

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 : P3467

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3467

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3467-01
P3467-02

Client Sample Number

919-J-WS-080224
TB-03-080224

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 : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:02 am, Aug 22, 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 # P3467

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/02/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, 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 919-J-WS-080224 [Terphenyl-d14 - 138%], this compound 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 RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

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

The Continuous Calibration met the requirements .

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.

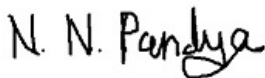
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value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



APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:02 am, Aug 22, 2024

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: P3467

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 met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for 919-J-WS-080224 [Terphenyl-d14 - 138%], this compound did not meet the NJDKQP criteria but met the in-house criteria.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

		NA	NO	YES
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.

N. N. Pandya

QA REVIEW

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:03 am, Aug 22, 2024

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3467

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: 08/17/2024

2nd Level QA Review Signature: _____

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:03 am, Aug 22, 2024

LAB CHRONICLE

OrderID:	P3467	OrderDate:	8/2/2024 4:30:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3467-01	919-J-WS-080224	Water	SVOCMS Group3	8270-Modified	08/02/24	08/05/24	08/06/24	08/02/24



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

Hit Summary Sheet SW-846

SDG No.: P3467
Client: JACOBS Engineering Group, Inc.

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



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3467

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3467-01	919-J-WS-080224	2-Methylnaphthalene-d10	0.4	0.36	90		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.46	115		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	85		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.36	91		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.55	138	*	30 (54)	130 (171)
PB162490BL	PB162490BL	2-Methylnaphthalene-d10	0.4	0.38	95		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.38	94		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.40	100		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.17	43		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.43	107		30 (54)	130 (171)
PB162490BS	PB162490BS	2-Methylnaphthalene-d10	0.4	0.42	104		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.38	95		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	86		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.40	99		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.41	102		30 (54)	130 (171)
PB162490BSD	PB162490BSD	2-Methylnaphthalene-d10	0.4	0.37	92		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.39	98		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	87		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.39	98		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.41	101		30 (54)	130 (171)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3467

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033272.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual		Low	High	
PB162490BS	Naphthalene	0.4	0.40	ug/L	100					70 (67)	130 (120)	
	2-Methylnaphthalene	0.4	0.33	ug/L	83					70 (50)	130 (122)	
	Acenaphthylene	0.4	0.39	ug/L	98					70 (60)	130 (119)	
	Acenaphthene	0.4	0.41	ug/L	103					70 (65)	130 (119)	
	Fluorene	0.4	0.41	ug/L	103					70 (58)	130 (122)	
	Phenanthrene	0.4	0.37	ug/L	93					70 (65)	130 (117)	
	Anthracene	0.4	0.33	ug/L	83					70 (57)	130 (118)	
	Fluoranthene	0.4	0.37	ug/L	93					70 (53)	130 (126)	
	Pyrene	0.4	0.41	ug/L	103					70 (54)	130 (124)	
	Benzo(a)anthracene	0.4	0.31	ug/L	78					70 (54)	130 (130)	
	Chrysene	0.4	0.47	ug/L	117					70 (64)	130 (126)	
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90					70 (65)	130 (121)	
	Benzo(k)fluoranthene	0.4	0.40	ug/L	100					70 (72)	130 (119)	
	Benzo(a)pyrene	0.4	0.39	ug/L	98					70 (68)	130 (120)	
	Indeno(1,2,3-cd)pyrene	0.4	0.36	ug/L	90					70 (70)	130 (127)	
	Dibenz(a,h)anthracene	0.4	0.35	ug/L	88					70 (65)	130 (121)	
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93					70 (76)	130 (117)	
	1,4-Dioxane	0.4	0.40	ug/L	100					20 (60)	160 (132)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3467

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033273.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB162490BSD	Naphthalene	0.4	0.40	ug/L	100	0			70 (67)	130 (120)	20 (20)
	2-Methylnaphthalene	0.4	0.34	ug/L	85	3			70 (50)	130 (122)	20 (20)
	Acenaphthylene	0.4	0.39	ug/L	98	0			70 (60)	130 (119)	20 (20)
	Acenaphthene	0.4	0.42	ug/L	105	2			70 (65)	130 (119)	20 (20)
	Fluorene	0.4	0.41	ug/L	103	0			70 (58)	130 (122)	20 (20)
	Phenanthrene	0.4	0.38	ug/L	95	3			70 (65)	130 (117)	20 (20)
	Anthracene	0.4	0.34	ug/L	85	3			70 (57)	130 (118)	20 (20)
	Fluoranthene	0.4	0.38	ug/L	95	3			70 (53)	130 (126)	20 (20)
	Pyrene	0.4	0.41	ug/L	103	0			70 (54)	130 (124)	20 (20)
	Benzo(a)anthracene	0.4	0.33	ug/L	83	6			70 (54)	130 (130)	20 (20)
	Chrysene	0.4	0.45	ug/L	113	4			70 (64)	130 (126)	20 (20)
	Benzo(b)fluoranthene	0.4	0.37	ug/L	93	3			70 (65)	130 (121)	20 (20)
	Benzo(k)fluoranthene	0.4	0.40	ug/L	100	0			70 (72)	130 (119)	20 (20)
	Benzo(a)pyrene	0.4	0.39	ug/L	98	0			70 (68)	130 (120)	20 (20)
	Indeno(1,2,3-cd)pyrene	0.4	0.35	ug/L	88	3			70 (70)	130 (127)	20 (20)
	Dibenz(a,h)anthracene	0.4	0.35	ug/L	88	0			70 (65)	130 (121)	20 (20)
	Benzo(g,h,i)perylene	0.4	0.36	ug/L	90	3			70 (76)	130 (117)	20 (20)
	1,4-Dioxane	0.4	0.39	ug/L	98	3			20 (60)	160 (132)	20 (20)

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162490BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3467

SAS No.: P3467 SDG NO.: P3467

Lab File ID: BN033271.D

Lab Sample ID: PB162490BL

Instrument ID: BNA_N

Date Extracted: 08/05/2024

Matrix: (soil/water) Water

Date Analyzed: 08/06/2024

Level: (low/med) LOW

Time Analyzed: 13:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162490BS	PB162490BS	BN033272.D	08/06/2024
PB162490BSD	PB162490BSD	BN033273.D	08/06/2024
919-J-WS-080224	P3467-01	BN033278.D	08/06/2024

COMMENTS: _____



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: P3467SDG NO.: P3467Lab 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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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3467 SDG NO.: P3467Lab File ID: BN033269.DDFTPP Injection Date: 08/06/2024Instrument ID: BNA_NDFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.2
68	Less than 2.0% of mass 69	0.6 (1.2) 1
69	Mass 69 relative abundance	51.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	58.3
197	Less than 2.0% of mass 198	0.1
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	25.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.1 (21.3) 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
SSTDCCC0.4	SSTDCCC0.4	BN033270.D	08/06/2024	13:04
PB162490BL	PB162490BL	BN033271.D	08/06/2024	13:41
PB162490BS	PB162490BS	BN033272.D	08/06/2024	14:18
PB162490BSD	PB162490BSD	BN033273.D	08/06/2024	14:55
919-J-WS-080224	P3467-01	BN033278.D	08/06/2024	17:59

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG NO.: P3467

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

Lab File ID: BN033270.D Time Analyzed: 13:04

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	699	7.553	2661	10.33	1835	14.14
UPPER LIMIT	1398	8.053	5322	10.829	3670	14.637
LOWER LIMIT	349.5	7.053	1330.5	9.829	917.5	13.637
EPA SAMPLE NO.						
01 PB162490BL	736	7.69	2380	10.53	1701	14.22
02 PB162490BS	693	7.56	2705	10.34	1884	14.14
03 PB162490BSD	699	7.56	2758	10.34	1926	14.14
04 919-J-WS-080224	968	7.55	3824	10.29	2488	14.11

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.: P3467 SAS No.: P3467 SDG NO.: P3467

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

Lab File ID: BN033270.D Time Analyzed: 13:04

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	4309	16.92	4566	21.133	5464	23.303
UPPER LIMIT	8618	17.42	9132	21.633	10928	23.803
LOWER LIMIT	2154.5	16.42	2283	20.633	2732	22.803
EPA SAMPLE NO.						
01 PB162490BL	4323	17.01	4778	21.17	5313	23.34
02 PB162490BS	4489	16.93	4554	21.14	5551	23.31
03 PB162490BSD	4480	16.93	4687	21.13	5795	23.31
04 919-J-WS-080224	6420	16.89	7473	21.10	8396	23.27

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:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	919-J-WS-080224	SDG No.:	P3467
Lab Sample ID:	P3467-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	950 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
BN033278.D	1	08/05/24 11:14	08/06/24 17:59	PB162490

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	0.020	U	0.020	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	0.030	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	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (30) - 150 (150)	90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 (30) - 150 (150)	115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (11) - 130 (175)	85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 (10) - 130 (175)	91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	30 (54) - 130 (171)	138%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	968		7.553		
1146-65-2	Naphthalene-d8	3820		10.287		
15067-26-2	Acenaphthene-d10	2490		14.111		
1517-22-2	Phenanthrene-d10	6420		16.89		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	919-J-WS-080224	SDG No.:	P3467
Lab Sample ID:	P3467-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	950 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
BN033278.D	1	08/05/24 11:14	08/06/24 17:59	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7470	21.104			
1520-96-3	Perylene-d12	8400	23.271			

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\BN080624\
Data File : BN033278.D
Acq On : 06 Aug 2024 17:59
Operator : MA/JU
Sample : P3467-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

Quant Time: Aug 06 18:32:18 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	7.553	152	968	0.400	ng	0.04
7) Naphthalene-d8	10.287	136	3824	0.400	ng	-0.03
13) Acenaphthene-d10	14.111	164	2488	0.400	ng	-0.01
19) Phenanthrene-d10	16.890	188	6420	0.400	ng	-0.03
29) Chrysene-d12	21.104	240	7473	0.400	ng	-0.02
35) Perylene-d12	23.271	264	8396	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.278	112	458m	0.191	ng	-0.01
5) Phenol-d6	7.019	99	458m	0.139	ng	0.03
8) Nitrobenzene-d5	8.856	82	1050	0.341	ng	-0.06
11) 2-Methylnaphthalene-d10	11.871	152	2050	0.361	ng	-0.06
14) 2,4,6-Tribromophenol	15.661	330	457	0.493	ng	-0.06
15) 2-Fluorobiphenyl	12.743	172	3101	0.364	ng	-0.06
27) Fluoranthene-d10	18.929	212	8257	0.460	ng	-0.02
31) Terphenyl-d14	19.519	244	7156	0.554	ng	-0.03

Target Compounds Qvalue

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

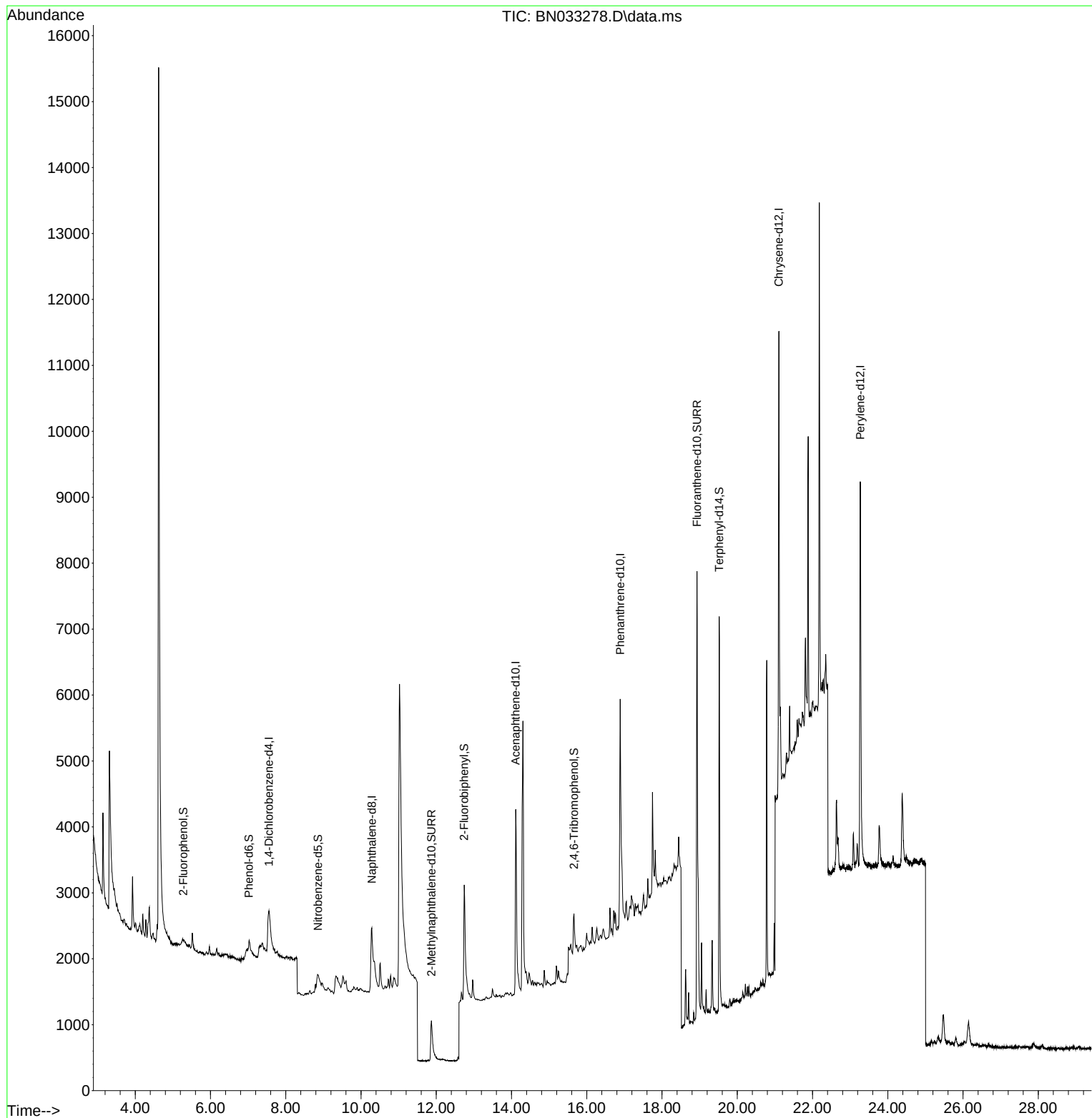
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Data File : BN033278.D
Acq On : 06 Aug 2024 17:59
Operator : MA/JU
Sample : P3467-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

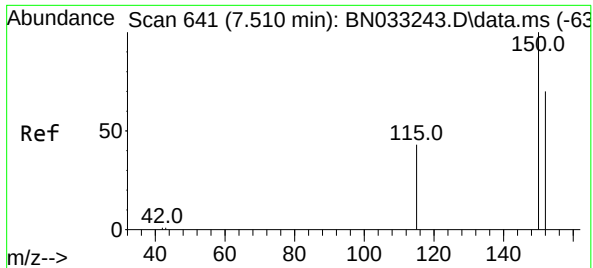
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

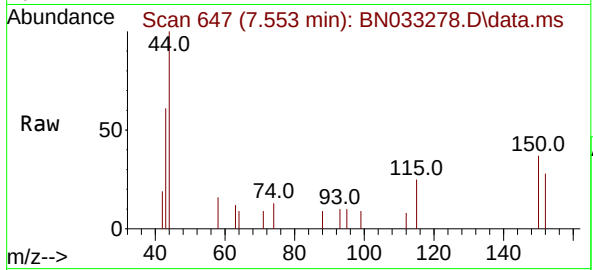
Quant Time: Aug 06 18:32:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 641
Delta R.T. 0.043 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

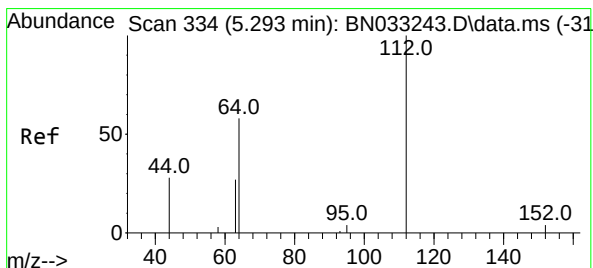
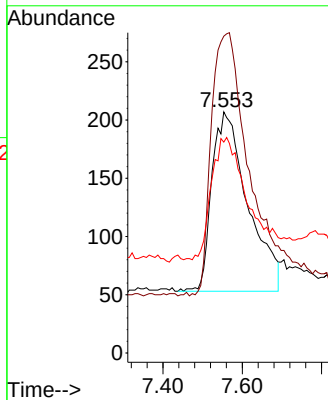
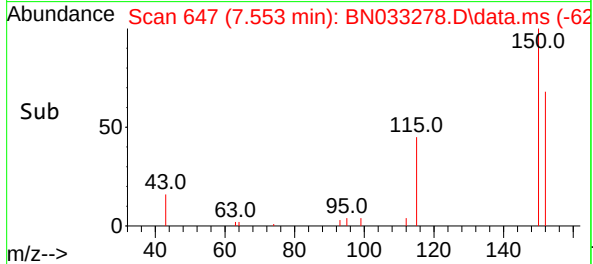
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224



Tgt Ion:152 Resp: 968
Ion Ratio Lower Upper
152 100
150 131.4 108.2 162.2
115 87.4 70.5 105.7

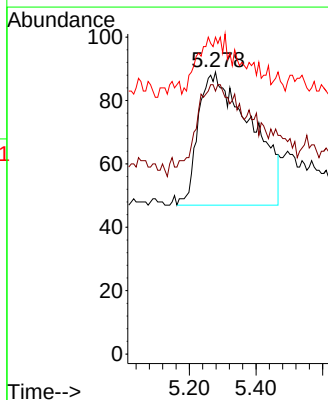
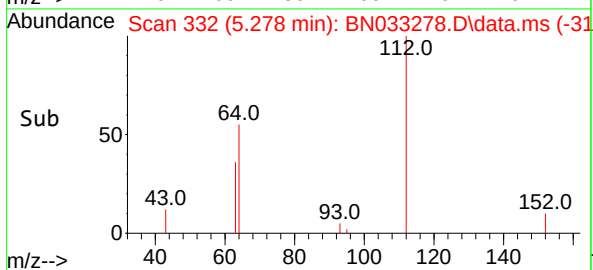
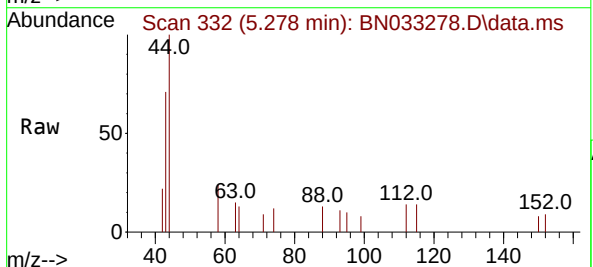
Manual Integrations
APPROVED

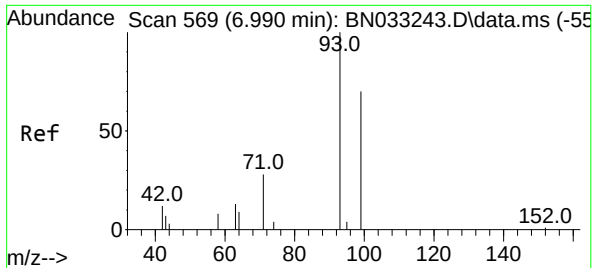
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#4
2-Fluorophenol
Concen: 0.191 ng m
RT: 5.278 min Scan# 332
Delta R.T. -0.015 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

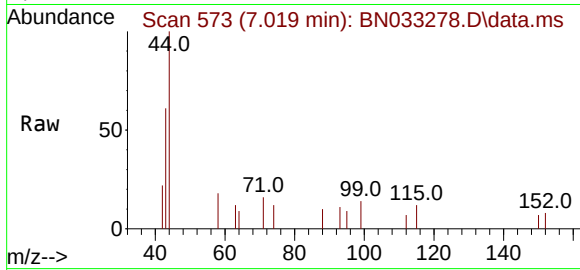
Tgt Ion:112 Resp: 458
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





#5
Phenol-d6
Concen: 0.139 ng m
RT: 7.019 min Scan# 51
Delta R.T. 0.029 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

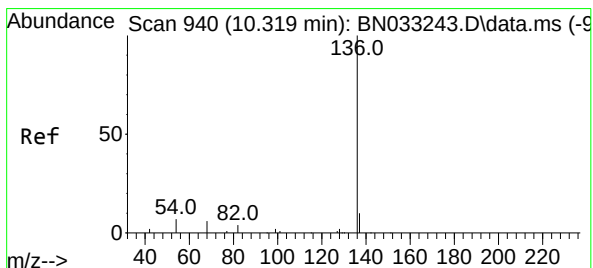
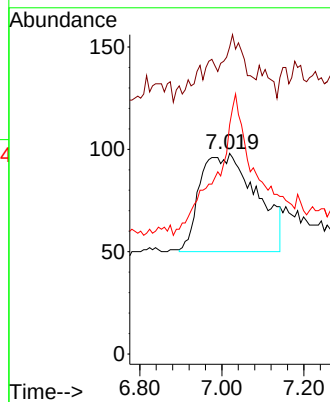
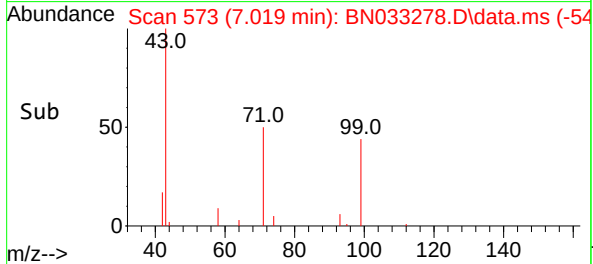
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224



Tgt Ion: 99 Resp: 458
Ion Ratio Lower Upper
99 100
42 6.3 0.0 0.0
71 0.0 0.0 0.0

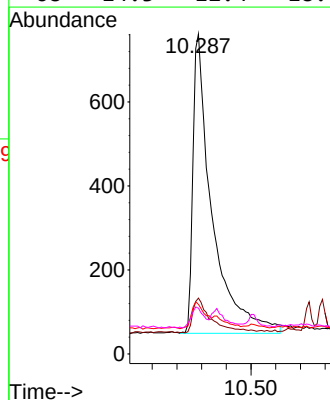
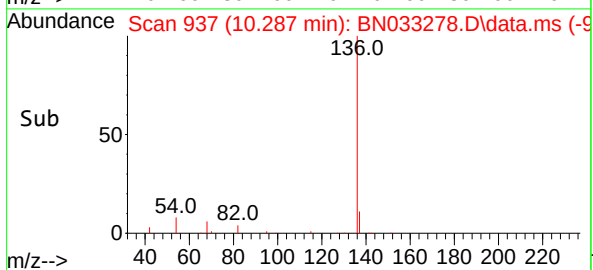
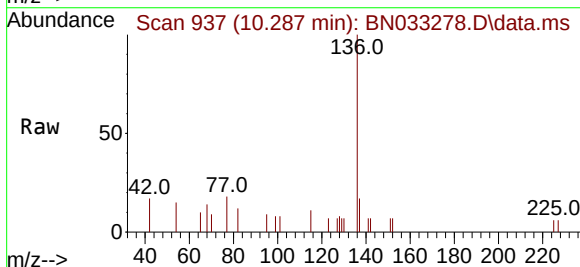
Manual Integrations
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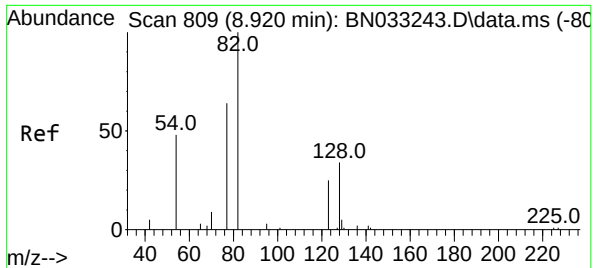
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.287 min Scan# 937
Delta R.T. -0.032 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

Tgt Ion:136 Resp: 3824
Ion Ratio Lower Upper
136 100
137 17.5 14.1 21.1
54 15.5 13.8 20.8
68 14.3 12.4 18.6





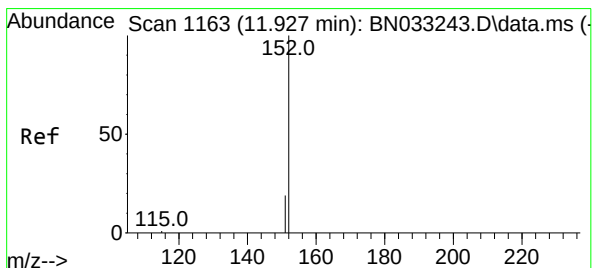
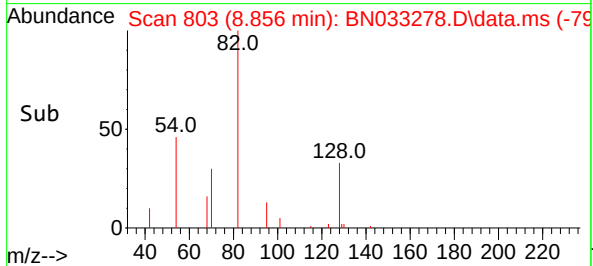
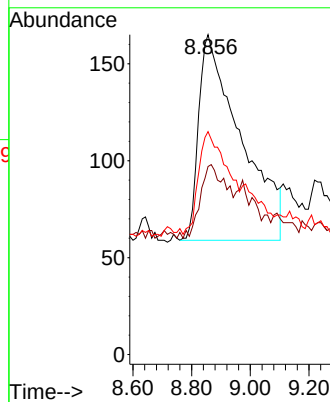
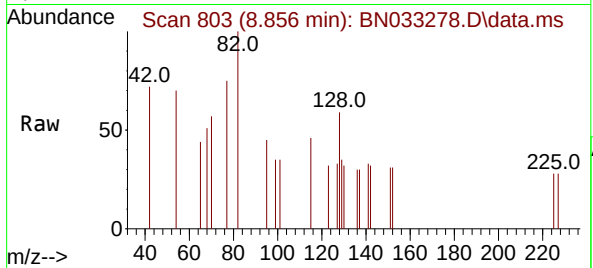
#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.856 min Scan# 809
Delta R.T. -0.064 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224

Tgt Ion: 82 Resp: 1050
Ion Ratio Lower Upper
82 100
128 58.8 54.8 82.2
54 69.7 55.9 83.9

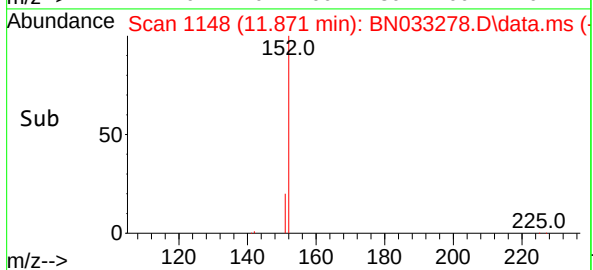
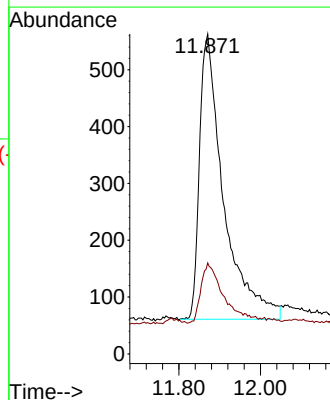
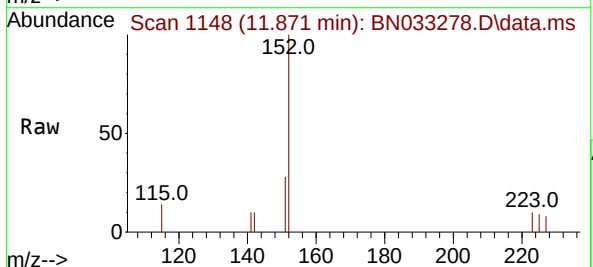
Manual Integrations
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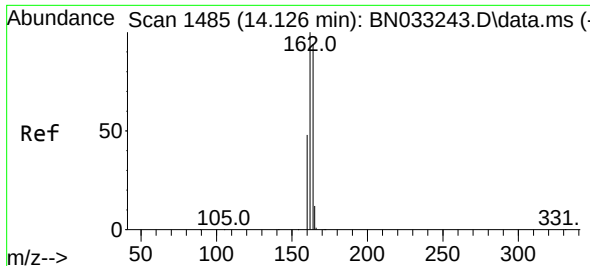
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 11.871 min Scan# 1148
Delta R.T. -0.056 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

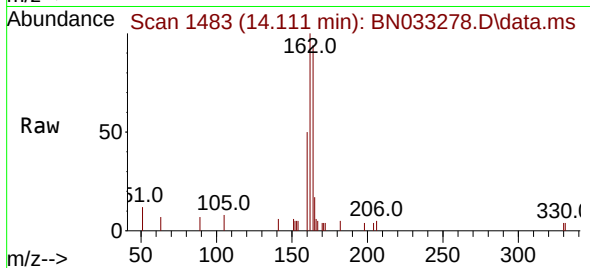
Tgt Ion:152 Resp: 2050
Ion Ratio Lower Upper
152 100
151 19.7 11.9 17.9#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.111 min Scan# 1485
Delta R.T. -0.015 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

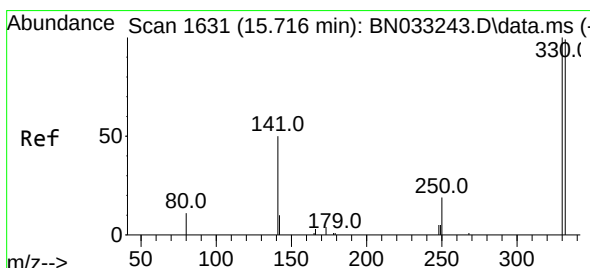
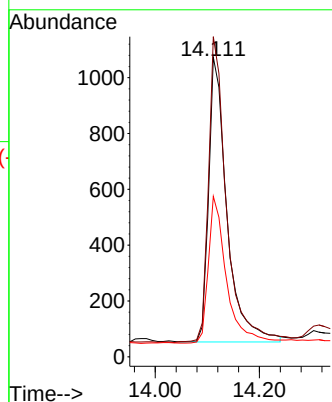
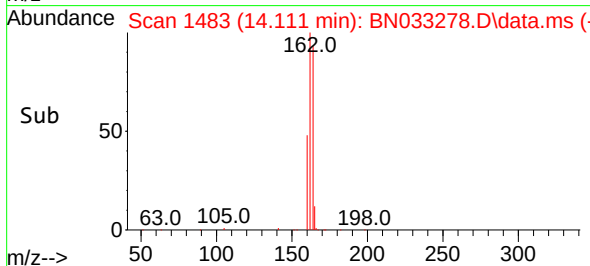
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224



Tgt Ion:164 Resp: 248
Ion Ratio Lower Upper
164 100
162 106.9 84.6 127.0
160 53.6 42.4 63.6

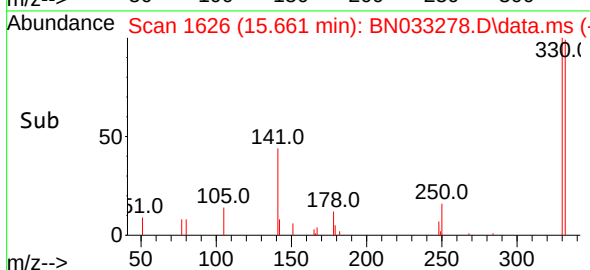
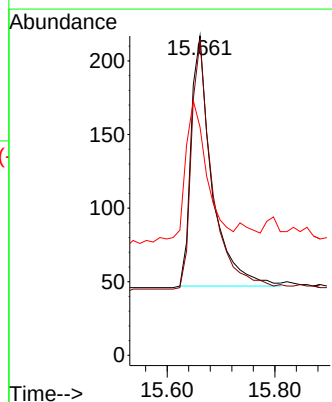
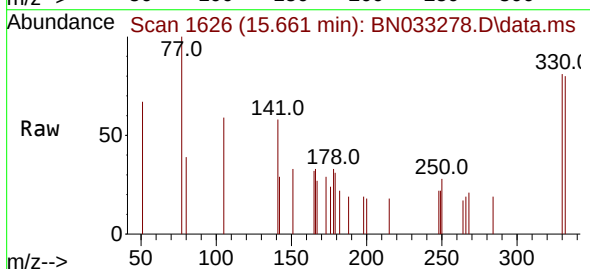
Manual Integrations
APPROVED

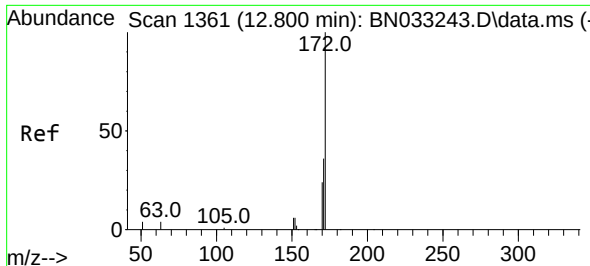
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#14
2,4,6-Tribromophenol
Concen: 0.493 ng
RT: 15.661 min Scan# 1626
Delta R.T. -0.055 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

Tgt Ion:330 Resp: 457
Ion Ratio Lower Upper
330 100
332 98.0 73.7 110.5
141 46.8 44.8 67.2





#15

2-Fluorobiphenyl

Concen: 0.364 ng

RT: 12.743 min Scan# 11

Delta R.T. -0.057 min

Lab File: BN033278.D

Acq: 06 Aug 2024 17:59

Instrument :

BNA_N

ClientSampleId :

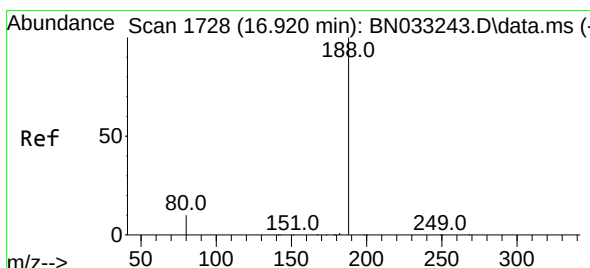
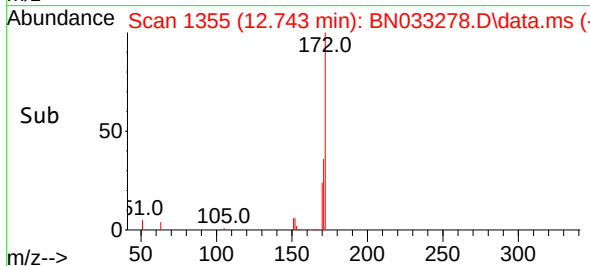
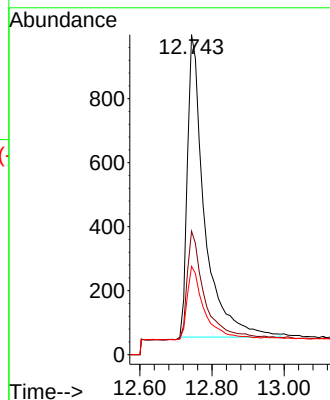
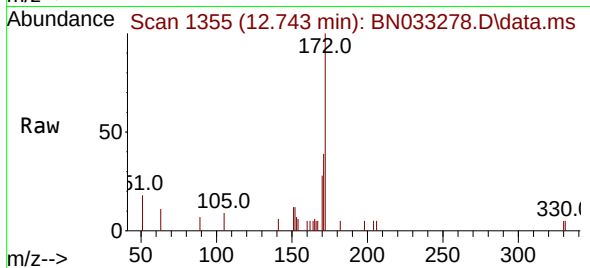
919-J-WS-080224

Tgt Ion:	172	Resp:	310
Ion Ratio	Lower	Upper	
172	100		
171	38.6	32.3	48.5
170	27.6	23.4	35.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#19

Phenanthrene-d10

Concen: 0.400 ng

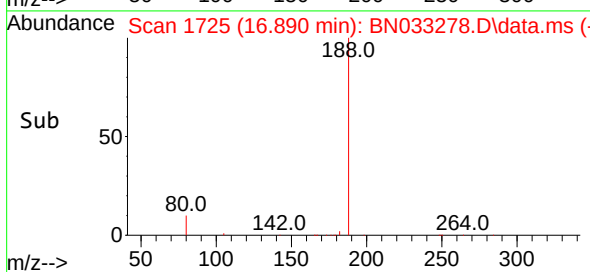
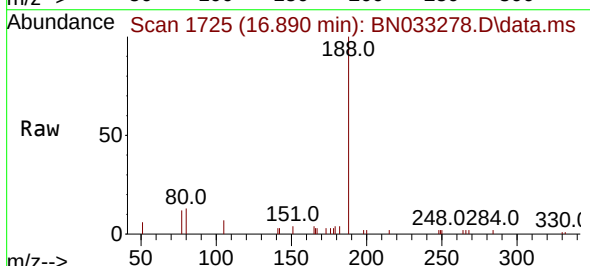
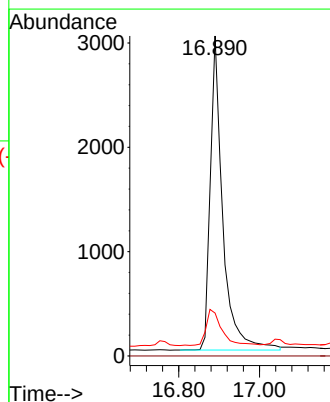
RT: 16.890 min Scan# 1725

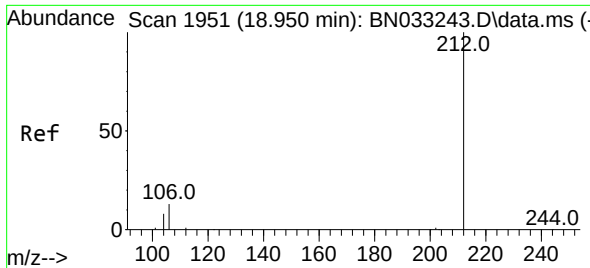
Delta R.T. -0.030 min

Lab File: BN033278.D

Acq: 06 Aug 2024 17:59

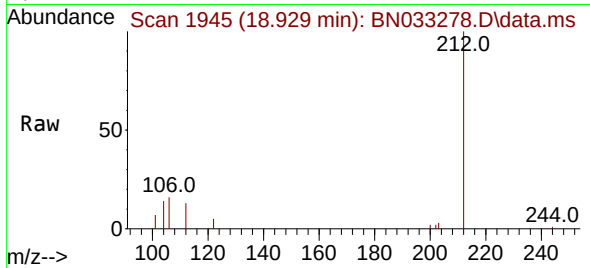
Tgt Ion:	188	Resp:	6420
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.4	10.2	15.4





#27
Fluoranthene-d10
Concen: 0.460 ng
RT: 18.929 min Scan# 1945
Delta R.T. -0.021 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

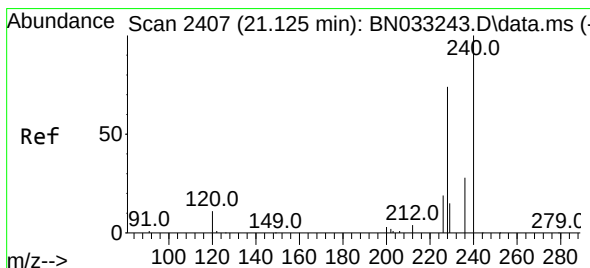
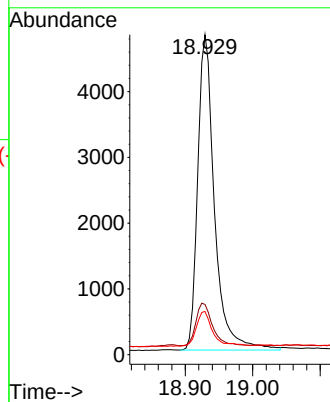
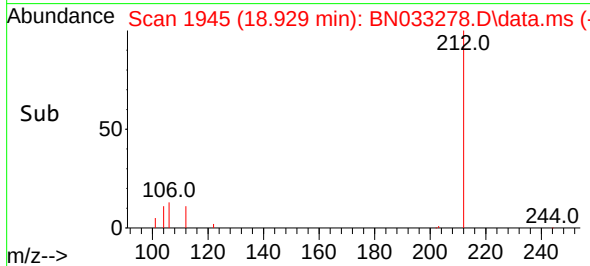
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224



Tgt Ion:212 Resp: 825
Ion Ratio Lower Upper
212 100
106 13.6 11.4 17.0
104 11.0 7.1 10.7

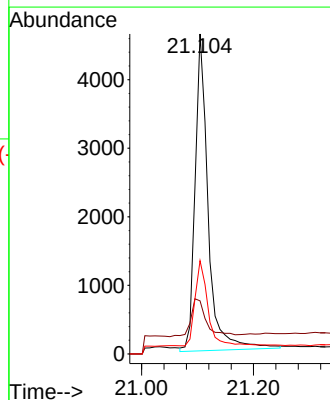
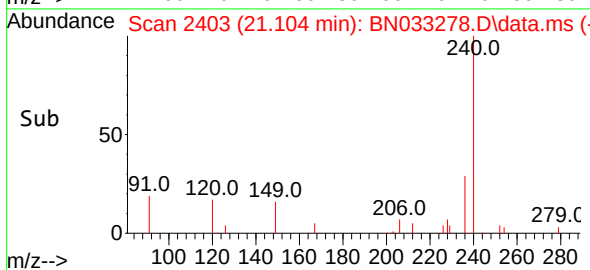
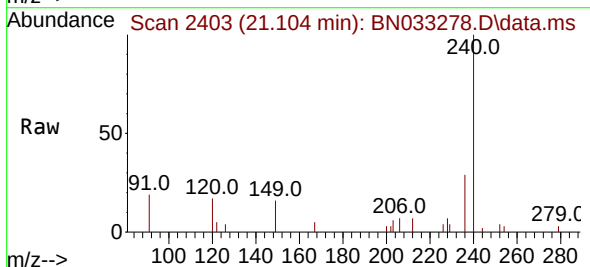
Manual Integrations
APPROVED

