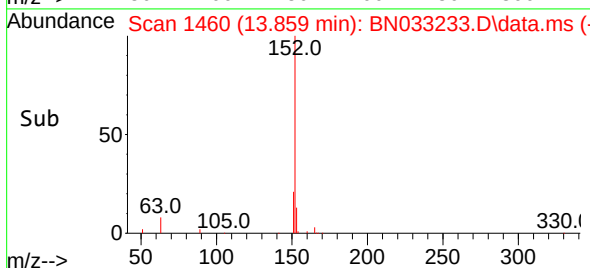
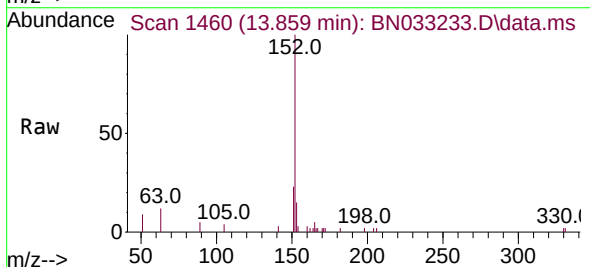
Manual Integrations
APPROVED

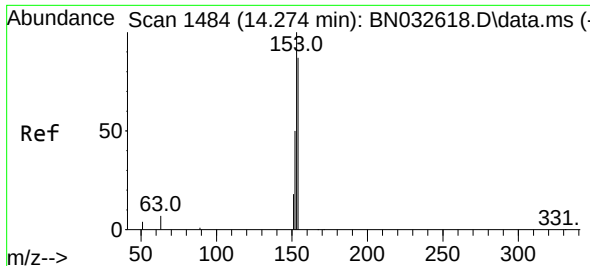
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.362 ng
RT: 13.859 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

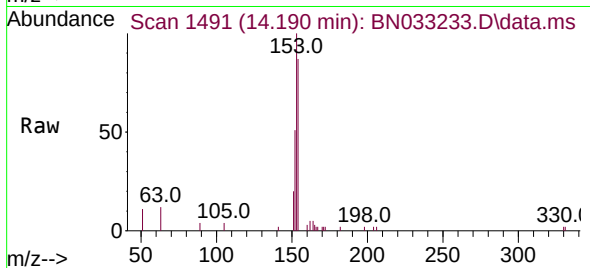
Tgt Ion:152 Resp: 6590
Ion Ratio Lower Upper
152 100
151 20.3 16.0 24.0
153 13.6 10.6 15.8





#17
Acenaphthene
Concen: 0.409 ng
RT: 14.190 min Scan# 1484
Delta R.T. -0.011 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

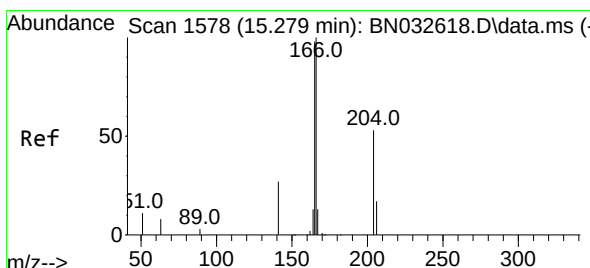
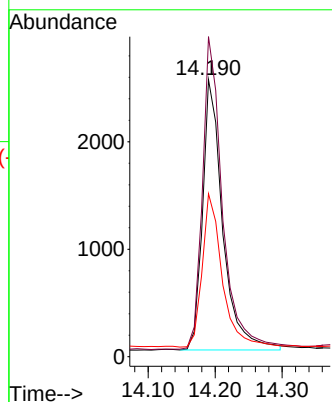
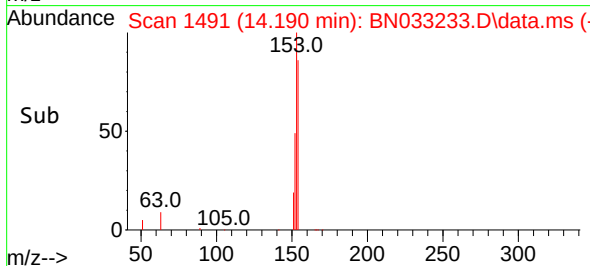
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:154 Resp: 5274
Ion Ratio Lower Upper
154 100
153 114.9 91.8 137.8
152 56.1 45.2 67.8

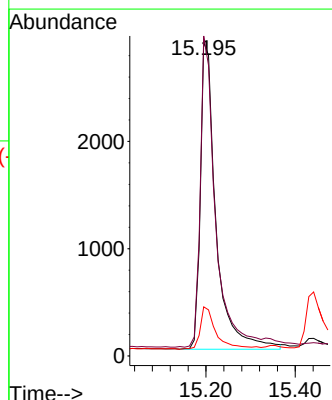
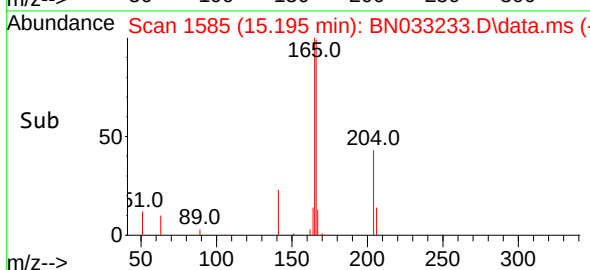
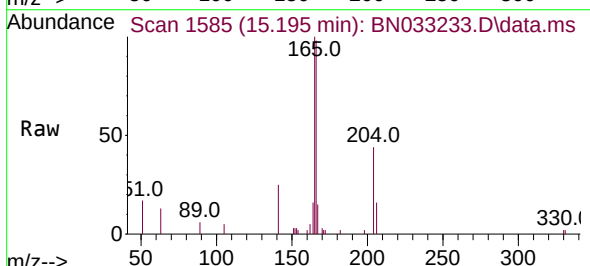
Manual Integrations
APPROVED

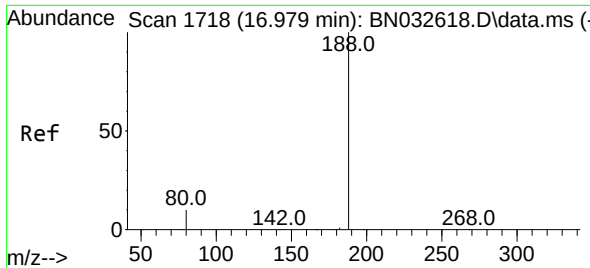
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.405 ng
RT: 15.195 min Scan# 1585
Delta R.T. -0.021 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:166 Resp: 6988
Ion Ratio Lower Upper
166 100
165 100.2 78.0 117.0
167 14.1 10.7 16.1





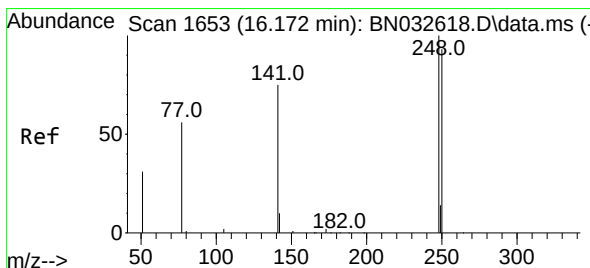
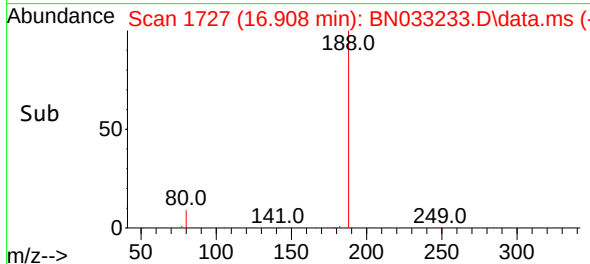
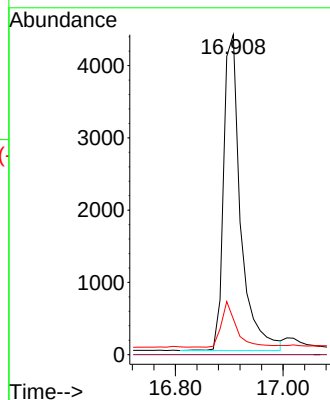
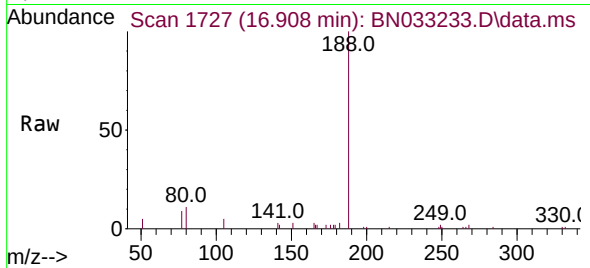
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.908 min Scan# 1661
Delta R.T. -0.012 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion:188 Resp: 9624
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.2 8.8 13.2

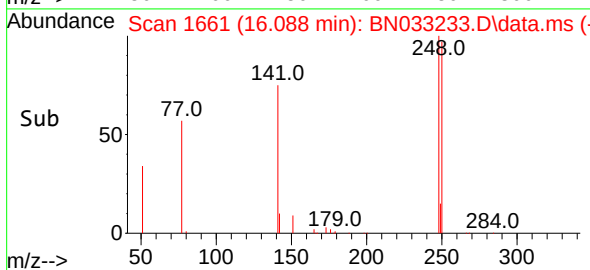
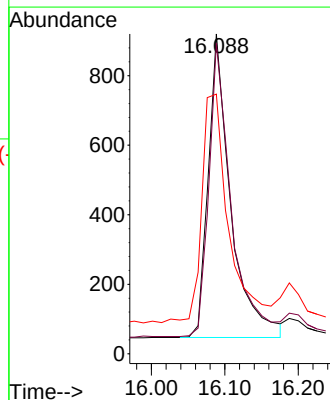
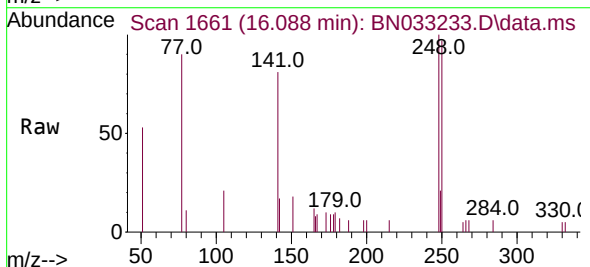
Manual Integrations
APPROVED

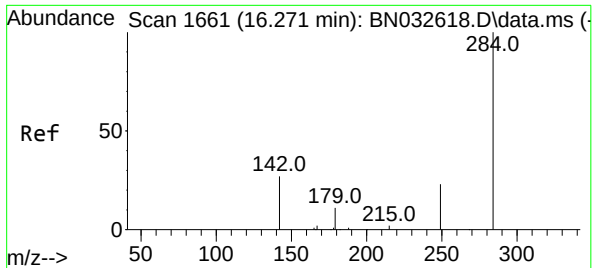
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#21
4-Bromophenyl-phenylether
Concen: 0.329 ng
RT: 16.088 min Scan# 1661
Delta R.T. -0.025 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:248 Resp: 1858
Ion Ratio Lower Upper
248 100
250 97.1 75.1 112.7
141 81.2 62.0 93.0





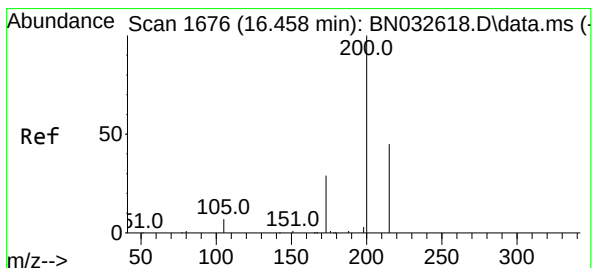
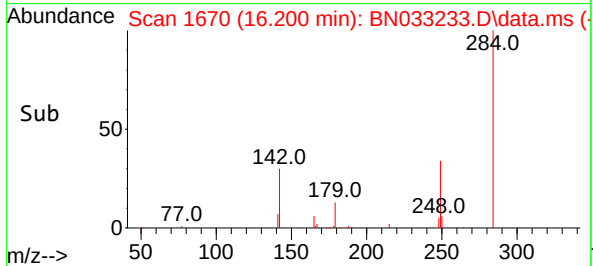
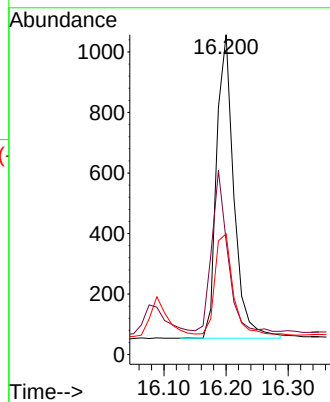
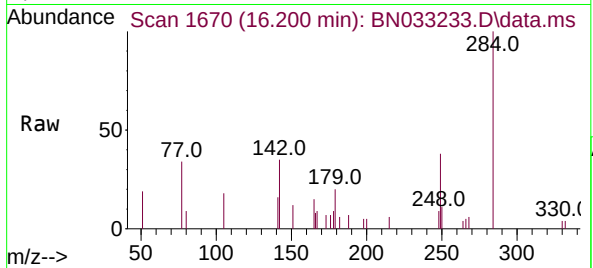
#22
Hexachlorobenzene
Concen: 0.306 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion:284 Resp: 1935
Ion Ratio Lower Upper
284 100
142 48.0 29.4 44.0
249 33.9 24.6 36.8