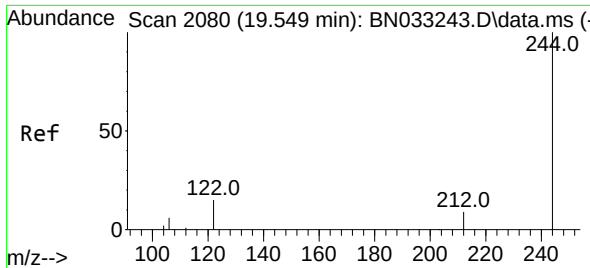
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.104 min Scan# 2403
Delta R.T. -0.021 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

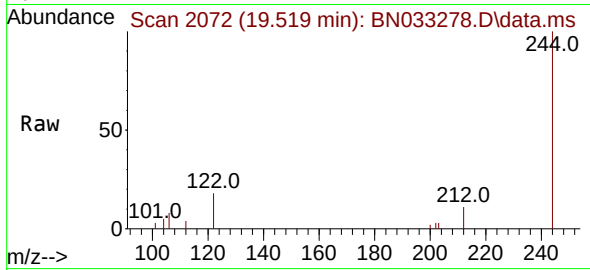
Tgt Ion:240 Resp: 7473
Ion Ratio Lower Upper
240 100
120 16.6 13.3 19.9
236 29.2 23.8 35.6





#31
Terphenyl-d14
Concen: 0.554 ng
RT: 19.519 min Scan# 2080
Delta R.T. -0.030 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

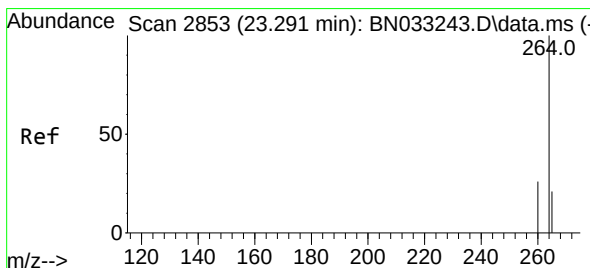
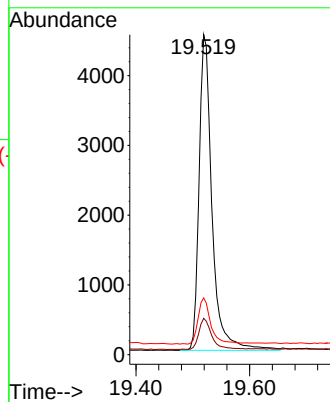
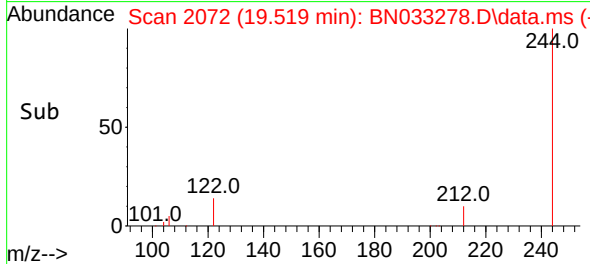
Instrument :
BNA_N
ClientSampleId :
919-J-WS-080224



Tgt Ion:244 Resp: 7150
Ion Ratio Lower Upper
244 100
212 11.3 9.9 14.9
122 17.7 14.1 21.1

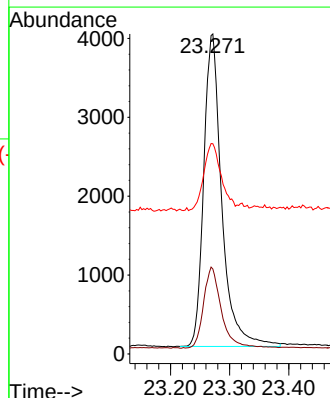
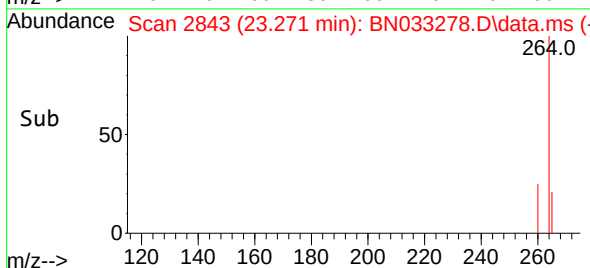
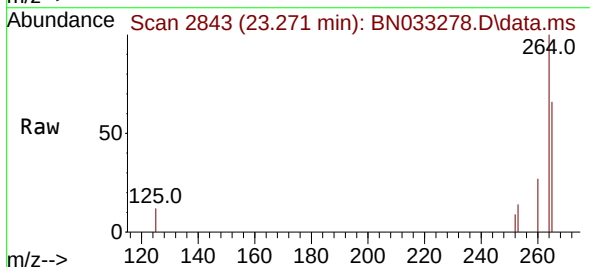
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.271 min Scan# 2843
Delta R.T. -0.020 min
Lab File: BN033278.D
Acq: 06 Aug 2024 17:59

Tgt Ion:264 Resp: 8396
Ion Ratio Lower Upper
264 100
260 26.6 21.4 32.2
265 65.7 66.6 99.8#





CALIBRATION SUMMARY

- 1
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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-----								

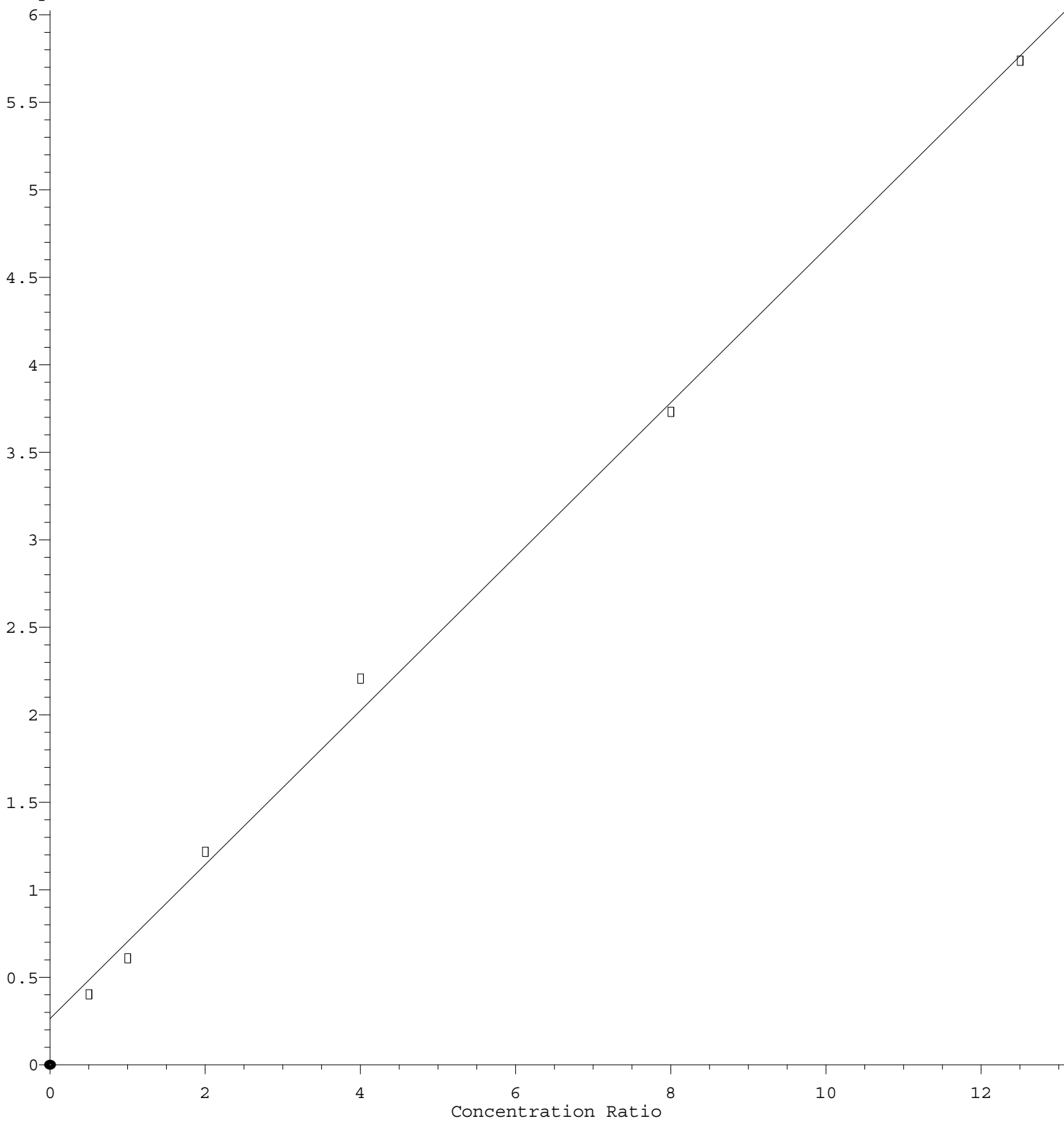
Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

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
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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						Qvalue
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 :

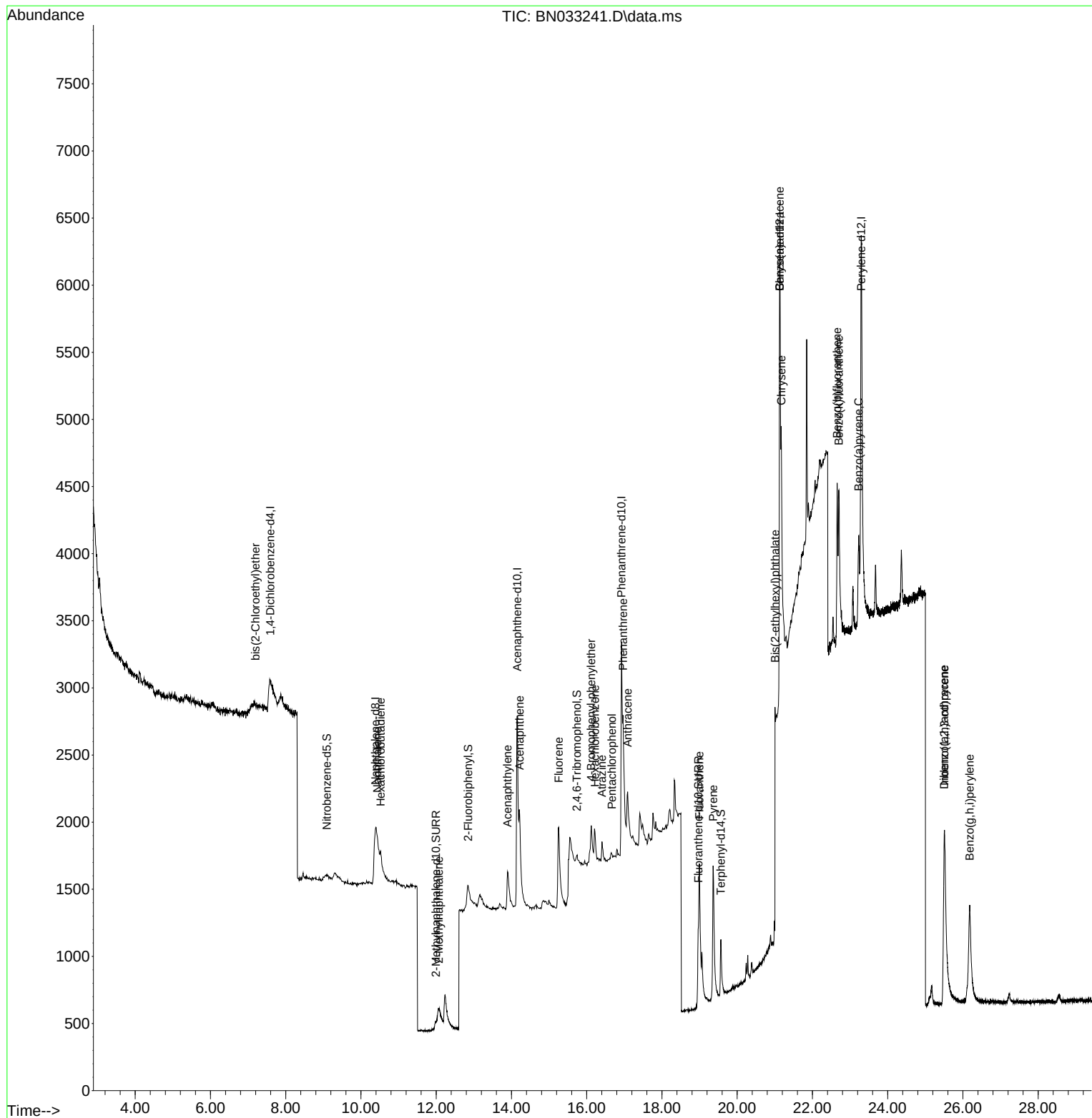
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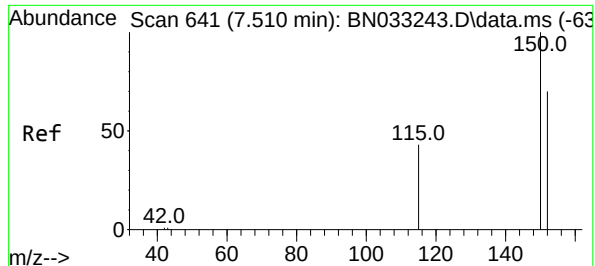
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

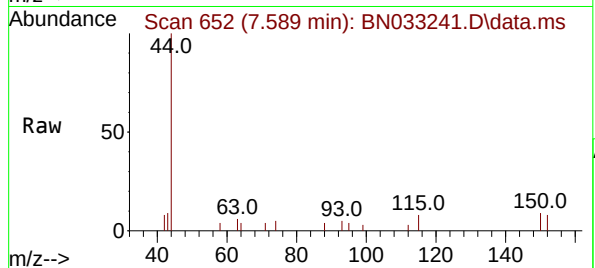
Quant Time: Aug 05 23:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#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

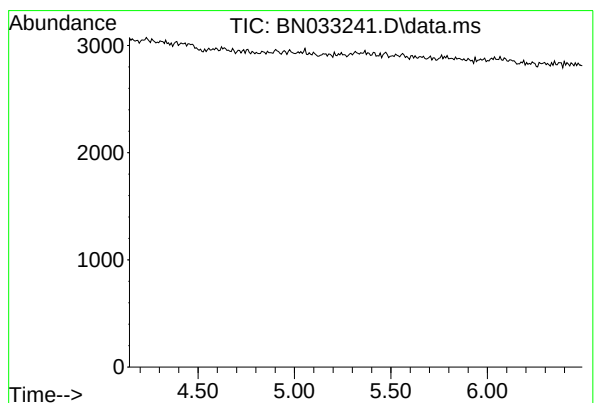
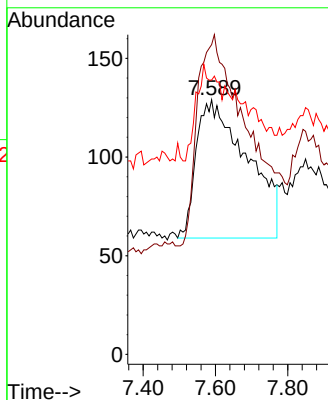
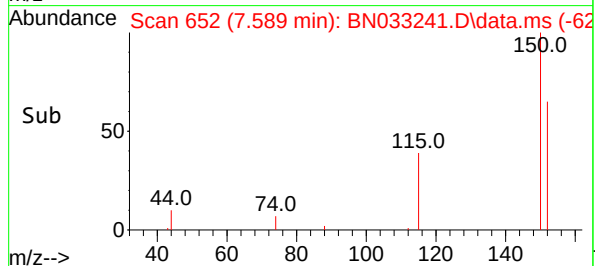
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

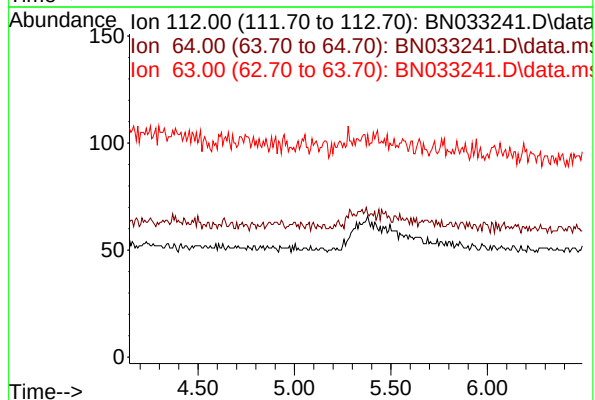
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

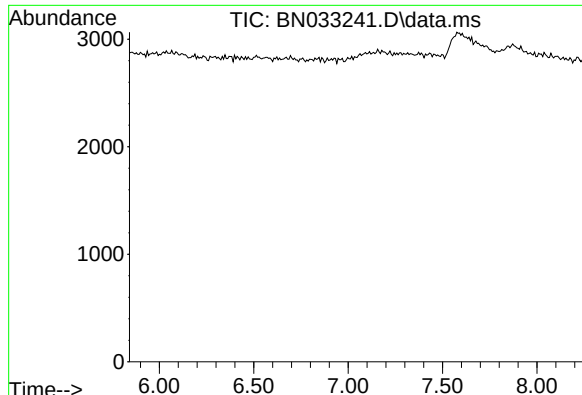


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.29 min

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

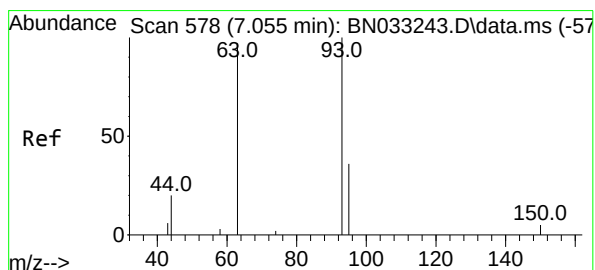
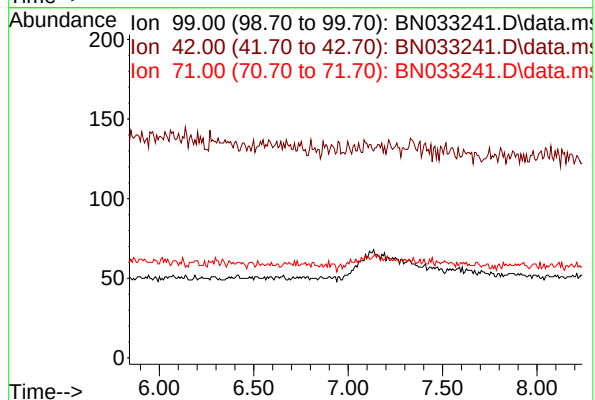
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

Tgt Ion: 99
Sig Exp Ratio
99 100
42 0.0
71 0.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

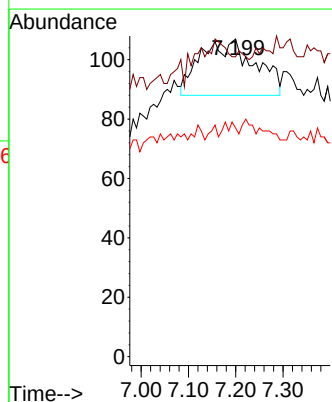
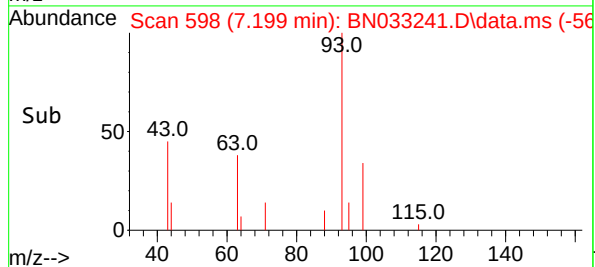
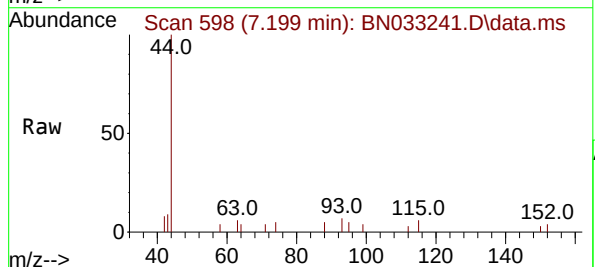
Manual Integrations
APPROVED

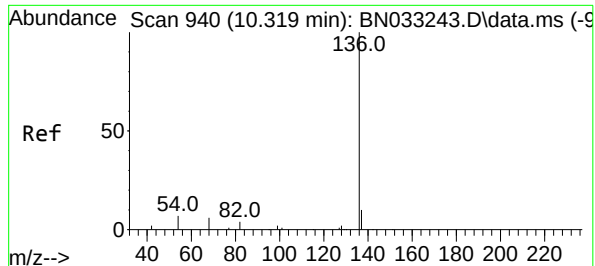
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

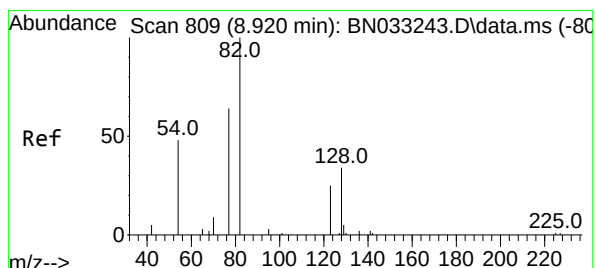
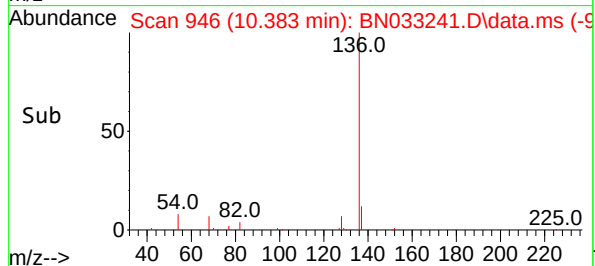
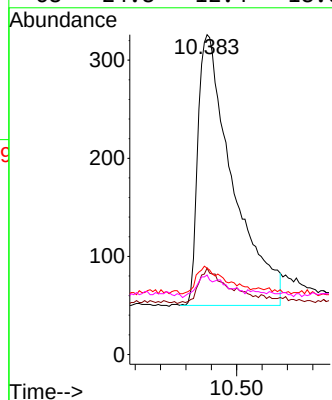
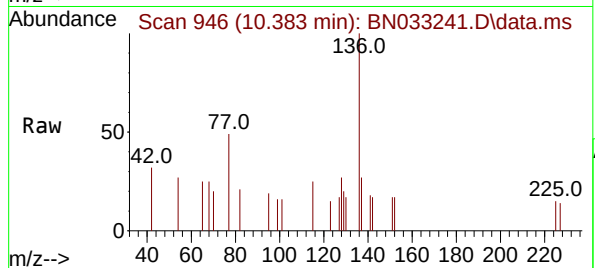
ClientSampleId :

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

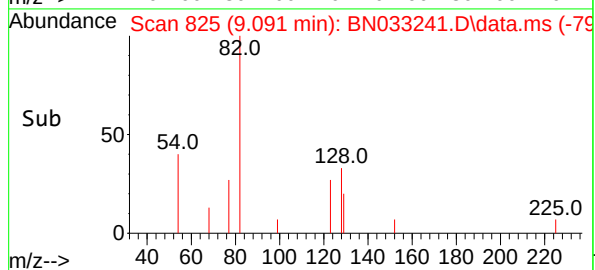
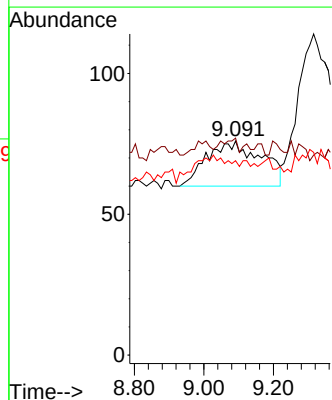
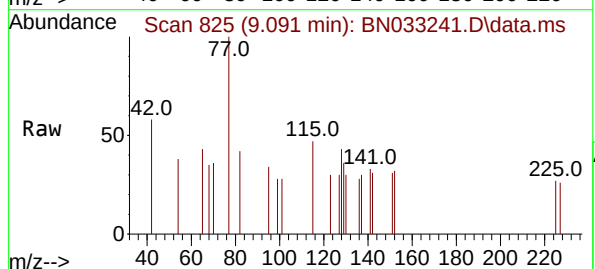
Manual Integrations
APPROVED

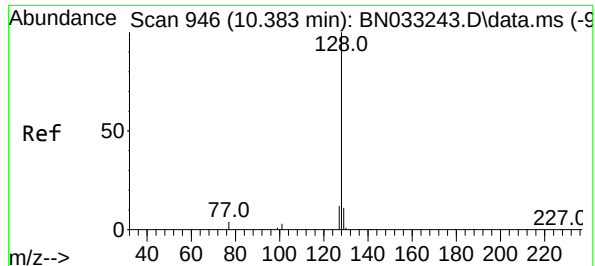
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





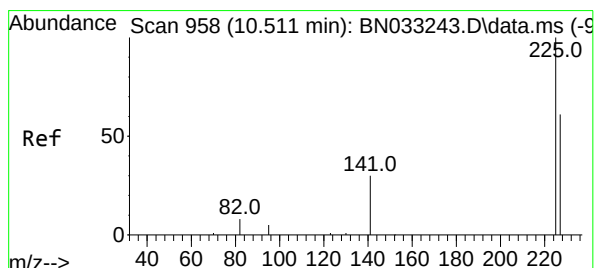
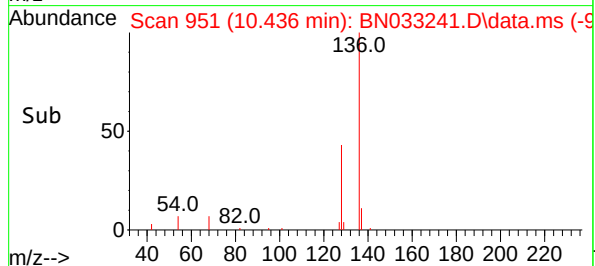
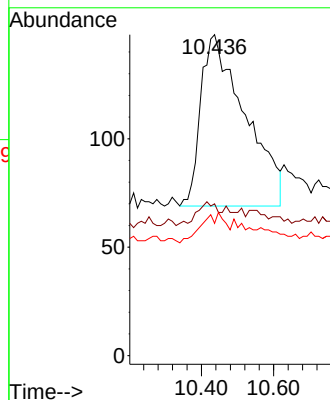
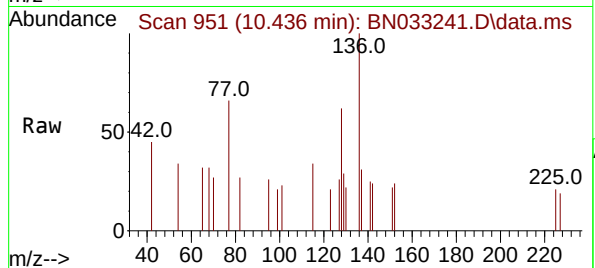
#9
Naphthalene
Concen: 0.095 ng
RT: 10.436 min Scan# 91
Delta R.T. 0.053 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

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

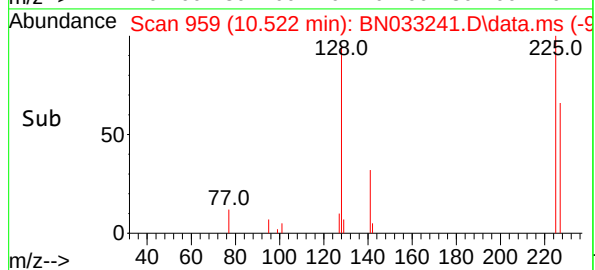
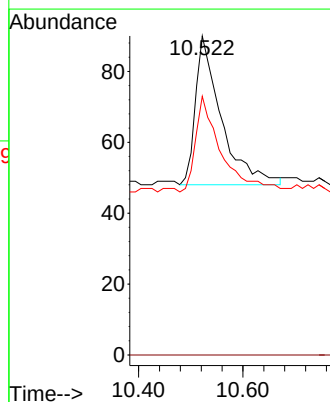
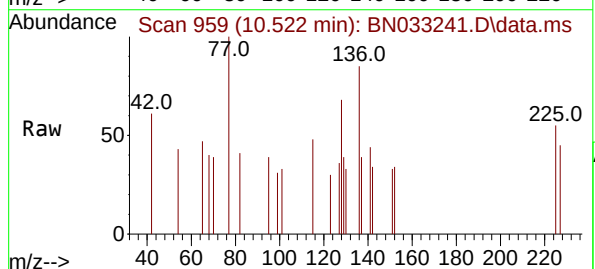
Manual Integrations
APPROVED

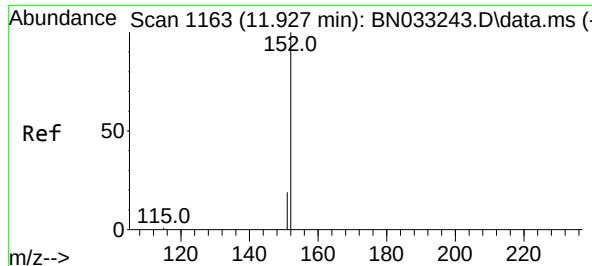
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

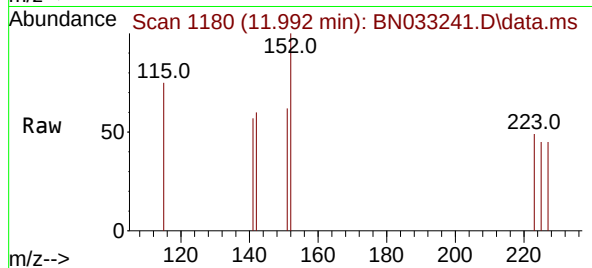
Tgt Ion:225 Resp: 145
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.2 75.4





#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

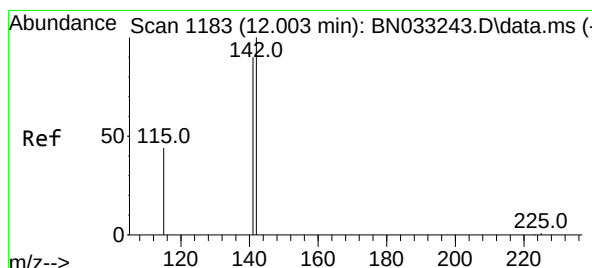
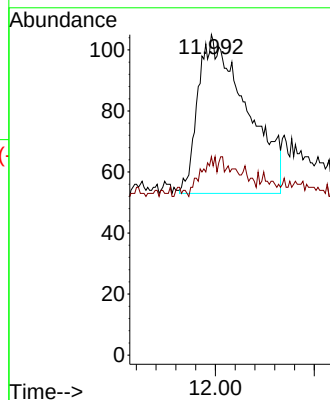
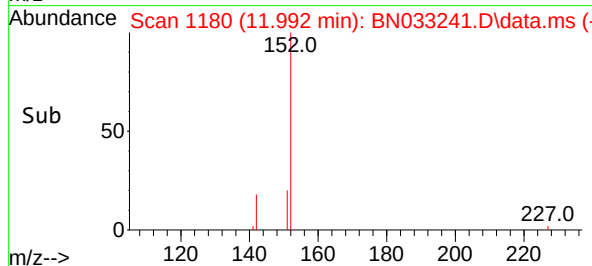
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 352
Ion Ratio Lower Upper
152 100
151 8.0 11.9 17.9

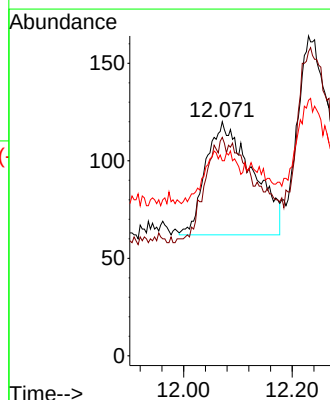
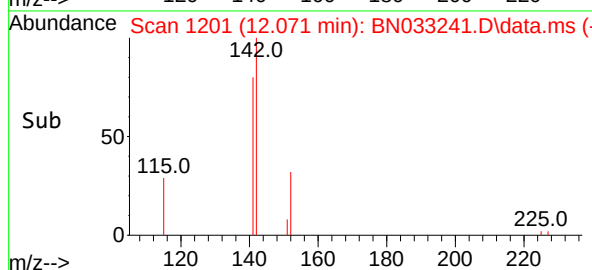
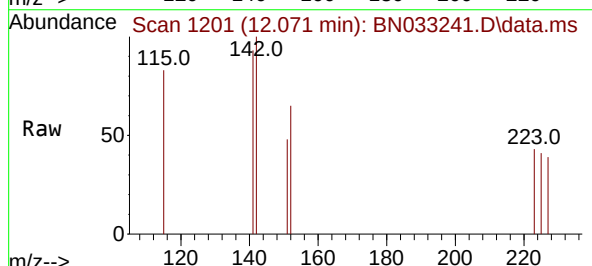
Manual Integrations
APPROVED

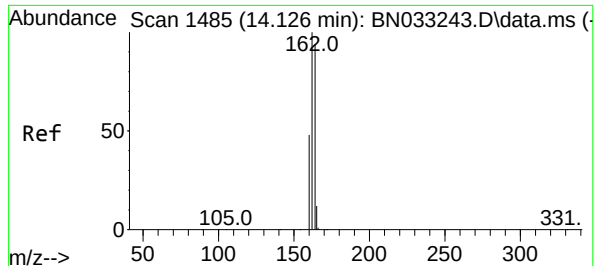
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

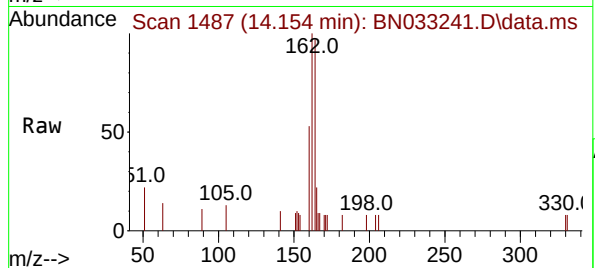
Tgt Ion:142 Resp: 347
Ion Ratio Lower Upper
142 100
141 93.3 68.7 103.1
115 83.3 41.6 62.4#





#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

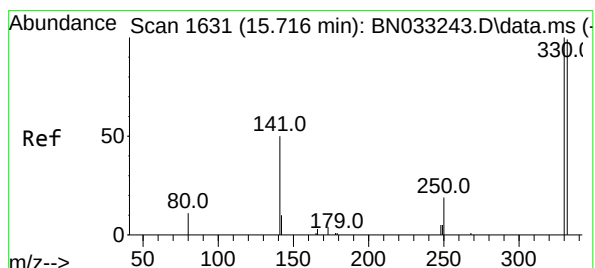
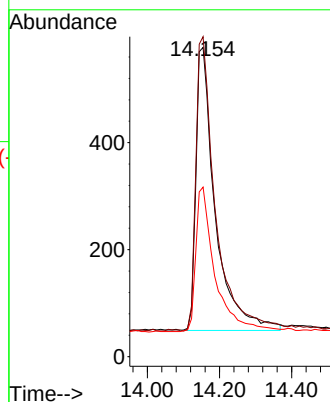
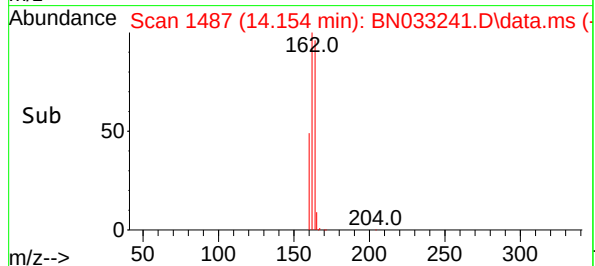
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

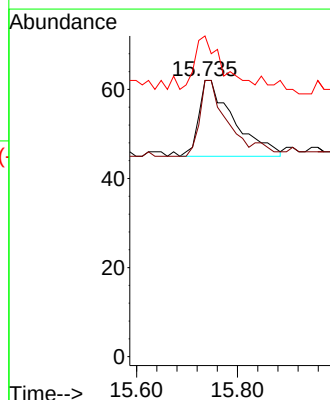
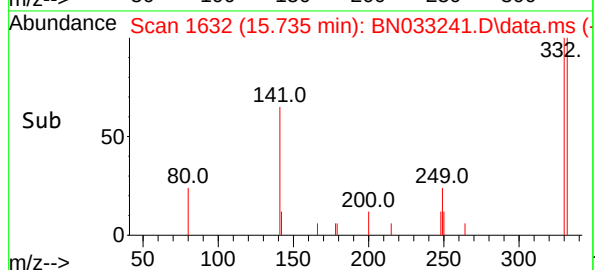
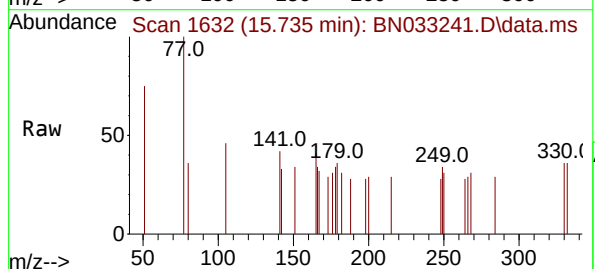
Manual Integrations
APPROVED

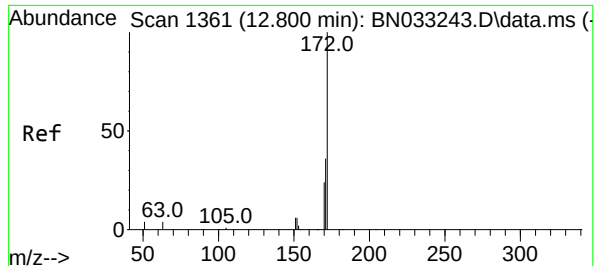
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

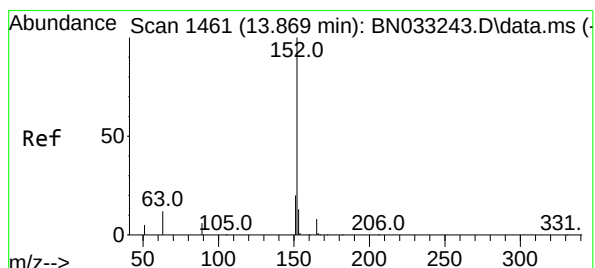
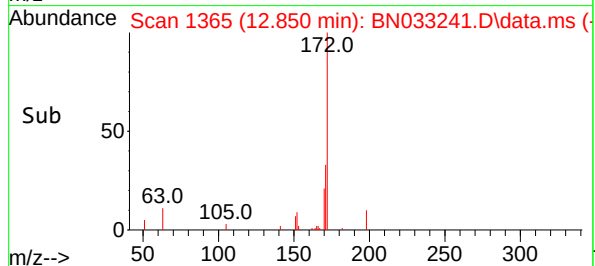
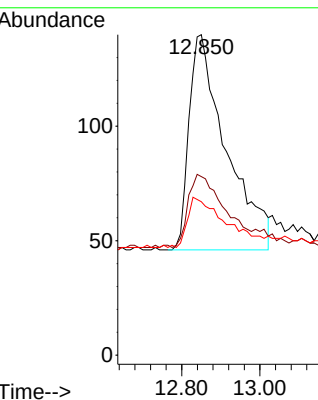
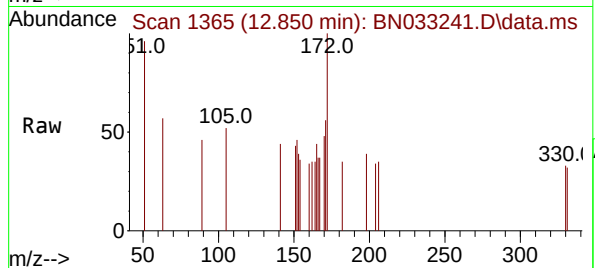
SSTDICC0.1

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 0.090 ng

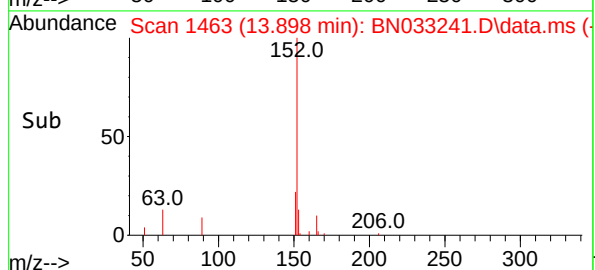
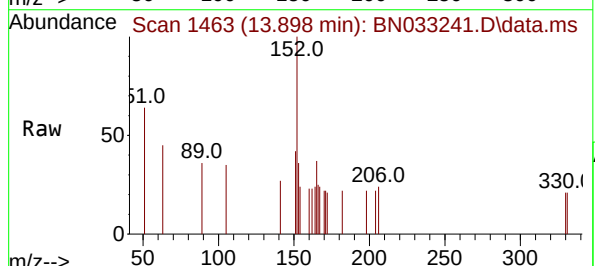
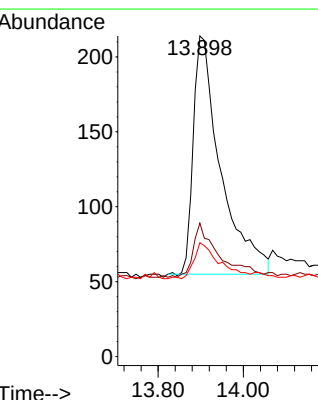
RT: 13.898 min Scan# 1463

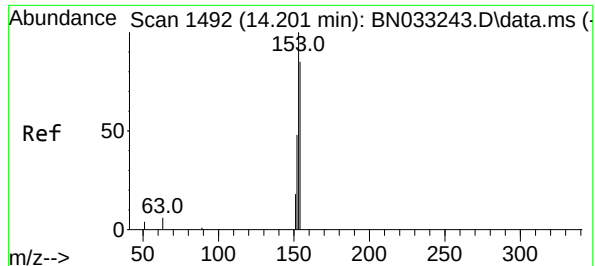
Delta R.T. 0.028 min

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 :

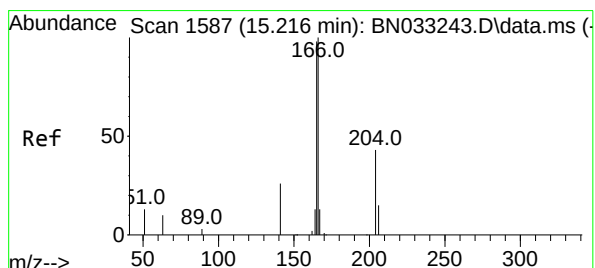
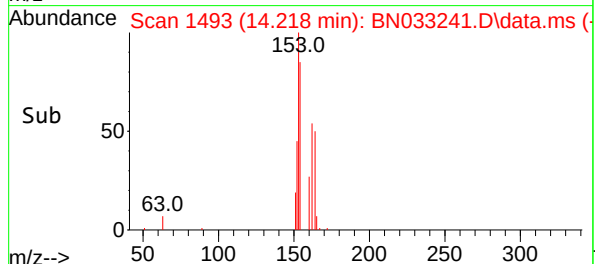
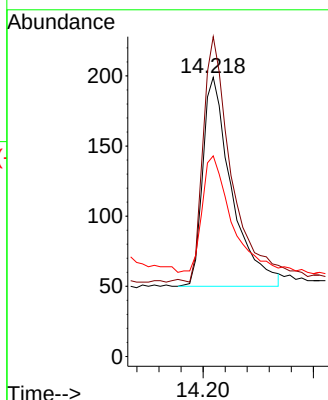
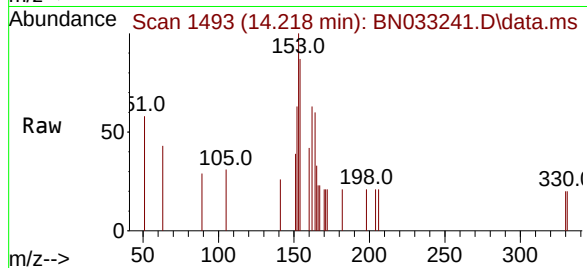
SSTDICC0.1

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

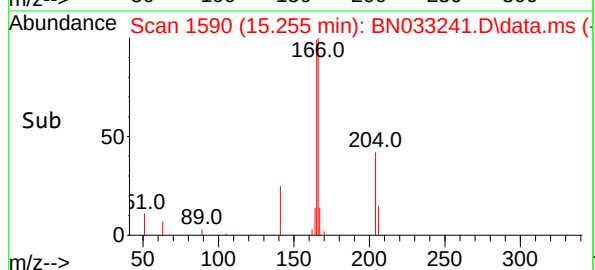
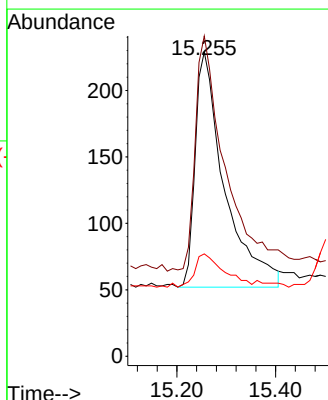
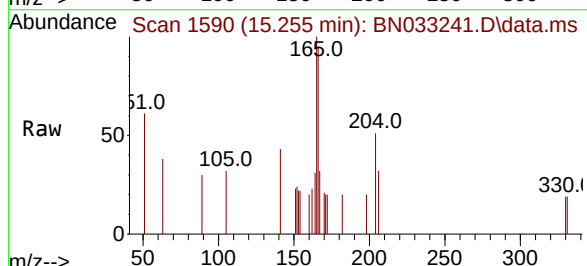
RT: 15.255 min Scan# 1590

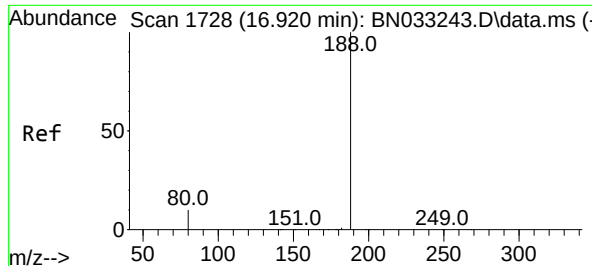
Delta R.T. 0.039 min

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

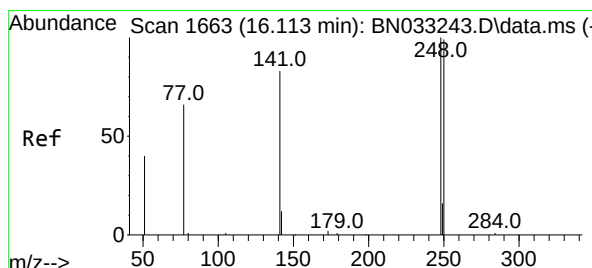
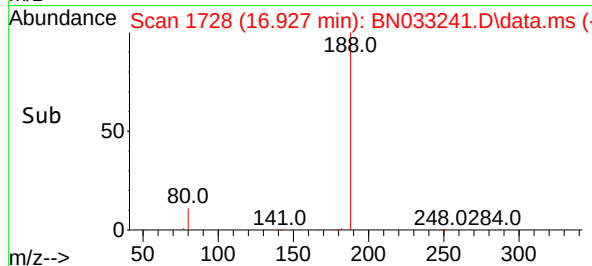
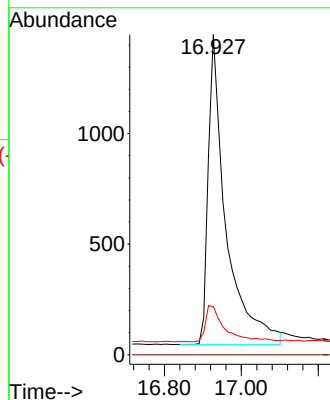
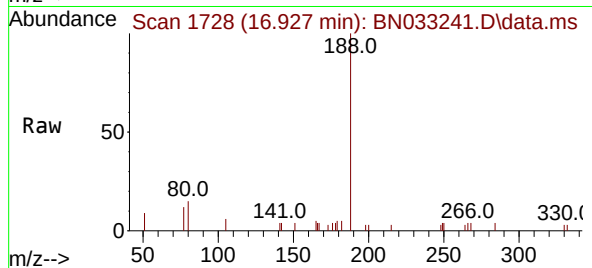
ClientSampleId :

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
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#21

4-Bromophenyl-phenylether

Concen: 0.093 ng

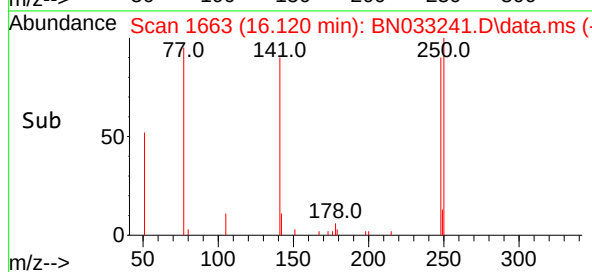
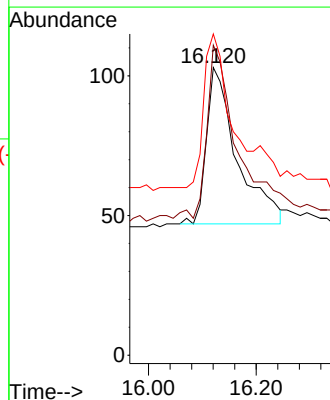
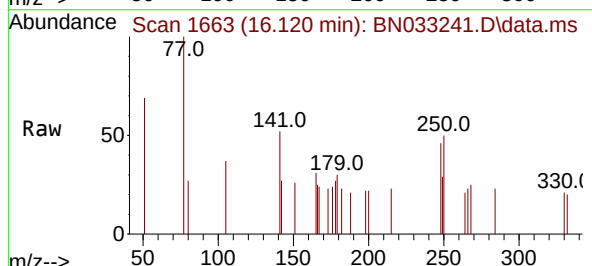
RT: 16.120 min Scan# 1663

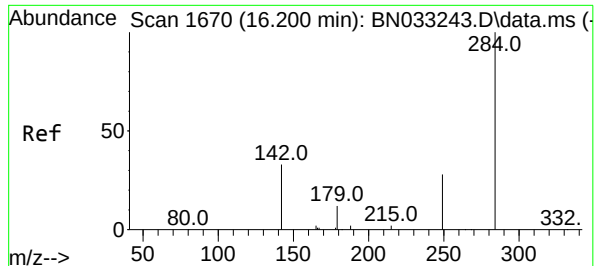
Delta R.T. 0.007 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

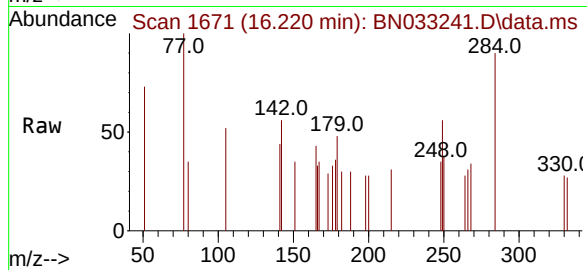
Tgt Ion:	248	Resp:	220
Ion Ratio	Lower	Upper	
248	100		
250	107.8	80.0	120.0
141	111.7	71.0	106.6





#22
Hexachlorobenzene
Concen: 0.105 ng
RT: 16.220 min Scan# 1670
Delta R.T. 0.020 min
Lab File: BN033241.D
Acq: 05 Aug 2024 18:39

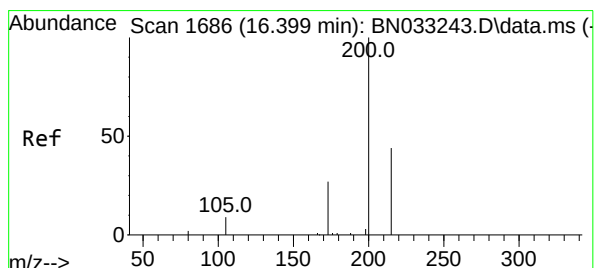
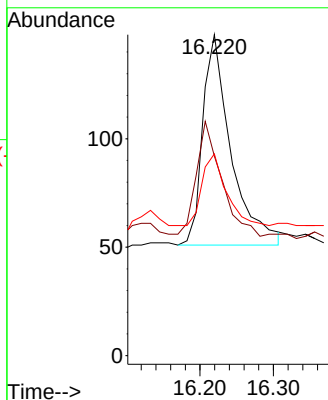
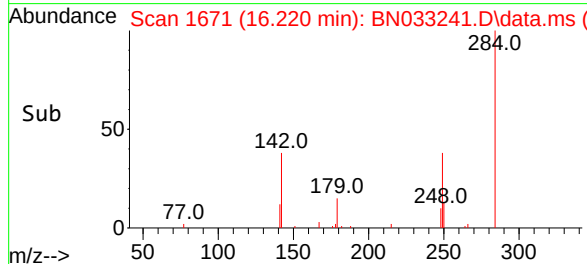
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

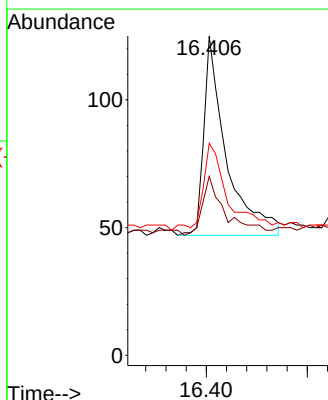
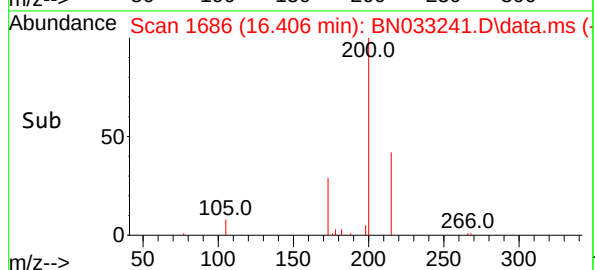
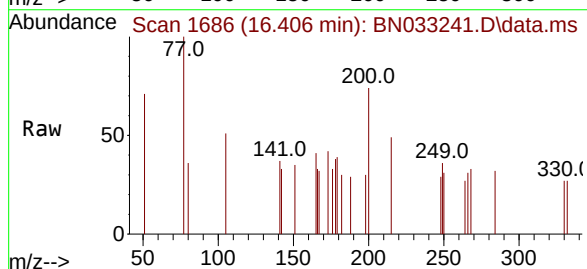
Manual Integrations
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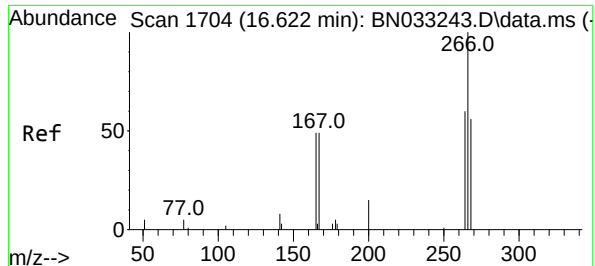
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

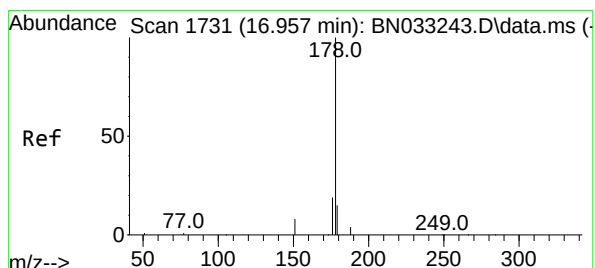
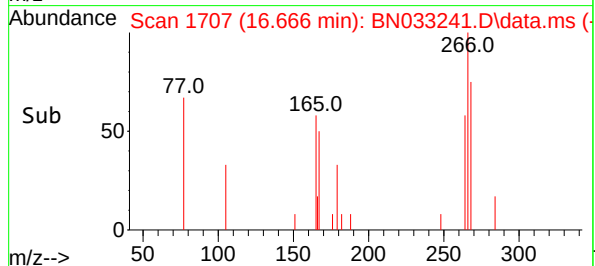
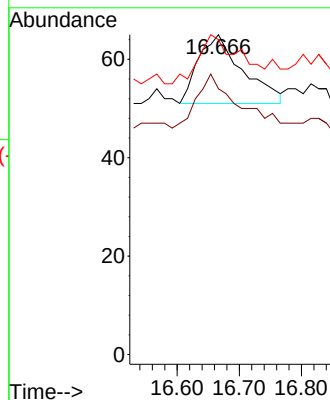
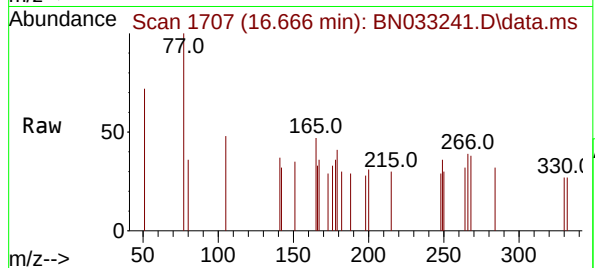
SSTDICC0.1

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#25

Phenanthrene

Concen: 0.103 ng

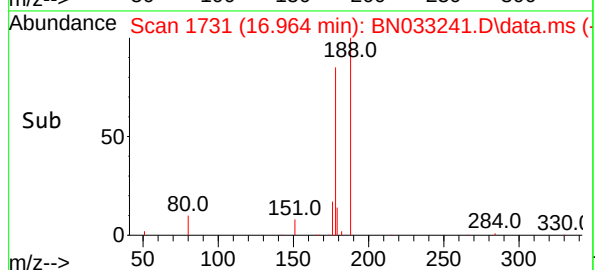
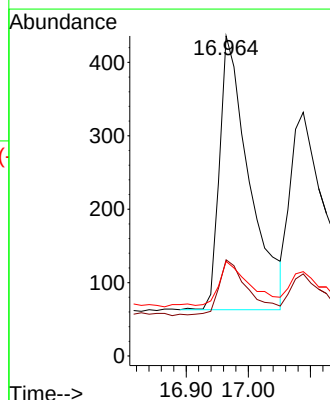
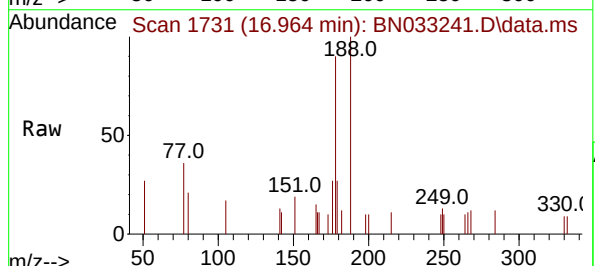
RT: 16.964 min Scan# 1731

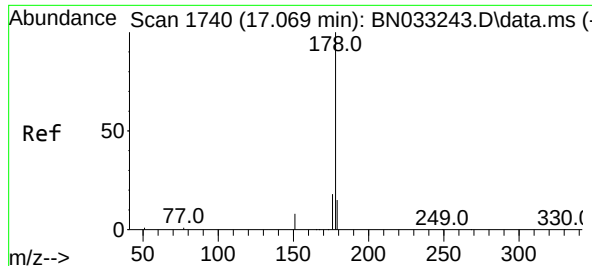
Delta R.T. 0.007 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

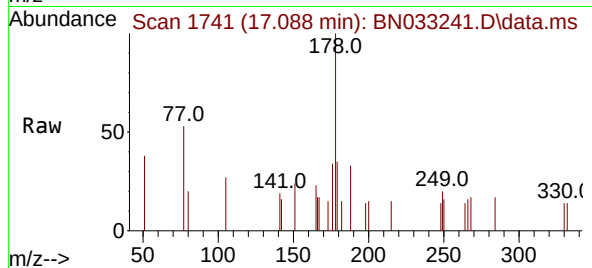
Tgt Ion:	178	Resp:	1237
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.7	23.5
179	16.4	12.4	18.6





#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

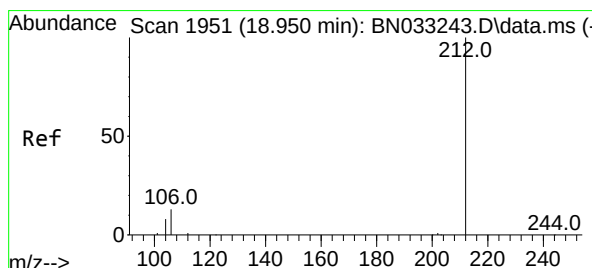
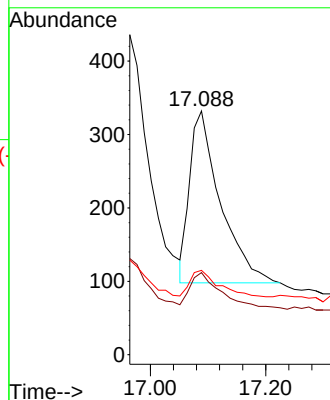
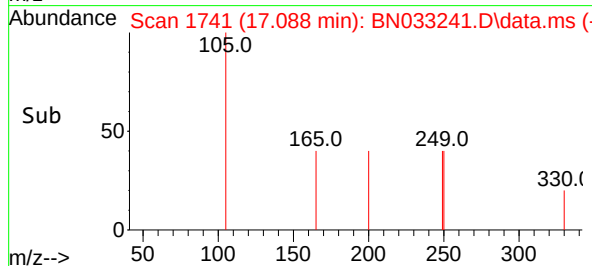
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

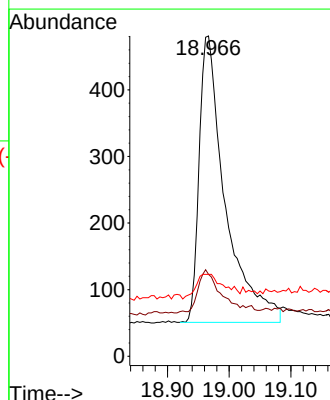
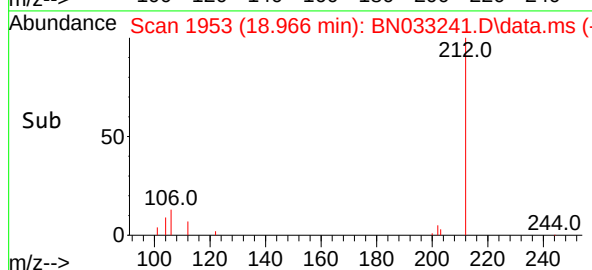
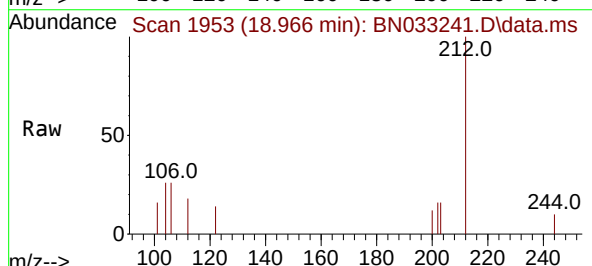
Manual Integrations
APPROVED

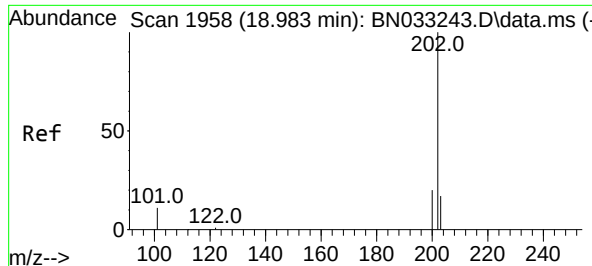
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

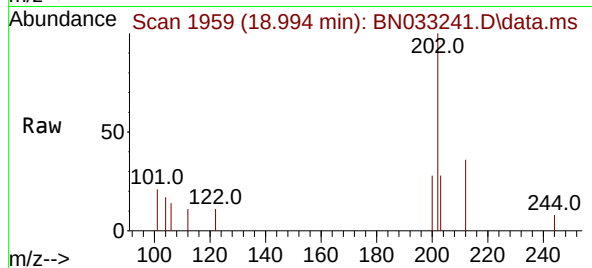
Tgt Ion:212 Resp: 1262
Ion Ratio Lower Upper
212 100
106 13.7 11.4 17.0
104 9.4 7.1 10.7





#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

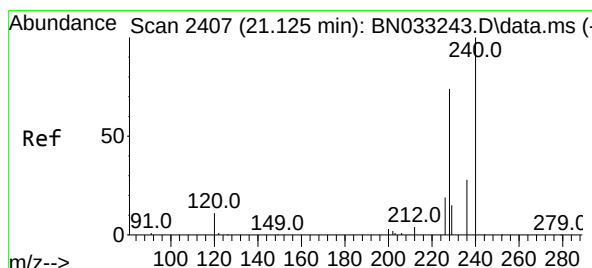
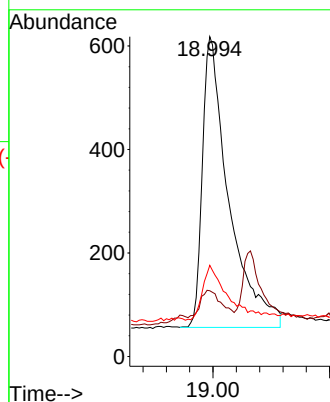
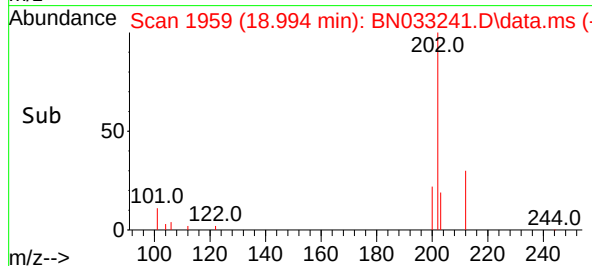
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

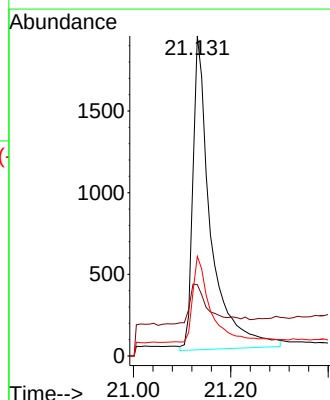
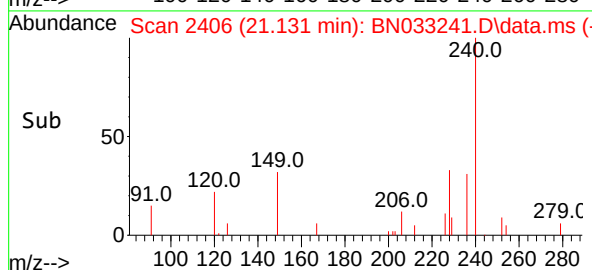
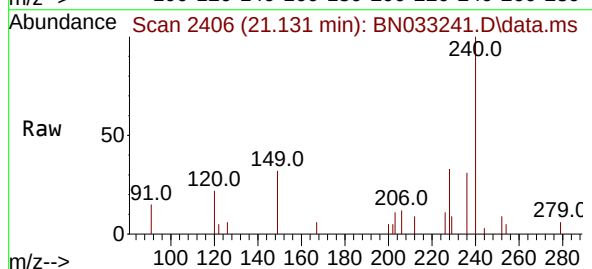
Manual Integrations
APPROVED

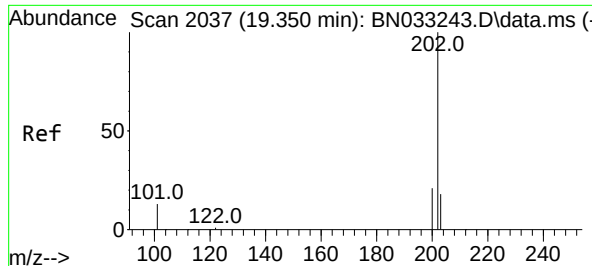
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

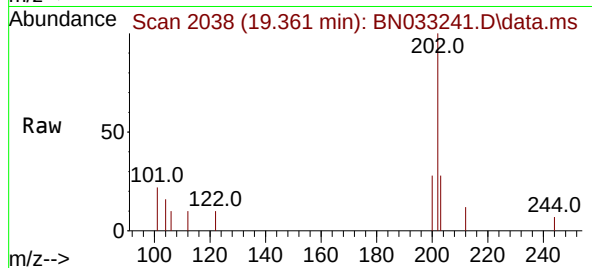
Tgt Ion:240 Resp: 4894
Ion Ratio Lower Upper
240 100
120 22.3 13.3 19.9#
236 31.1 23.8 35.6





#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

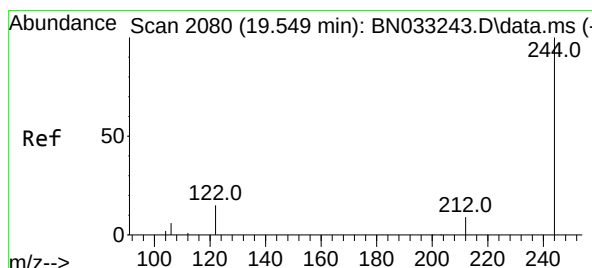
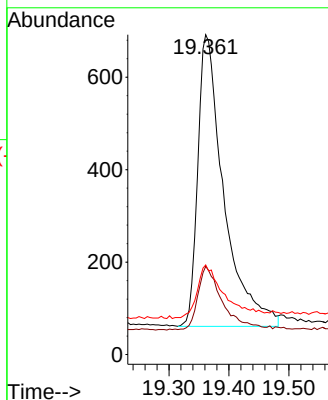
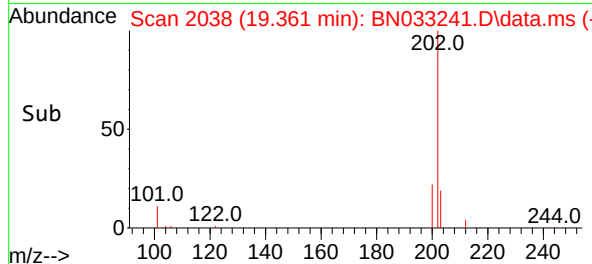
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 1904
Ion Ratio Lower Upper
202 100
200 20.6 17.0 25.4
203 18.7 14.4 21.6

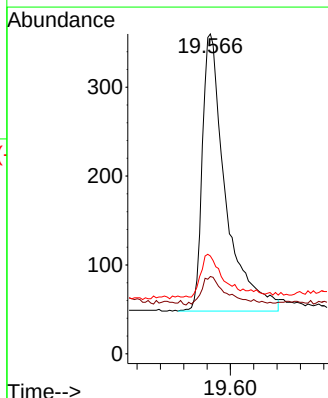
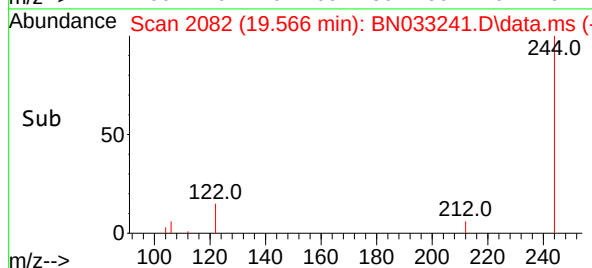
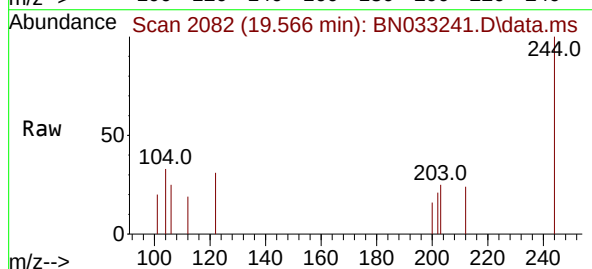
Manual Integrations
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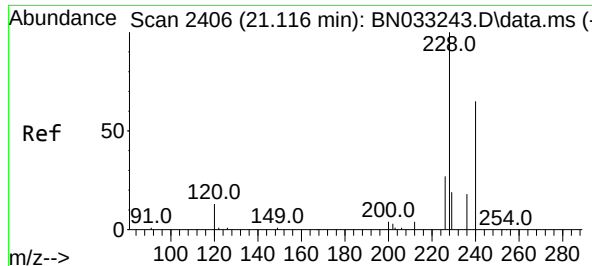
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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:244 Resp: 864
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 :

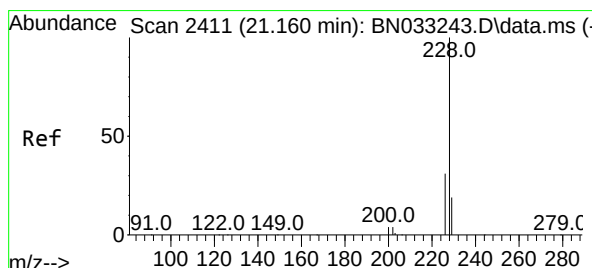
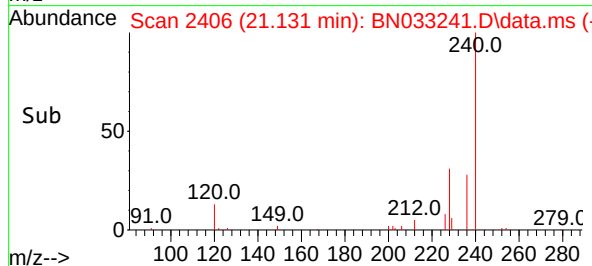
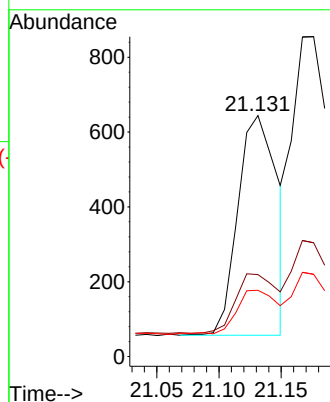
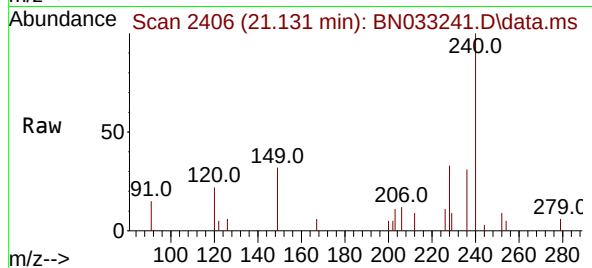
SSTDICC0.1

Tgt Ion:	228	Resp:	128
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

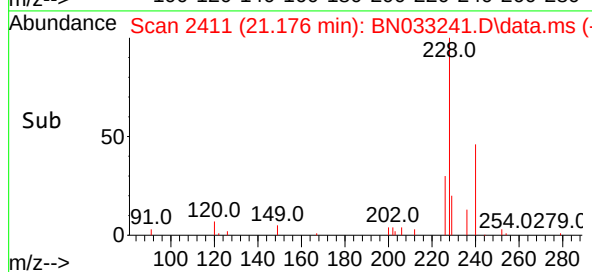
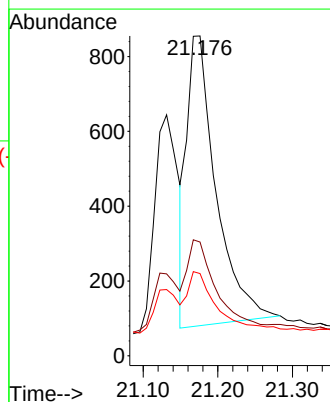
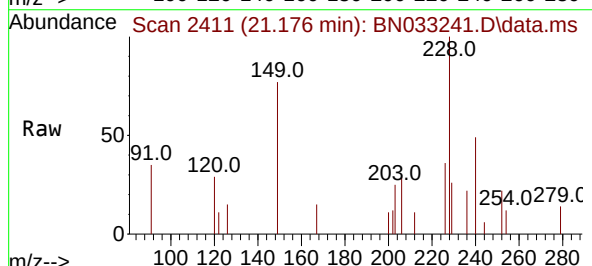
RT: 21.176 min Scan# 2411

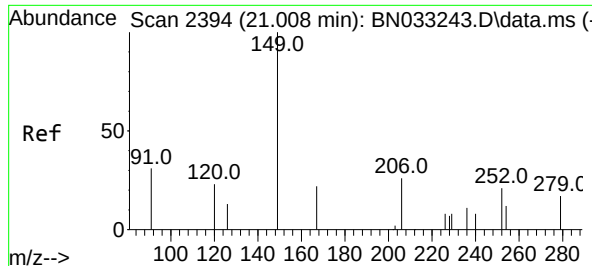
Delta R.T. 0.016 min

Lab File: BN033241.D

Acq: 05 Aug 2024 18:39

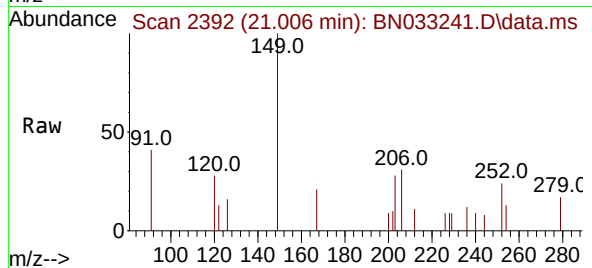
Tgt Ion:	228	Resp:	2100
Ion Ratio	Lower	Upper	
228	100		
226	35.6	25.1	37.7
229	25.7	16.2	24.2





#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

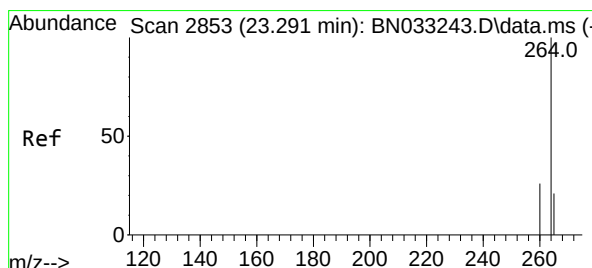
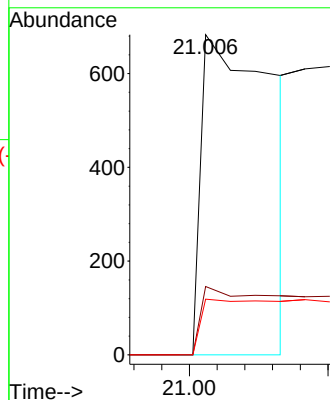
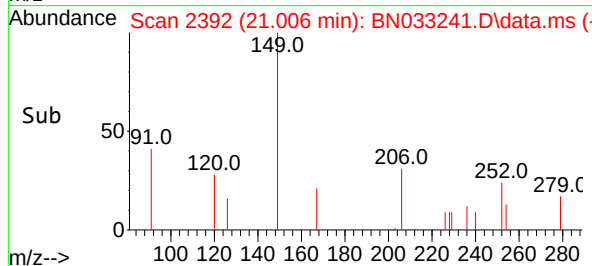
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

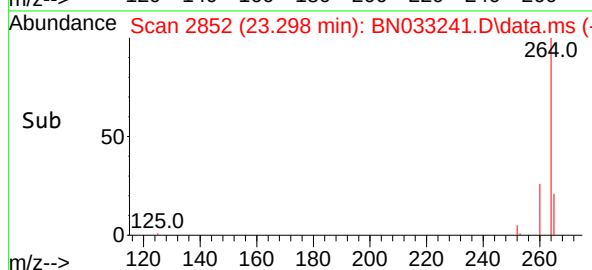
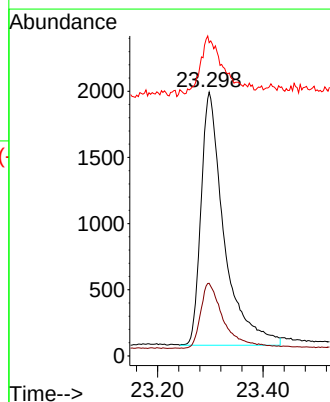
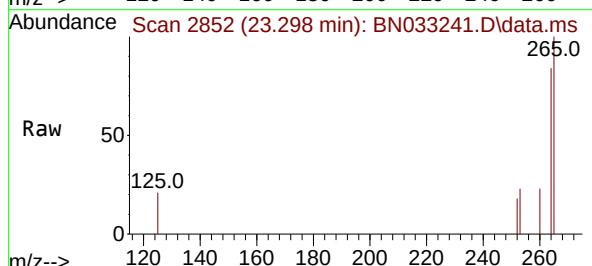
Manual Integrations
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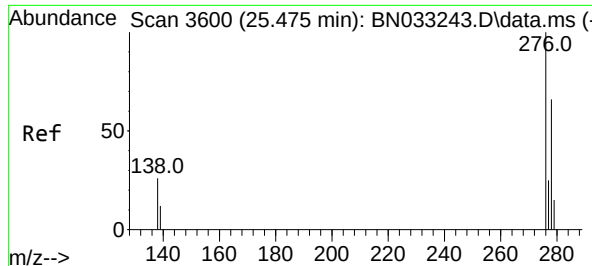
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

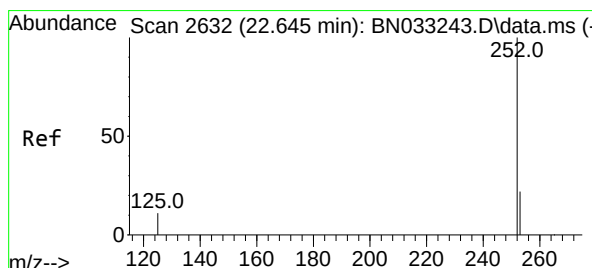
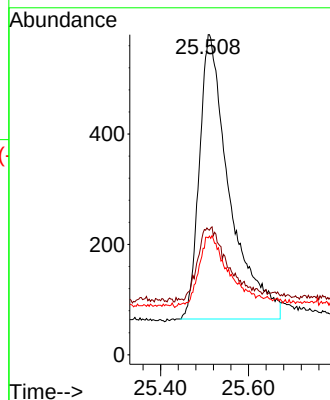
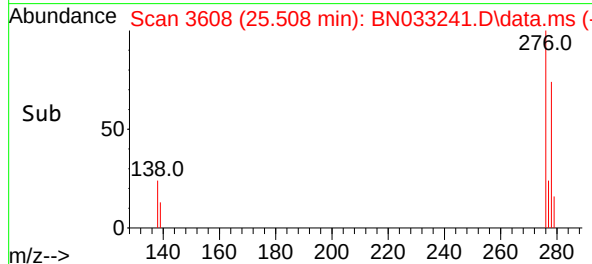
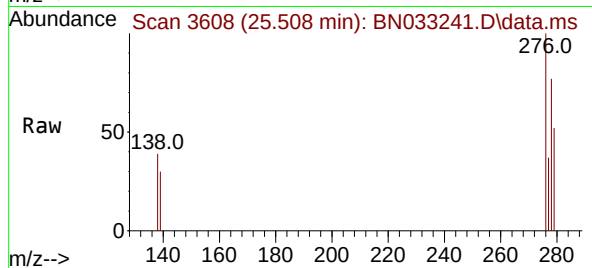
SSTDIC0.1