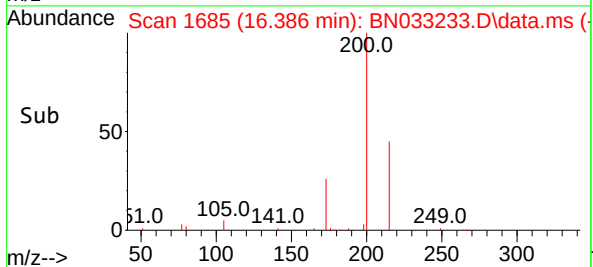
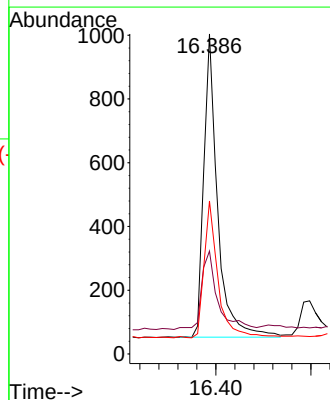
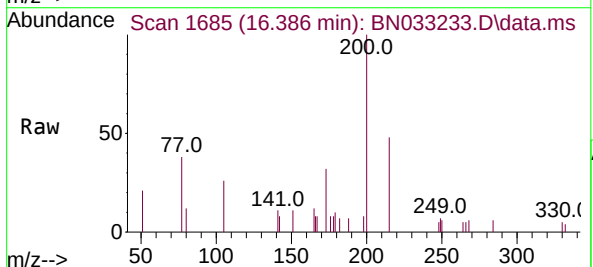
Manual Integrations
APPROVED

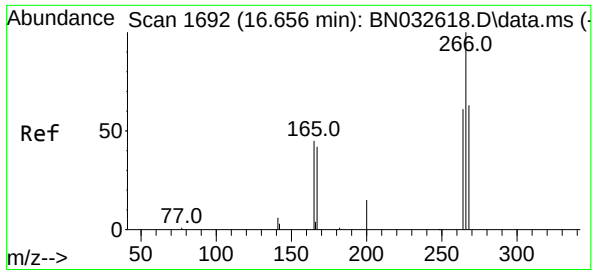
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#23
Atrazine
Concen: 0.461 ng
RT: 16.386 min Scan# 1685
Delta R.T. -0.025 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:200 Resp: 1921
Ion Ratio Lower Upper
200 100
173 32.2 25.4 38.2
215 47.8 38.2 57.2





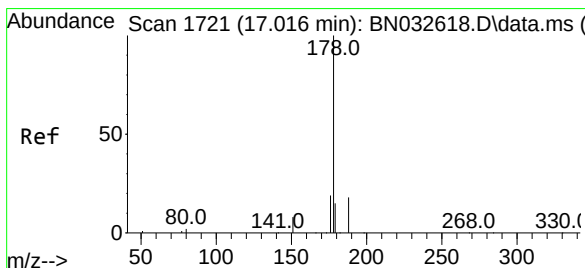
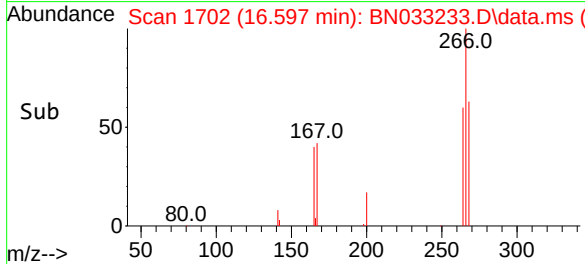
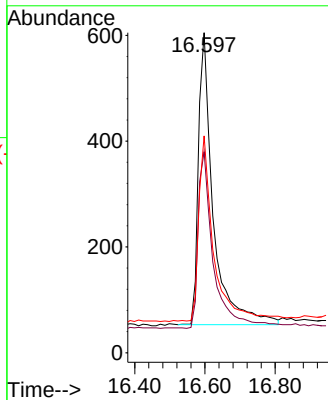
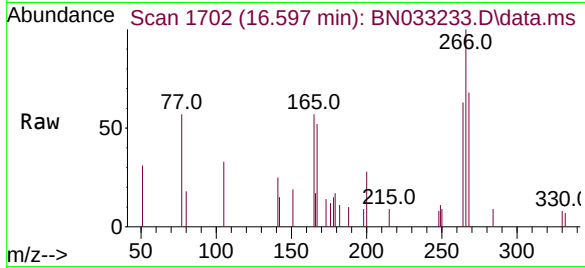
#24
Pentachlorophenol
Concen: 0.688 ng
RT: 16.597 min Scan# 1702
Delta R.T. -0.037 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD

Tgt Ion:266 Resp: 1618
Ion Ratio Lower Upper
266 100
264 63.2 50.2 75.2
268 65.6 52.8 79.2

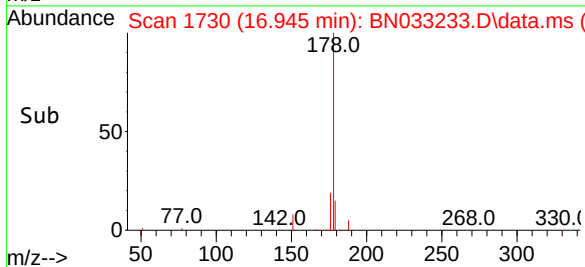
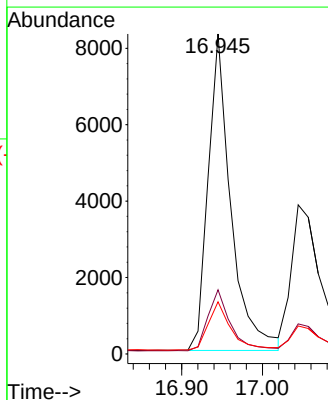
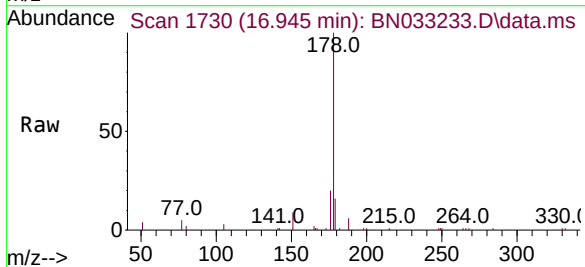
Manual Integrations
APPROVED

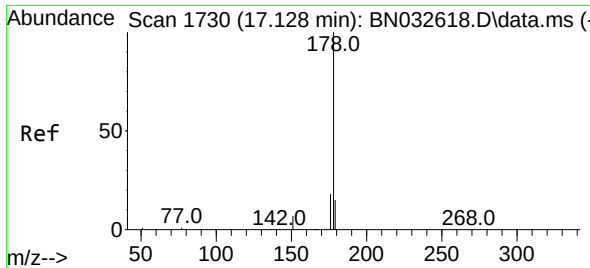
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#25
Phenanthrene
Concen: 0.614 ng
RT: 16.945 min Scan# 1730
Delta R.T. -0.025 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

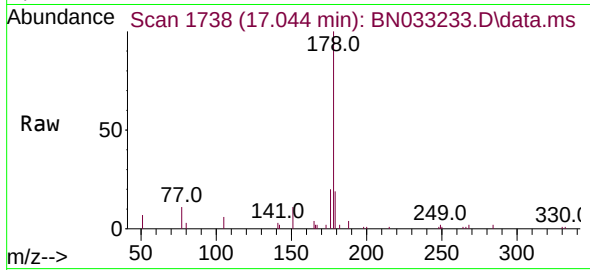
Tgt Ion:178 Resp: 16154
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.3 12.2 18.4





#26
Anthracene
Concen: 0.400 ng
RT: 17.044 min Scan# 1738
Delta R.T. -0.025 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

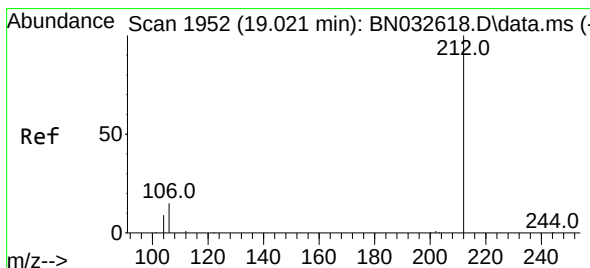
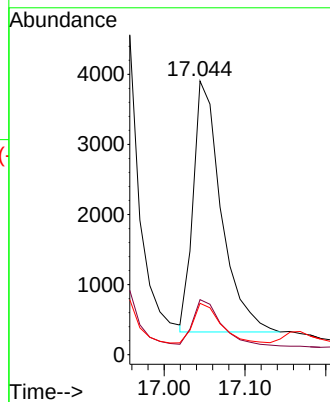
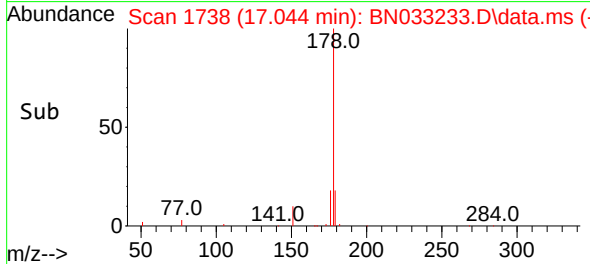
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:178 Resp: 865
Ion Ratio Lower Upper
178 100
176 19.2 14.8 22.2
179 15.3 11.8 17.8

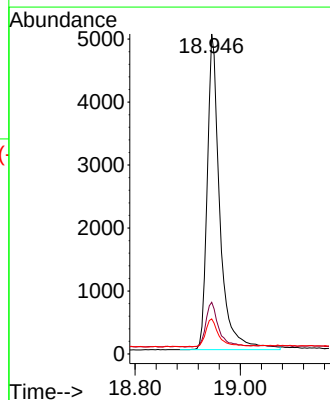
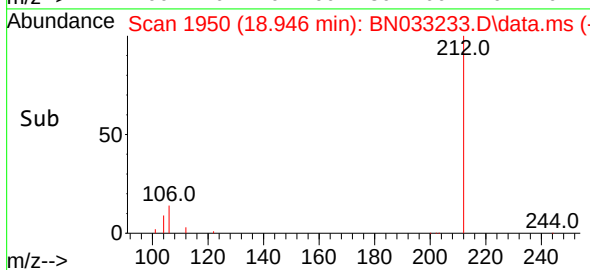
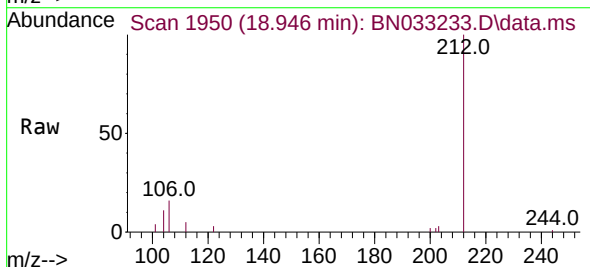
Manual Integrations
APPROVED

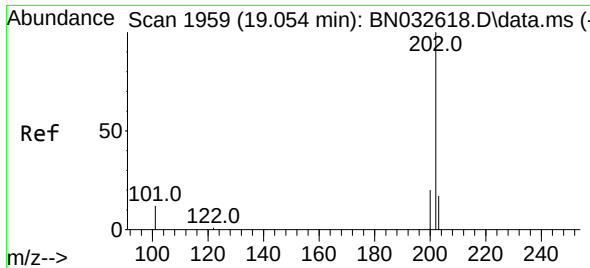
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 18.946 min Scan# 1950
Delta R.T. -0.014 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

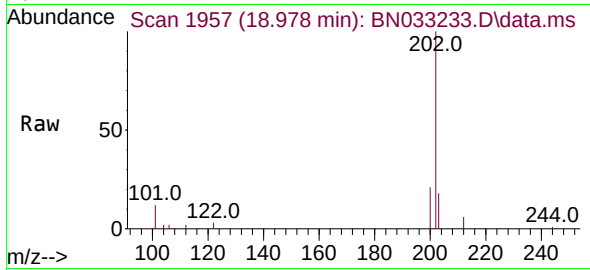
Tgt Ion:212 Resp: 8339
Ion Ratio Lower Upper
212 100
106 15.0 11.9 17.9
104 9.3 6.9 10.3