Tgt Ion:	276	Resp:	245
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

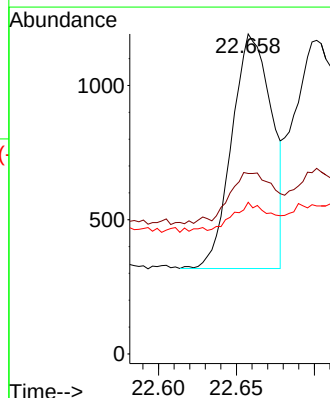
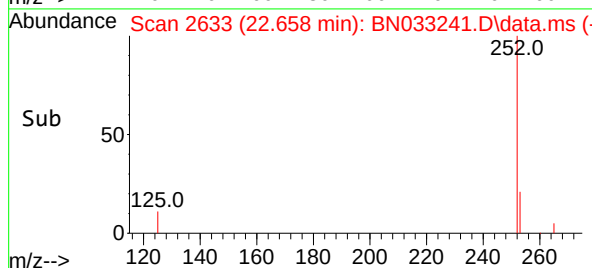
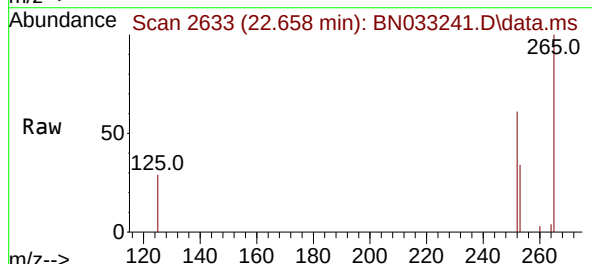
RT: 22.658 min Scan# 2633

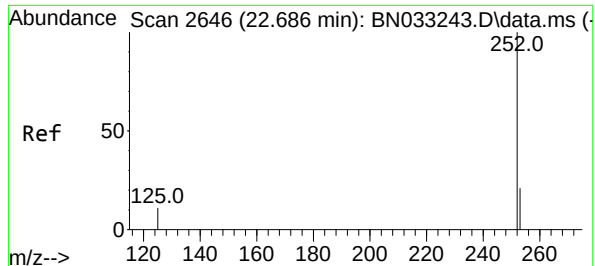
Delta R.T. 0.013 min

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 :

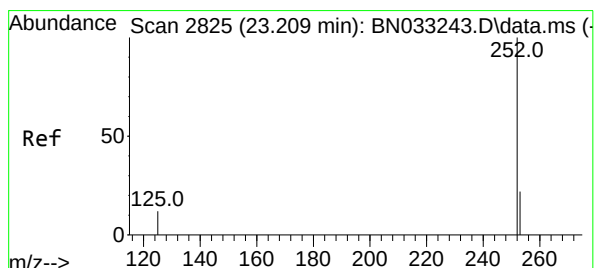
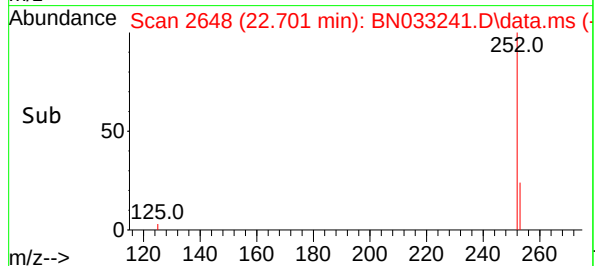
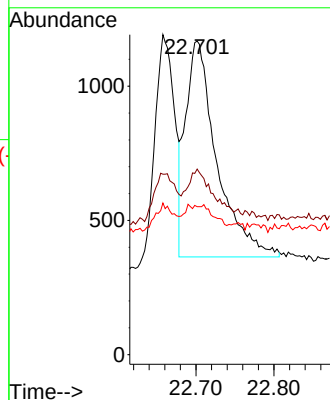
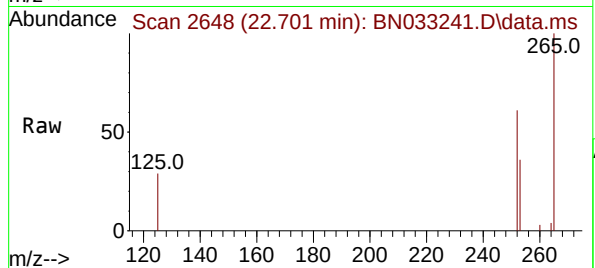
SSTDIC0.1

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

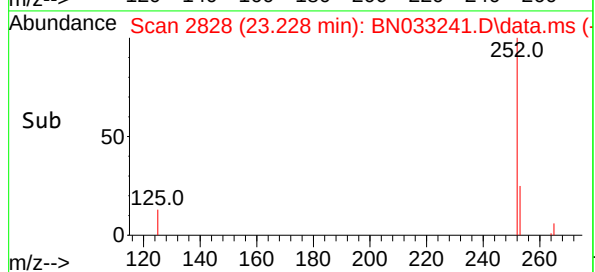
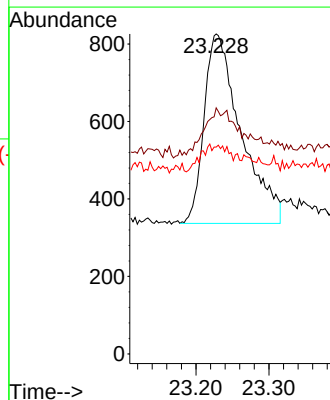
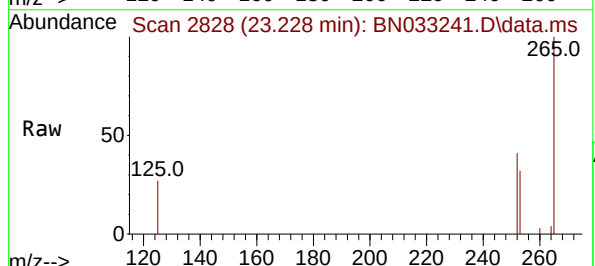
RT: 23.228 min Scan# 2828

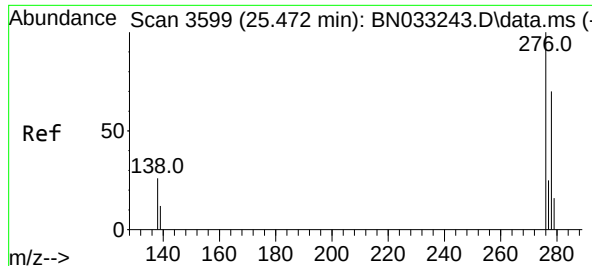
Delta R.T. 0.019 min

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

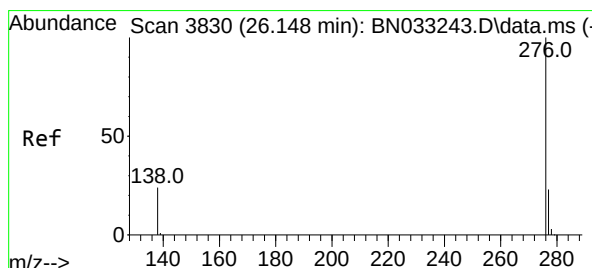
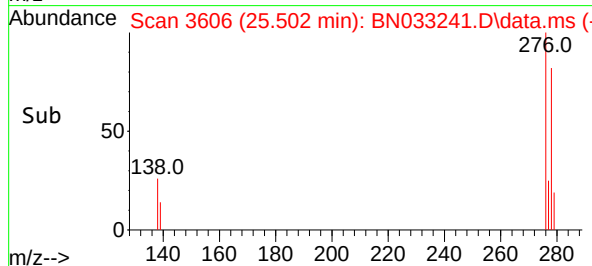
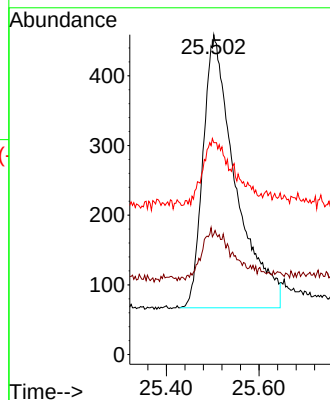
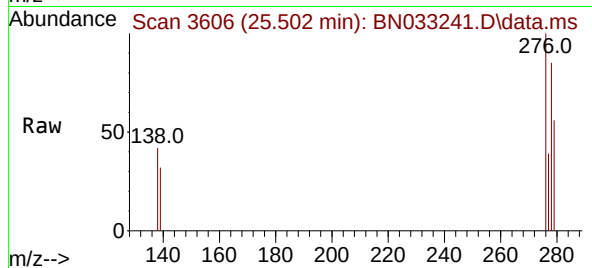
278 100

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

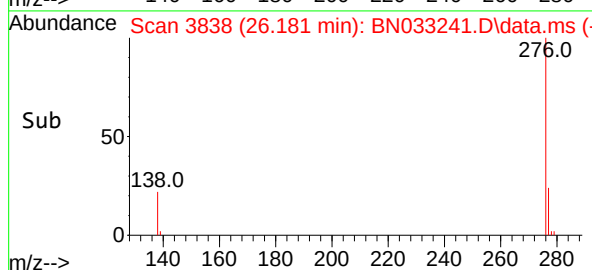
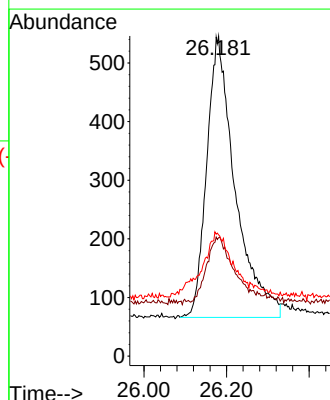
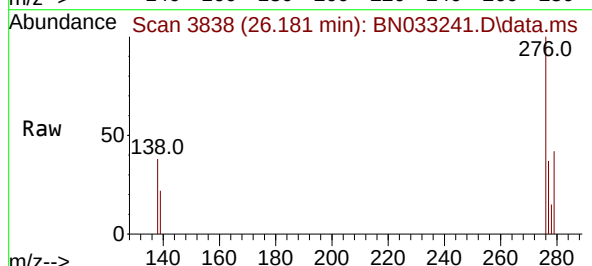
Tgt Ion:276 Resp: 2292

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

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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

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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 :

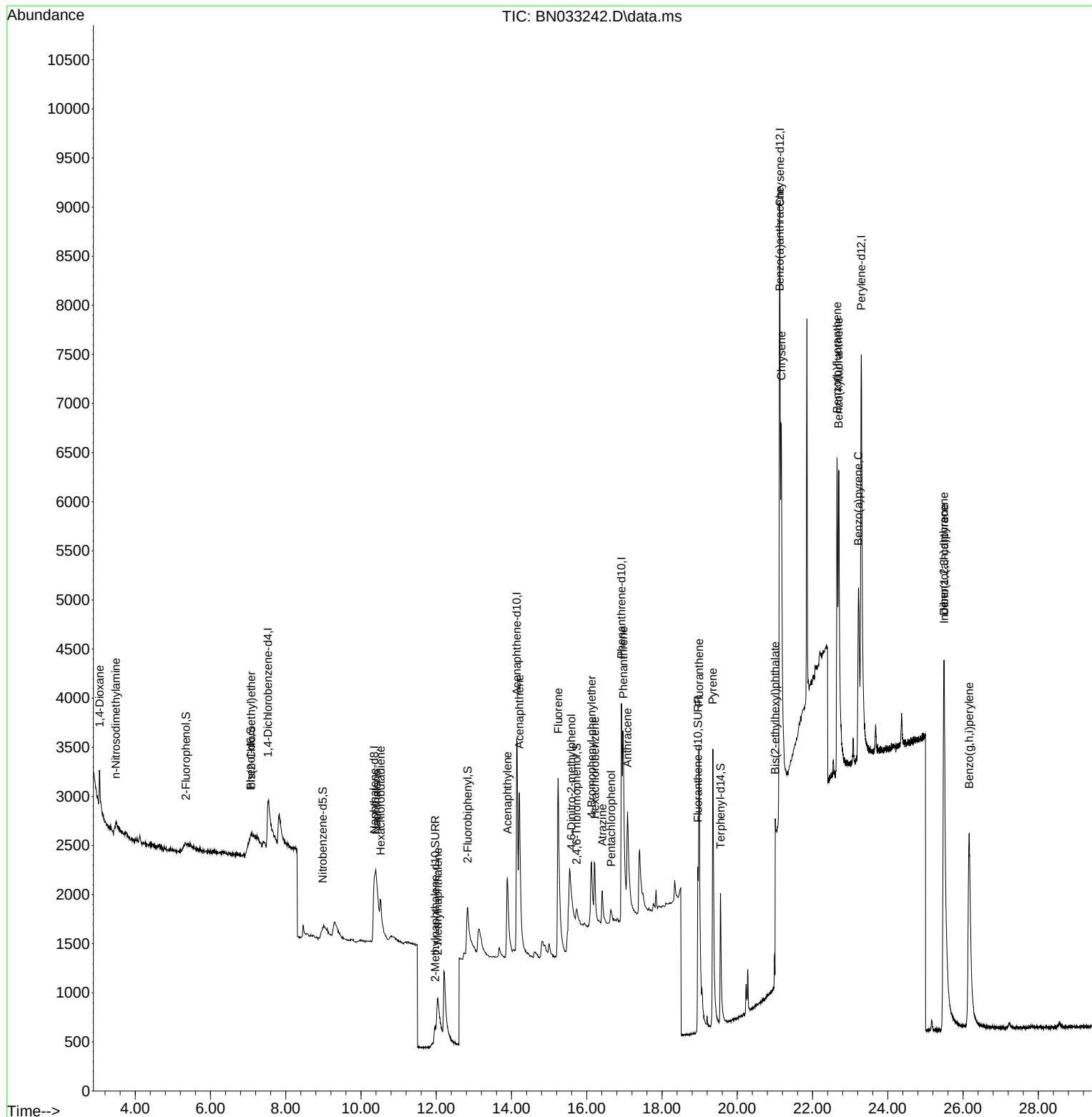
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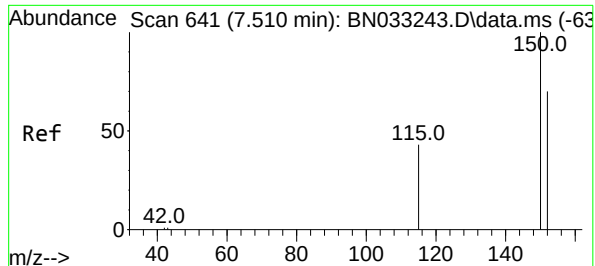
Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

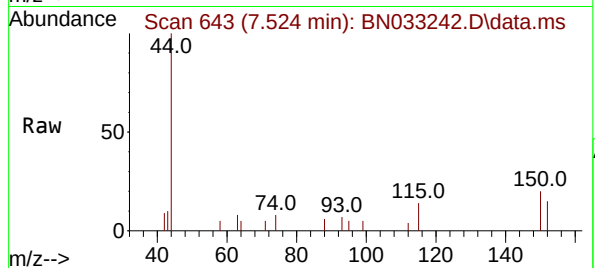
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#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

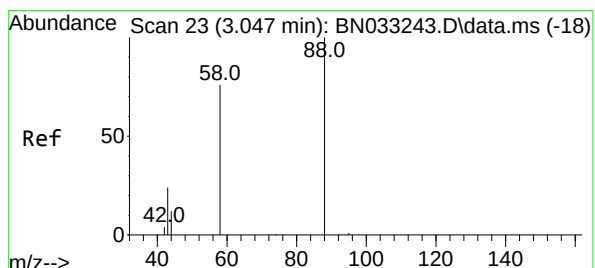
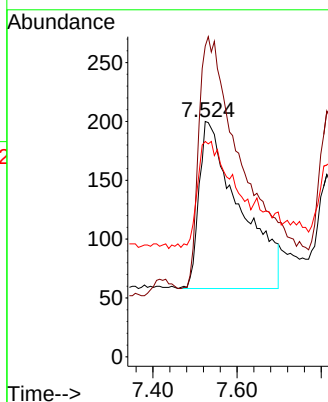
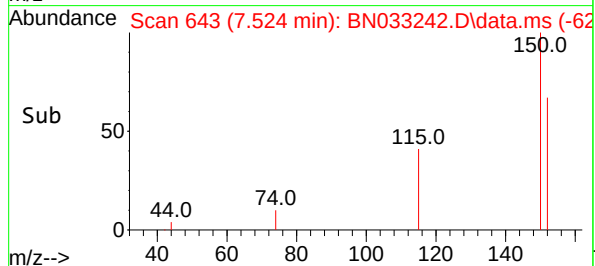
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

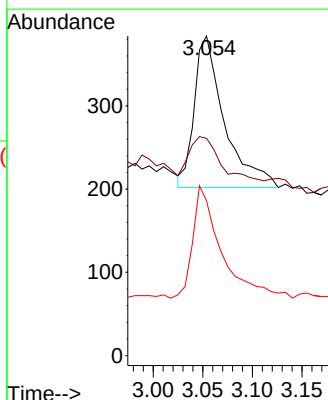
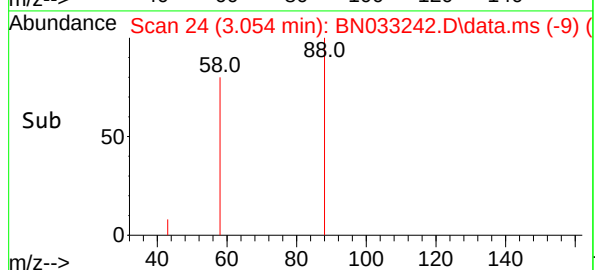
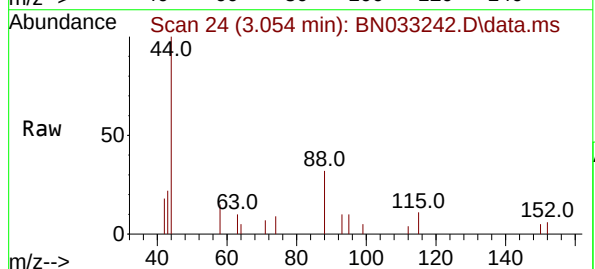
Manual Integrations
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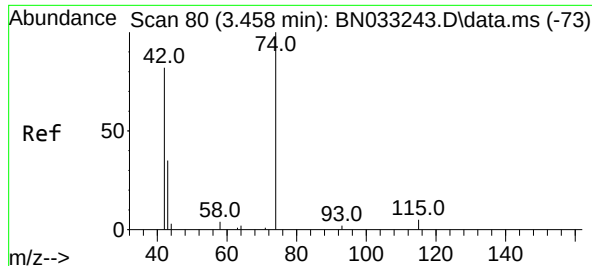
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

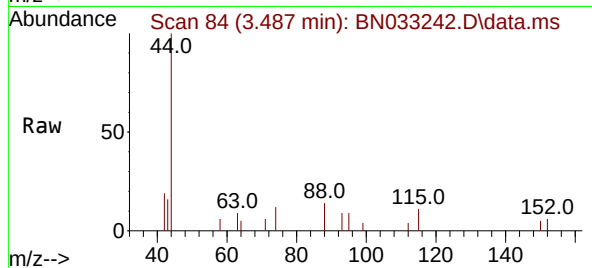
Tgt Ion: 88 Resp: 384
Ion Ratio Lower Upper
88 100
43 28.9 18.6 28.0#
58 69.5 54.5 81.7





#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

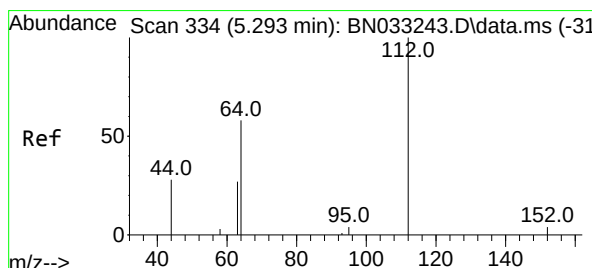
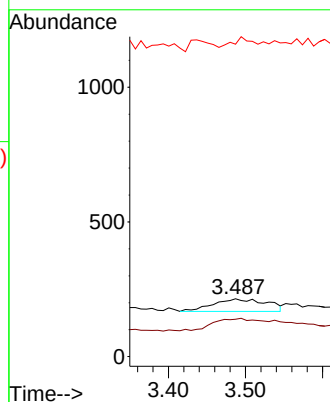
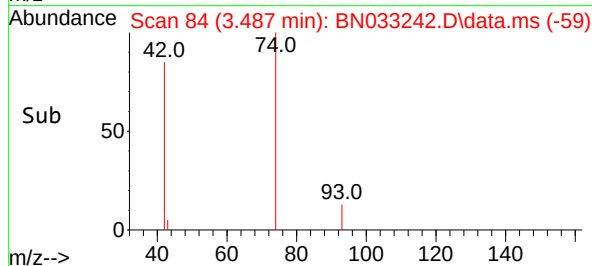
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

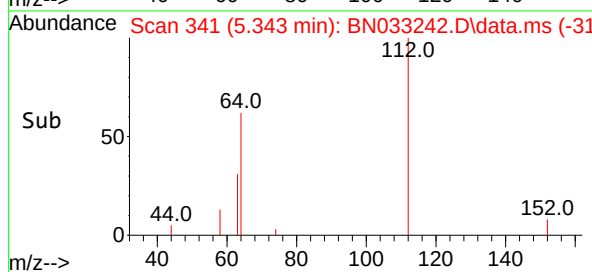
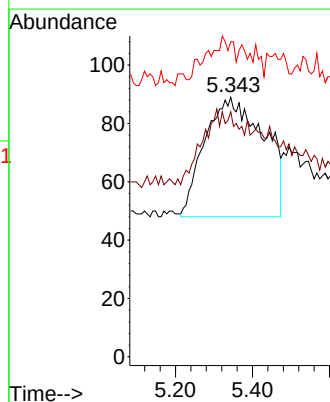
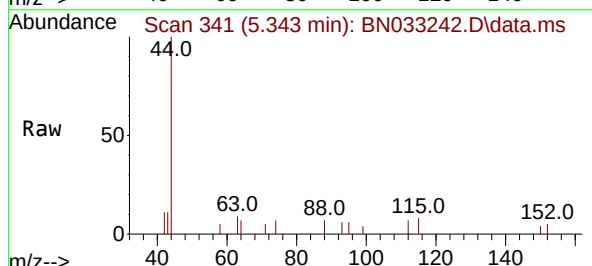
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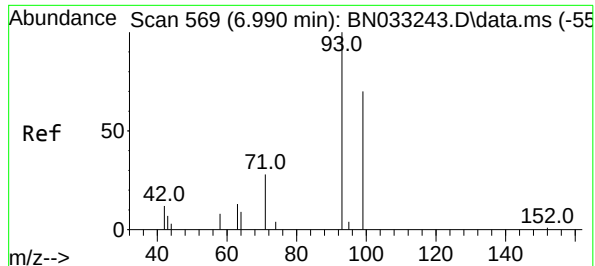
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





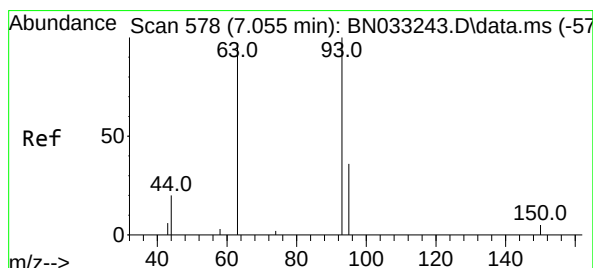
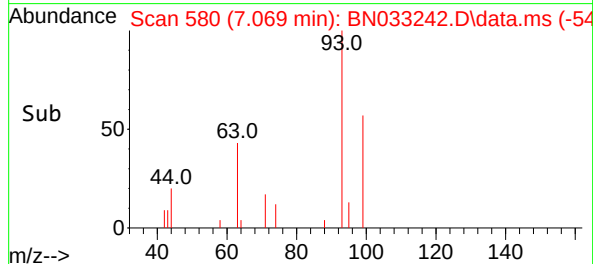
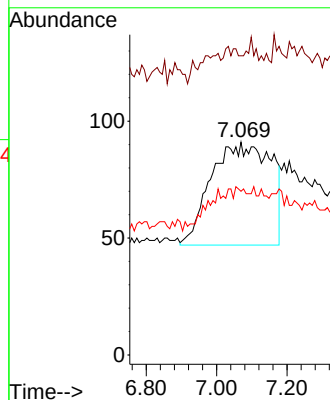
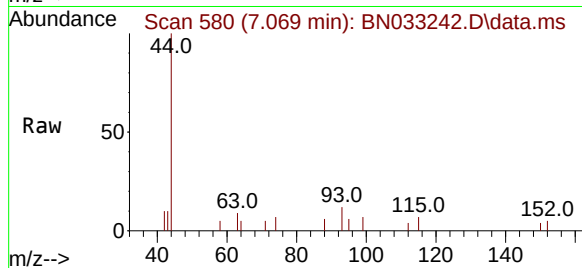
#5
Phenol-d6
Concen: 0.160 ng m
RT: 7.069 min Scan# 51
Delta R.T. 0.079 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

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#

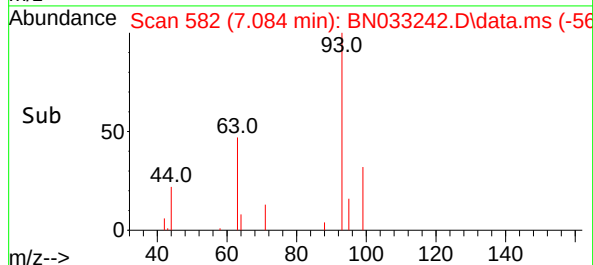
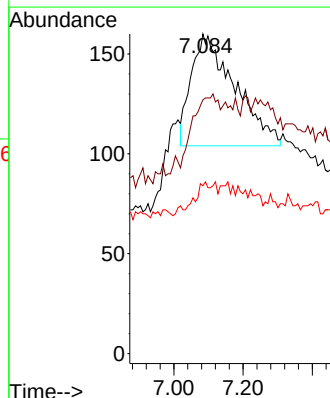
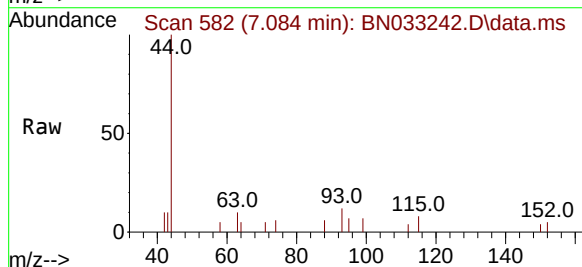
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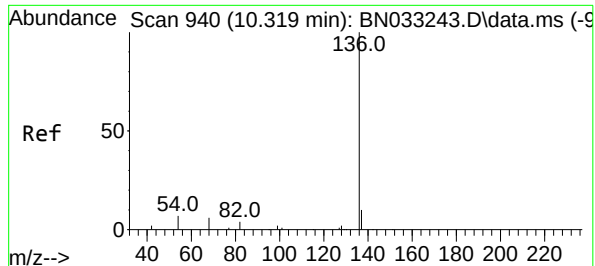
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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#





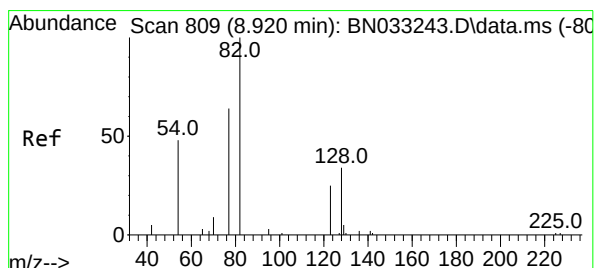
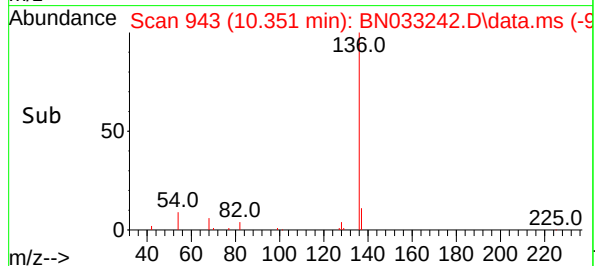
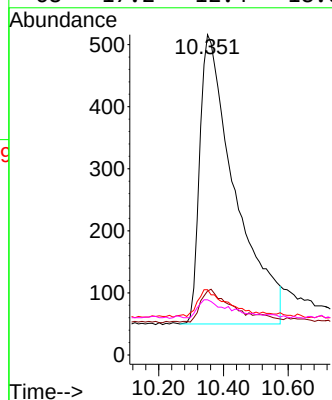
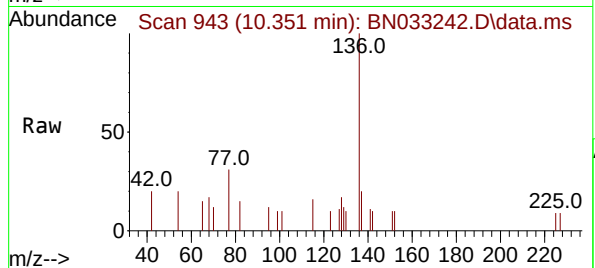
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 940
Delta R.T. 0.032 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

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

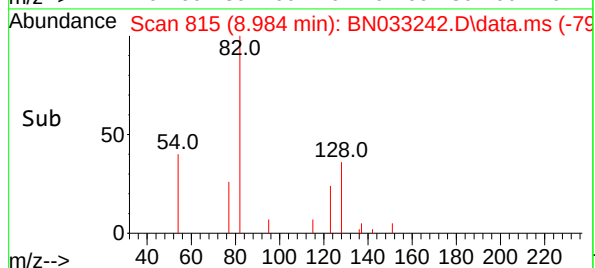
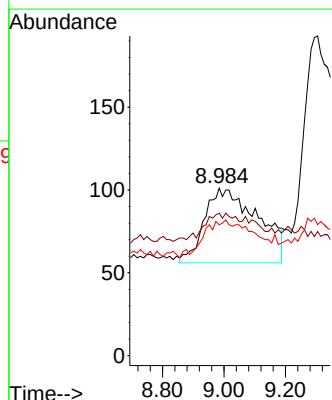
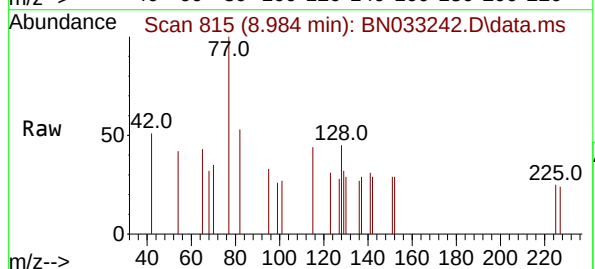
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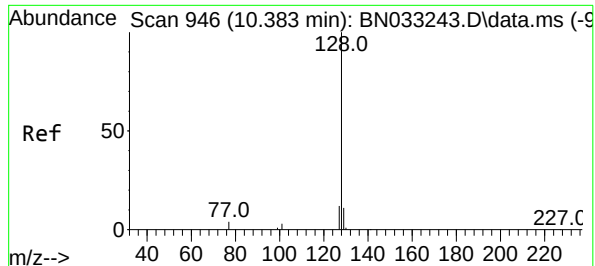
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





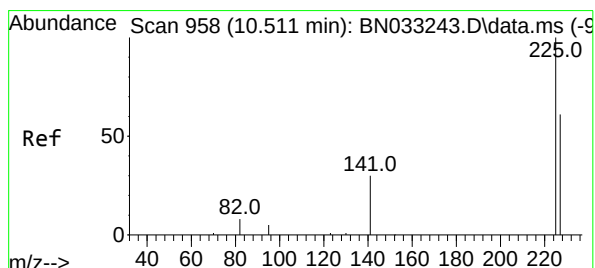
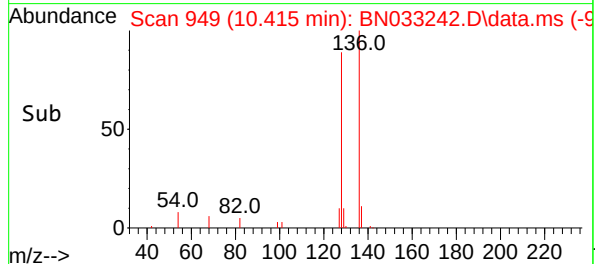
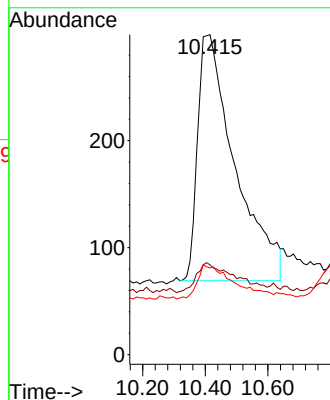
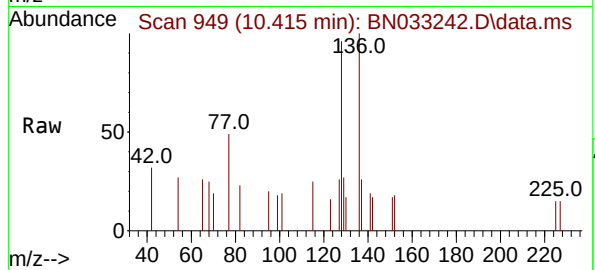
#9
Naphthalene
Concen: 0.201 ng
RT: 10.415 min Scan# 946
Delta R.T. 0.032 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

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

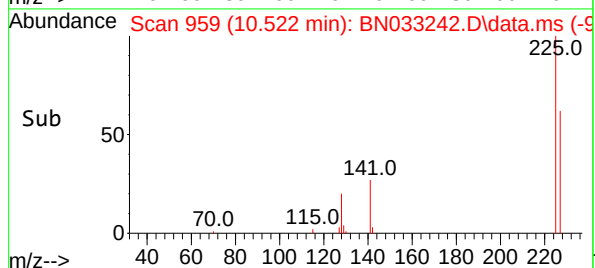
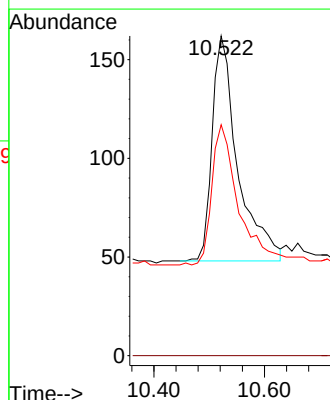
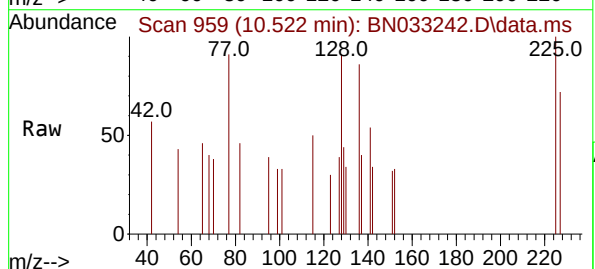
Manual Integrations
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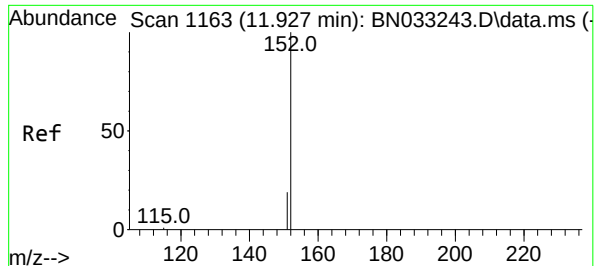
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

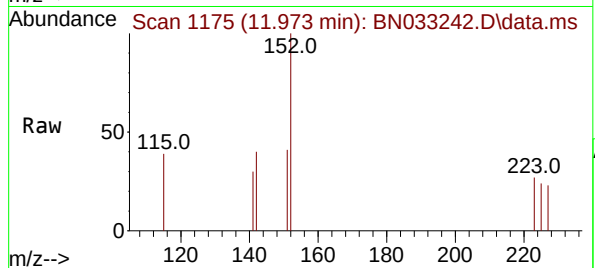
Tgt Ion:225 Resp: 367
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 50.2 75.4





#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

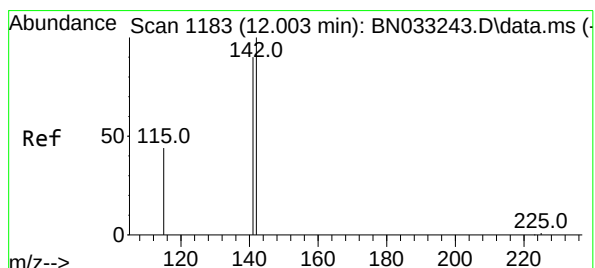
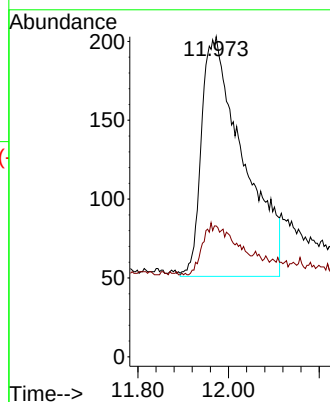
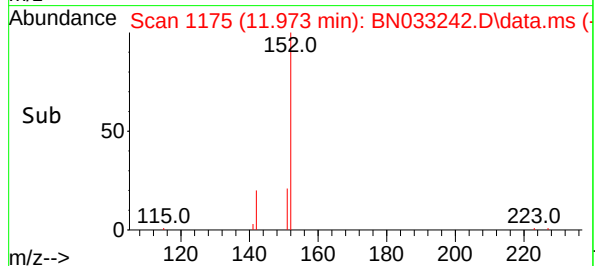
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 969
Ion Ratio Lower Upper
152 100
151 5.5 11.9 17.9

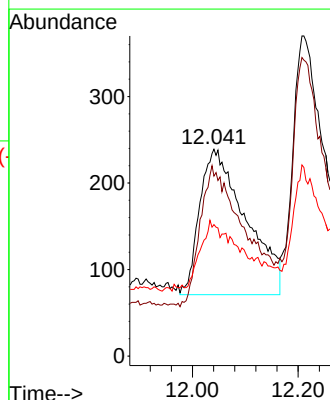
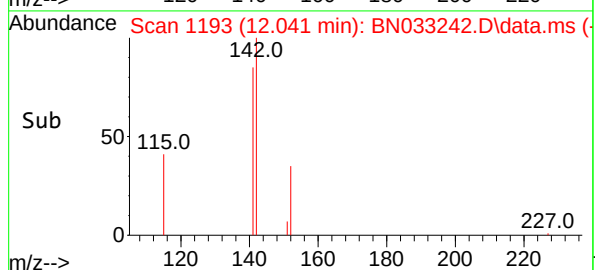
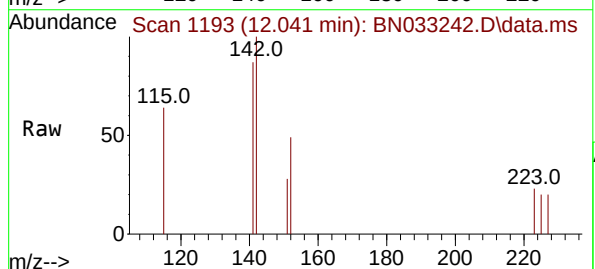
Manual Integrations
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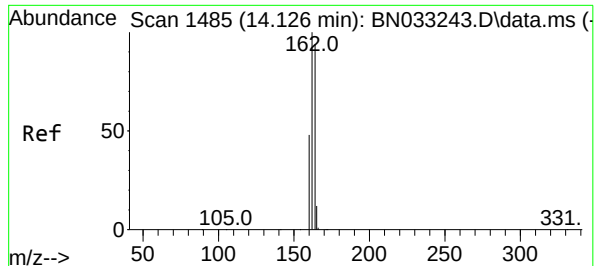
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

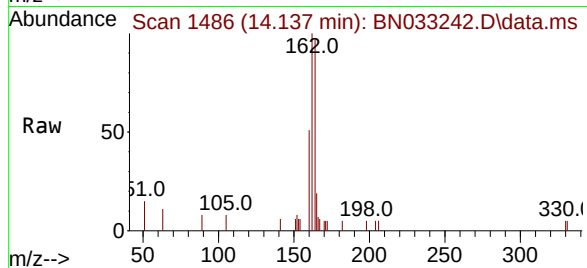
Tgt Ion:142 Resp: 1018
Ion Ratio Lower Upper
142 100
141 87.0 68.7 103.1
115 63.6 41.6 62.4





#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

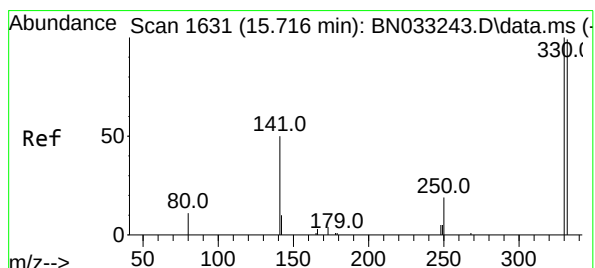
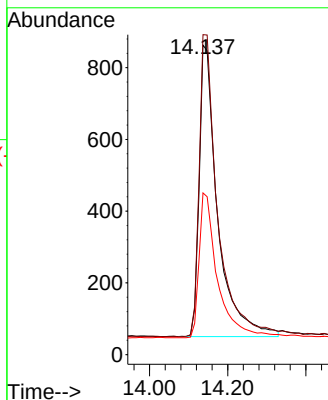
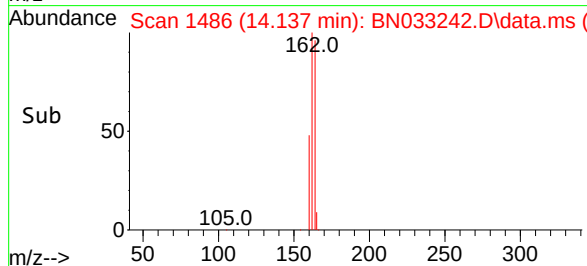
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

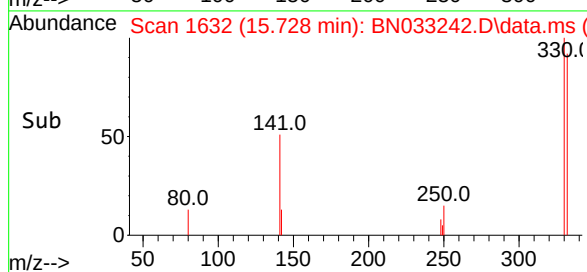
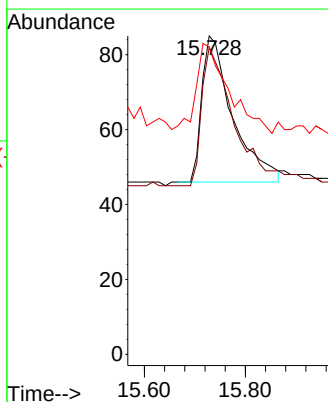
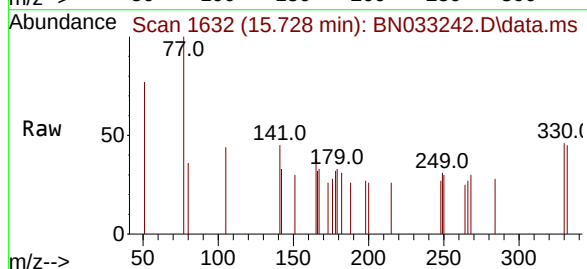
Manual Integrations
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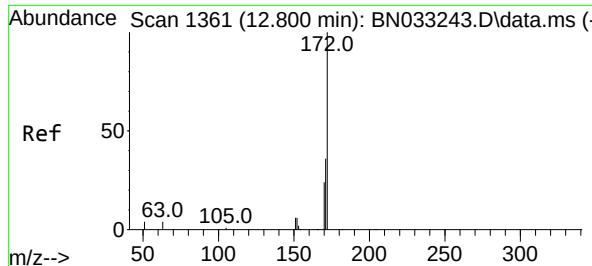
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

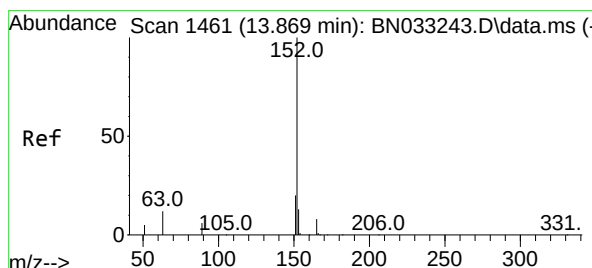
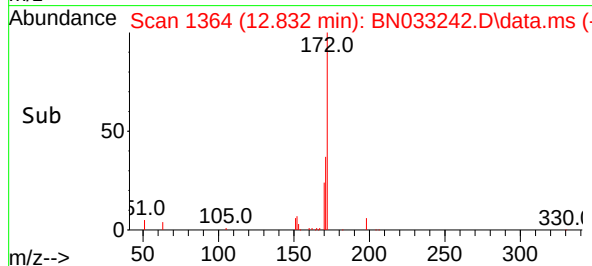
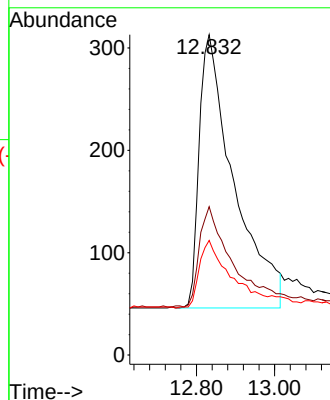
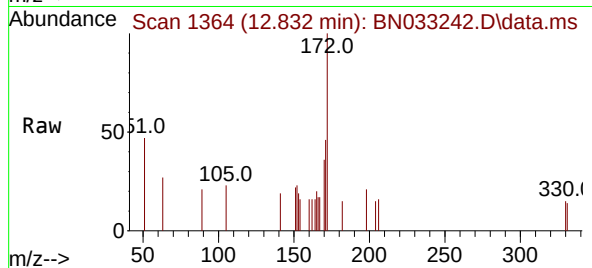
SSTDICC0.2

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

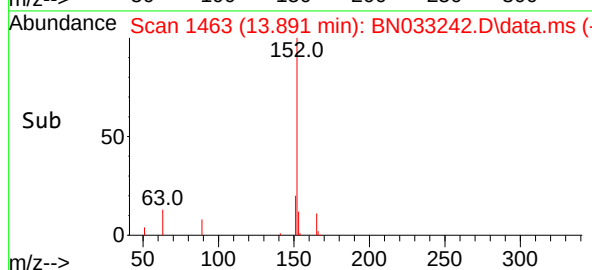
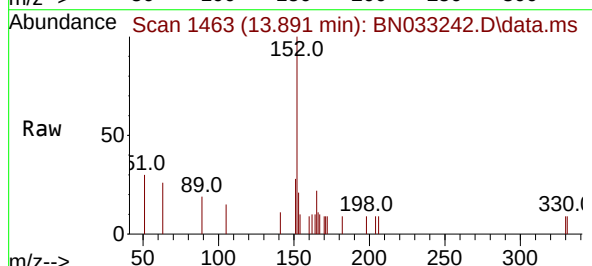
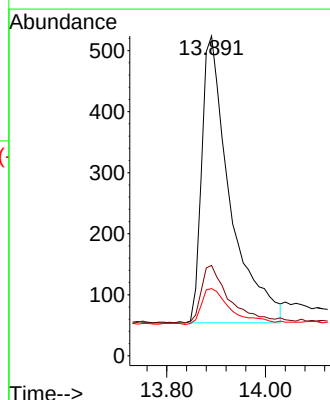
RT: 13.891 min Scan# 1463

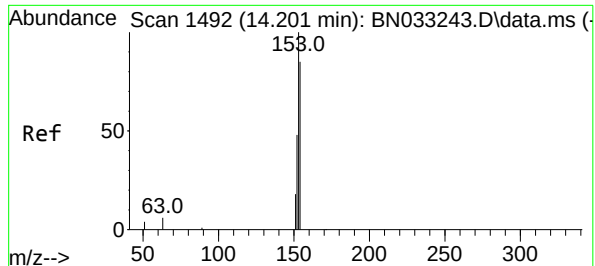
Delta R.T. 0.021 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

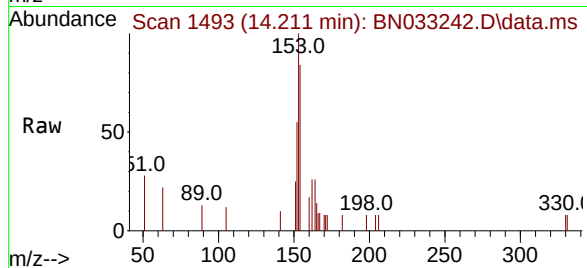
Tgt Ion:	152	Resp:	1862
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.6	10.2	15.2





#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

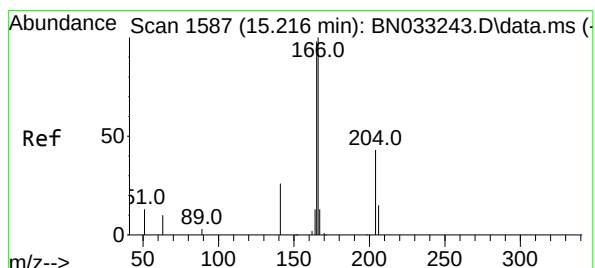
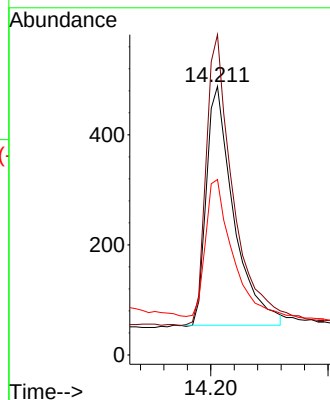
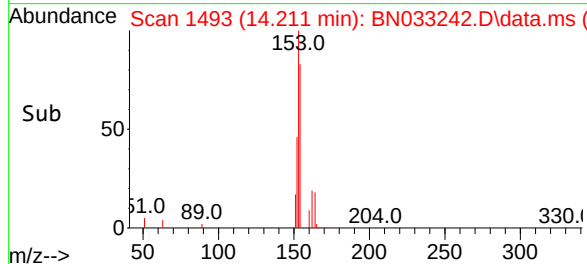
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

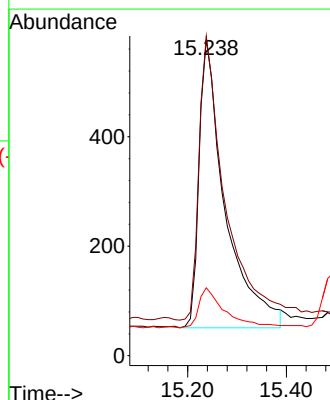
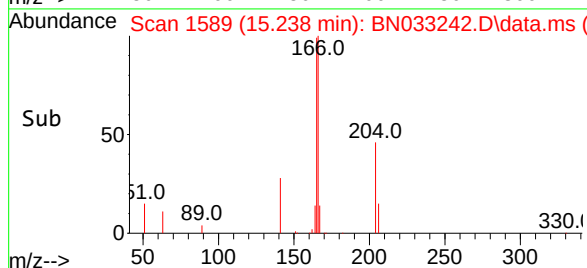
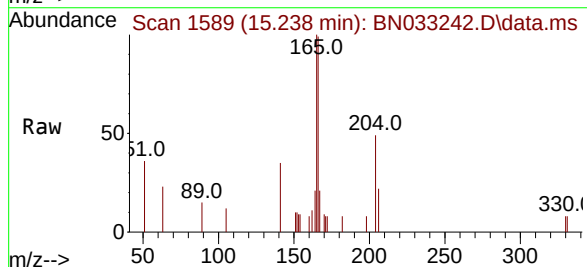
Manual Integrations
APPROVED

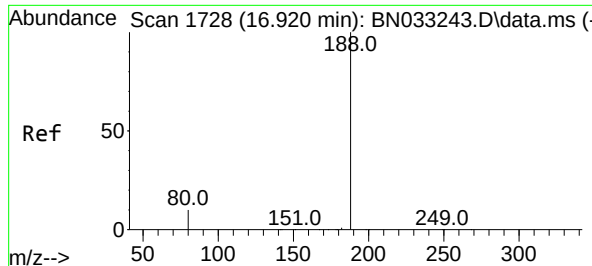
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

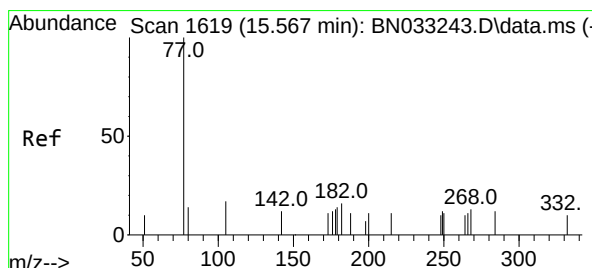
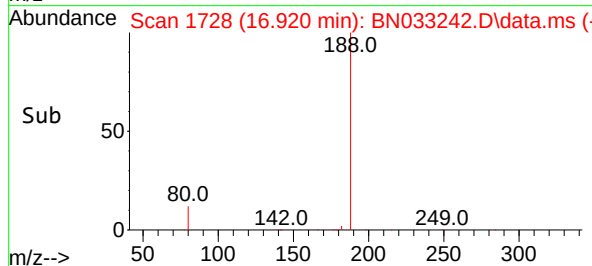
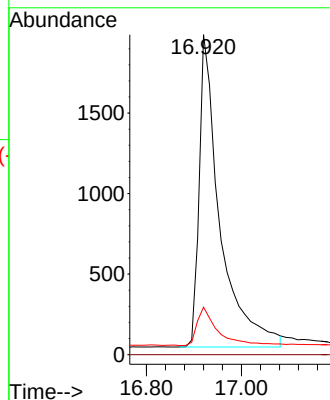
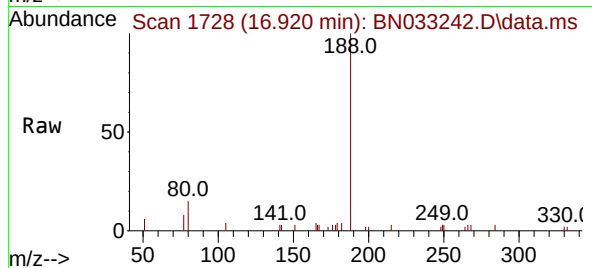
ClientSampleId :

SSTDICC0.2

Tgt Ion:188	Resp:	588
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	14.8	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: 0.309 ng

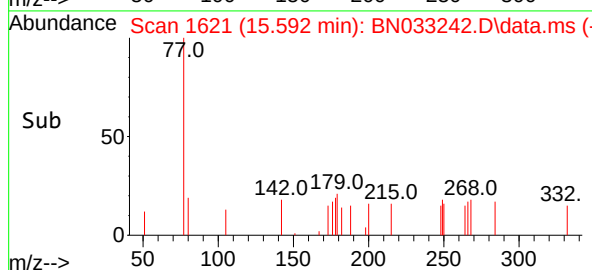
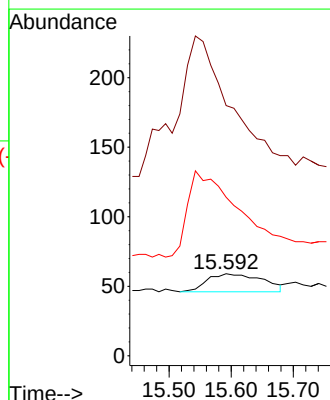
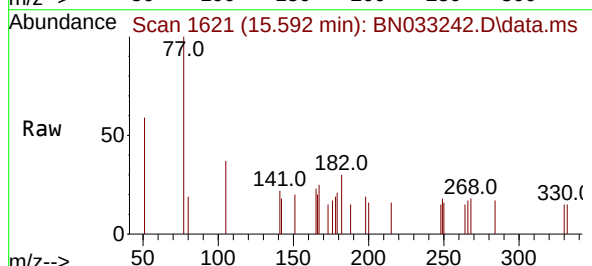
RT: 15.592 min Scan# 1621

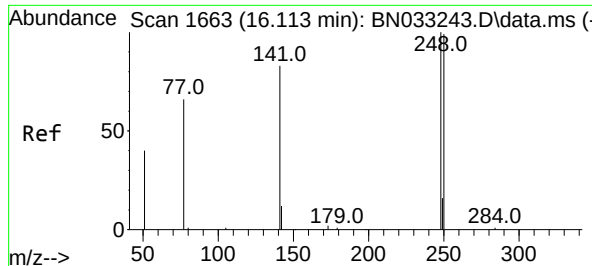
Delta R.T. 0.025 min

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
105	193.2	152.6





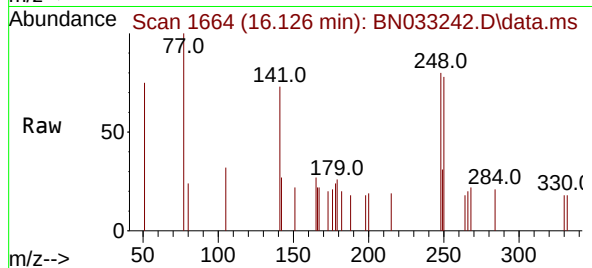
#21
4-Bromophenyl-phenylether
Concen: 0.196 ng
RT: 16.126 min Scan# 1664
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

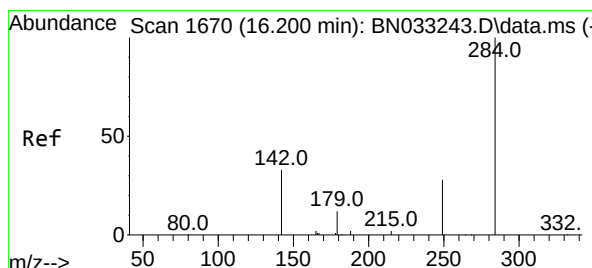
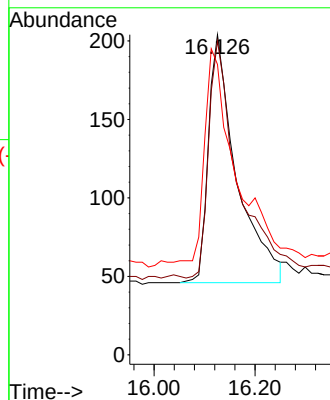
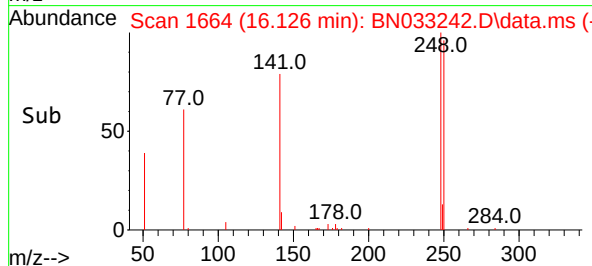


Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.0	80.0	120.0
141	90.7	71.0	106.6

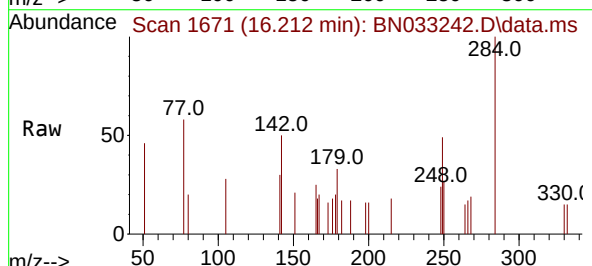
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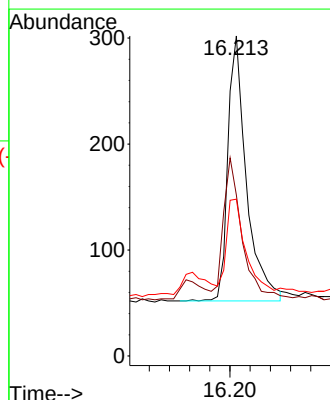
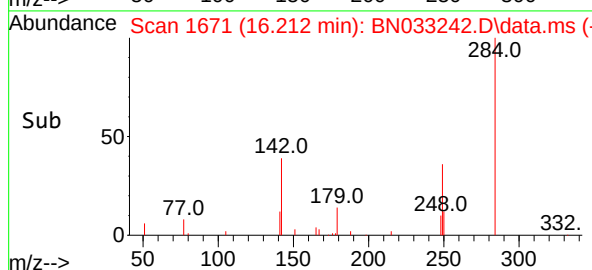
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

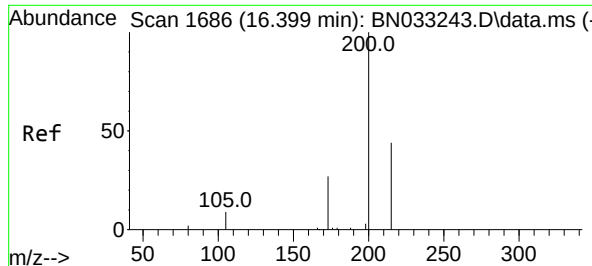


#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.212 min Scan# 1671
Delta R.T. 0.012 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16



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# 1

Delta R.T. 0.012 min

Lab File: BN033242.D

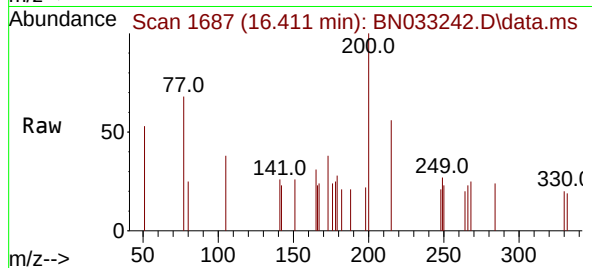
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

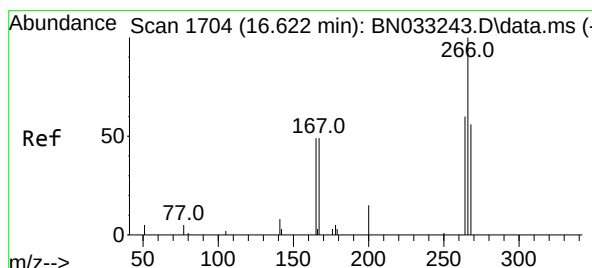
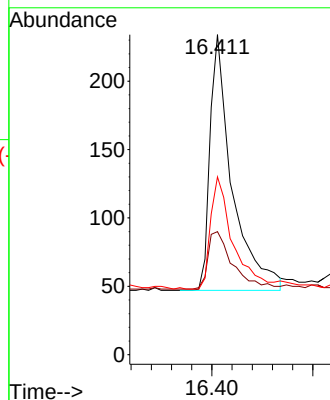
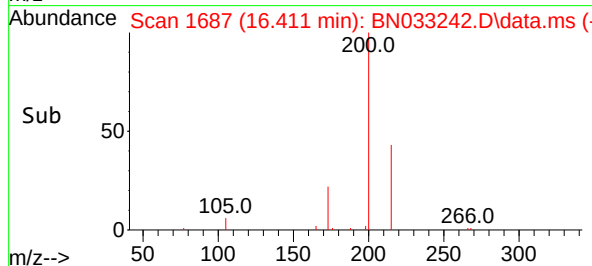


Tgt Ion:	200	Resp:	568
Ion Ratio	Lower	Upper	
200	100		
173	38.5	29.2	43.8
215	55.6	41.5	62.3

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24

Pentachlorophenol

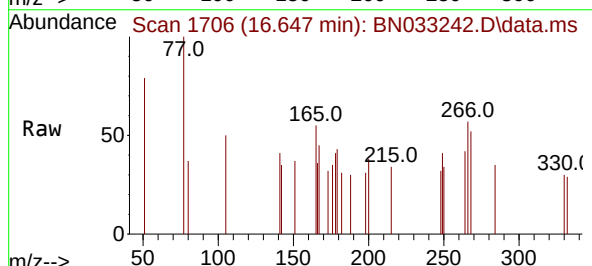
Concen: 0.159 ng

RT: 16.647 min Scan# 1706

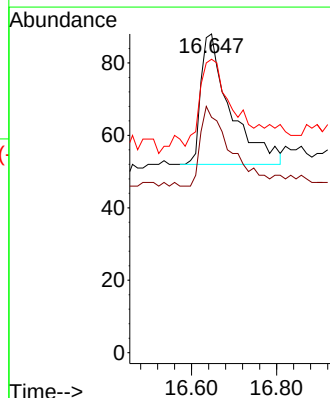
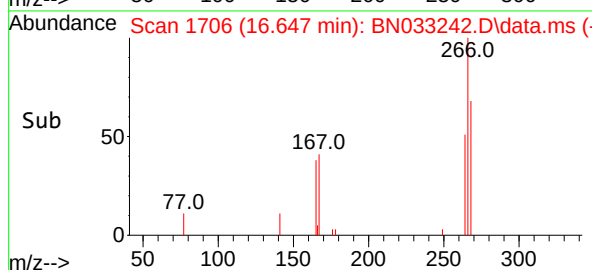
Delta R.T. 0.025 min

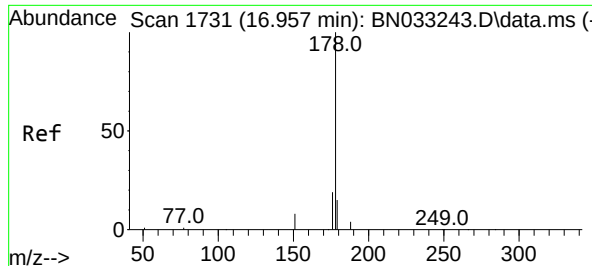
Lab File: BN033242.D

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





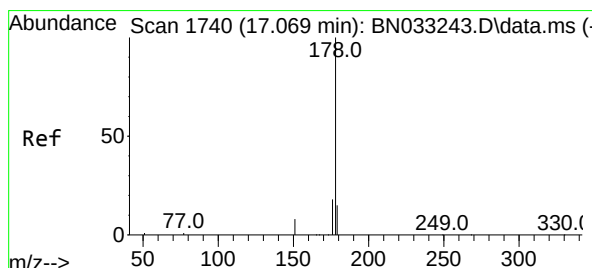
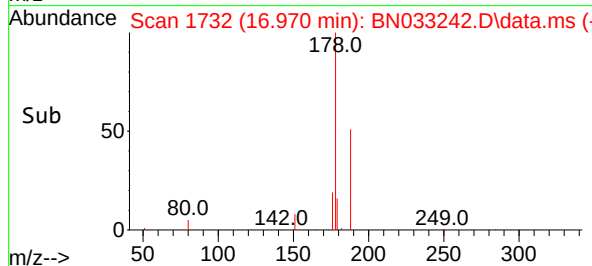
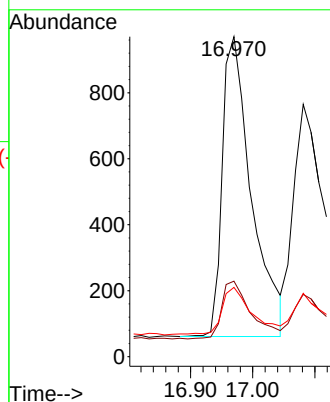
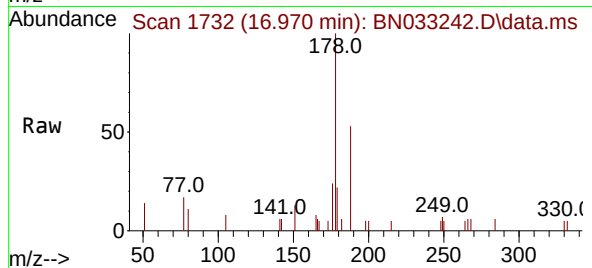
#25
Phenanthrene
Concen: 0.187 ng
RT: 16.970 min Scan# 1731
Delta R.T. 0.013 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

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

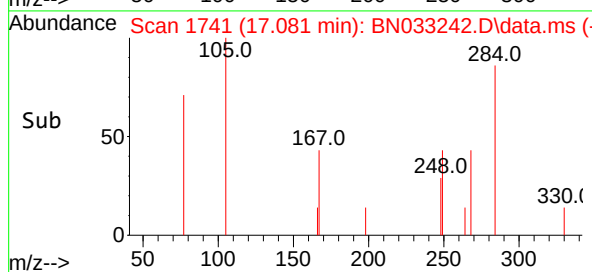
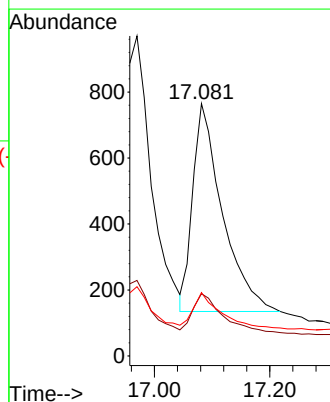
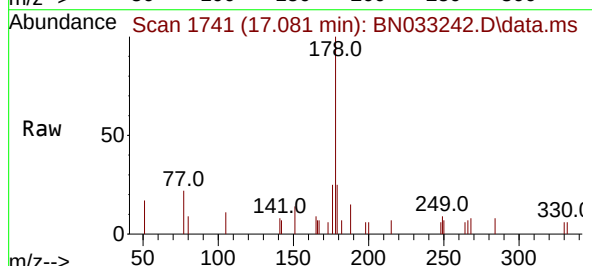
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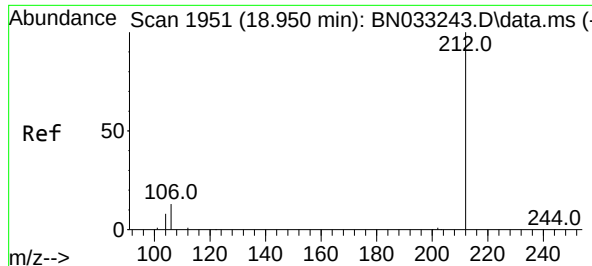
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

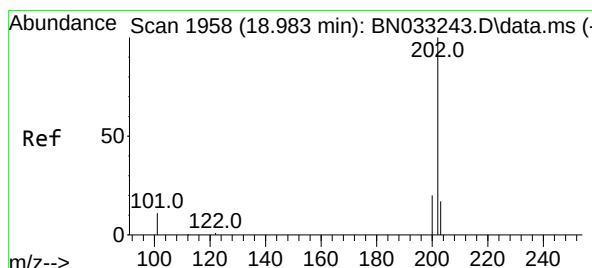
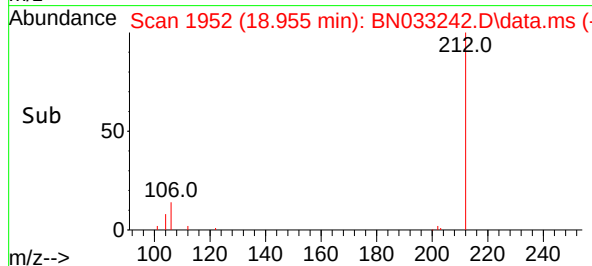
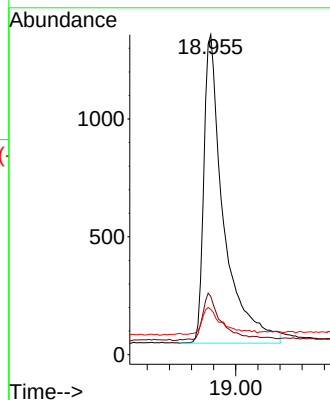
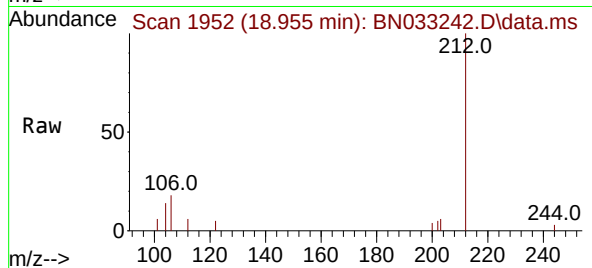
SSTDICC0.2

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

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.198 ng

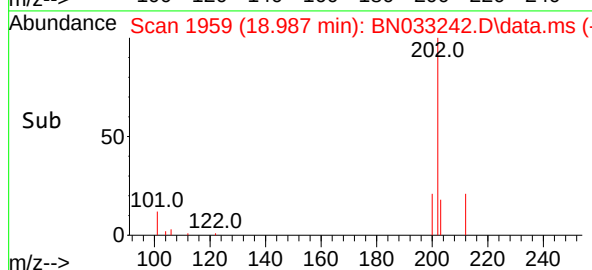
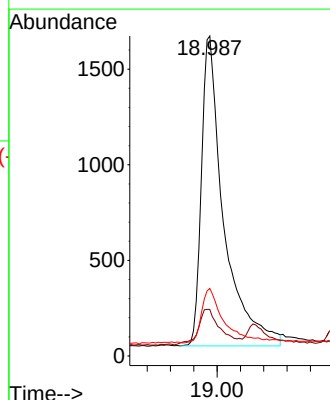
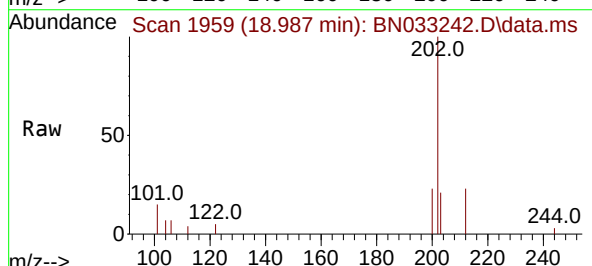
RT: 18.987 min Scan# 1959

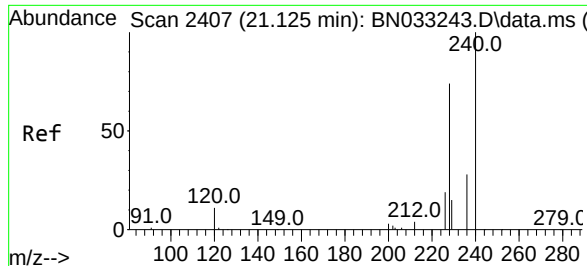
Delta R.T. 0.005 min

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

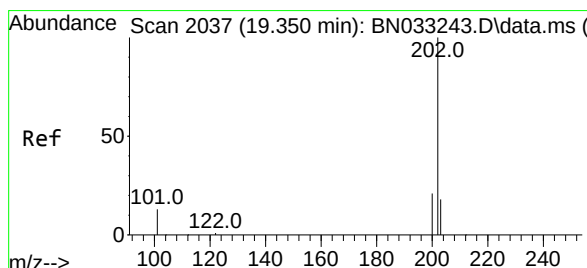
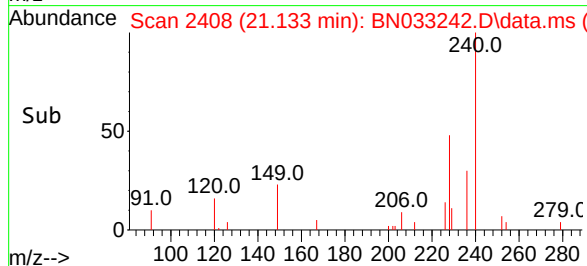
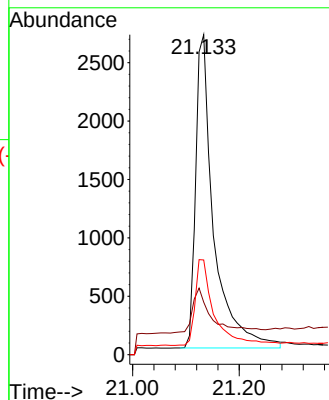
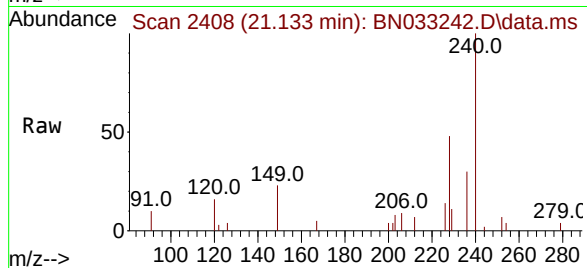
ClientSampleId :

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

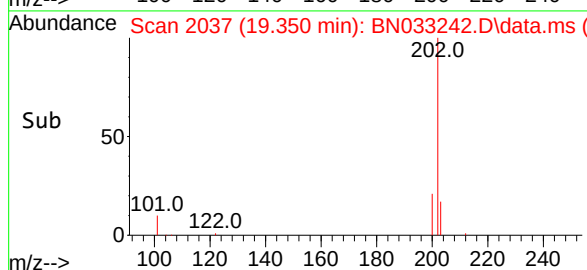
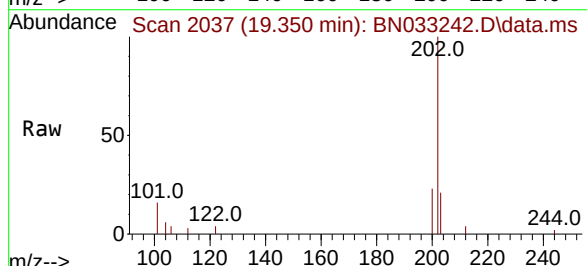
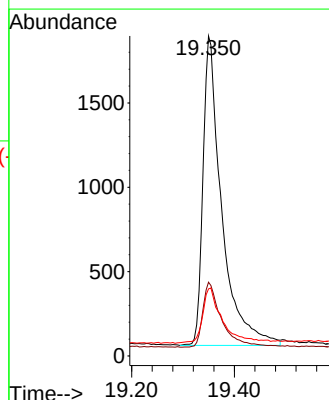
RT: 19.350 min Scan# 2037

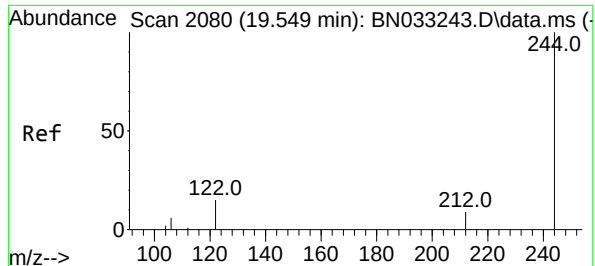
Delta R.T. -0.000 min

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





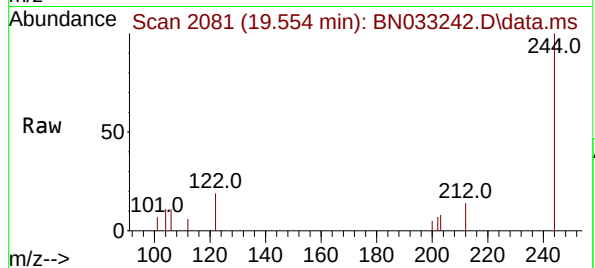
#31
Terphenyl-d14
Concen: 0.208 ng
RT: 19.554 min Scan# 2081
Delta R.T. 0.005 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

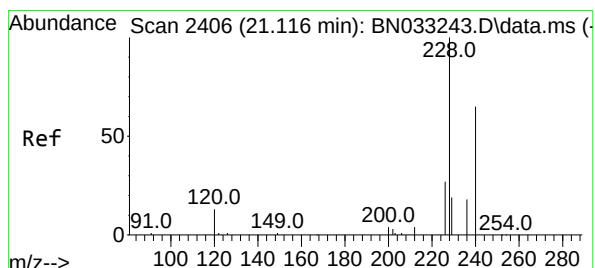
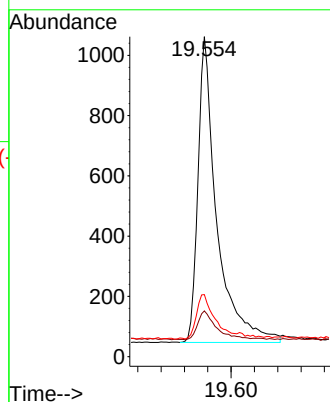
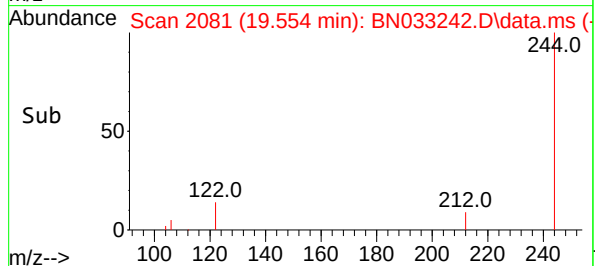


Tgt Ion:244 Resp: 227
Ion Ratio Lower Upper
244 100
212 14.3 9.9 14.9
122 19.4 14.1 21.1

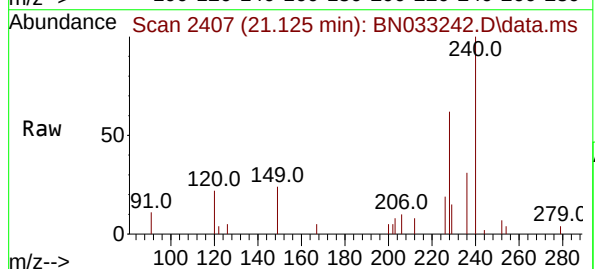
Manual Integrations

APPROVED

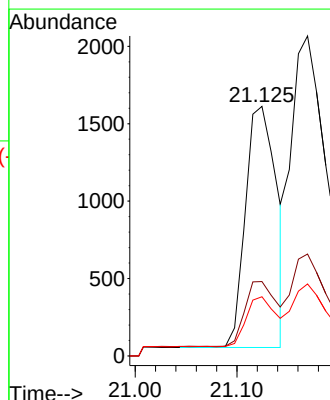
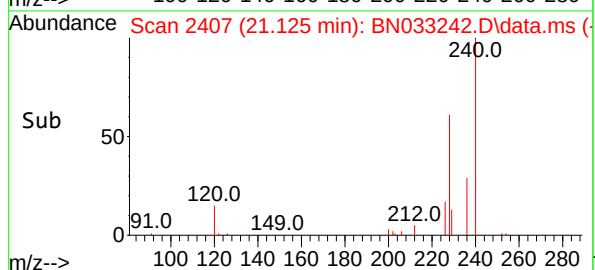
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

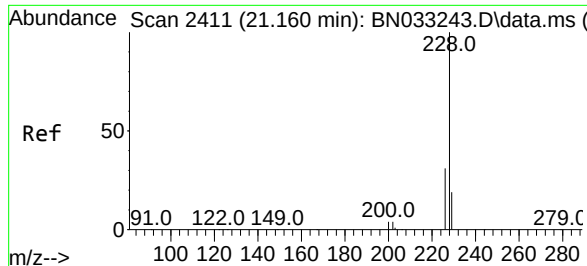


#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.009 min
Lab File: BN033242.D
Acq: 05 Aug 2024 19:16



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:228 Resp: 536

Ion Ratio Lower Upper

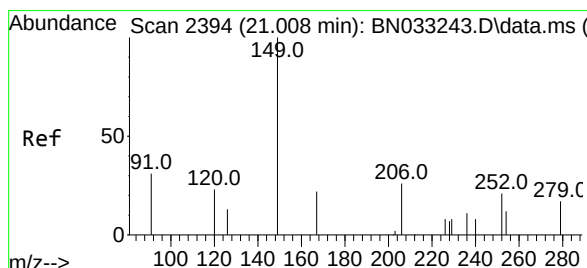
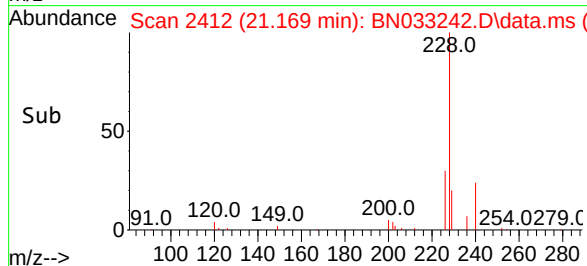
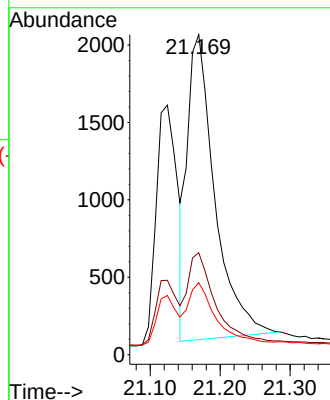
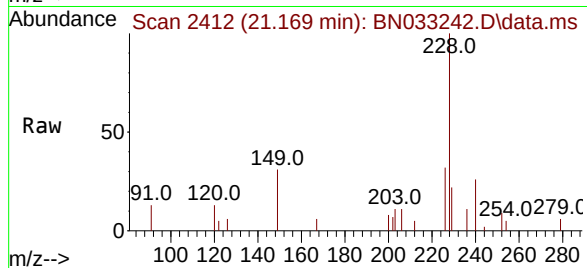
228 100