#28
Fluoranthene
Concen: 0.491 ng
RT: 18.978 min Scan# 1959
Delta R.T. -0.014 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

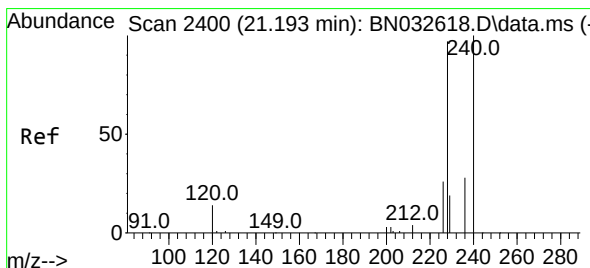
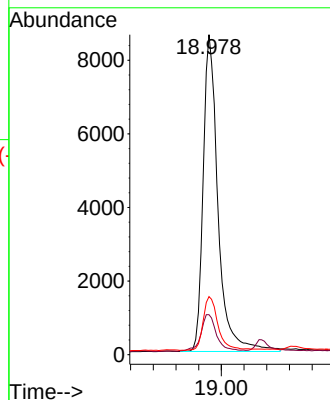
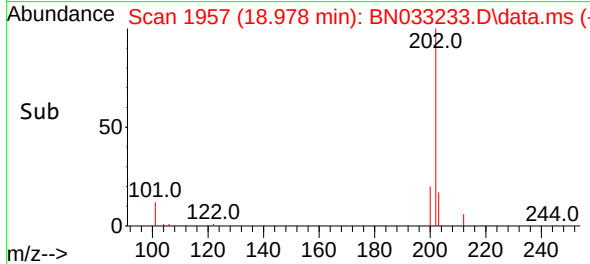
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:202 Resp: 1561
Ion Ratio Lower Upper
202 100
101 12.3 9.6 14.4
203 17.0 13.8 20.6

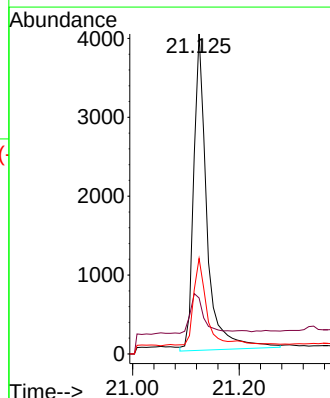
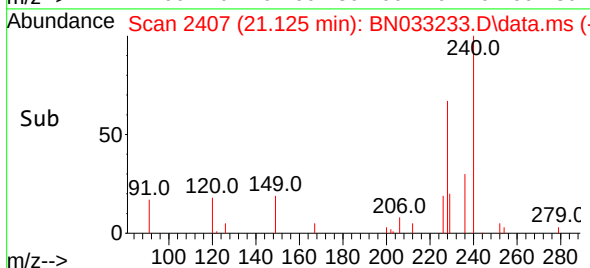
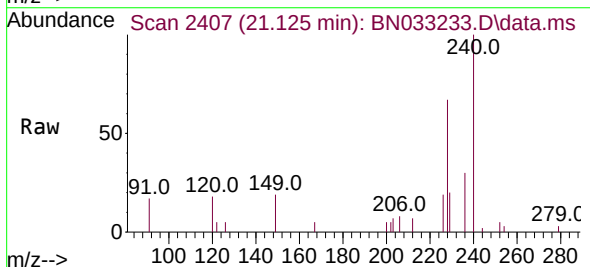
Manual Integrations
APPROVED

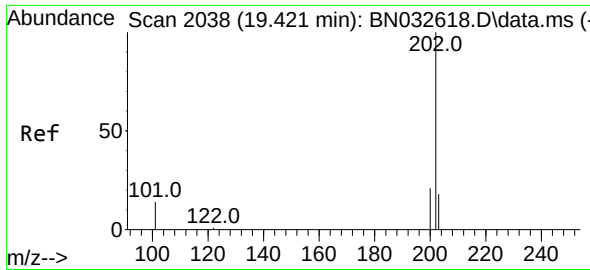
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.125 min Scan# 2407
Delta R.T. -0.009 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

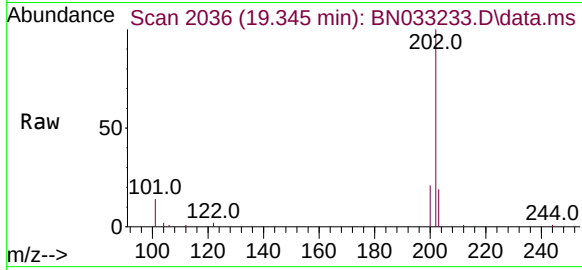
Tgt Ion:240 Resp: 6930
Ion Ratio Lower Upper
240 100
120 17.5 14.8 22.2
236 29.8 23.3 34.9





#30
Pyrene
Concen: 0.517 ng
RT: 19.345 min Scan# 2079
Delta R.T. -0.014 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

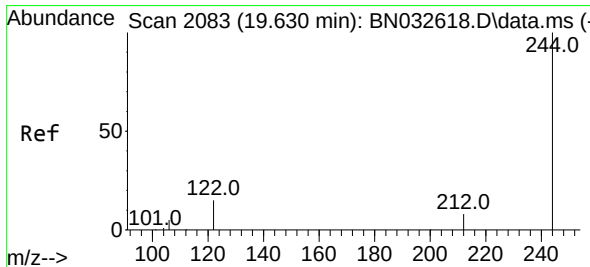
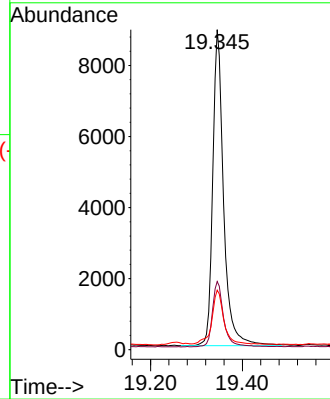
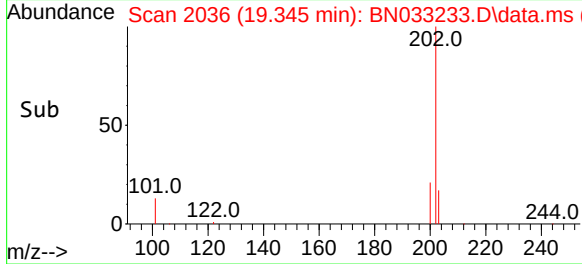
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:202 Resp: 14639
Ion Ratio Lower Upper
202 100
200 21.3 16.6 25.0
203 18.9 14.8 22.2

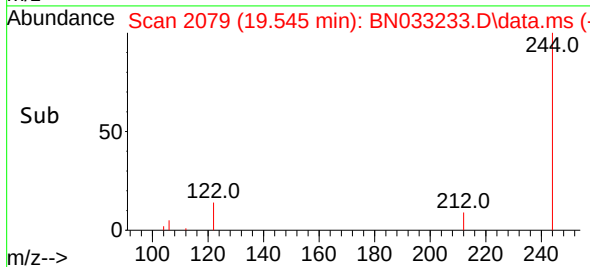
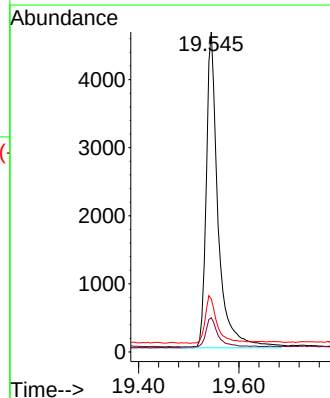
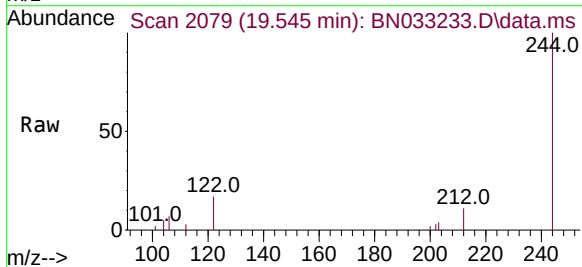
Manual Integrations
APPROVED

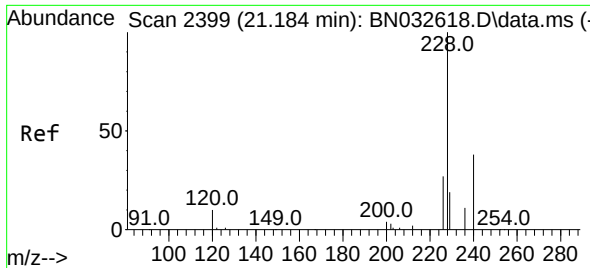
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.535 ng
RT: 19.545 min Scan# 2079
Delta R.T. -0.019 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

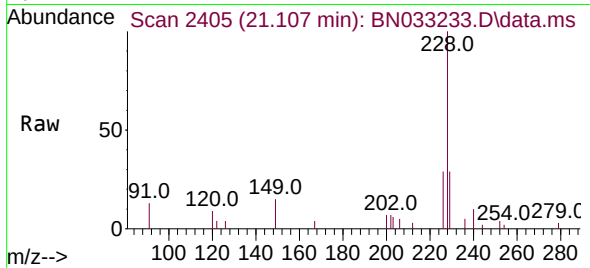
Tgt Ion:244 Resp: 7601
Ion Ratio Lower Upper
244 100
212 10.7 7.5 11.3
122 16.6 12.6 19.0





#32
Benzo(a)anthracene
Concen: 0.427 ng m
RT: 21.107 min Scan# 2410
Delta R.T. -0.018 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

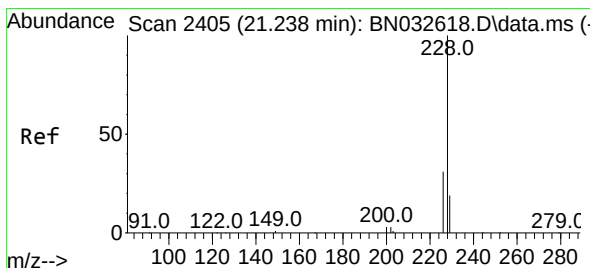
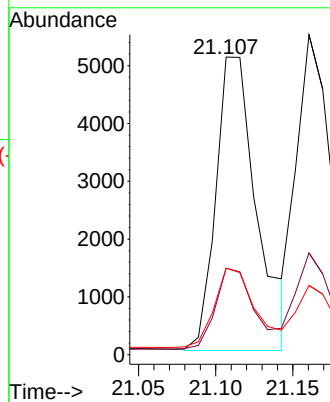
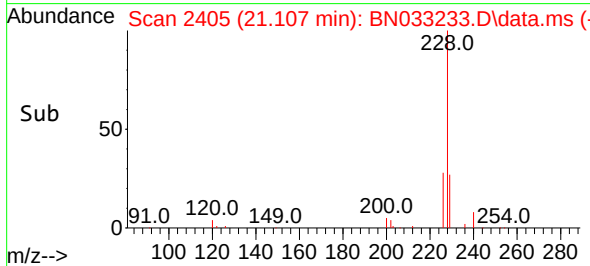
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:228 Resp: 9364
Ion Ratio Lower Upper
228 100
226 29.1 21.8 32.6
229 29.1 16.0 24.0

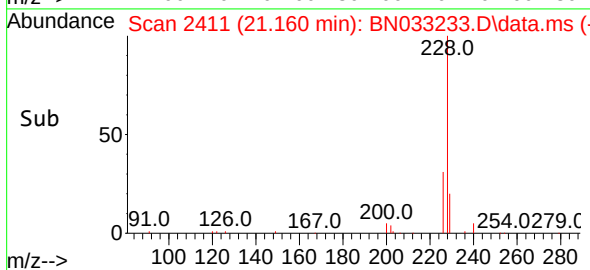
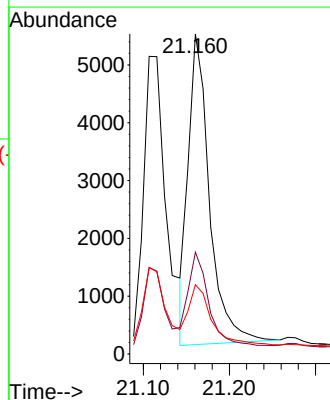
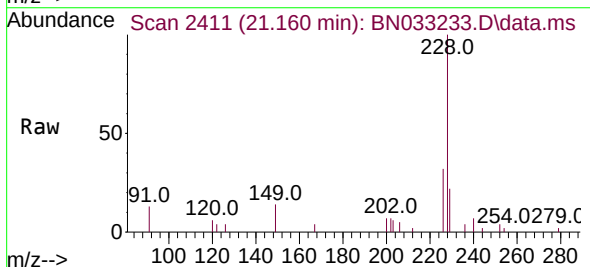
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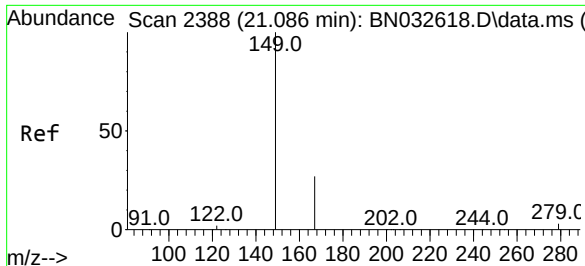
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#33
Chrysene
Concen: 0.352 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.009 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