226 31.8 25.1 37.7

229 22.5 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: 0.391 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.000 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16

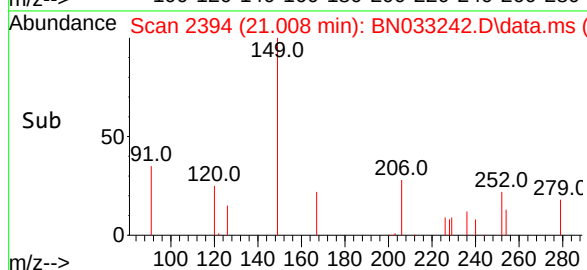
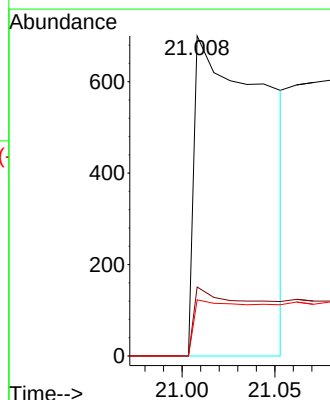
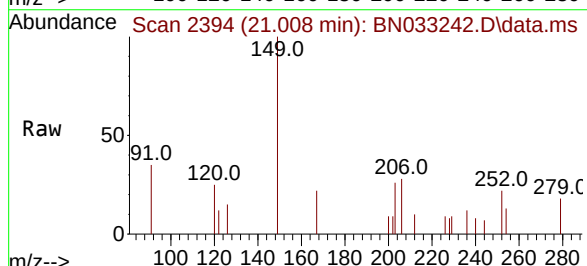
Tgt Ion:149 Resp: 1711

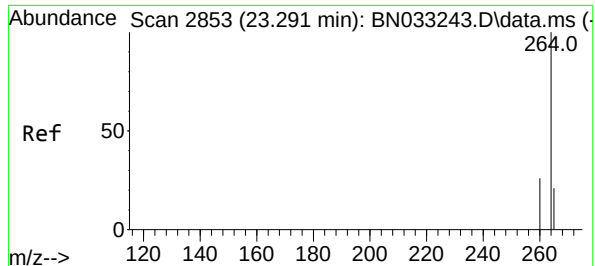
Ion Ratio Lower Upper

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

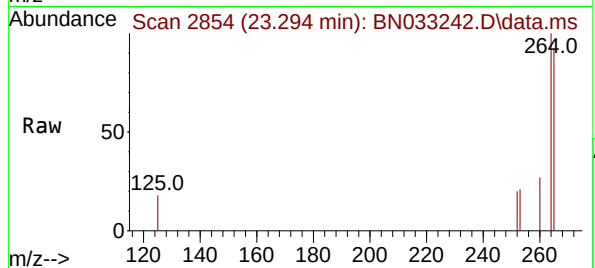
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



Tgt Ion:264 Resp: 8030

Ion Ratio Lower Upper

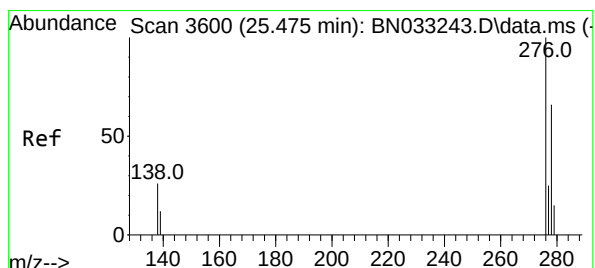
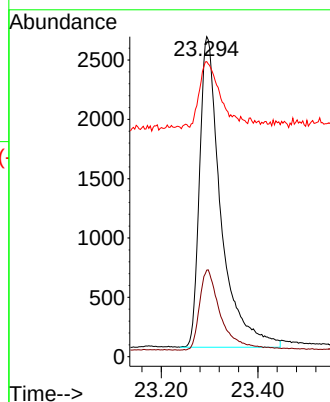
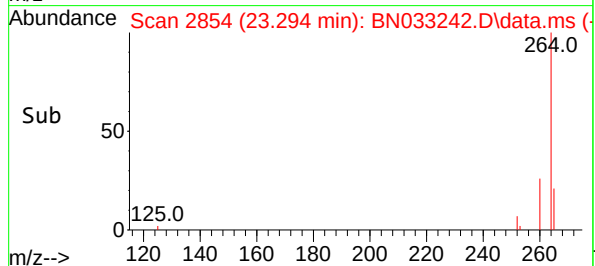
264 100

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

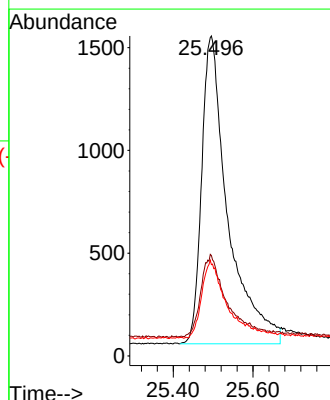
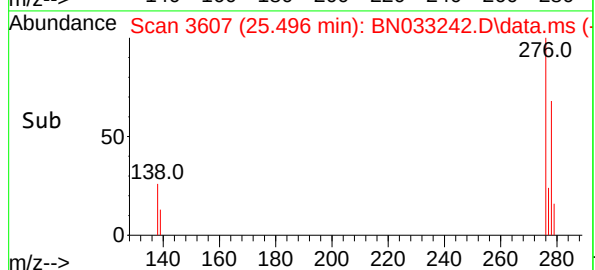
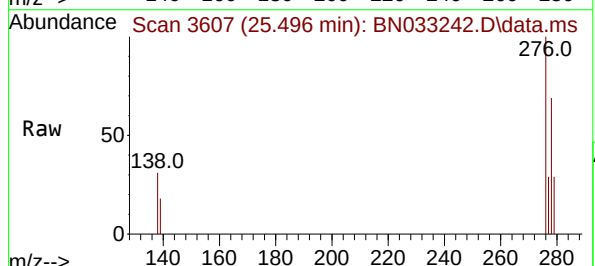
Tgt Ion:276 Resp: 6847

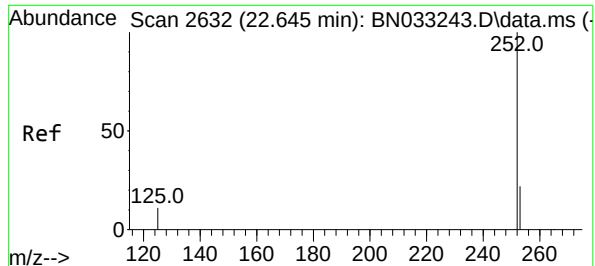
Ion Ratio Lower Upper

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

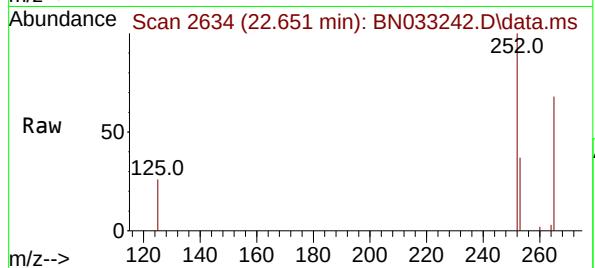
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



Tgt Ion:252 Resp: 4300

Ion Ratio Lower Upper

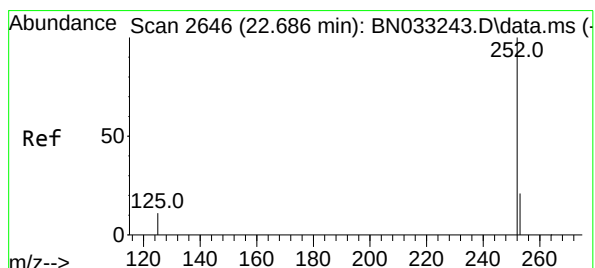
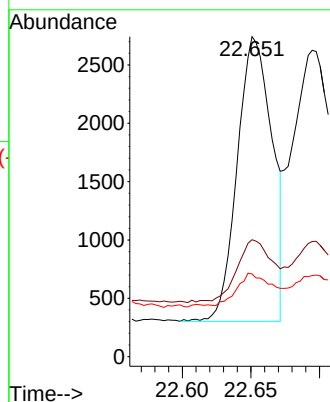
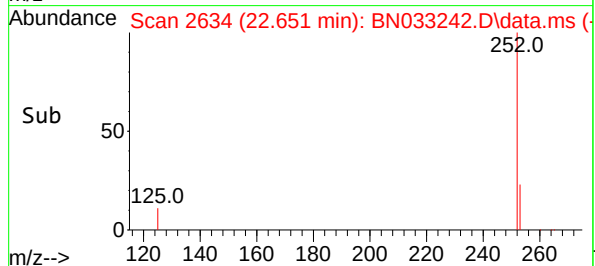
252 100

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

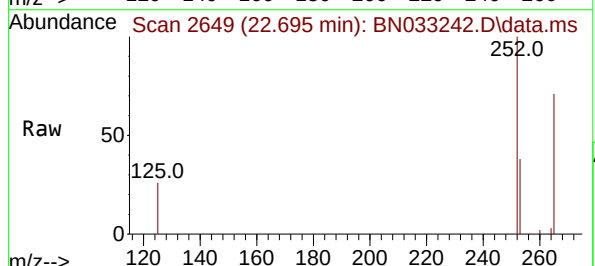
Concen: 0.194 ng m

RT: 22.695 min Scan# 2649

Delta R.T. 0.009 min

Lab File: BN033242.D

Acq: 05 Aug 2024 19:16



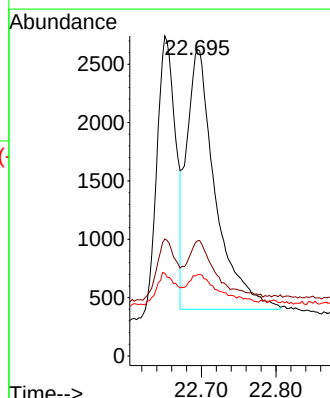
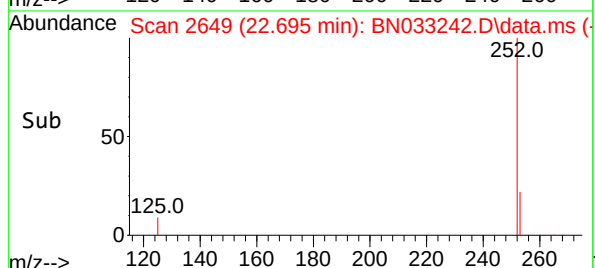
Tgt Ion:252 Resp: 5966

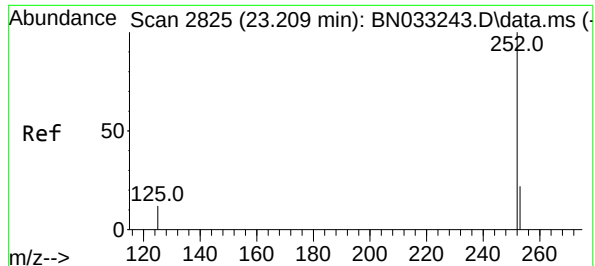
Ion Ratio Lower Upper

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 :

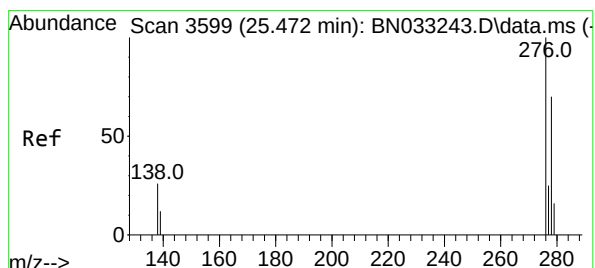
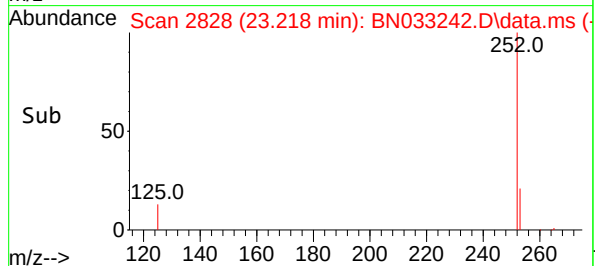
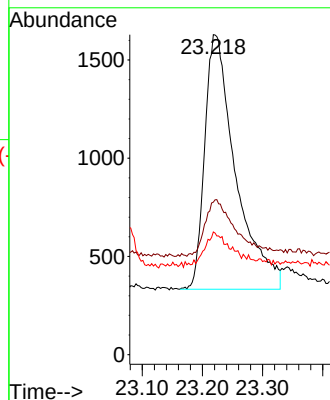
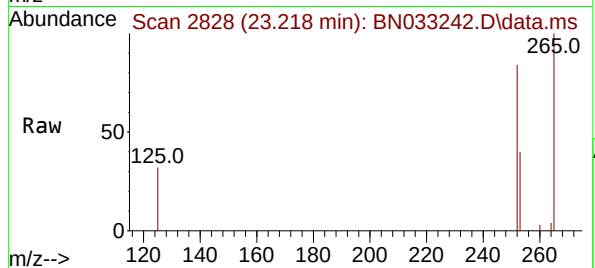
SSTDICC0.2

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

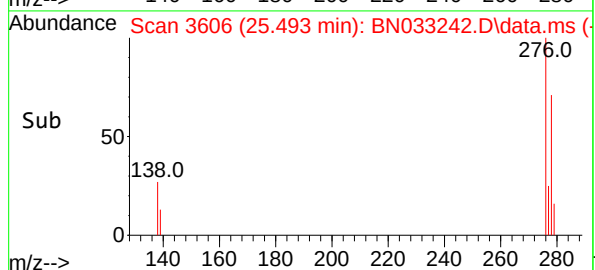
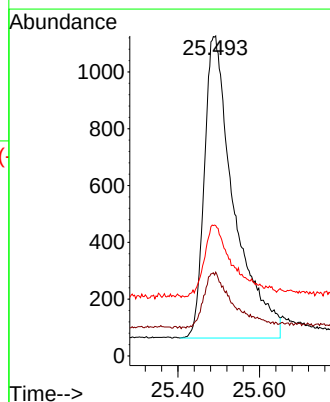
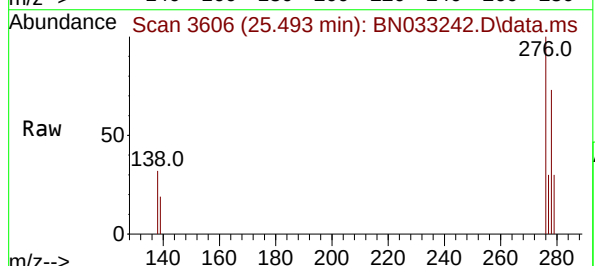
RT: 25.493 min Scan# 3606

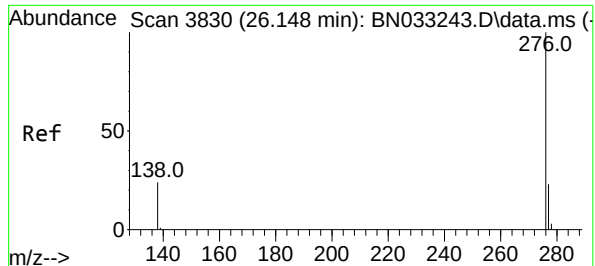
Delta R.T. 0.021 min

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

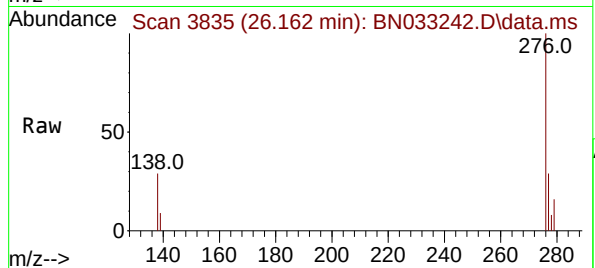
Acq: 05 Aug 2024 19:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6344

Ion Ratio Lower Upper

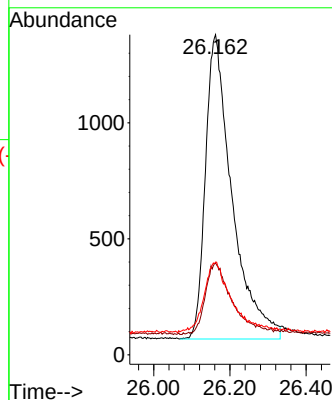
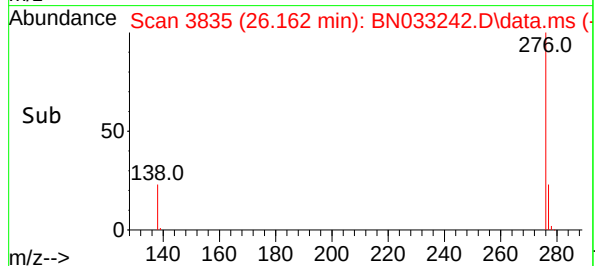
276 100

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

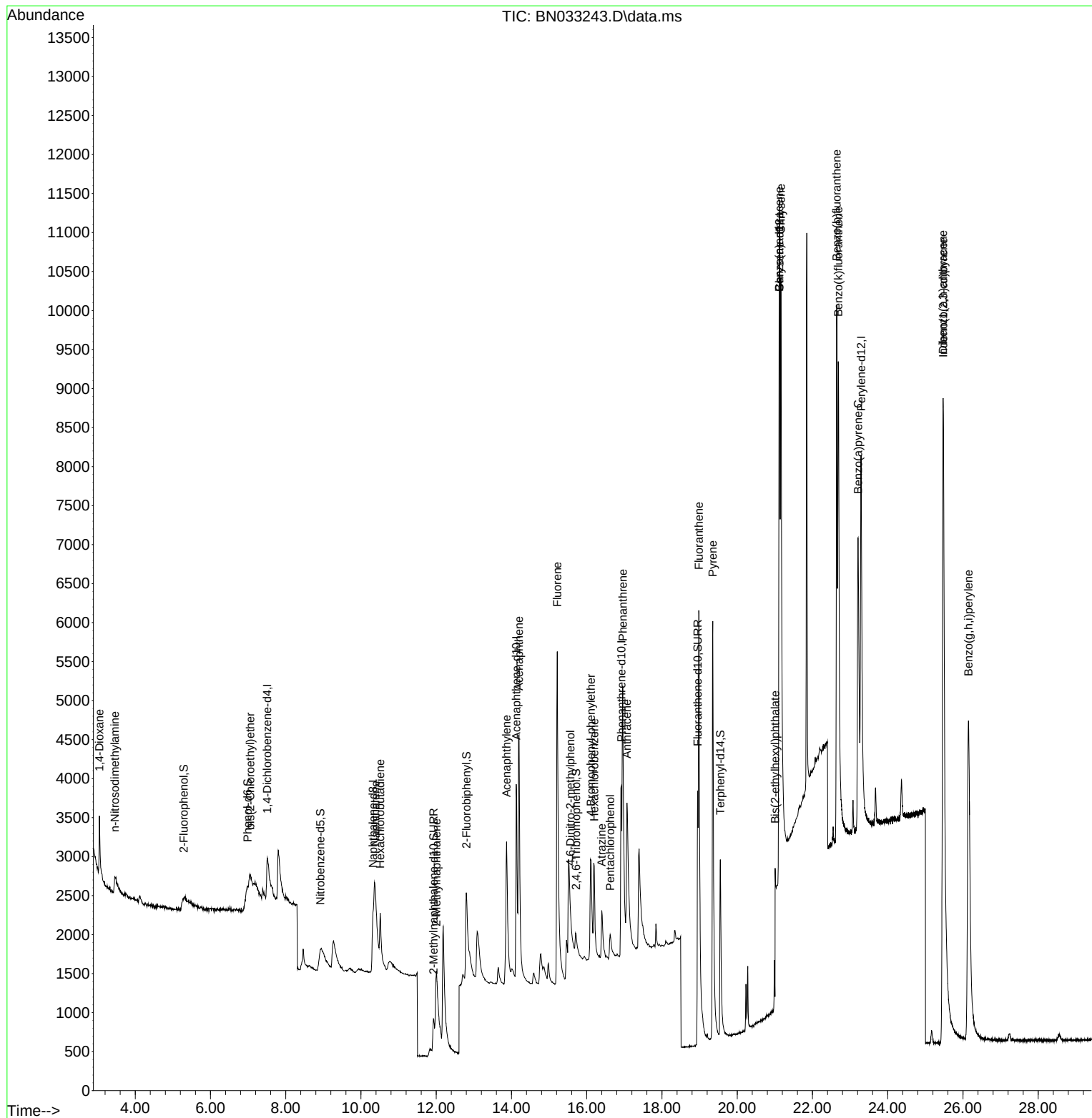
QLast Update : Mon Aug 05 23:33:19 2024

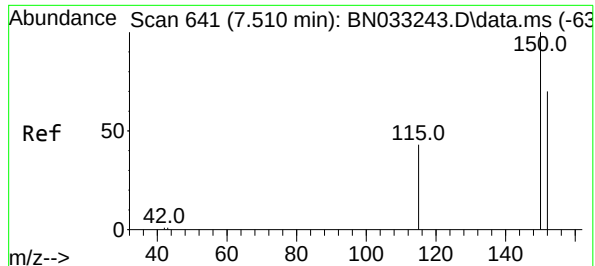
Response via : Initial Calibration

Manual Integrations

APPROVED

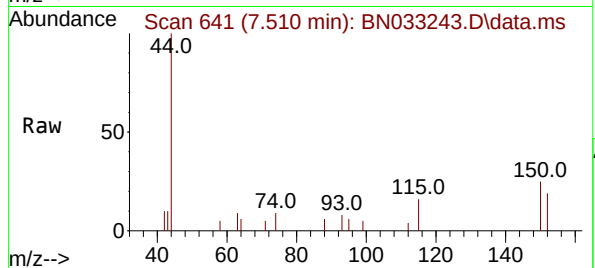
Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024





#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

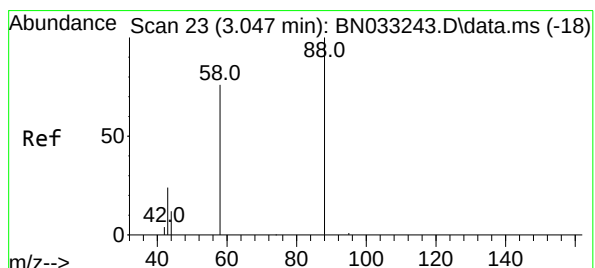
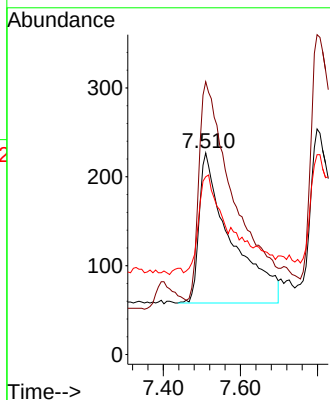
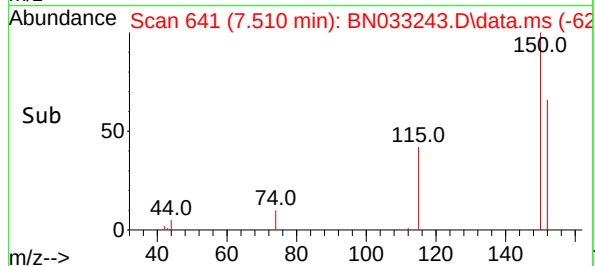
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

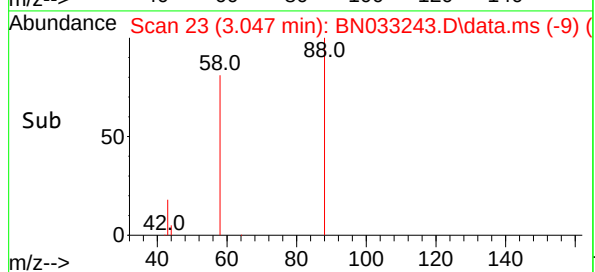
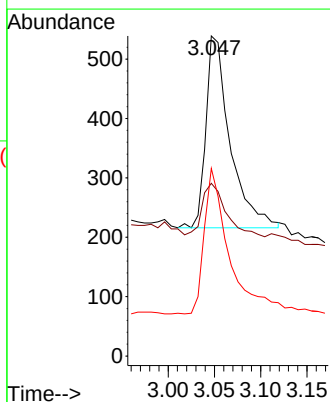
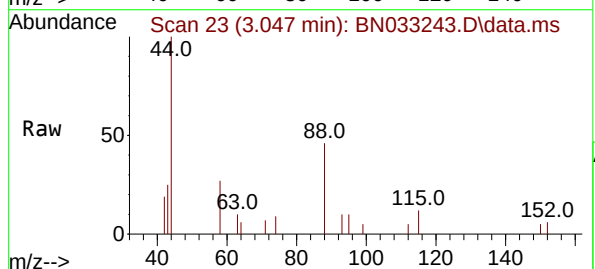
Manual Integrations
APPROVED

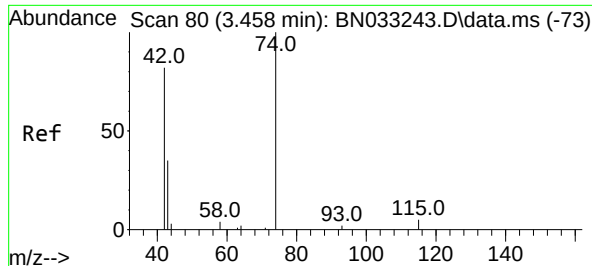
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





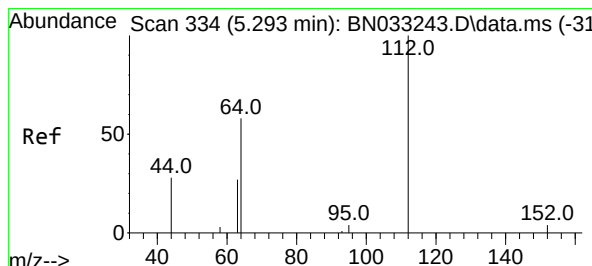
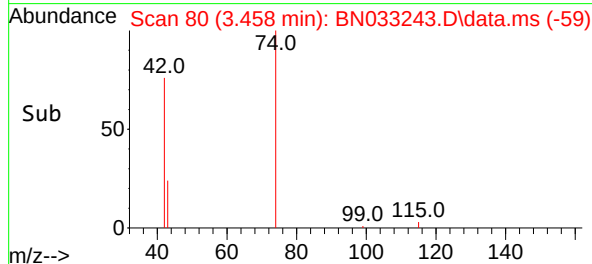
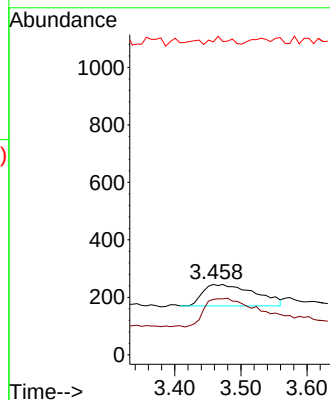
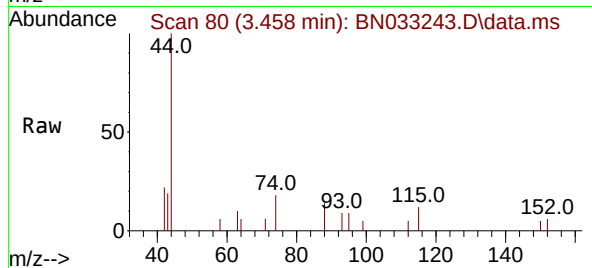
#3
n-Nitrosodimethylamine
Concen: 0.348 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

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

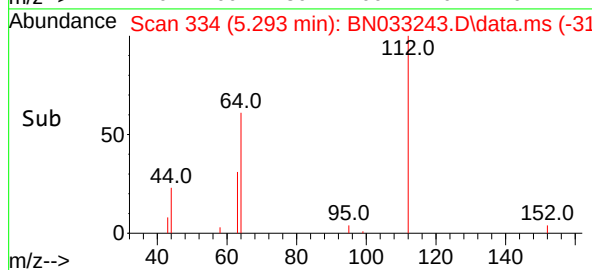
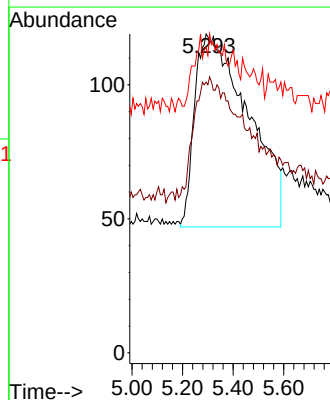
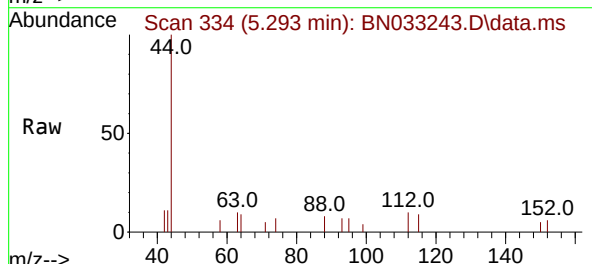
Manual Integrations
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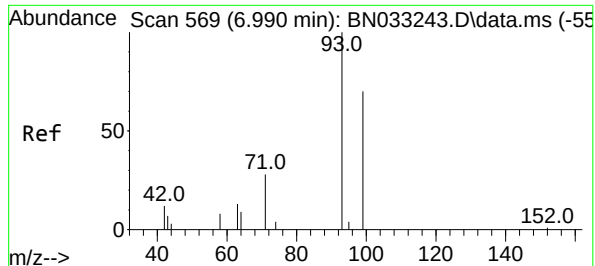
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





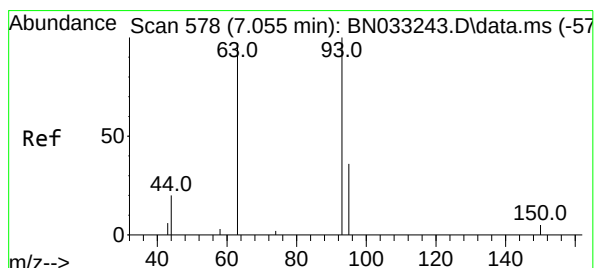
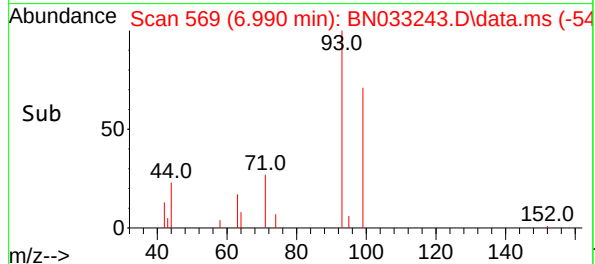
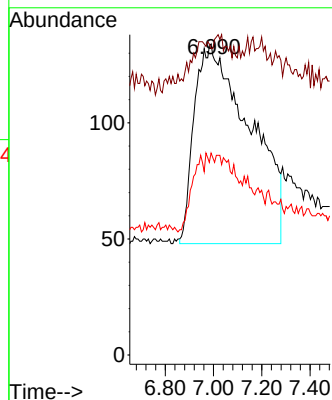
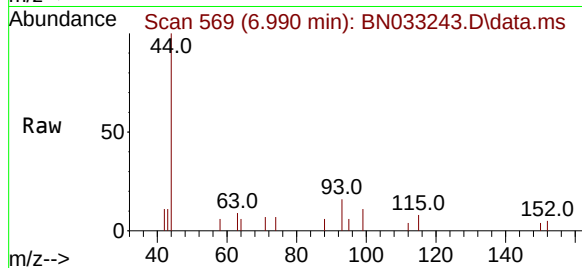
#5
Phenol-d6
Concen: 0.419 ng m
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

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

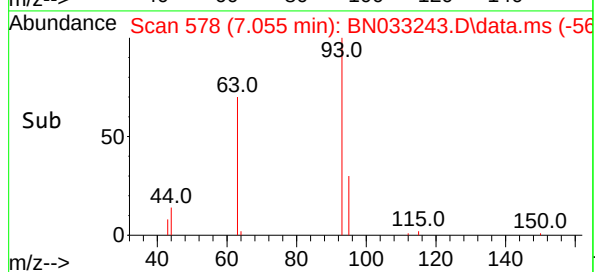
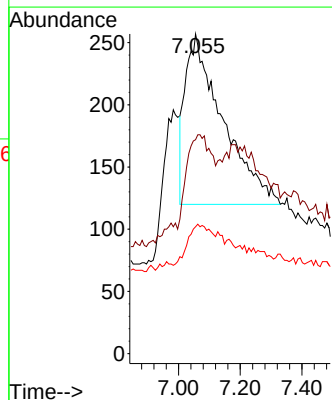
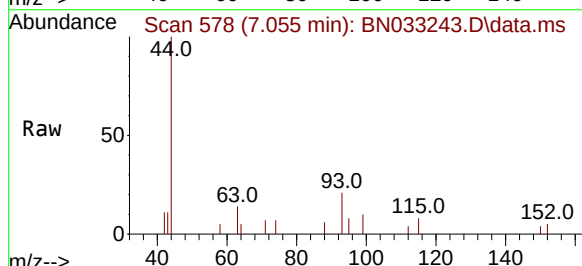
Manual Integrations
APPROVED

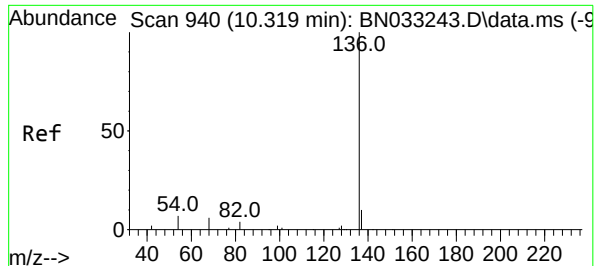
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

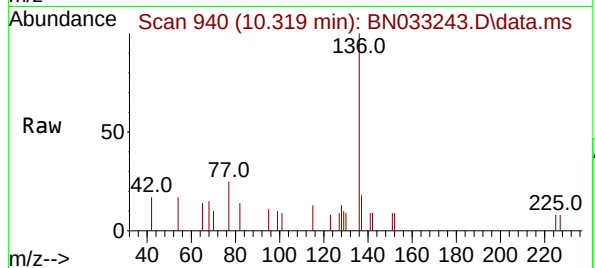
Tgt Ion: 93 Resp: 1156
Ion Ratio Lower Upper
93 100
63 37.0 1.1 1.7#
95 15.4 0.0 0.0#





#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

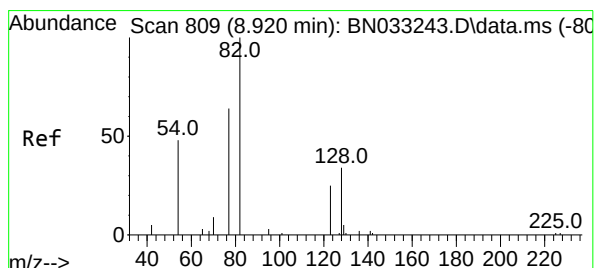
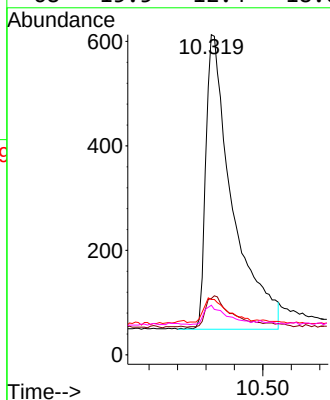
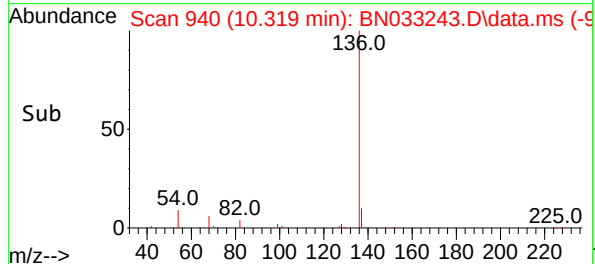
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion	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

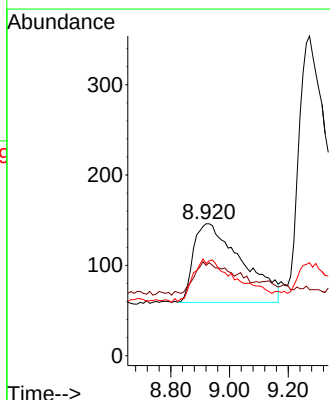
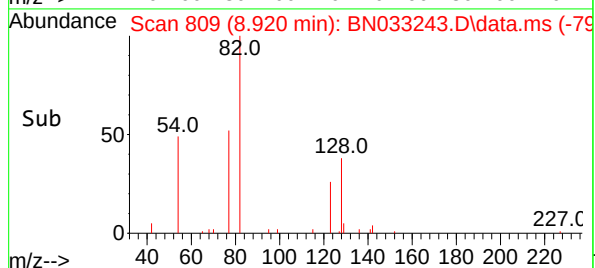
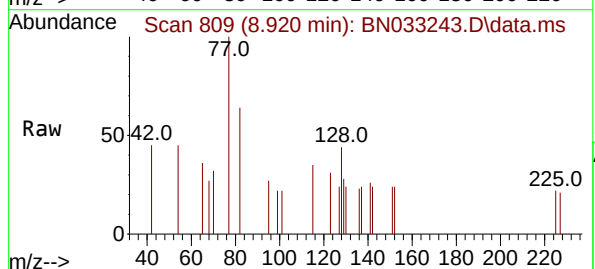
Manual Integrations
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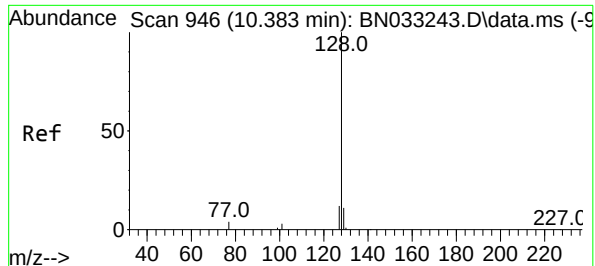
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.336 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	Ratio	Lower	Upper
82	100		
128	68.5	54.8	82.2
54	69.9	55.9	83.9





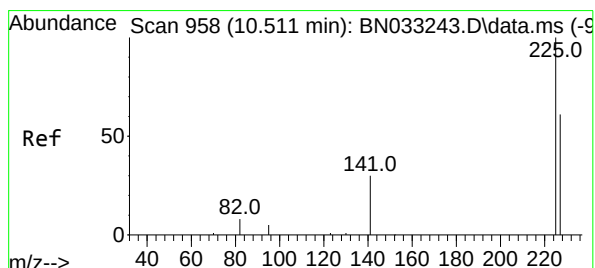
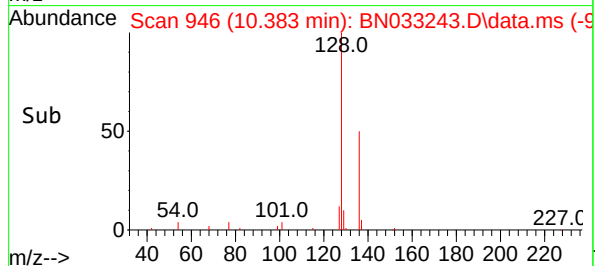
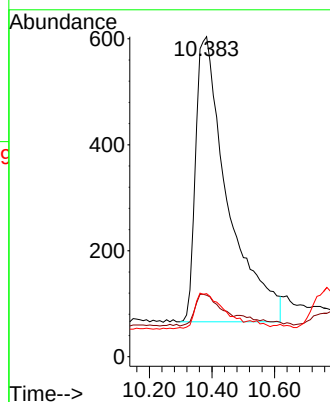
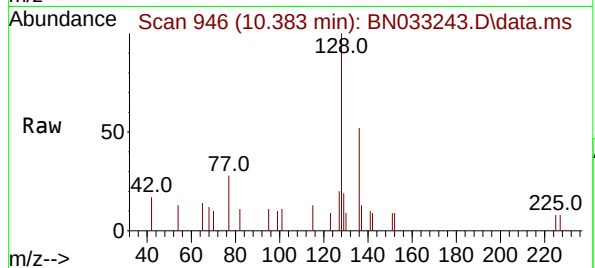
#9
Naphthalene
Concen: 0.386 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

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

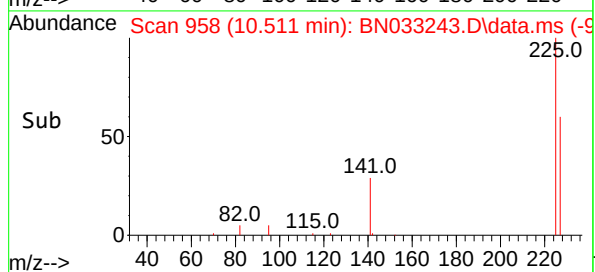
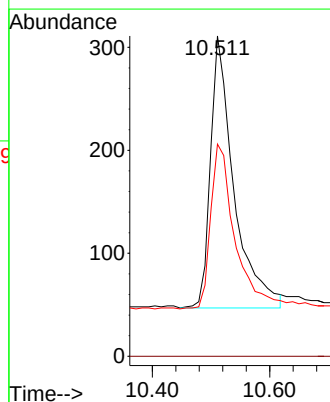
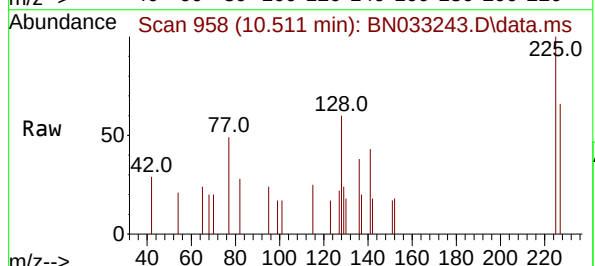
Manual Integrations
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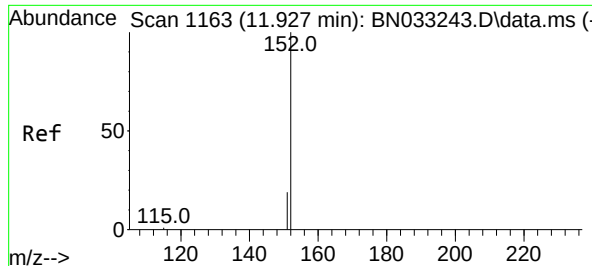
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





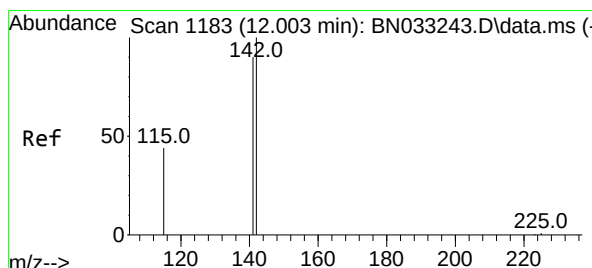
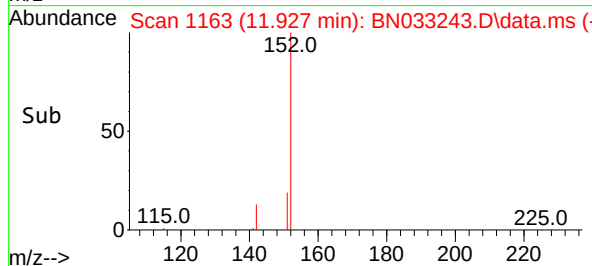
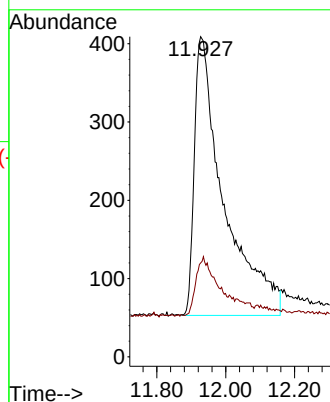
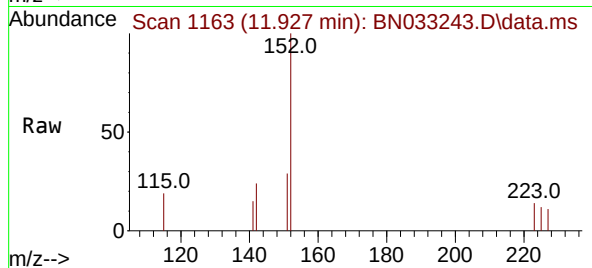
#11
2-Methylnaphthalene-d10
Concen: 0.388 ng
RT: 11.927 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 211
Ion Ratio Lower Upper
152 100
151 14.3 11.9 17.9

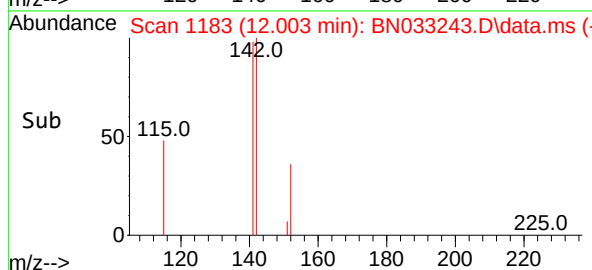
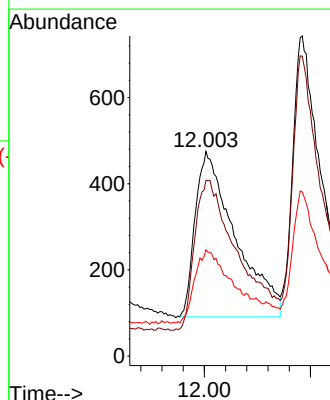
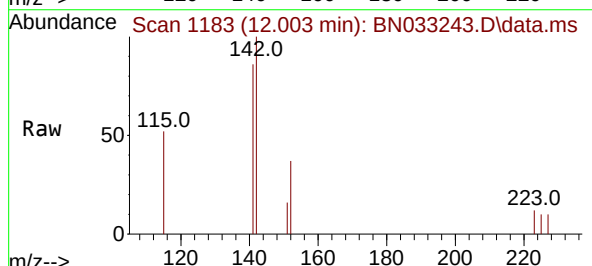
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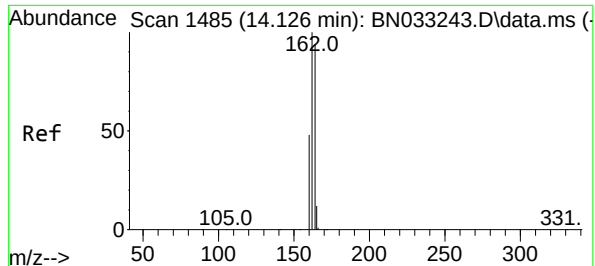
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

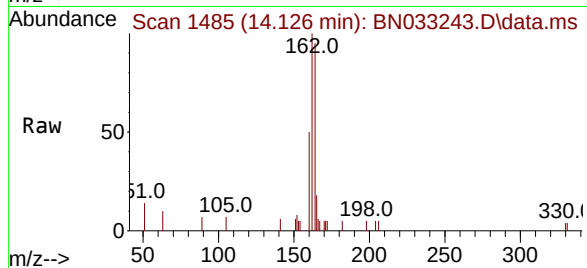
Tgt Ion:142 Resp: 2019
Ion Ratio Lower Upper
142 100
141 85.9 68.7 103.1
115 52.0 41.6 62.4





#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

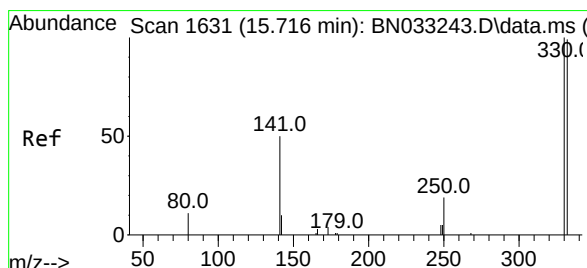
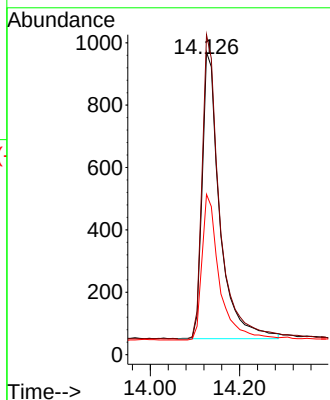
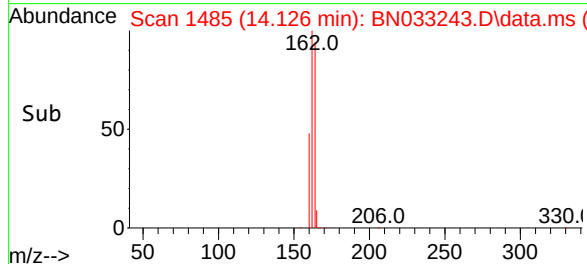
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

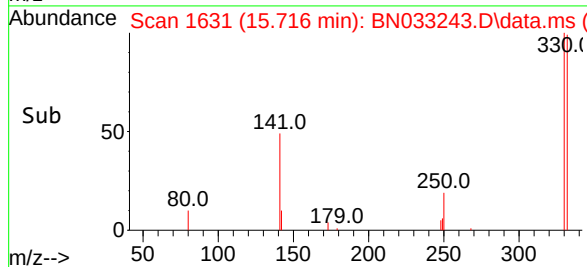
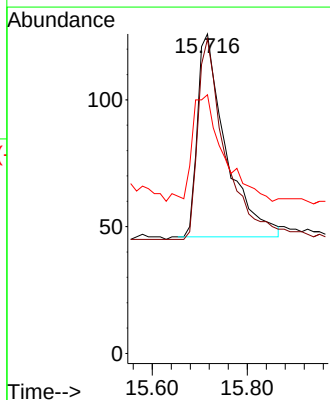
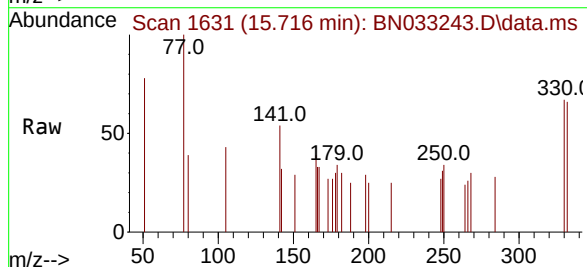
Manual Integrations
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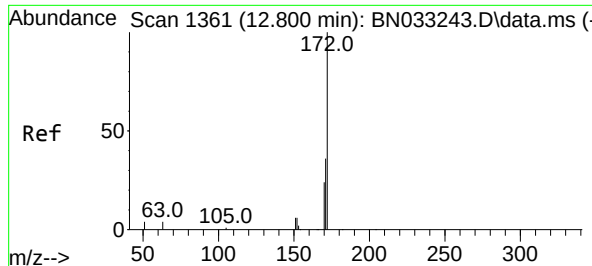
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

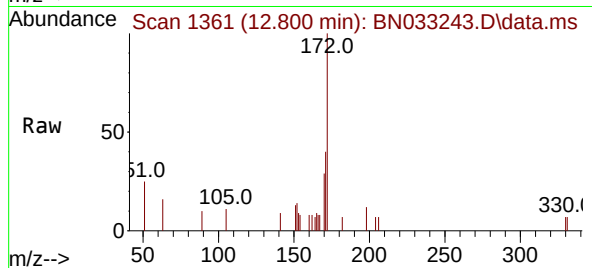
Tgt Ion:330 Resp: 331
Ion Ratio Lower Upper
330 100
332 95.8 73.7 110.5
141 56.8 44.8 67.2





#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

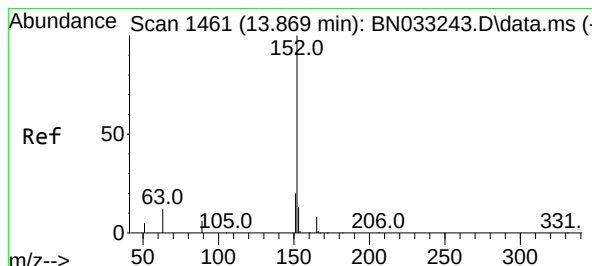
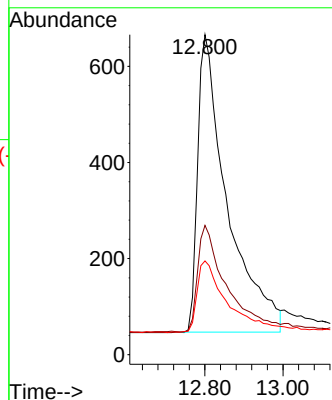
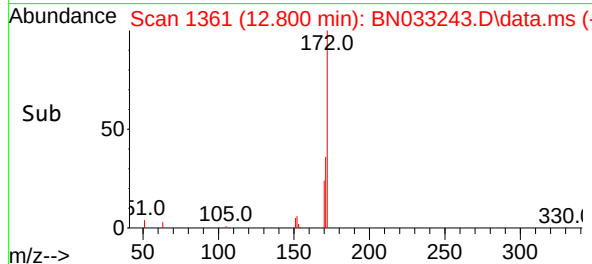
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

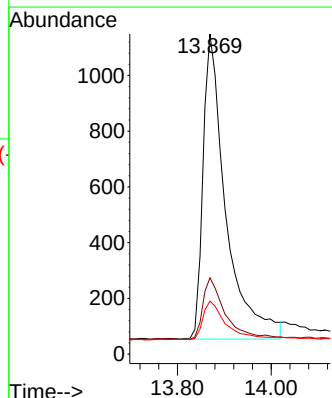
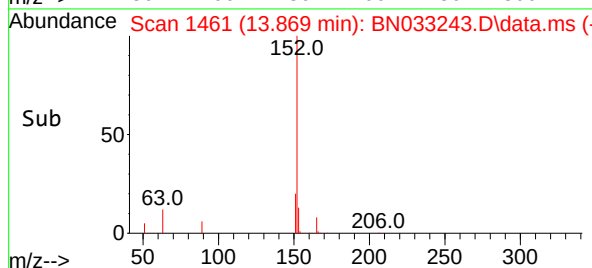
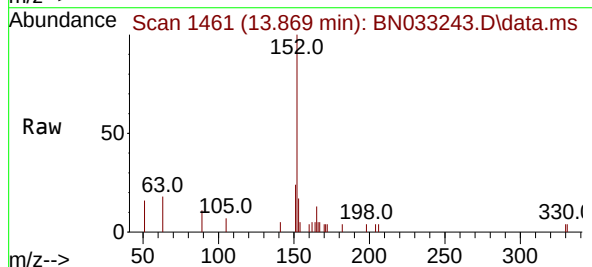
Manual Integrations
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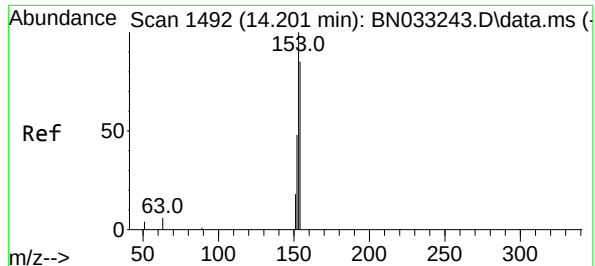
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

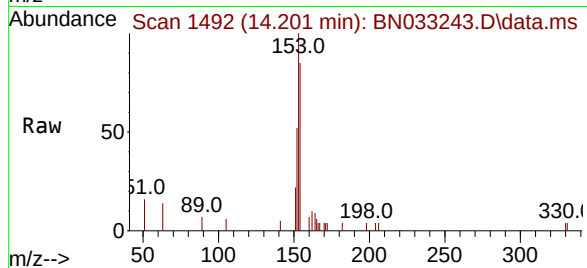
Tgt Ion:152 Resp: 3697
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 12.6 10.2 15.2





#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

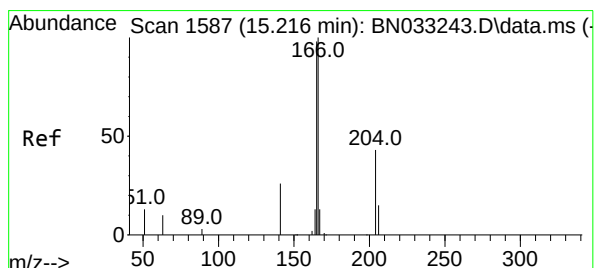
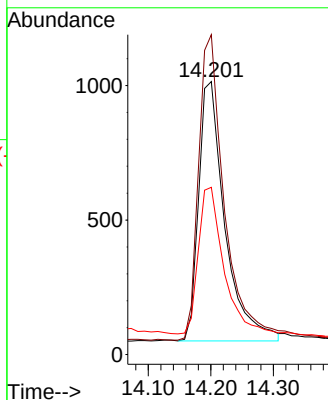
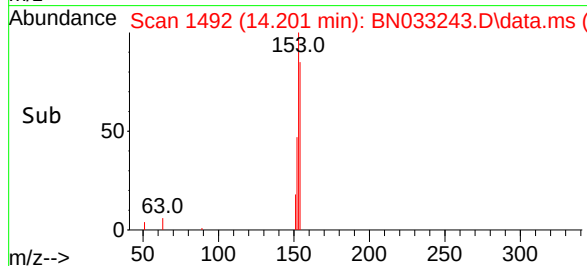
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



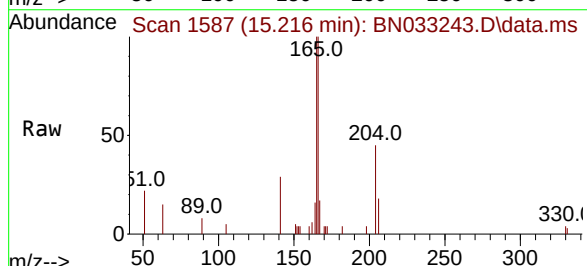
Tgt Ion:154 Resp: 281
Ion Ratio Lower Upper
154 100
153 115.6 92.7 139.1
152 54.6 44.0 66.0

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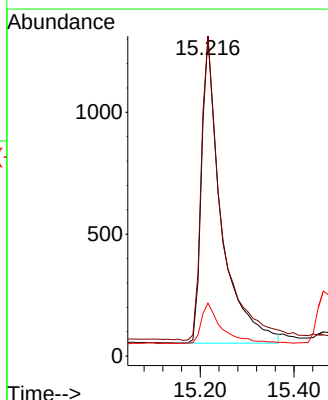
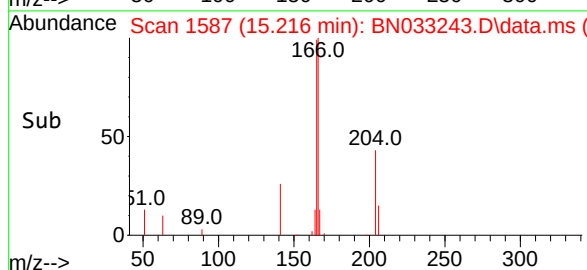
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

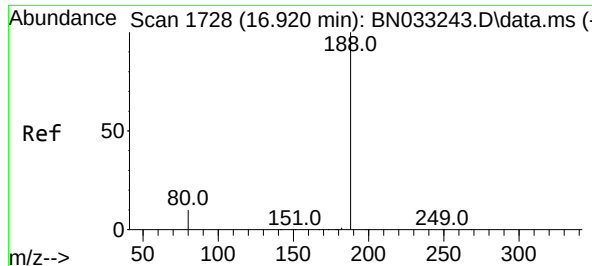


#18
Fluorene
Concen: 0.377 ng
RT: 15.216 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53



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# 1728

Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

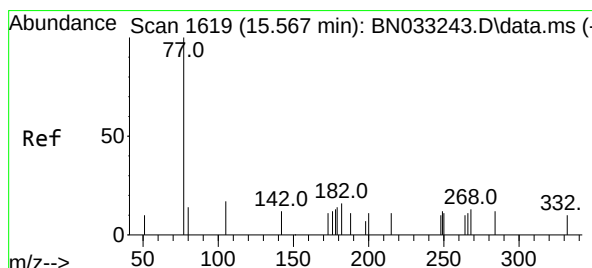
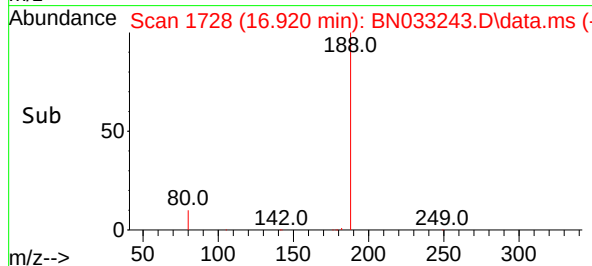
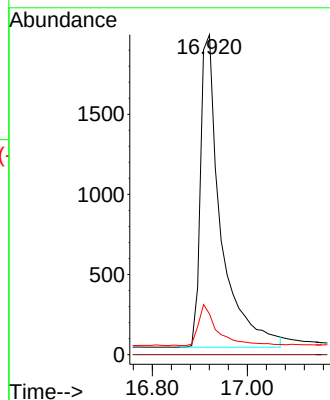
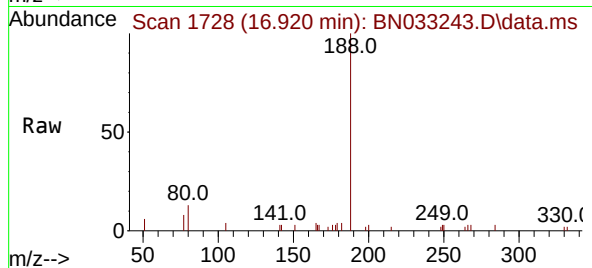
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	188	Resp:	578
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.8	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

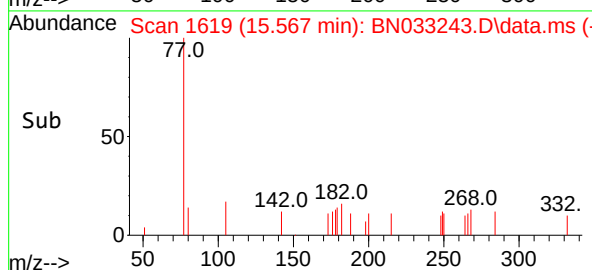
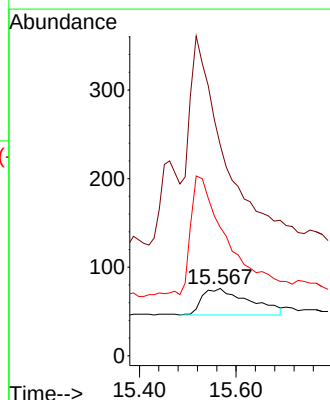
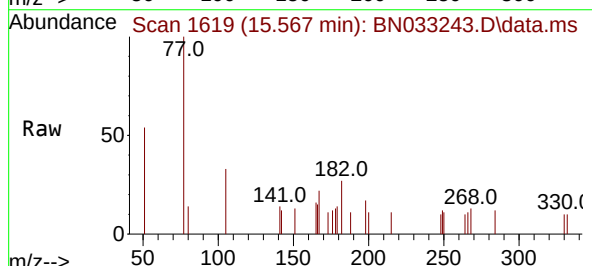
RT: 15.567 min Scan# 1619

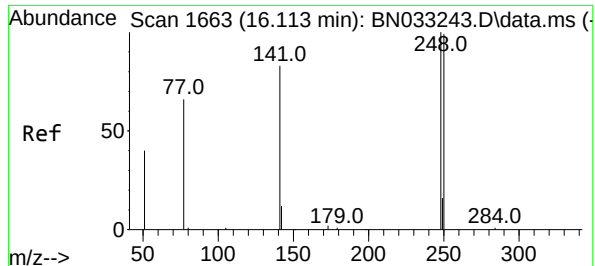
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

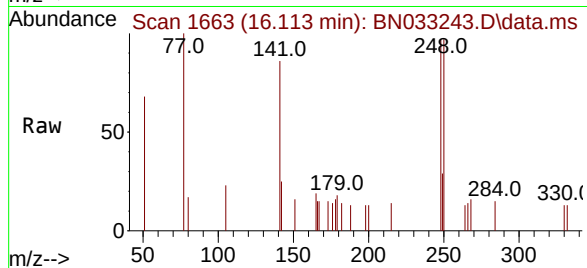
Tgt Ion:	198	Resp:	201
Ion Ratio	Lower	Upper	
198	100		
51	313.2	250.6	375.8
105	190.8	152.6	229.0





#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

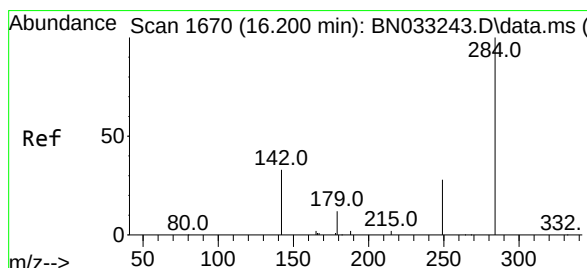
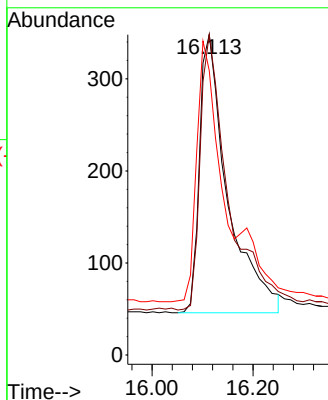
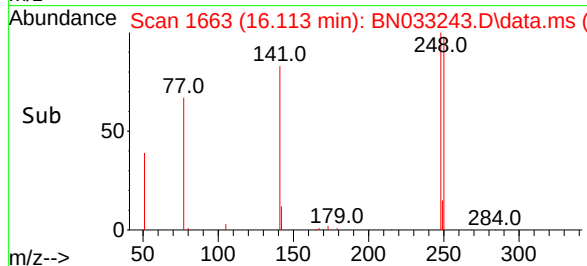
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 248 Resp: 117.0
Ion Ratio Lower Upper
248 100
250 100.0 80.0 120.0
141 88.8 71.0 106.6

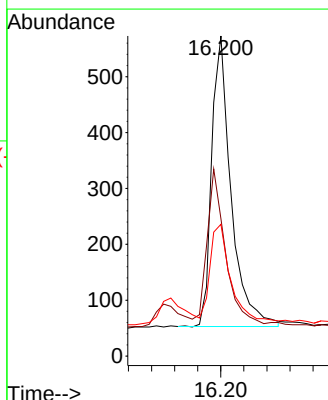
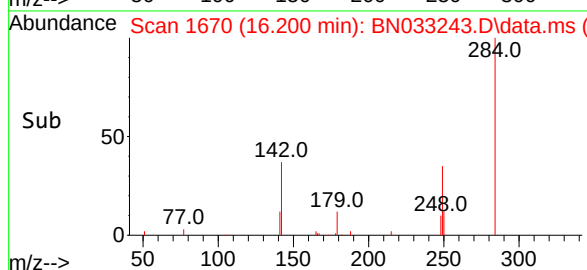
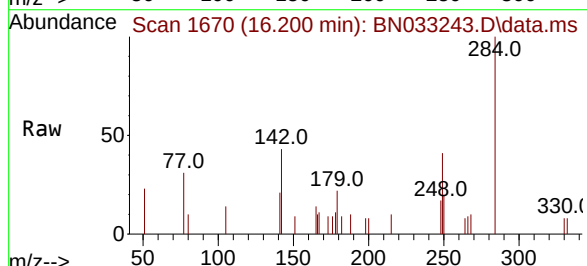
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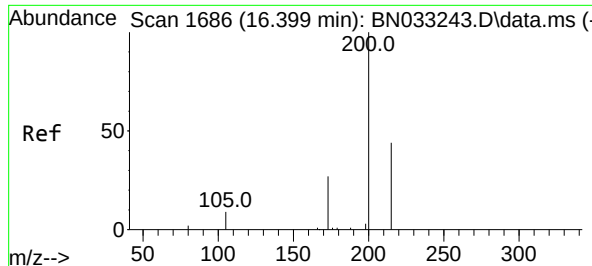
Reviewed By : Jagrut Upadhyay 08/06/2024
Supervised By : mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

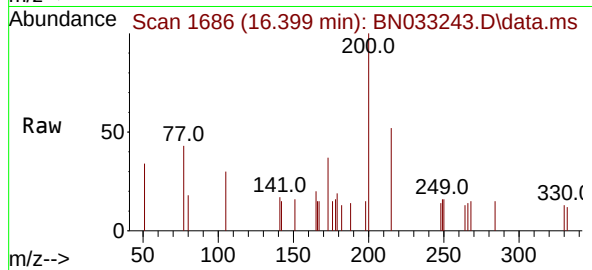
Tgt Ion: 284 Resp: 1211
Ion Ratio Lower Upper
284 100
142 48.5 38.8 58.2
249 34.7 27.8 41.6





#23
Atrazine
Concen: 0.364 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN033243.D
Acq: 05 Aug 2024 19:53

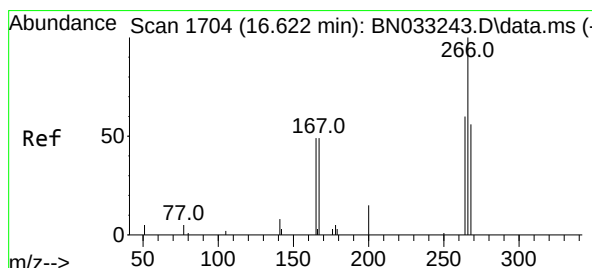
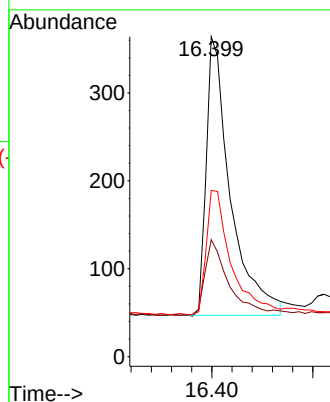
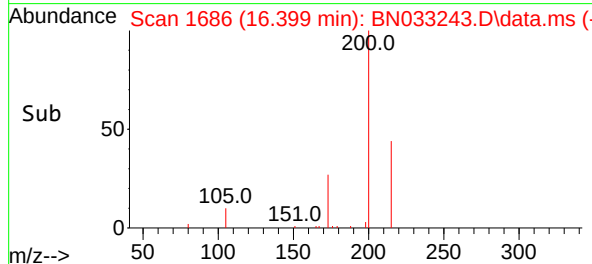
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:200 Resp: 1052
Ion Ratio Lower Upper
200 100
173 36.5 29.2 43.8
215 51.9 41.5 62.3

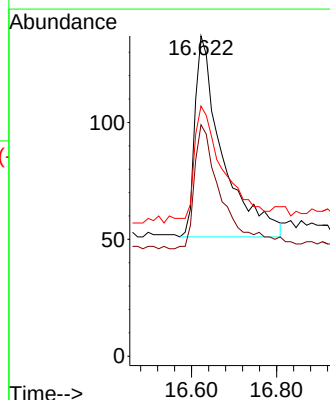
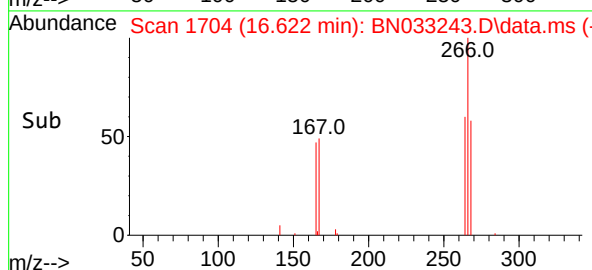
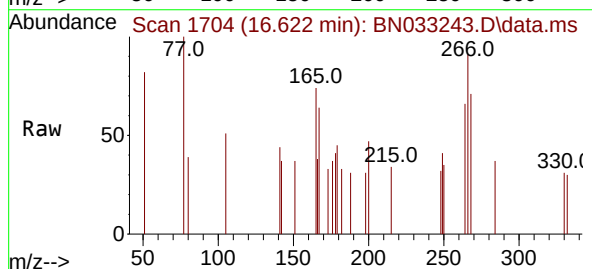
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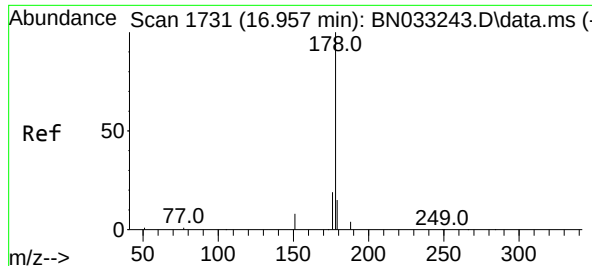
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 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

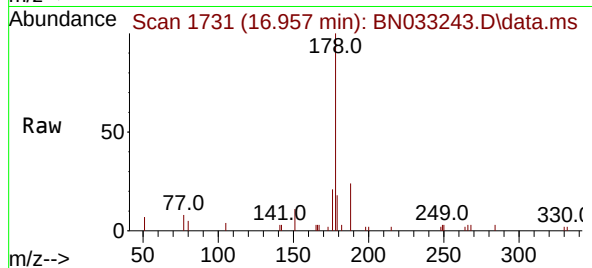
Tgt Ion:266 Resp: 387
Ion Ratio Lower Upper
266 100
264 62.3 49.3 73.9
268 63.3 50.2 75.2





#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

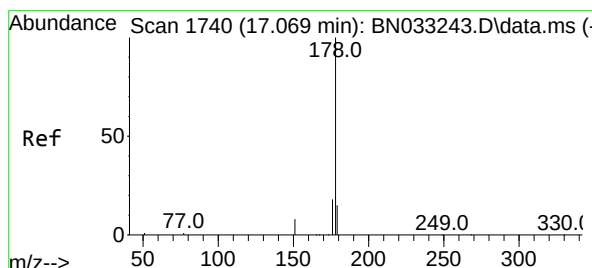
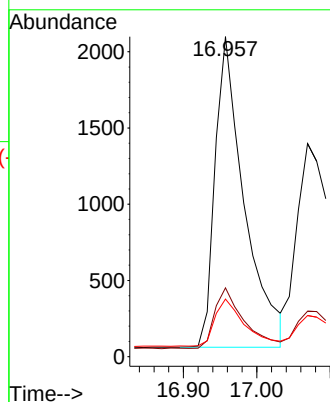
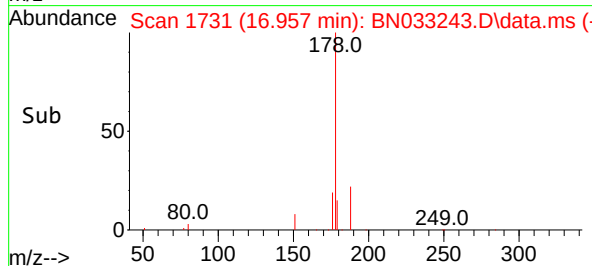
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

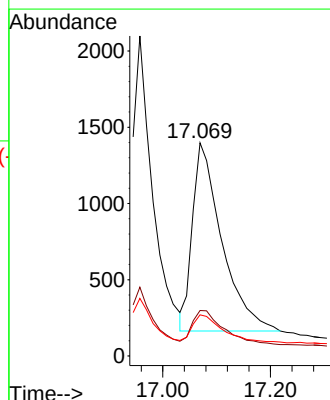
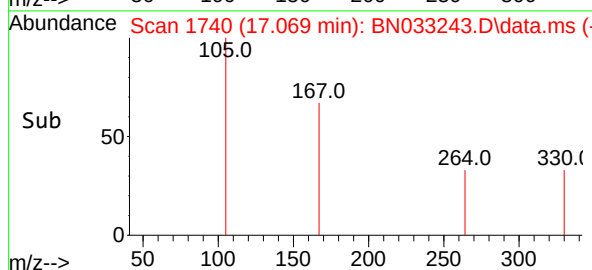
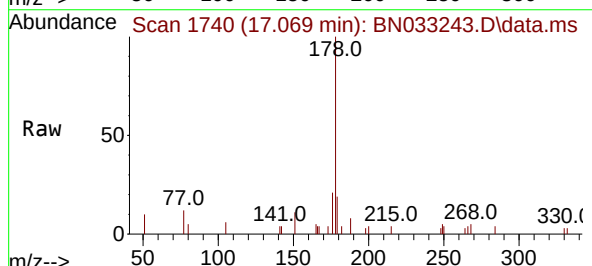
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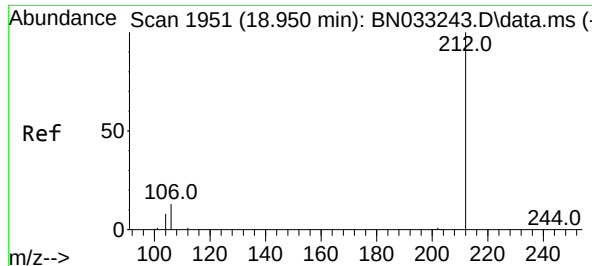
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

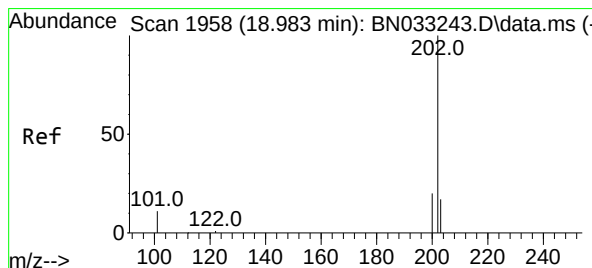
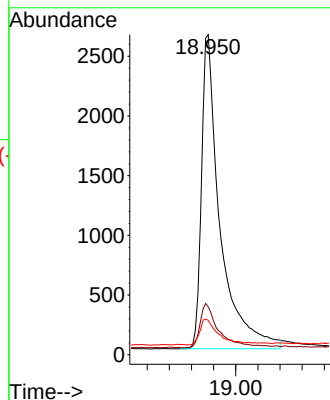
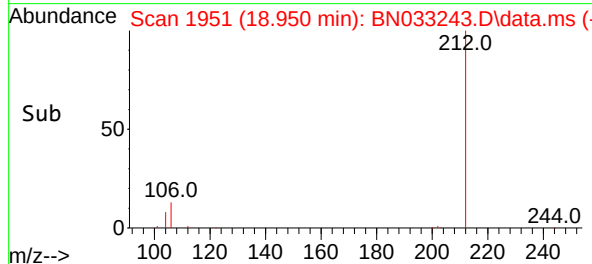
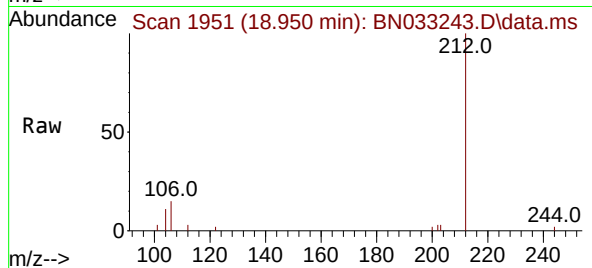
SSTDICCC0.4

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

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.374 ng

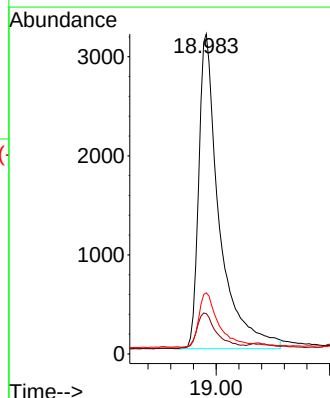
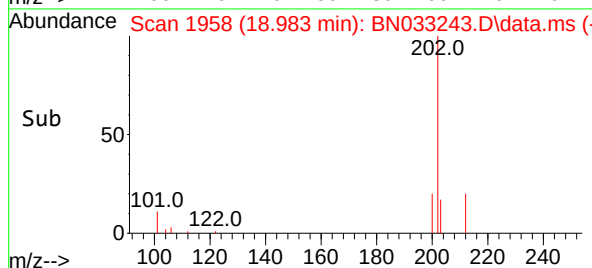
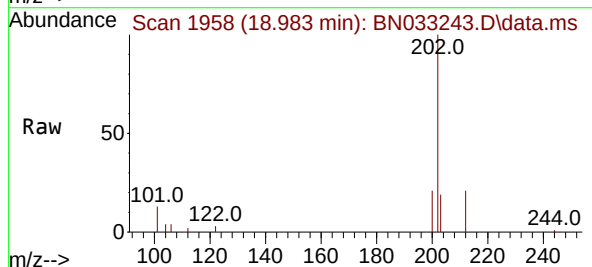
RT: 18.983 min Scan# 1958

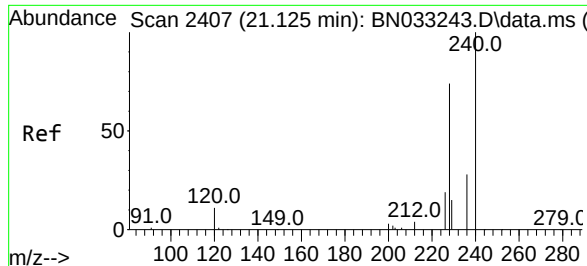
Delta R.T. 0.000 min

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

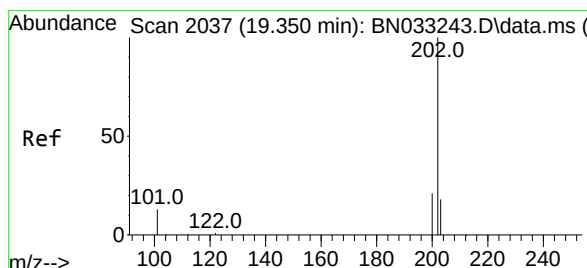
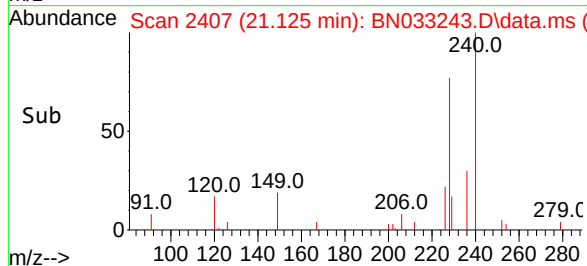
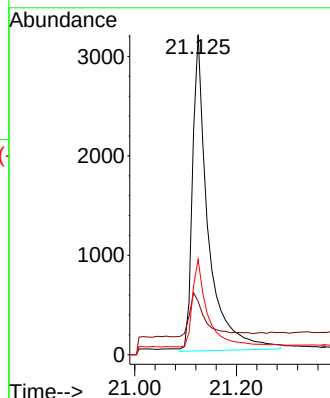
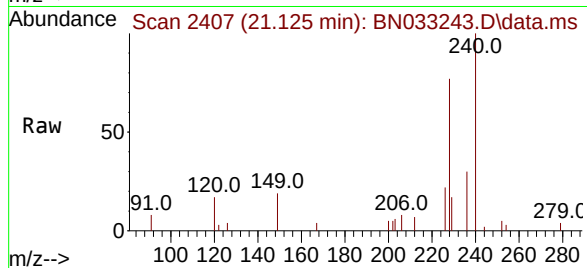
ClientSampleId :

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
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.357 ng