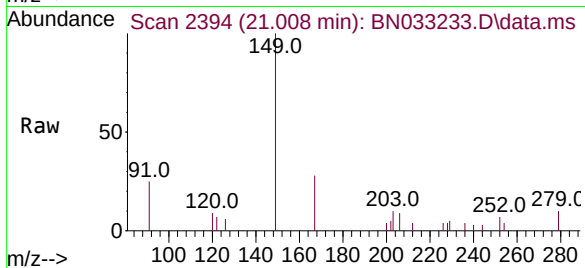
Tgt Ion:228 Resp: 9159
Ion Ratio Lower Upper
228 100
226 31.8 24.2 36.2
229 21.7 16.0 24.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.283 ng
RT: 21.008 min Scan# 2108
Delta R.T. 0.000 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

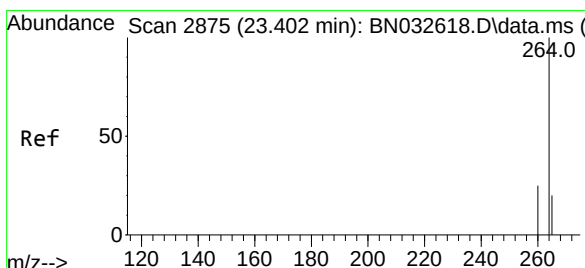
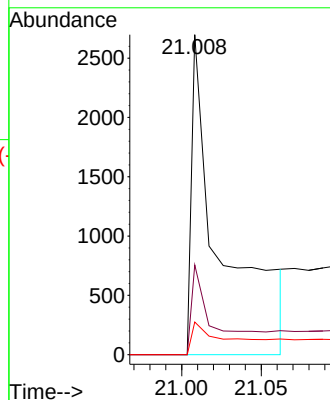
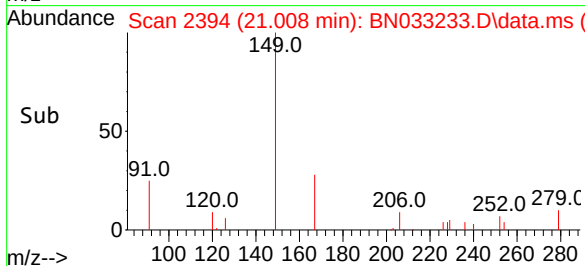
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:149 Resp: 3434
Ion Ratio Lower Upper
149 100
167 24.1 21.4 32.2
279 12.8 2.8 4.2

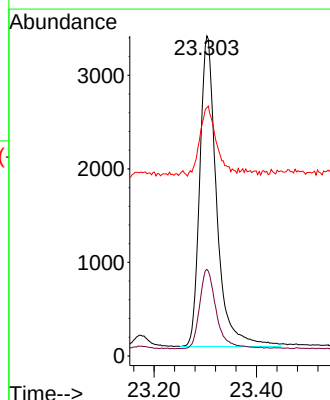
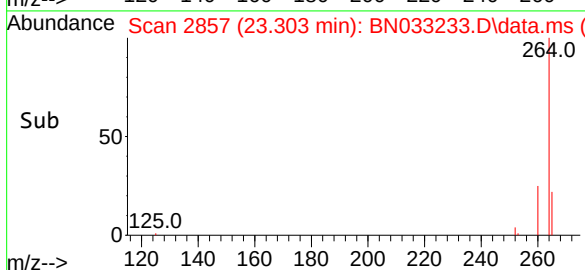
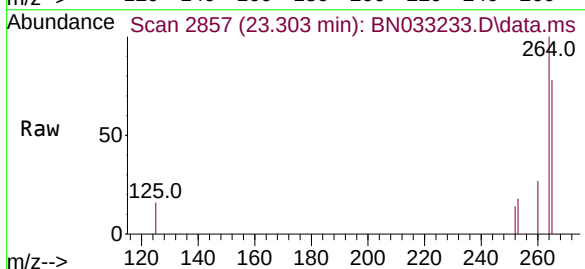
Manual Integrations
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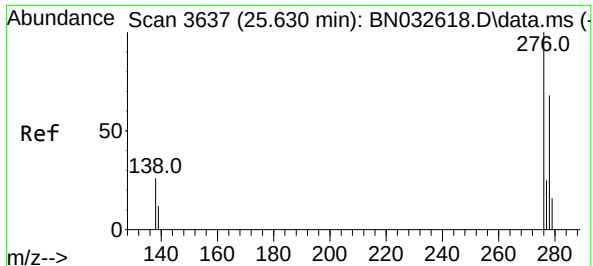
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2857
Delta R.T. -0.012 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:264 Resp: 7608
Ion Ratio Lower Upper
264 100
260 27.1 20.9 31.3
265 77.6 85.4 128.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.370 ng

RT: 25.499 min Scan# 30

Delta R.T. -0.009 min

Lab File: BN033233.D

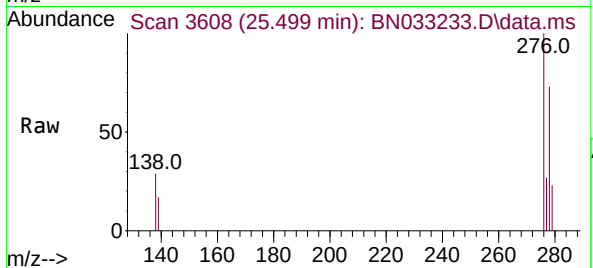
Acq: 03 Aug 2024 11:36

Instrument :

BNA_N

ClientSampleId :

923-K1-WS-080124MSD



Tgt Ion:276 Resp: 11100

Ion Ratio Lower Upper

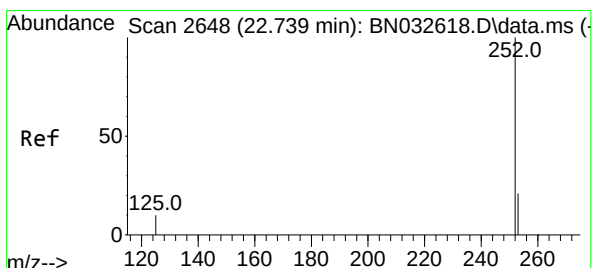
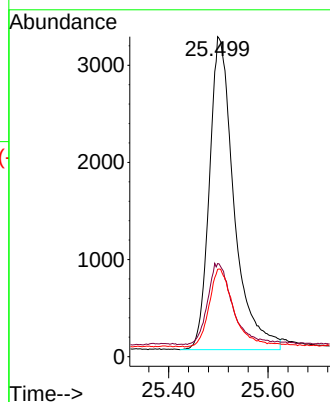
276 100

138 26.2 21.0 31.4

277 24.6 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#37

Benzo(b)fluoranthene

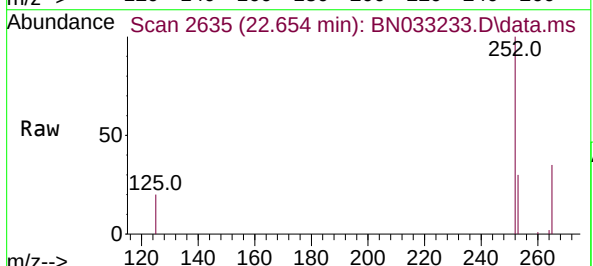
Concen: 0.354 ng

RT: 22.654 min Scan# 2635

Delta R.T. -0.006 min

Lab File: BN033233.D

Acq: 03 Aug 2024 11:36



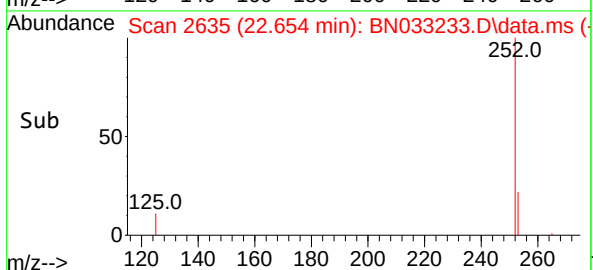
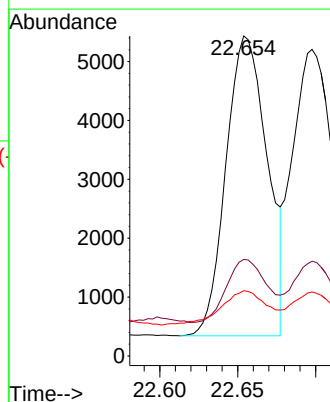
Tgt Ion:252 Resp: 9386

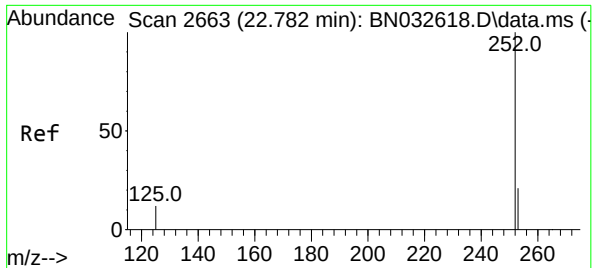
Ion Ratio Lower Upper

252 100

253 30.1 22.3 33.5

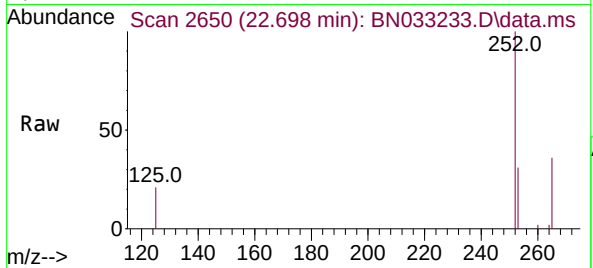
125 20.4 15.4 23.2





#38
Benzo(k)fluoranthene
Concen: 0.325 ng
RT: 22.698 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

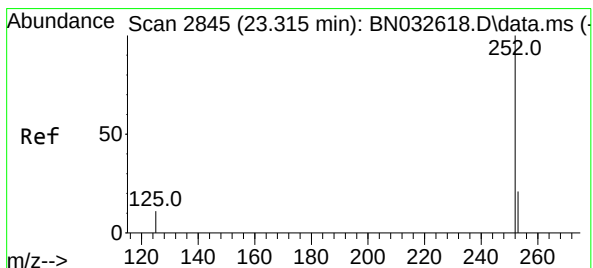
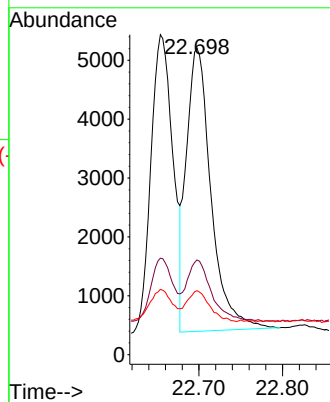
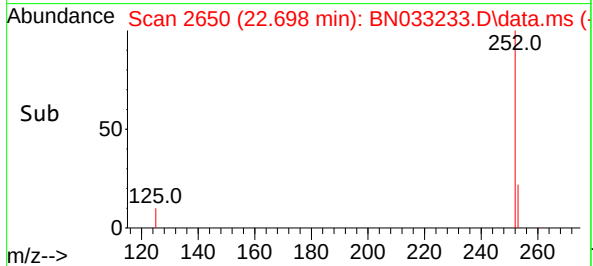
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:252 Resp: 983
Ion Ratio Lower Upper
252 100
253 30.9 22.6 34.0
125 20.9 16.2 24.4

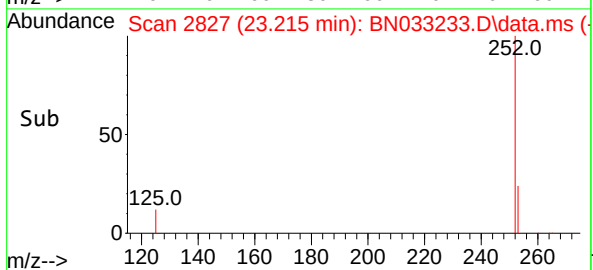
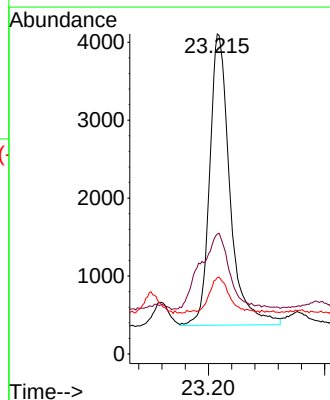
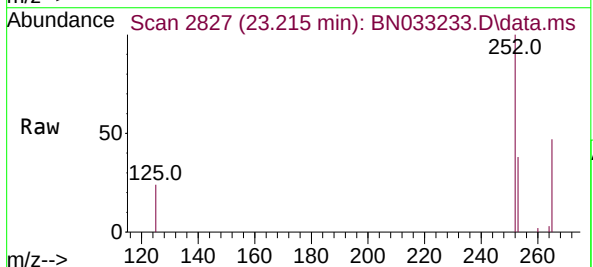
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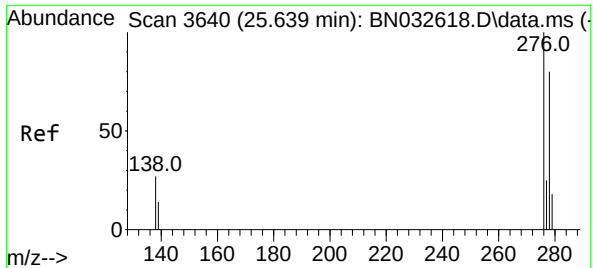
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#39
Benzo(a)pyrene
Concen: 0.378 ng
RT: 23.215 min Scan# 2827
Delta R.T. -0.009 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

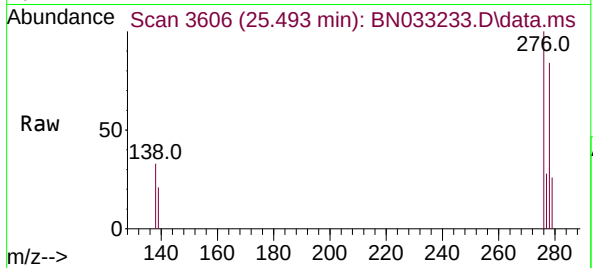
Tgt Ion:252 Resp: 9034
Ion Ratio Lower Upper
252 100
253 37.5 25.8 38.8
125 23.8 21.4 32.2





#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.493 min Scan# 30
Delta R.T. -0.015 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

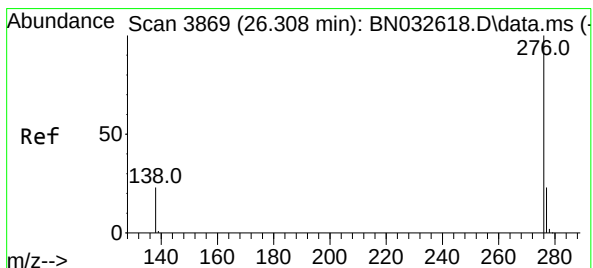
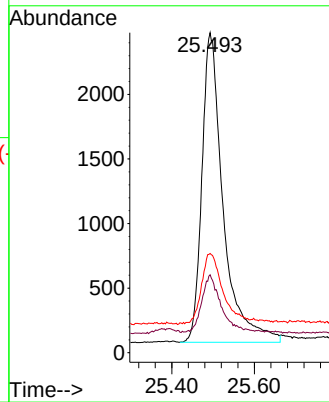
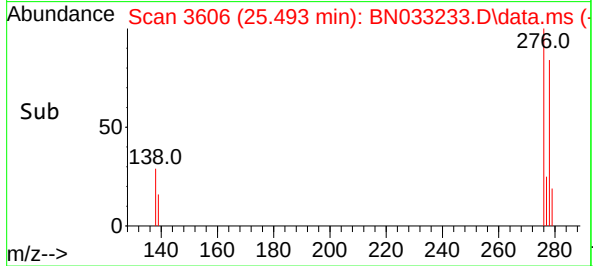
Instrument :
BNA_N
ClientSampleId :
923-K1-WS-080124MSD



Tgt Ion:278 Resp: 855
Ion Ratio Lower Upper
278 100
139 24.4 16.7 25.1
279 31.0 24.3 36.5

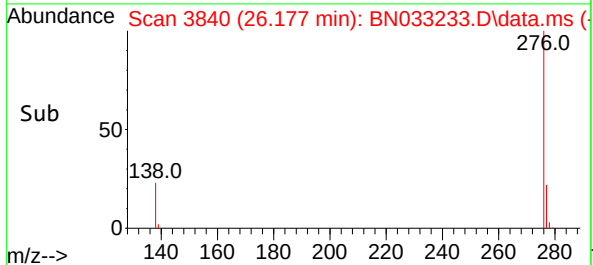
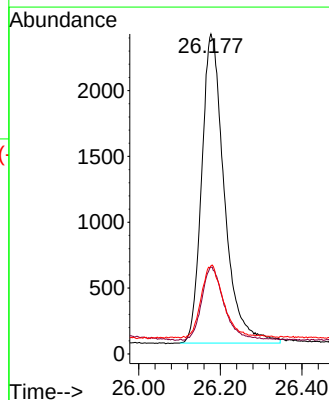
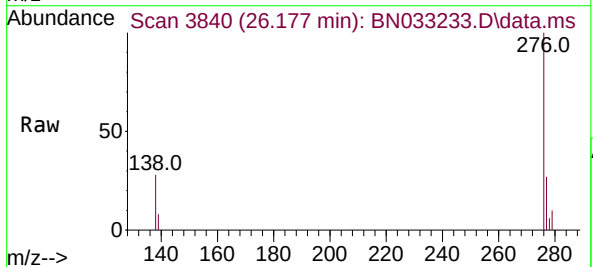
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#41
Benzo(g,h,i)perylene
Concen: 0.345 ng
RT: 26.177 min Scan# 3840
Delta R.T. 0.000 min
Lab File: BN033233.D
Acq: 03 Aug 2024 11:36

Tgt Ion:276 Resp: 9042
Ion Ratio Lower Upper
276 100
277 27.1 20.2 30.2
138 27.6 20.5 30.7



Manual Integration Report

Sequence:	BN071124	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN032616.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:35 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN032617.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:37 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICCC0.4	BN032618.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:59 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC0.8	BN032619.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:40 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC1.6	BN032620.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:41 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC3.2	BN032621.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:42 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC3.2	BN032621.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:42 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN032622.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:45 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICV0.4	BN032623.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:46 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033212.D	2-Fluorophenol	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Anthracene	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Benzo(b)fluoranthene	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	bis(2-Chloroethyl)ether	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Phenol-d6	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Anthracene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Benzo(a)anthracene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Benzo(b)fluoranthene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-01	BN033231.D	1,4-Dichlorobenzene-d4	Jagrut	8/5/2024 10:42:10 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-01	BN033231.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:10 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-01	BN033231.D	Phenol-d6	Jagrut	8/5/2024 10:42:10 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-02MS	BN033232.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:12 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3440-02MS	BN033232.D	Benzo(a)anthracene	Jagrut	8/5/2024 10:42:12 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-02MS	BN033232.D	Phenol-d6	Jagrut	8/5/2024 10:42:12 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-03MSD	BN033233.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:15 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-03MSD	BN033233.D	Benzo(a)anthracene	Jagrut	8/5/2024 10:42:15 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-03MSD	BN033233.D	Phenol-d6	Jagrut	8/5/2024 10:42:15 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-04	BN033234.D	1,4-Dichlorobenzene-d4	Jagrut	8/5/2024 10:42:17 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-04	BN033234.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:17 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3440-04	BN033234.D	Phenol-d6	Jagrut	8/5/2024 10:42:17 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN033241.D	1,4-Dichlorobenzene-d4	Jagrut	8/6/2024 11:54:09 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.1	BN033241.D	2-Methylnaphthalene	Jagrut	8/6/2024 11:54:09 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.1	BN033241.D	2-Methylnaphthalene-d10	Jagrut	8/6/2024 11:54:09 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.1	BN033241.D	Benzo(k)fluoranthene	Jagrut	8/6/2024 11:54:09 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.1	BN033241.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:54:09 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	2-Fluorophenol	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	2-Methylnaphthalene	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	2-Methylnaphthalene-d10	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	Benzo(k)fluoranthene	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	Nitrobenzene-d5	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN033242.D	Phenol-d6	Jagrut	8/6/2024 11:52:57 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC0.4	BN033243.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:02 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC0.4	BN033243.D	Phenol-d6	Jagrut	8/6/2024 11:53:02 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC0.8	BN033244.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:05 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC0.8	BN033244.D	4,6-Dinitro-2-methylphenol	Jagrut	8/6/2024 11:53:05 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC0.8	BN033244.D	Phenol-d6	Jagrut	8/6/2024 11:53:05 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC1.6	BN033245.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:07 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC1.6	BN033245.D	4,6-Dinitro-2-methylphenol	Jagrut	8/6/2024 11:53:07 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC1.6	BN033245.D	Hexachlorobutadiene	Jagrut	8/6/2024 11:53:07 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC1.6	BN033245.D	Phenol-d6	Jagrut	8/6/2024 11:53:07 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC3.2	BN033246.D	2-Fluorobiphenyl	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC3.2	BN033246.D	4,6-Dinitro-2-methylphenol	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC3.2	BN033246.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC3.2	BN033246.D	Hexachlorobutadiene	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICCC3.2	BN033246.D	Nitrobenzene-d5	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC3.2	BN033246.D	Phenol-d6	Jagrut	8/6/2024 11:53:10 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	2,4,6-Tribromophenol	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	2-Fluorobiphenyl	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	4,6-Dinitro-2-methylphenol	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	Hexachlorobutadiene	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	Nitrobenzene-d5	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN033247.D	Phenol-d6	Jagrut	8/6/2024 11:53:12 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICV0.4	BN033248.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:14 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICV0.4	BN033248.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:53:14 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDICV0.4	BN033248.D	Phenol-d6	Jagrut	8/6/2024 11:53:14 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033251.D	1,4-Dichlorobenzene-d4	Jagrut	8/6/2024 11:53:19 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033251.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:19 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033251.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:53:19 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033251.D	Phenol-d6	Jagrut	8/6/2024 11:53:19 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	1,4-Dichlorobenzene-d4	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	2,4,6-Tribromophenol	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	2-Fluorobiphenyl	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	2-Methylnaphthalene-d10	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	Acenaphthene-d10	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	Naphthalene-d8	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	Nitrobenzene-d5	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	Phenanthrene-d10	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BL	BN033252.D	Phenol-d6	Jagrut	8/6/2024 11:53:22 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:

BN080524

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB162464BS	BN033253.D	2-Fluorophenol	Jagrut	8/6/2024 11:53:24 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BS	BN033253.D	2-Methylnaphthalene-d10	Jagrut	8/6/2024 11:53:24 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BS	BN033253.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 11:53:24 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
PB162464BS	BN033253.D	Phenol-d6	Jagrut	8/6/2024 11:53:24 AM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033268.D	2-Fluorophenol	Jagrut	8/6/2024 2:16:21 PM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033268.D	bis(2-Chloroethyl)ether	Jagrut	8/6/2024 2:16:21 PM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033268.D	Phenol-d6	Jagrut	8/6/2024 2:16:21 PM	mohammad	8/7/2024 2:41:02 AM	Peak Integrated by Software incorrectly

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN071124

Review By	yogesh	Review On	7/11/2024 4:20:04 AM
Supervise By	mohammad	Supervise On	7/11/2024 5:19:17 AM
SubDirectory	BN071124	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6542		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6441		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN032615.D	10 Jul 2024 15:03	MA/JU	Ok
2	SSTDIC0.1	BN032616.D	10 Jul 2024 15:54	MA/JU	Ok,M
3	SSTDIC0.2	BN032617.D	10 Jul 2024 16:30	MA/JU	Ok,M
4	SSTDIC0.4	BN032618.D	10 Jul 2024 17:07	MA/JU	Ok,M
5	SSTDIC0.8	BN032619.D	10 Jul 2024 17:43	MA/JU	Ok,M
6	SSTDIC1.6	BN032620.D	10 Jul 2024 18:19	MA/JU	Ok,M
7	SSTDIC3.2	BN032621.D	10 Jul 2024 18:56	MA/JU	Ok,M
8	SSTDIC5.0	BN032622.D	10 Jul 2024 19:32	MA/JU	Ok,M
9	SSTDICV0.4	BN032623.D	10 Jul 2024 20:44	MA/JU	Ok,M
10	PB161896BL	BN032624.D	10 Jul 2024 21:21	MA/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_SIN HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033211.D	02 Aug 2024 20:20	MA/JU	Ok
2	SSTDCCC0.4	BN033212.D	02 Aug 2024 20:59	MA/JU	Ok,M
3	PB162424BL	BN033213.D	02 Aug 2024 22:12	MA/JU	Ok,M
4	PB162424BS	BN033214.D	02 Aug 2024 22:48	MA/JU	Ok,M
5	P3410-01	BN033215.D	02 Aug 2024 23:25	MA/JU	Dilution
6	P3415-03	BN033216.D	03 Aug 2024 00:02	MA/JU	Ok,M
7	P3415-04MS	BN033217.D	03 Aug 2024 00:38	MA/JU	Ok,M
8	P3415-05MSD	BN033218.D	03 Aug 2024 01:15	MA/JU	Ok,M
9	P3416-01	BN033219.D	03 Aug 2024 01:51	MA/JU	Ok,M
10	P3416-02	BN033220.D	03 Aug 2024 02:27	MA/JU	Ok,M
11	P3416-03	BN033221.D	03 Aug 2024 03:03	MA/JU	Ok,M
12	P3426-01	BN033222.D	03 Aug 2024 03:39	MA/JU	Ok,M
13	P3426-02	BN033223.D	03 Aug 2024 04:15	MA/JU	ReRun
14	P3429-01	BN033224.D	03 Aug 2024 04:52	MA/JU	Ok,M
15	P3429-02	BN033225.D	03 Aug 2024 05:28	MA/JU	Ok,M
16	P3429-03	BN033226.D	03 Aug 2024 06:04	MA/JU	Ok,M
17	DFTPP	BN033227.D	03 Aug 2024 07:20	MA/JU	Ok
18	SSTDCCC0.4	BN033228.D	03 Aug 2024 07:59	MA/JU	Ok,M
19	PB162464BL	BN033229.D	03 Aug 2024 09:11	MA/JU	Not Ok
20	PB162464BS	BN033230.D	03 Aug 2024 09:47	MA/JU	Not Ok
21	P3440-01	BN033231.D	03 Aug 2024 10:24	MA/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3440-02MS	BN033232.D	03 Aug 2024 11:00	MA/JU	Ok,M
23	P3440-03MSD	BN033233.D	03 Aug 2024 11:36	MA/JU	Ok,M
24	P3440-04	BN033234.D	03 Aug 2024 12:12	MA/JU	Ok,M
25	P3451-01	BN033235.D	03 Aug 2024 12:48	MA/JU	Ok,M
26	P3410-01DL	BN033236.D	03 Aug 2024 13:24	MA/JU	Ok,M
27	P3426-02RE	BN033237.D	03 Aug 2024 14:00	MA/JU	Confirms
28	SP6586	BN033238.D	03 Aug 2024 14:36	MA/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN080524

Review By	Jagrut	Review On	8/6/2024 2:17:36 PM
Supervise By	mohammad	Supervise On	8/7/2024 2:41:02 AM
SubDirectory	BN080524	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN080524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033239.D	05 Aug 2024 16:11	MA/JU	Ok
2	SSTDCCC0.4	BN033240.D	05 Aug 2024 17:45	MA/JU	Not Ok
3	SSTDICC0.1	BN033241.D	05 Aug 2024 18:39	MA/JU	Ok,M
4	SSTDICC0.2	BN033242.D	05 Aug 2024 19:16	MA/JU	Ok,M
5	SSTDICCC0.4	BN033243.D	05 Aug 2024 19:53	MA/JU	Ok,M
6	SSTDICC0.8	BN033244.D	05 Aug 2024 20:30	MA/JU	Ok,M
7	SSTDICC1.6	BN033245.D	05 Aug 2024 21:07	MA/JU	Ok,M
8	SSTDICC3.2	BN033246.D	05 Aug 2024 21:44	MA/JU	Ok,M
9	SSTDICC5.0	BN033247.D	05 Aug 2024 22:21	MA/JU	Ok,M
10	SSTDICV0.4	BN033248.D	05 Aug 2024 22:58	MA/JU	Ok,M
11	PB162464BL	BN033249.D	06 Aug 2024 00:12	MA/JU	Not Ok
12	DFTPP	BN033250.D	06 Aug 2024 00:48	MA/JU	Ok
13	SSTDCCC0.4	BN033251.D	06 Aug 2024 01:28	MA/JU	Ok,M
14	PB162464BL	BN033252.D	06 Aug 2024 02:04	MA/JU	Ok,M
15	PB162464BS	BN033253.D	06 Aug 2024 02:41	MA/JU	Ok,M
16	P3455-01	BN033254.D	06 Aug 2024 03:17	MA/JU	Dilution
17	P3455-02	BN033255.D	06 Aug 2024 03:54	MA/JU	Ok,M
18	P3455-03	BN033256.D	06 Aug 2024 04:30	MA/JU	Ok,M
19	P3455-04	BN033257.D	06 Aug 2024 05:07	MA/JU	Ok,M
20	P3455-05	BN033258.D	06 Aug 2024 05:43	MA/JU	Dilution
21	P3455-06	BN033259.D	06 Aug 2024 06:19	MA/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN080524

Review By	Jagrut	Review On	8/6/2024 2:17:36 PM
Supervise By	mohammad	Supervise On	8/7/2024 2:41:02 AM
SubDirectory	BN080524	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN080524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3455-07	BN033260.D	06 Aug 2024 06:56	MA/JU	Ok,M
23	P3455-08	BN033261.D	06 Aug 2024 07:32	MA/JU	Ok,M
24	P3457-01	BN033262.D	06 Aug 2024 08:08	MA/JU	Ok,M
25	P3457-02	BN033263.D	06 Aug 2024 08:45	MA/JU	Ok,M
26	P3455-01DL	BN033264.D	06 Aug 2024 09:21	MA/JU	Ok,M
27	P3455-05DL	BN033265.D	06 Aug 2024 09:58	MA/JU	Ok,M
28	P3458-04	BN033266.D	06 Aug 2024 10:34	MA/JU	Ok
29	P3459-01	BN033267.D	06 Aug 2024 11:11	MA/JU	Ok,M
30	SSTDCCC0.4	BN033268.D	06 Aug 2024 11:48	MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN071124

Review By	yogesh	Review On	7/11/2024 4:20:04 AM
Supervise By	mohammad	Supervise On	7/11/2024 5:19:17 AM
SubDirectory	BN071124	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124

STD. NAME	STD REF.#
Tune/Reschk	SP6542
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563
CCC	SP6567
Internal Standard/PEM	SP6441
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN032615.D	10 Jul 2024 15:03		MA/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN032616.D	10 Jul 2024 15:54	Compound #20 removed from 0.1ppm	MA/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN032617.D	10 Jul 2024 16:30	Compound #20 Kept on LR	MA/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN032618.D	10 Jul 2024 17:07	Calibration is Good For DOD except Com#20	MA/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN032619.D	10 Jul 2024 17:43	Com#20 failed for %RE in calibration	MA/JU	Ok,M
6	SSTDICC1.6	SSTDICC1.6	BN032620.D	10 Jul 2024 18:19		MA/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN032621.D	10 Jul 2024 18:56		MA/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN032622.D	10 Jul 2024 19:32		MA/JU	Ok,M
9	SSTDICV0.4	ICVBN071124	BN032623.D	10 Jul 2024 20:44		MA/JU	Ok,M
10	PB161896BL	PB161896BL	BN032624.D	10 Jul 2024 21:21	Analyzed for contamination check	MA/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563
CCC	SP6567
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033211.D	02 Aug 2024 20:20		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033212.D	02 Aug 2024 20:59		MA/JU	Ok,M
3	PB162424BL	PB162424BL	BN033213.D	02 Aug 2024 22:12		MA/JU	Ok,M
4	PB162424BS	PB162424BS	BN033214.D	02 Aug 2024 22:48		MA/JU	Ok,M
5	P3410-01	GW-S-864-9-14-07302	BN033215.D	02 Aug 2024 23:25	Need 5X Dilution	MA/JU	Dilution
6	P3415-03	MLS-15-70-85	BN033216.D	03 Aug 2024 00:02		MA/JU	Ok,M
7	P3415-04MS	MLS-15-70-85MS	BN033217.D	03 Aug 2024 00:38		MA/JU	Ok,M
8	P3415-05MSD	MLS-15-70-85MSD	BN033218.D	03 Aug 2024 01:15		MA/JU	Ok,M
9	P3416-01	MLS-15-106-121	BN033219.D	03 Aug 2024 01:51		MA/JU	Ok,M
10	P3416-02	MLS-15-135-150	BN033220.D	03 Aug 2024 02:27		MA/JU	Ok,M
11	P3416-03	MLS-15-9999	BN033221.D	03 Aug 2024 03:03		MA/JU	Ok,M
12	P3426-01	927-K1-WS-073124	BN033222.D	03 Aug 2024 03:39		MA/JU	Ok,M
13	P3426-02	927-K1-WS-073124-FD	BN033223.D	03 Aug 2024 04:15	Internal Standard Fail	MA/JU	ReRun
14	P3429-01	926-K1-WS-073124	BN033224.D	03 Aug 2024 04:52		MA/JU	Ok,M
15	P3429-02	931-K1-WS-073124	BN033225.D	03 Aug 2024 05:28		MA/JU	Ok,M
16	P3429-03	925-K1-WS-073124	BN033226.D	03 Aug 2024 06:04		MA/JU	Ok,M
17	DFTPP	DFTPP	BN033227.D	03 Aug 2024 07:20		MA/JU	Ok
18	SSTDCCC0.4	SSTDCCC0.4	BN033228.D	03 Aug 2024 07:59		MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PB162464BL	PB162464BL	BN033229.D	03 Aug 2024 09:11	END CCC Missing	MA/JU	Not Ok
20	PB162464BS	PB162464BS	BN033230.D	03 Aug 2024 09:47	END CCC Missing	MA/JU	Not Ok
21	P3440-01	923-K1-WS-080124	BN033231.D	03 Aug 2024 10:24		MA/JU	Ok,M
22	P3440-02MS	923-K1-WS-080124MS	BN033232.D	03 Aug 2024 11:00	Used for NON DOD	MA/JU	Ok,M
23	P3440-03MSD	923-K1-WS-080124MS	BN033233.D	03 Aug 2024 11:36	Used for NON DOD	MA/JU	Ok,M
24	P3440-04	922-K1-WS-080124	BN033234.D	03 Aug 2024 12:12		MA/JU	Ok,M
25	P3451-01	921-J-WS-080124	BN033235.D	03 Aug 2024 12:48		MA/JU	Ok,M
26	P3410-01DL	GW-S-864-9-14-073024	BN033236.D	03 Aug 2024 13:24		MA/JU	Ok,M
27	P3426-02RE	927-K1-WS-073124-FD	BN033237.D	03 Aug 2024 14:00	Internal Standard Fail	MA/JU	Confirms
28	SP6586	SP6586	BN033238.D	03 Aug 2024 14:36	SP6586--8270-SIM SURROGATE	MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080524

Review By	Jagrut	Review On	8/6/2024 2:17:36 PM
Supervise By	mohammad	Supervise On	8/7/2024 2:41:02 AM
SubDirectory	BN080524	HP Acquire Method	BNA_N, 8270_HP Processing Method BN080524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563
CCC	SP6567
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033239.D	05 Aug 2024 16:11		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033240.D	05 Aug 2024 17:45	A Fresh Calibration is required.	MA/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN033241.D	05 Aug 2024 18:39	Compound #2,3,4,5,20 removed from 0.1ppm	MA/JU	Ok,M
4	SSTDICC0.2	SSTDICC0.2	BN033242.D	05 Aug 2024 19:16	Compound #2,20 Kept on LR	MA/JU	Ok,M
5	SSTDICCC0.4	SSTDICCC0.4	BN033243.D	05 Aug 2024 19:53	Calibration is Good For 8270 Sim DOD except Com#20,34	MA/JU	Ok,M
6	SSTDICC0.8	SSTDICC0.8	BN033244.D	05 Aug 2024 20:30	Compound #20 and 34 failed in the calibration for Both 8270 Sim DOD and NON-DOD	MA/JU	Ok,M
7	SSTDICC1.6	SSTDICC1.6	BN033245.D	05 Aug 2024 21:07	Compound #20 failed in %RE in the calibration.	MA/JU	Ok,M
8	SSTDICC3.2	SSTDICC3.2	BN033246.D	05 Aug 2024 21:44		MA/JU	Ok,M
9	SSTDICC5.0	SSTDICC5.0	BN033247.D	05 Aug 2024 22:21		MA/JU	Ok,M
10	SSTDICV0.4	ICVBN080524	BN033248.D	05 Aug 2024 22:58		MA/JU	Ok,M
11	PB162464BL	PB162464BL	BN033249.D	06 Aug 2024 00:12	Analyzed for contamination check,	MA/JU	Not Ok
12	DFTPP	DFTPP	BN033250.D	06 Aug 2024 00:48		MA/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4	BN033251.D	06 Aug 2024 01:28		MA/JU	Ok,M
14	PB162464BL	PB162464BL	BN033252.D	06 Aug 2024 02:04		MA/JU	Ok,M
15	PB162464BS	PB162464BS	BN033253.D	06 Aug 2024 02:41		MA/JU	Ok,M
16	P3455-01	RW7-SP100-50-202408	BN033254.D	06 Aug 2024 03:17	Need 5X Dilution	MA/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080524

Review By	Jagrut	Review On	8/6/2024 2:17:36 PM
Supervise By	mohammad	Supervise On	8/7/2024 2:41:02 AM
SubDirectory	BN080524	HP Acquire Method	BNA_N, 8270_HP Processing Method BN080524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

17	P3455-02	RW7-SP201-50-202408	BN033255.D	06 Aug 2024 03:54		MA/JU	Ok,M
18	P3455-03	RW7-SP301A-50-202408	BN033256.D	06 Aug 2024 04:30		MA/JU	Ok,M
19	P3455-04	RW7-SP303-50-202408	BN033257.D	06 Aug 2024 05:07		MA/JU	Ok,M
20	P3455-05	RW7-SP100-90-202408	BN033258.D	06 Aug 2024 05:43	Need 5X Dilution	MA/JU	Dilution
21	P3455-06	RW7-SP201-90-202408	BN033259.D	06 Aug 2024 06:19		MA/JU	Ok,M
22	P3455-07	RW7-SP301A-90-202408	BN033260.D	06 Aug 2024 06:56		MA/JU	Ok,M
23	P3455-08	RW7-SP303-90-202408	BN033261.D	06 Aug 2024 07:32		MA/JU	Ok,M
24	P3457-01	924-K1-WS-080224	BN033262.D	06 Aug 2024 08:08		MA/JU	Ok,M
25	P3457-02	932-K1-WS-080224	BN033263.D	06 Aug 2024 08:45		MA/JU	Ok,M
26	P3455-01DL	RW7-SP100-50-202408	BN033264.D	06 Aug 2024 09:21		MA/JU	Ok,M
27	P3455-05DL	RW7-SP100-90-202408	BN033265.D	06 Aug 2024 09:58		MA/JU	Ok,M
28	P3458-04	MLS-15-257-272	BN033266.D	06 Aug 2024 10:34		MA/JU	Ok
29	P3459-01	EB-224-375	BN033267.D	06 Aug 2024 11:11		MA/JU	Ok,M
30	SSTDCCC0.4	SSTDCCC0.4EC	BN033268.D	06 Aug 2024 11:48		MA/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 08/02/2024

Matrix : Water **Extraction Start Time :** 09:25

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 08/02/2024

Balance check: N/A **Filter By:** RS **Extraction End Time :** 14:25

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 Funne ☐ 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	SP6572
Surrogate	1.0ML	0.4 PPM	SP6541
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	E3786
Baked Na2SO4	N/A	EP2518
10N NaoH	N/A	EP2514
H2SO4 1:1	N/A	EP2499
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 MLVial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/02/24	RP (Est 14)	Rajesh
14:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 08/02/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162464BL	SBLK464	SVOCMS Group3	1000	6	RUPESH	rajesh	1			SEP-11
PB162464BS	SLCS464	SVOCMS Group3	1000	6	RUPESH	rajesh	1			12
P3440-01	923-K1-WS-080124	SVOCMS Group3	910	6	RUPESH	rajesh	1	F		13
P3440-02	P3440-01MS	SVOCMS Group3	900	6	RUPESH	rajesh	1	F		14
P3440-03	P3440-01MSD	SVOCMS Group3	910	6	RUPESH	rajesh	1	F		15
P3440-04	922-K1-WS-080124	SVOCMS Group3	930	6	RUPESH	rajesh	1	F		16
P3451-01	921-J-WS-080124	SVOCMS Group3	980	6	RUPESH	rajesh	1	F		17
P3455-01	RW7-SP100-50-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	B		SEP-1
P3455-02	RW7-SP201-50-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			2
P3455-03	RW7-S301A-50-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	B		3
P3455-04	RW7-SP303-50-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	B		4
P3455-05	RW7-SP100-90-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	B		5
P3455-06	RW7-SP201-90-20240801	SVOC-SIMGro up1	000	6	RUPESH	rajesh	1			6
P3455-07	RW7-SP301A-90-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			7
P3455-08	RW7-SP303-90-20240801	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			8

* Extracts relinquished on the same date as received.



162464
m09+25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3440 WorkList ID : 182310 Department : Extraction Date : 08-02-2024 08:38:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3419-01	286118	Water	PCB	Cool 4 deg C	PSEG03	N21	07/31/2024	8082A
P3440-01	923-K1-WS-080124	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D31	08/01/2024	8270-Modified
P3440-01	923-K1-WS-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3440-02	P3440-01MS	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D31	08/01/2024	8270-Modified
P3440-02	P3440-01MS	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3440-03	P3440-01MSD	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D31	08/01/2024	8270-Modified
P3440-03	P3440-01MSD	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3440-04	922-K1-WS-080124	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D31	08/01/2024	8270-Modified
P3440-04	922-K1-WS-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E

Date/Time 08/02/24 9:15
Raw Sample Received by: PS (Get 104)
Raw Sample Relinquished by: CS

Date/Time 08/02/24 9:40
Raw Sample Received by: CS
Raw Sample Relinquished by: PS (Get 104)
601 of 670

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3450

WorkList ID : 182313

Department : Extraction

Date : 08-02-2024 09:18:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3450-01	921-J-WPO-0.25-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3450-02	923-K1-WPO-0.25-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3450-03	422-K1-WPO-0.25-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E
P3451-01	921-J-WS-080124	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D31	08/01/2024	8270-Modified
P3451-01	921-J-WS-080124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/01/2024	8270E

Date/Time 08/02/24 9:20
 Raw Sample Received by: RS (Extr 103)
 Raw Sample Relinquished by: AL Sm

P3440-SVOCMS Group3

Date/Time 08/02/24 9:40
 Raw Sample Received by: AL Sm
 Raw Sample Relinquished by: RS (Extr 103)
 602 of 670

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3455

WorkList ID : 182325

Department : Extraction

Date : 08-02-2024 12:39:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3455-01	RW7-SP100-50-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-02	RW7-SP201-50-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-03	RW7-S301A-50-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-04	RW7-SP303-50-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-05	RW7-SP100-90-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-06	RW7-SP201-90-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-07	RW7-SP301A-90-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified
P3455-08	RW7-SP303-90-20240801	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	08/01/2024	8270-Modified

Date/Time 08/02/24 12:40
 Raw Sample Received by: RJ (Est (us))
 Raw Sample Relinquished by: JUL (SM)

P3440-SVOCMS Group3

Date/Time 08/02/24 13:10
 Raw Sample Received by: JUL (SM)
 Raw Sample Relinquished by: RJ (Est (us))
 603 of 670

Prep Standard - Chemical Standard Summary

Order ID : P3440
Test : SVOCMS Group3
Prepbatch ID : PB162464,
Sequence ID/Qc Batch ID: BN080324,BN080524,

Standard ID :
EP2499,EP2514,EP2518,SP6516,SP6527,SP6541,SP6547,SP6548,SP6562,SP6563,SP6564,SP6565,SP6566,SP6567,S
P6568,SP6569,SP6572,SP6573,

Chemical ID :
E3551,E3657,E3743,E3746,E3759,E3763,E3768,E3769,E3786,M5037,S10102,S10247,S10782,S10977,S 11003,S11012,S
11096,S11434,S11566,S11766,S11767,S12023,S12029,S12075,S12096,S12097,S 12112,S12117,S12118,W2606,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2499	06/17/2024	10/24/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 06/17/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2514	07/17/2024	01/17/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 07/17/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2518	07/26/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Rajesh Parikh 07/26/2024

FROM 1.00000gram 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>
3493	Internal Standard 0.4 PPM	SP6516	05/21/2024	10/30/2024	Jagrut Upadhyay	None	None	mohammad ahmed 05/21/2024

FROM 0.02000ml of S12023 + 0.98000ml of E3743 = Final Quantity: 1.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

<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	SP6541	06/27/2024	11/21/2024	Rahul Chavli	None	None	mohammad ahmed 07/05/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3763 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM SOURCE
0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 +
0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM SOURCE
0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6562	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.03350ml of S10102 + 0.05000ml of S11434 + 0.12500ml of S10782 + 0.12500ml of S12112 + 0.25000ml of S11096 +
0.25000ml of S12075 + 24.16650ml of E3768 = 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	SP6563	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6562 = 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	SP6564	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.68000ml of E3768 + 0.01000ml of SP6516 + 0.32000ml of SP6562 = 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	SP6565	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.84000ml of E3768 + 0.01000ml of SP6516 + 0.16000ml of SP6562 = 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	SP6566	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.92000ml of E3768 + 0.01000ml of SP6516 + 0.08000ml of SP6562 = 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	SP6567	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.96000ml of E3768 + 0.01000ml of SP6516 + 0.04000ml of SP6562 = 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	SP6568	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6567 = 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	SP6569	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.75000ml of E3768 + 0.01000ml of SP6516 + 0.25000ml of SP6567 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6572	07/12/2024	10/26/2024	Rahul Chavli	None	None	Yogesh Patel
07/30/2024								

FROM 0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 +
49.92920ml of E3769 = Final Quantity: 50.000 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>
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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	12/25/2024	06/25/2024 / Rajesh	06/20/2024 / Rajesh	E3763

CHEMICAL RECEIPT LOG BOOK

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	01/12/2025	07/12/2024 /	07/02/2024 / Rajesh	E3769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

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	09/29/2024	03/29/2024 / Jagrut	12/09/2021 / Christian	S10102

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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

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/a mpul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012

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	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11096

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	503442	08/26/2024	07/09/2024 / Jagrut	07/26/2023 / yogesh	S11434

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

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	A0201320	10/30/2024	04/30/2024 / Rahul	12/21/2023 / Rahul	S12023

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	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	11/14/2024	05/14/2024 / Jagrut	01/31/2024 / Rahul	S12075

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

[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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

CHEMICAL RECEIPT LOG BOOK

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	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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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)

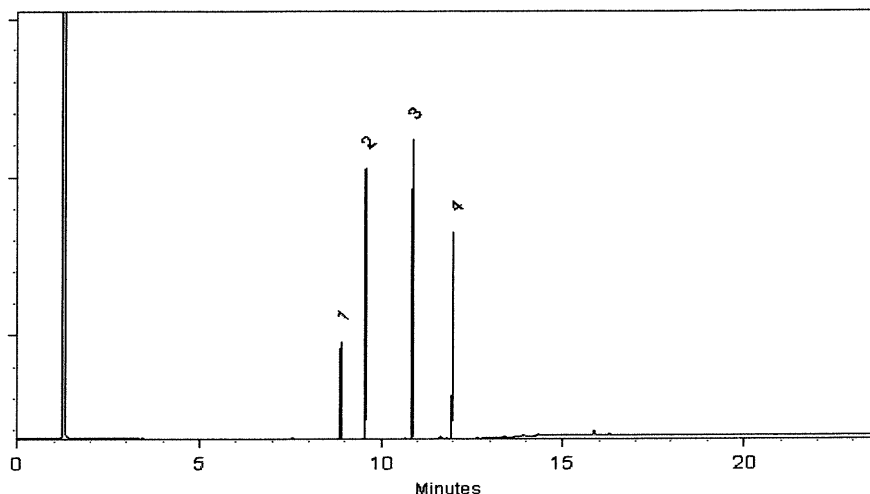
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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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
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10	2,015.0 µg/mL	+/- 11.8254 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.7728 µg/mL	Unstressed
	Purity 96%		+/- 100.7207 µg/mL	Stressed
2	Fluoranthene-d10	2,007.0 µg/mL	+/- 11.7782 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.4107 µg/mL	Unstressed
	Purity 99%		+/- 100.3188 µg/mL	Stressed
Solvent: Methylene chloride				
CAS # 75-09-2				
Purity 99%				

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

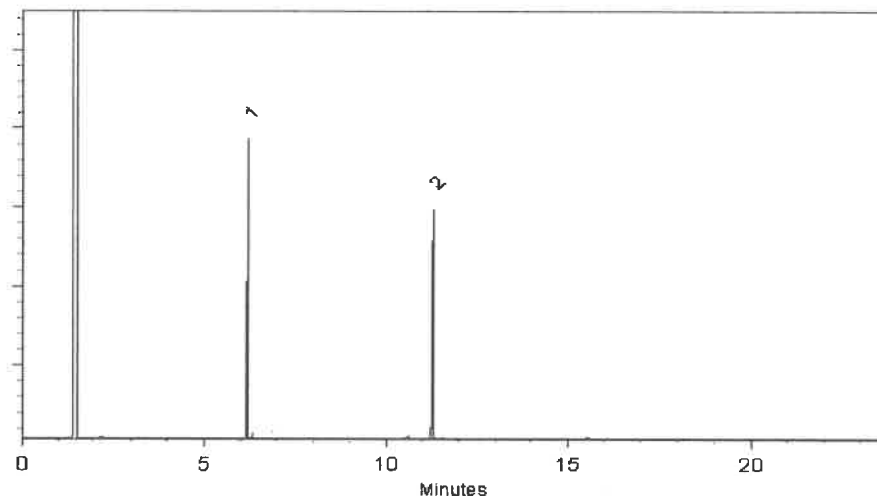
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

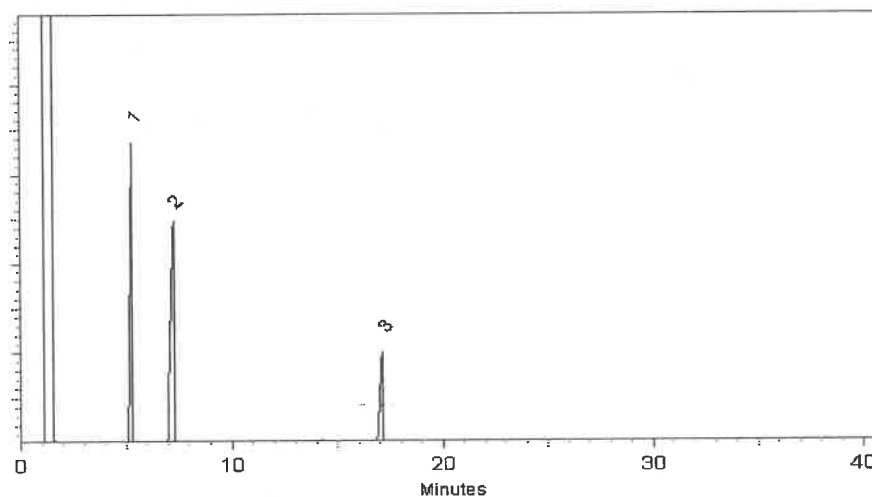
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

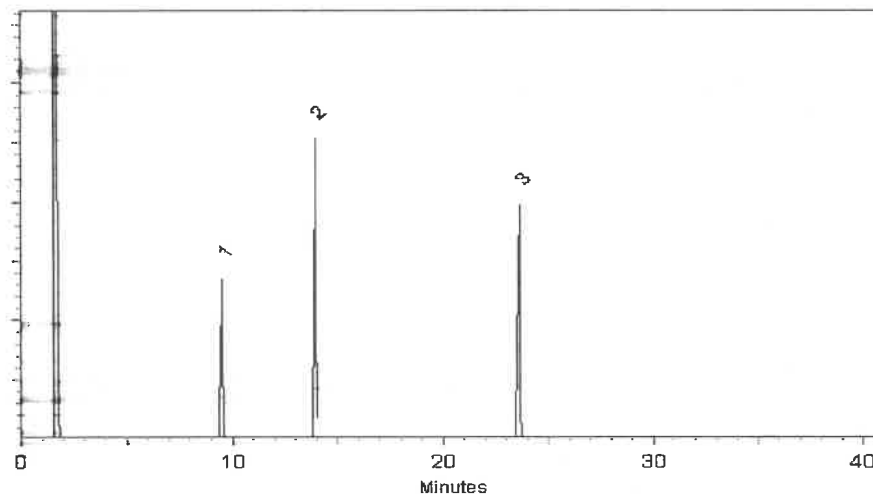
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

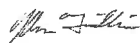
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
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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
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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.

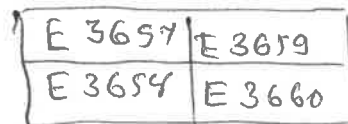
This document has been electronically produced and is valid without a signature.

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.



Material No.: 920
Batch No.: 24C0
Manufactured Date: 2024-0
Expiration Date: 2025-0
Revision: 1

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 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: MG24A04224

E 3743


Ken Koehnlein
Sr. Manager, Quality Assurance

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.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759


Jamie Croak
Director Quality Operations, Bioscience Production

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

E 3763

Recd. by RP on 6/20/24

Ken Koehnlein
Sr. Manager, Quality Assurance

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

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Page 1 of 1

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



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 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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Page 1 of 1

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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 - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

511434 } Y.P.
07/20/23
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-110094-02	503442	≤ -10 °C	Methylene Chloride	8/26/2024	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	5052 ± 122.61
2-fluorobiphenyl	321-60-8	99.7	8.7.1.1P	5005 ± 121.47
nitrobenzene-d ₅	4165-60-0	100	7.9.2P	5040 ± 122.21
p-terphenyl-d ₁₄	1718-51-0	99.6	9.12.9P	5027 ± 122

*Not a certified value

Certified By: _____

Joanna Radu
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555223

Lot No.: A0201940

Description:

Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size:

2 mL

Expiration Date:

September 30, 2025

Handling:

This product is photosensitive.

Pkg Amt: > 1 mL

Storage: 10°C or colder

Ship: Ambient

511539
↓
51568
7.6
0911

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

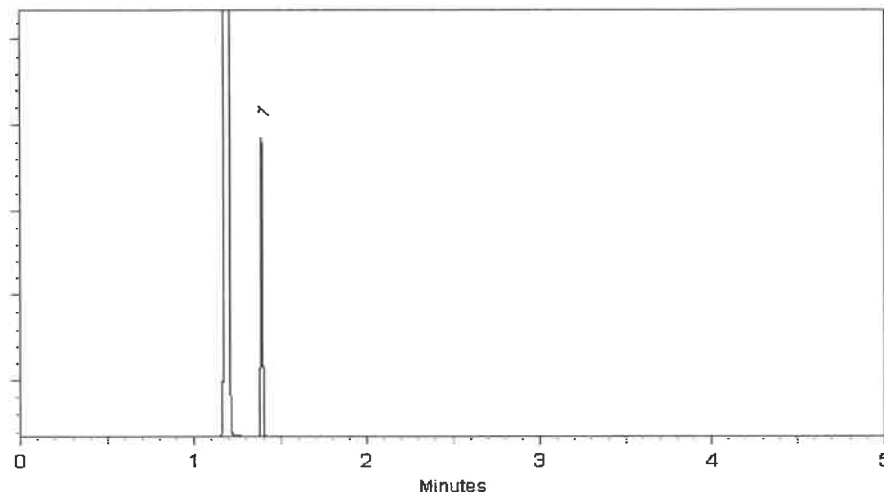
FID

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.
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Certificate of Analysis

chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

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:

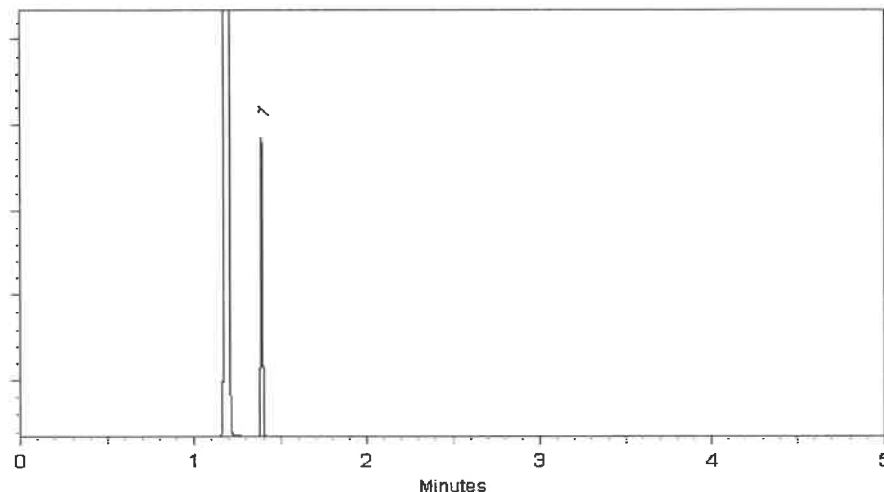
FID

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

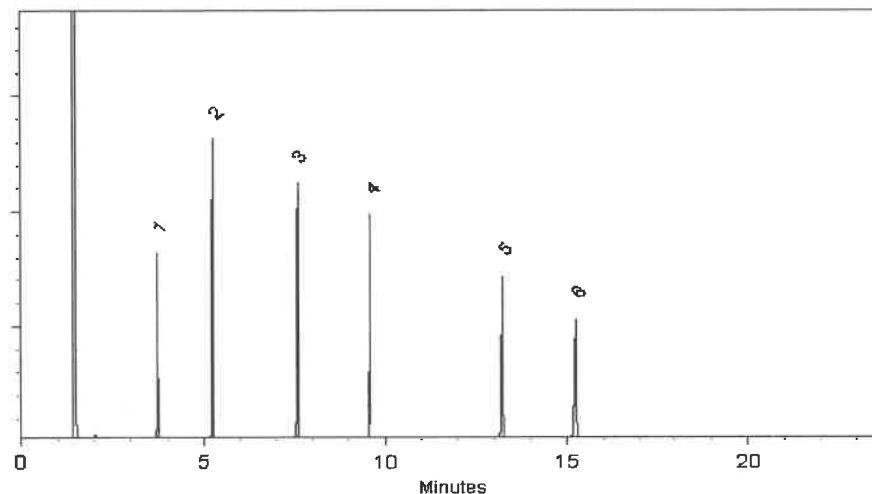
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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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. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

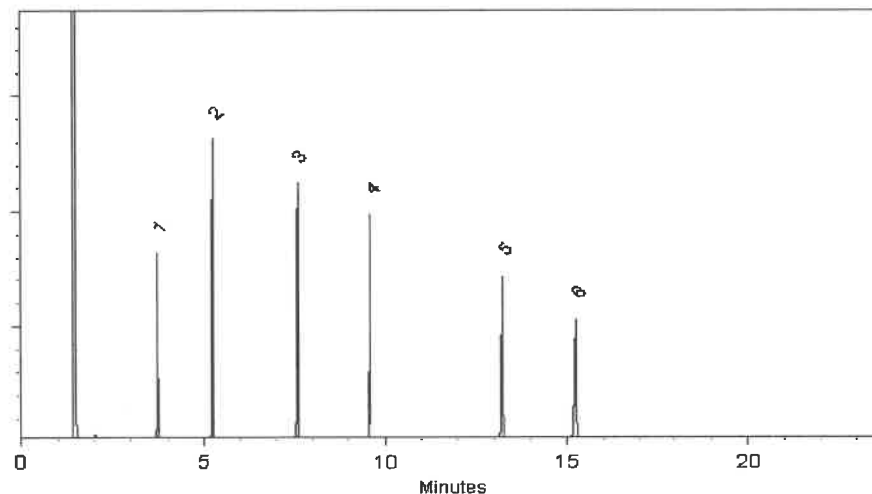
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Santa Rosa, CA 95403

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(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.



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
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%



SHIPPING DOCUMENTS

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CHEMTECH

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CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P3440
2041306

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 4100
CITY: Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yufank
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D379922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT 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 + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ EDD FORMAT

1 VOCs 8200
2 SVOCs 8200
3 8200 E-SIM
4 Metals 8200, Hg
5 7420B
6 Cu 7191A

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	F	B/E	E							← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	923-K1-WS- ~~080124~~ 080124	WS		X	8/1/24	0915	18	6	6	3	3							MS/MSD
2.	922-K1-WS-080124	WS		X	8/1/24	1110	6	2	2	1	1							
3.	16-01-080124	DI		X	8/1/24	1200	1	1										
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>8/1/24 1220</u>	RECEIVED BY: 1. <u>[Signature]</u> <u>8-1-24</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C Comments: <u>See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO-metals</u>
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>8/1/24</u>	RECEIVED BY: 3. <u>[Signature]</u>	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3440	JACO05	Order Date : 8/1/2024 12:28:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/1/2024 2:00:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3440-01	923-K1-WS-080124	Water	08/01/2024	09:15					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3440-02	P3440-01MS	Water	08/01/2024	09:15					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3440-03	P3440-01MSD	Water	08/01/2024	09:15					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3440-04	922-K1-WS-080124	Water	08/01/2024	11:10					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3440-05	TB-01-080124	Water	08/01/2024	12:00					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

[Signature]
8-1-24 1440

Received By :

Date / Time :

[Signature]
8/1/24 14:20 Reg # 4

Storage Area : VOA Refridgerator Room