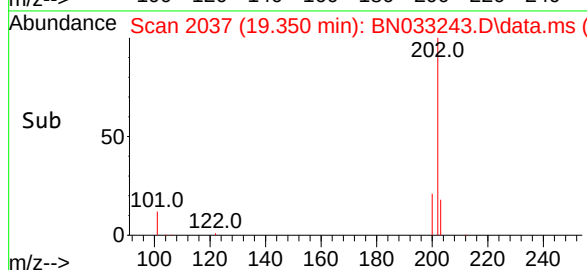
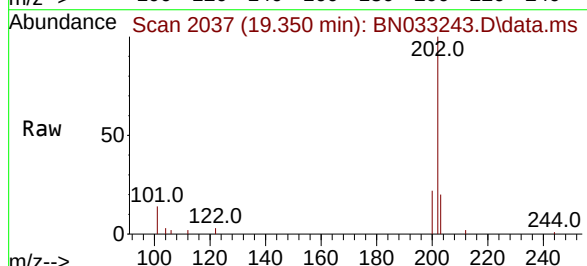
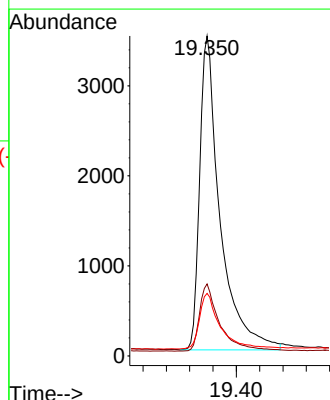
RT: 19.350 min Scan# 2037

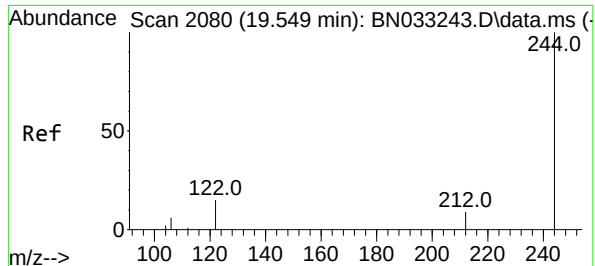
Delta R.T. 0.000 min

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 :

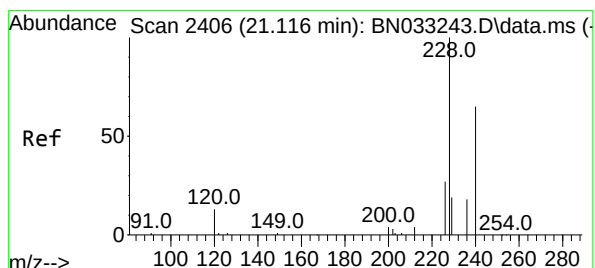
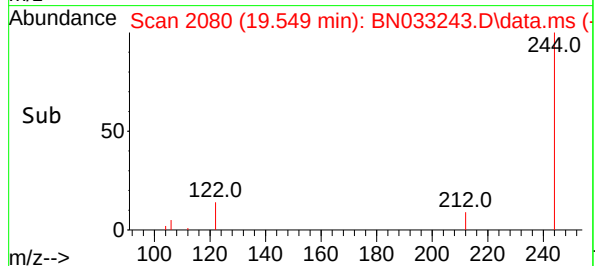
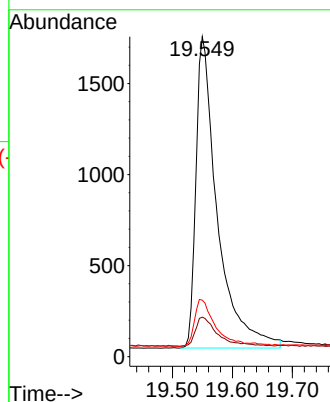
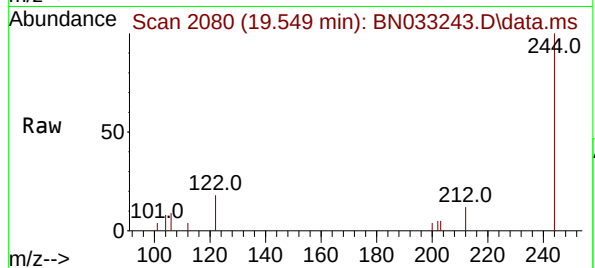
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.9	14.9
122	17.6	14.1	21.1

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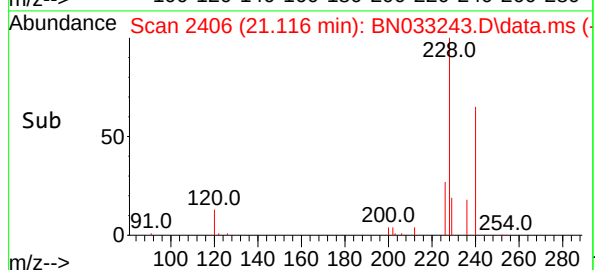
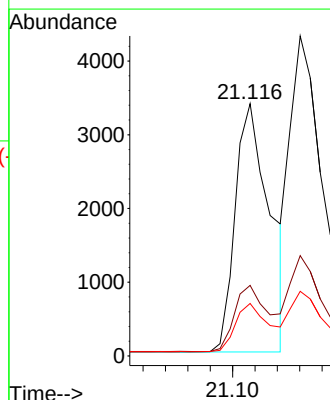
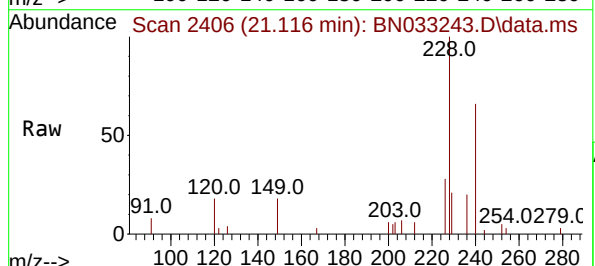
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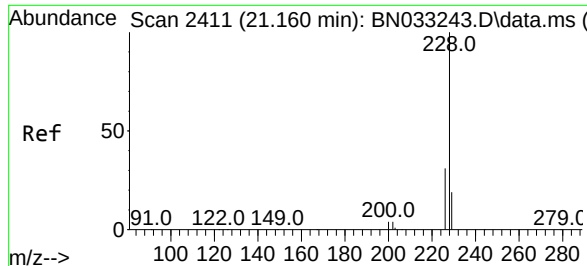
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

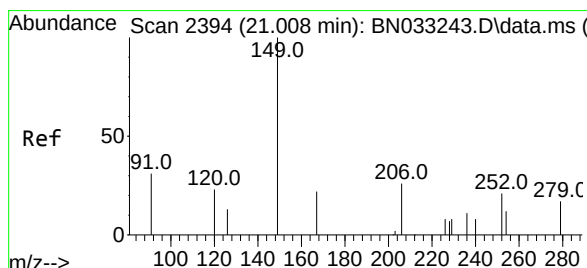
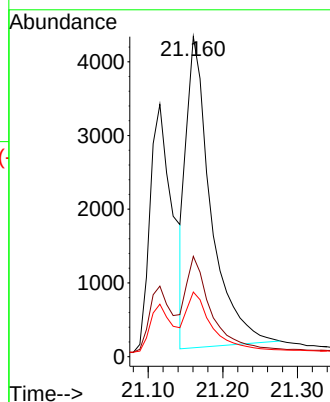
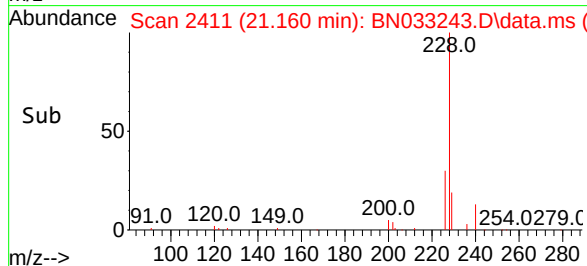
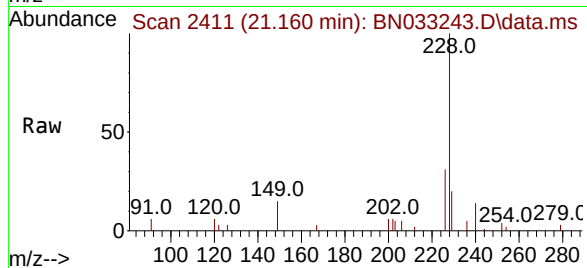
ClientSampleId :

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
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.304 ng

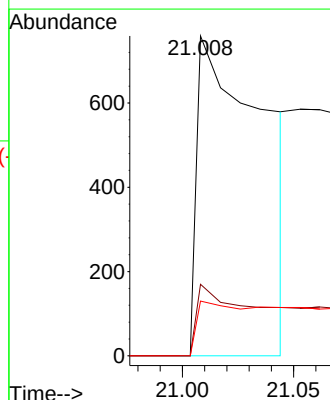
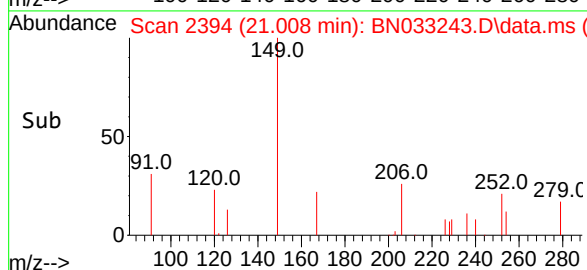
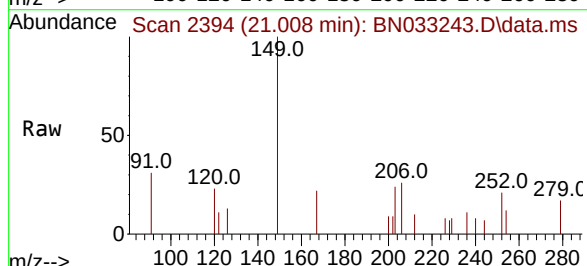
RT: 21.008 min Scan# 2394

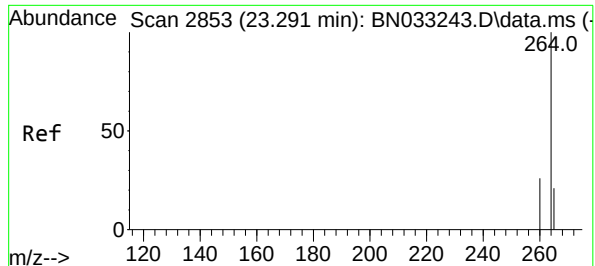
Delta R.T. 0.000 min

Lab File: BN033243.D

Acq: 05 Aug 2024 19:53

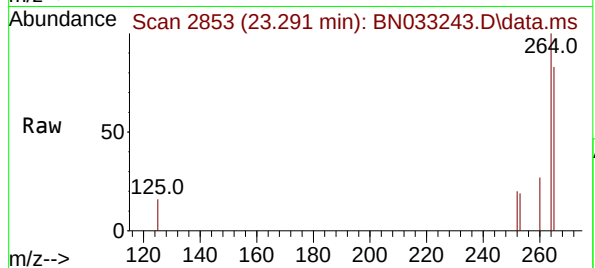
Tgt Ion:	149	Resp:	1425
Ion Ratio	Lower	Upper	
149	100		
167	24.7	19.8	29.6
279	10.3	8.2	12.4





#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

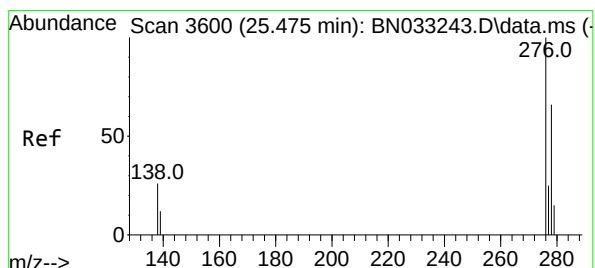
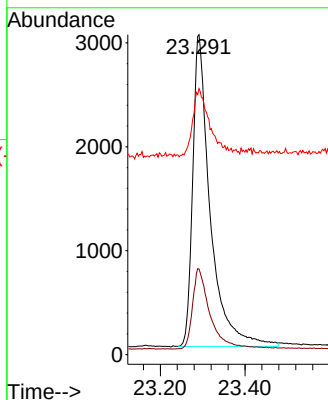
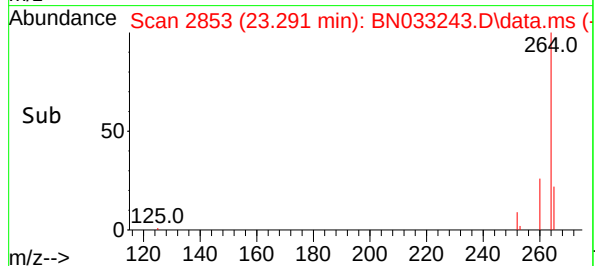
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

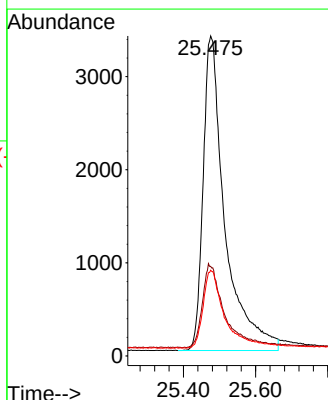
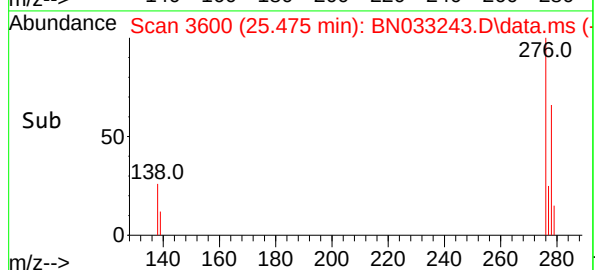
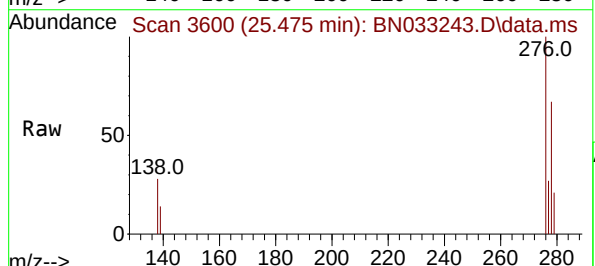
Manual Integrations
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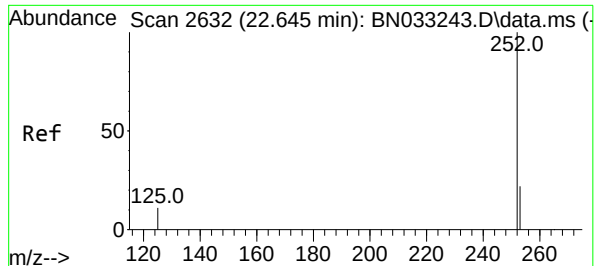
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

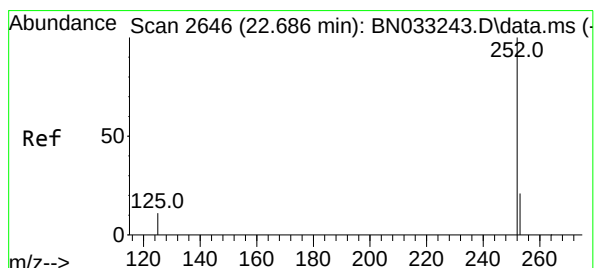
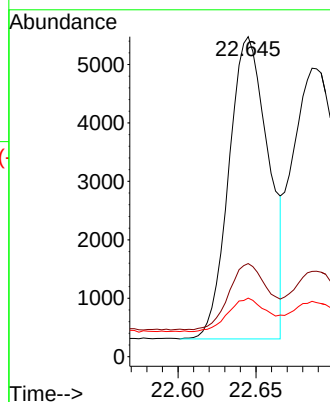
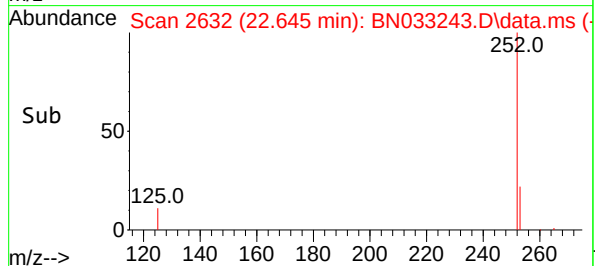
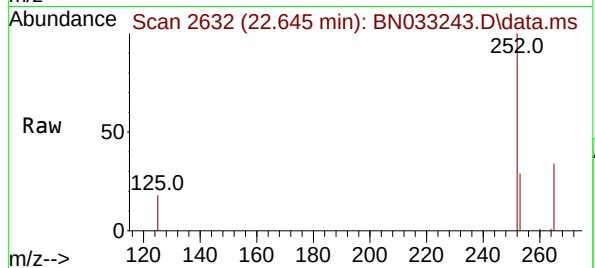
SSTDICCC0.4

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

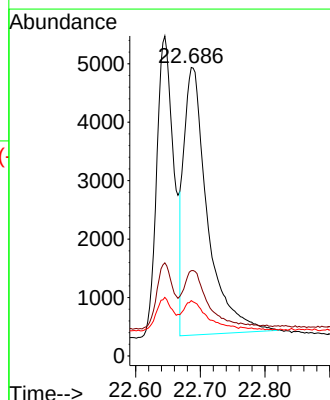
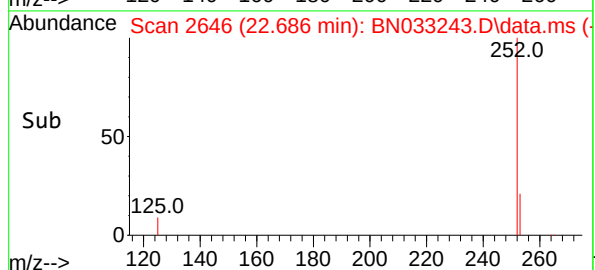
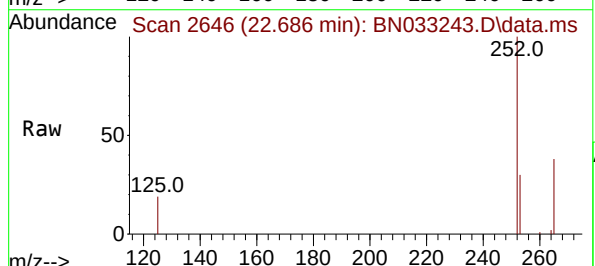
RT: 22.686 min Scan# 2646

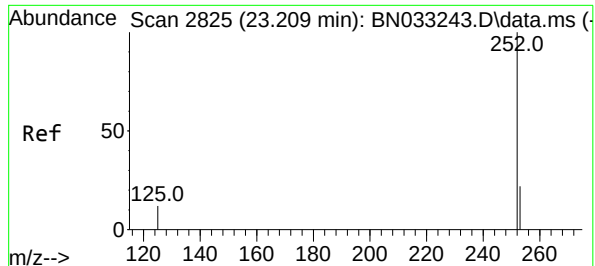
Delta R.T. 0.000 min

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 :

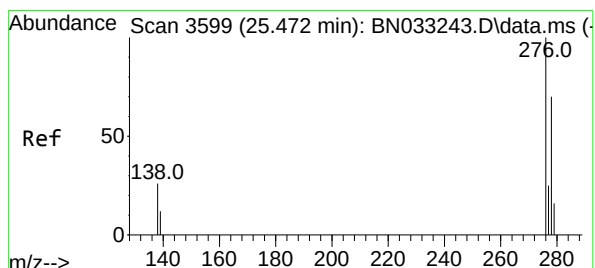
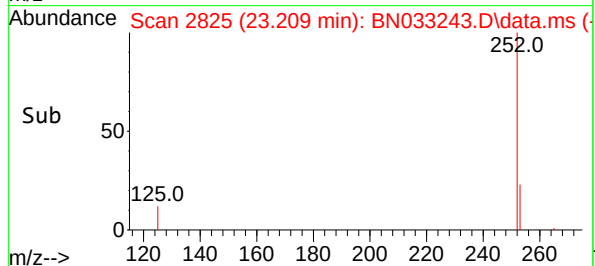
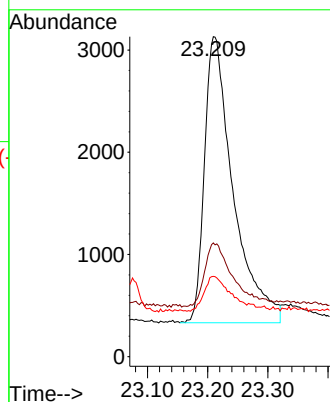
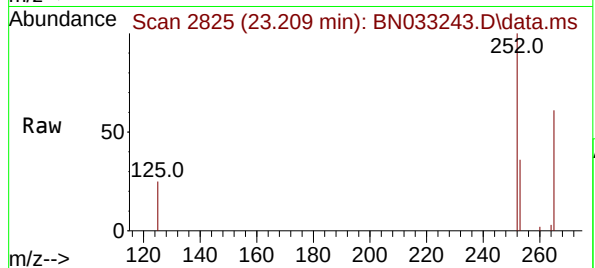
SSTDICCC0.4

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

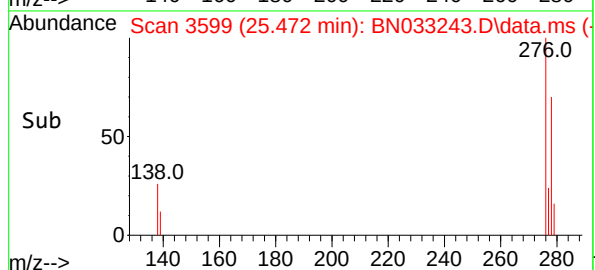
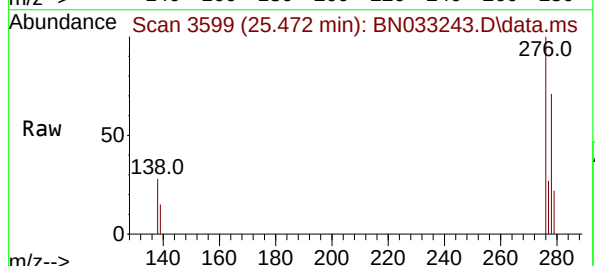
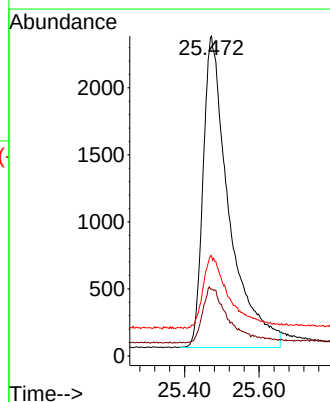
RT: 25.472 min Scan# 3599

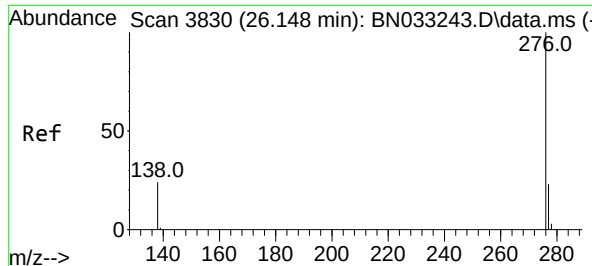
Delta R.T. 0.000 min

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

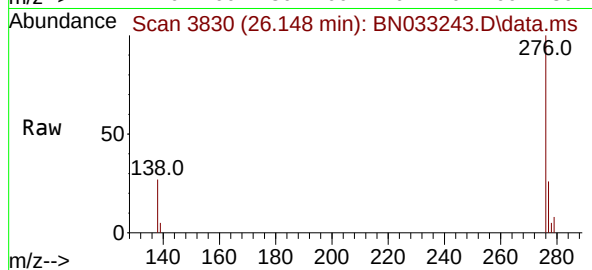
Acq: 05 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 1320

Ion Ratio Lower Upper

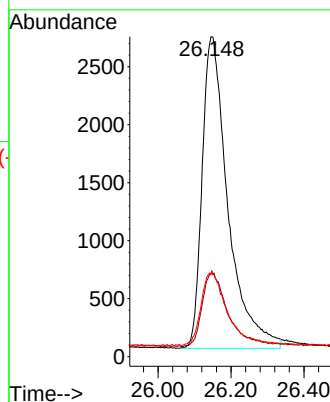
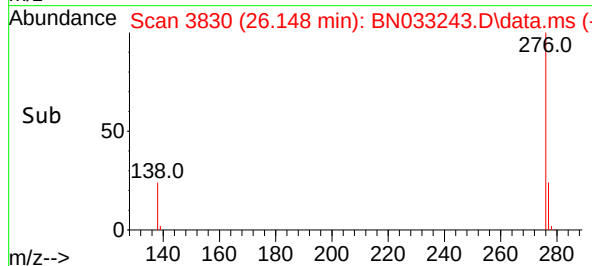
276 100

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 :

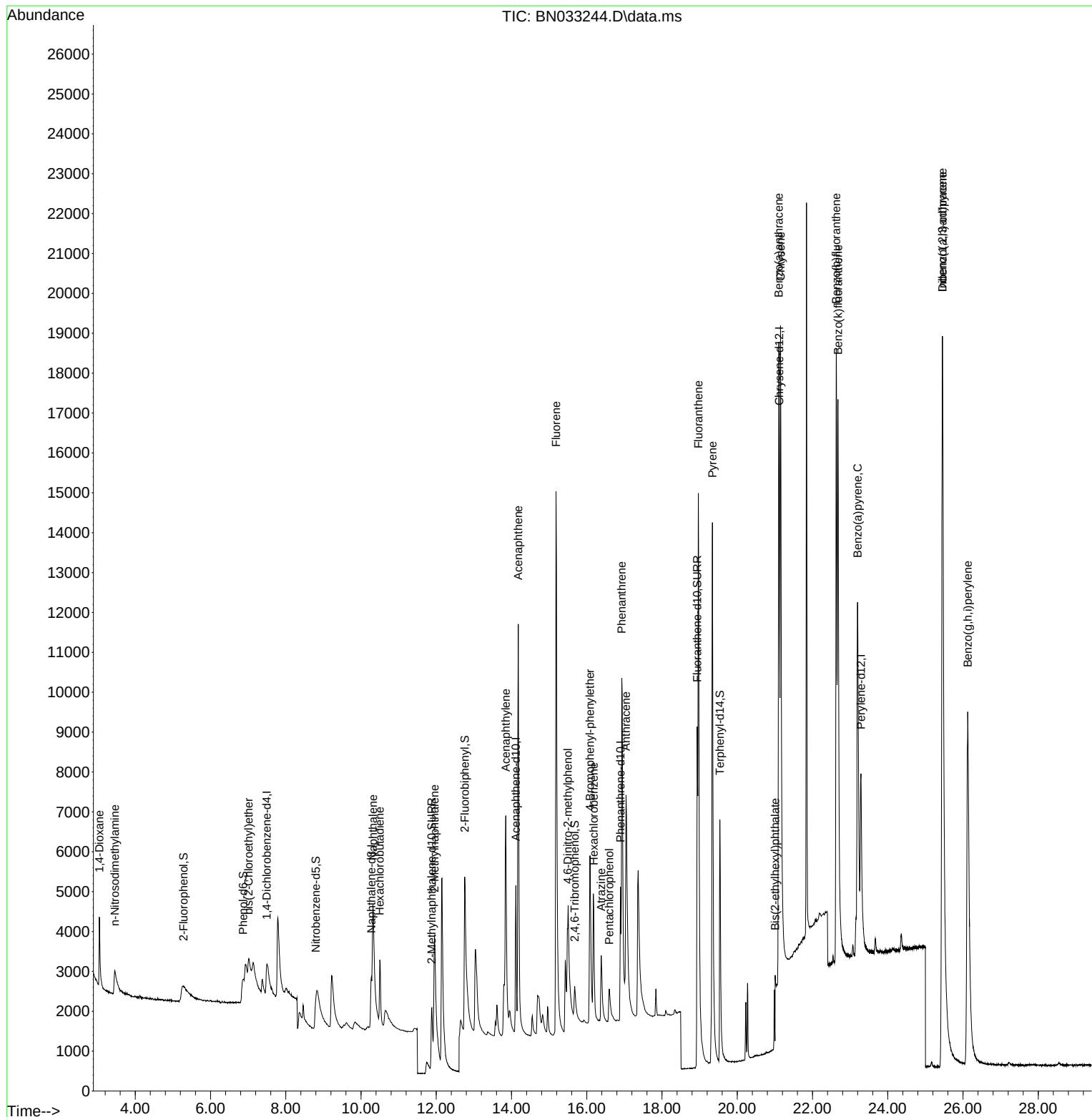
SSTDICC0.8

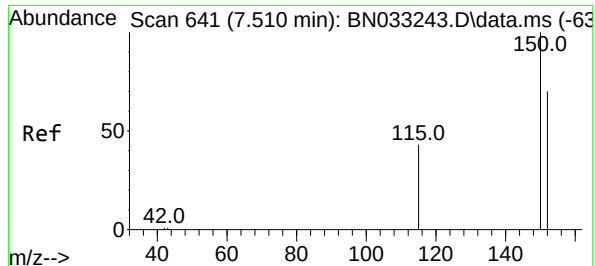
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

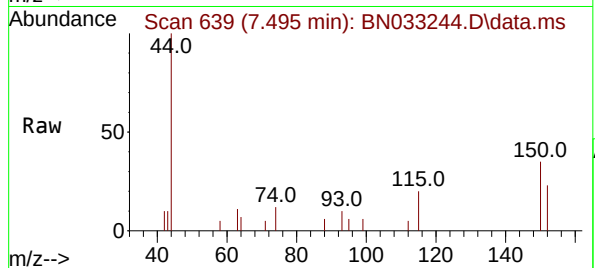
Quant Time: Aug 05 23:42:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#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

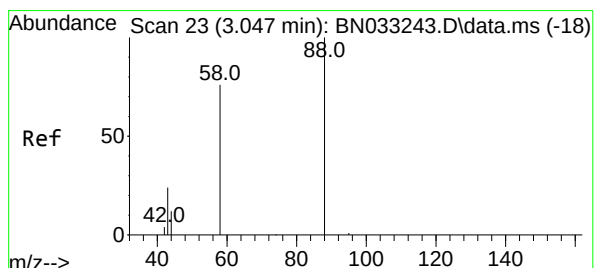
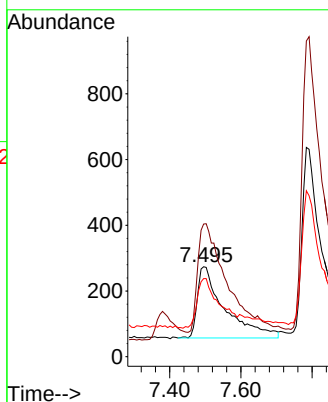
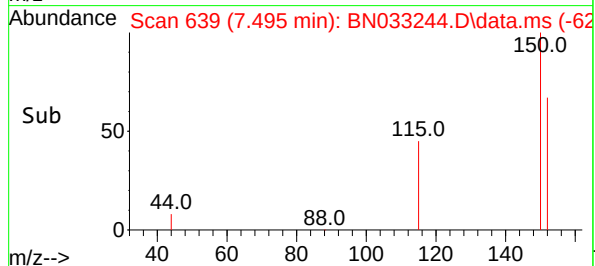
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

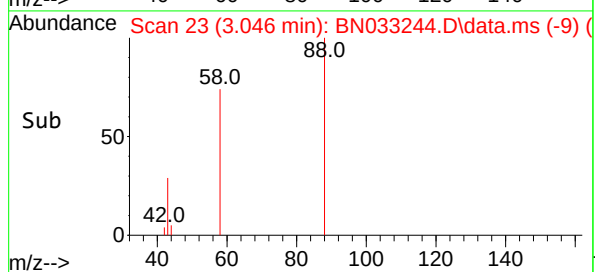
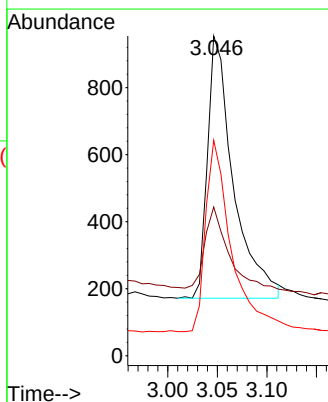
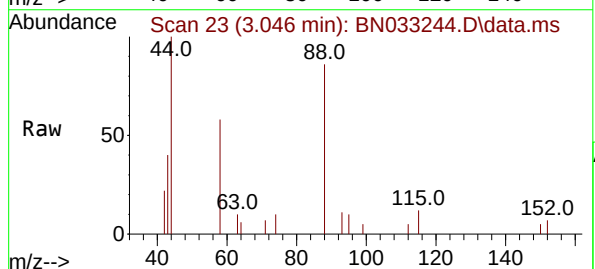
Manual Integrations
APPROVED

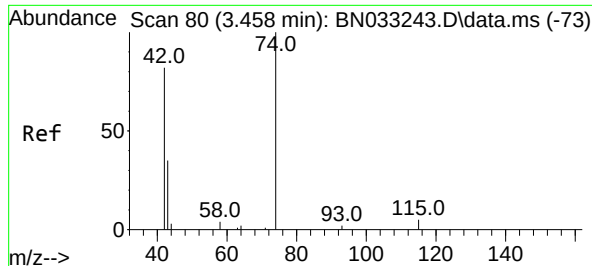
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





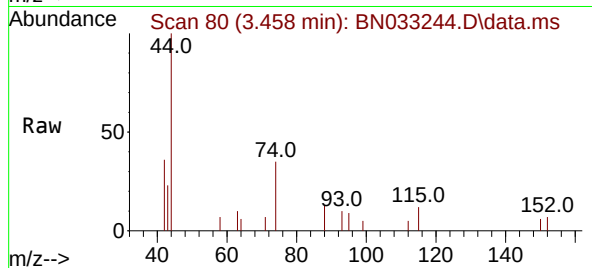
#3
n-Nitrosodimethylamine
Concen: 0.826 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

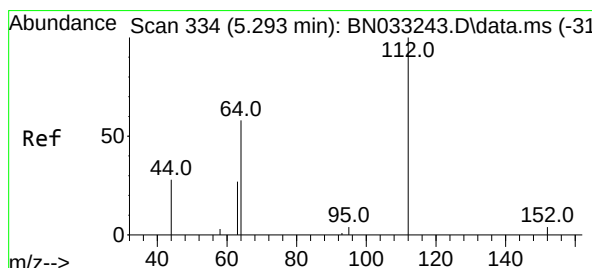
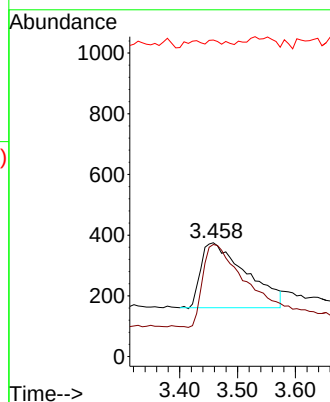
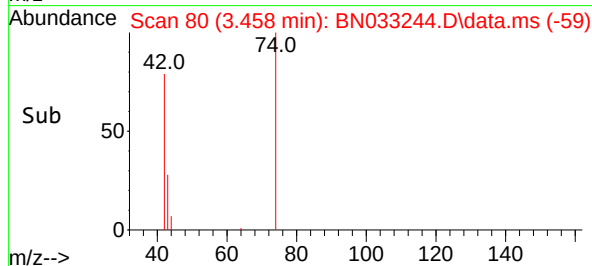
SSTDICC0.8



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#

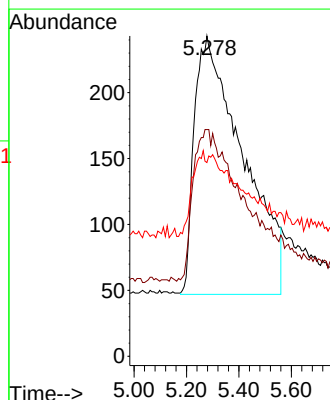
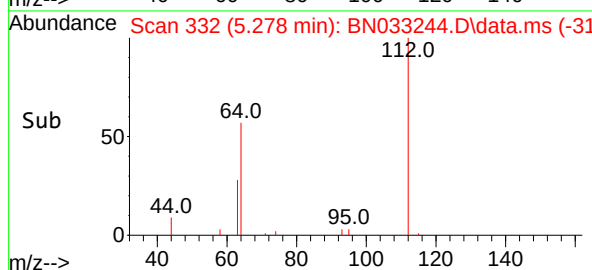
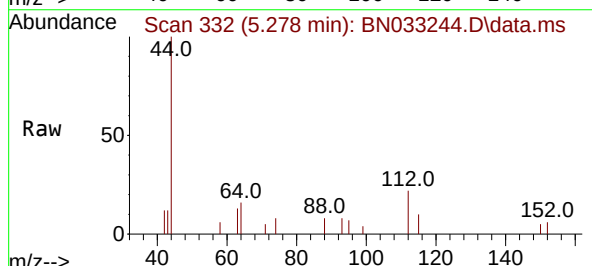
Manual Integrations
APPROVED

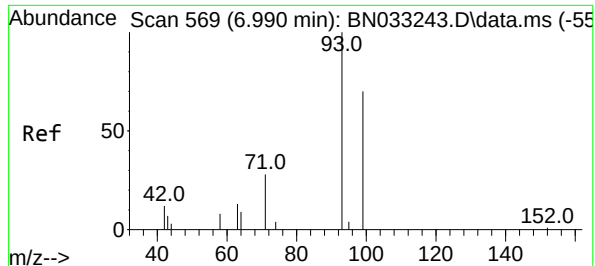
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

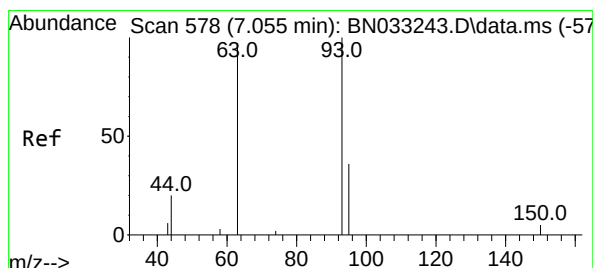
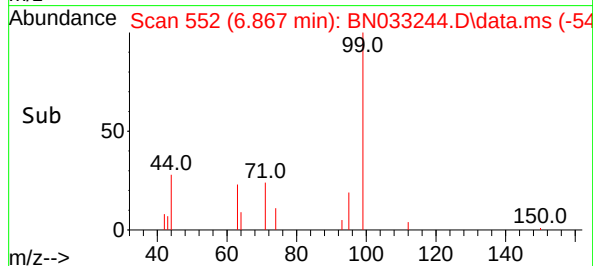
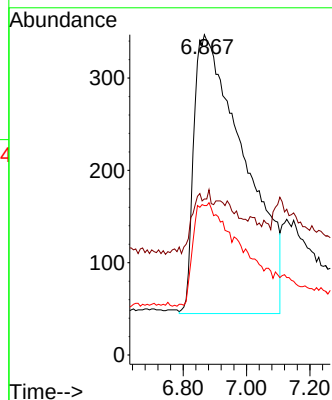
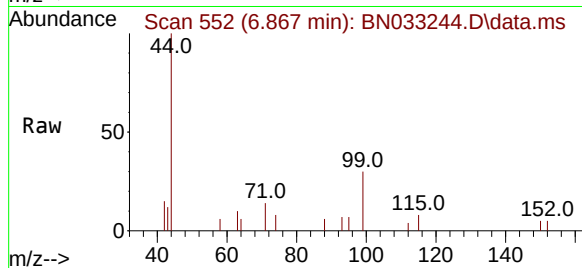
SSTDICC0.8

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.814 ng

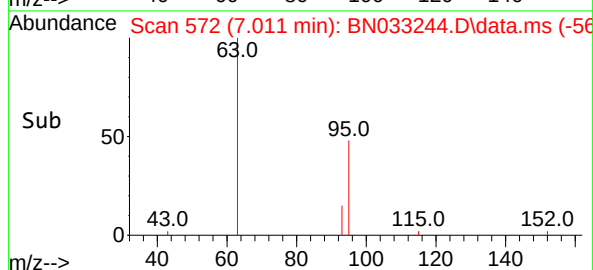
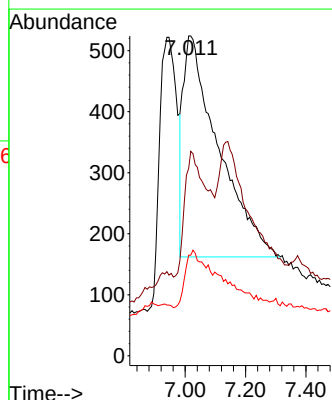
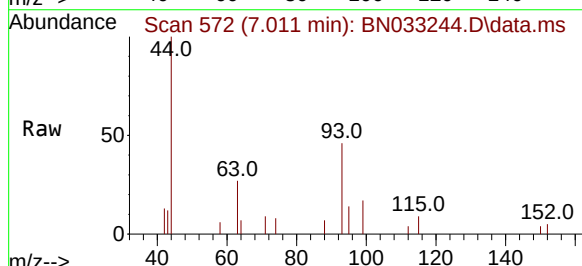
RT: 7.011 min Scan# 572

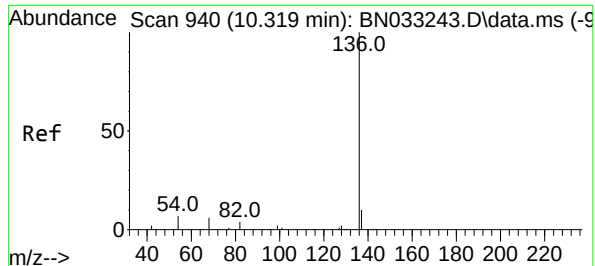
Delta R.T. -0.044 min

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#





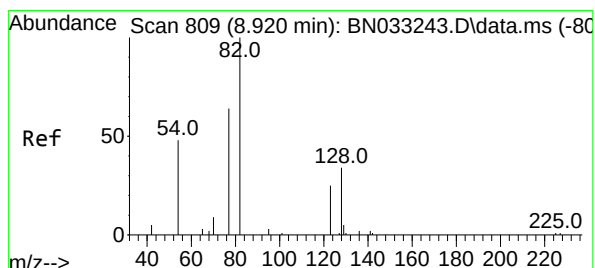
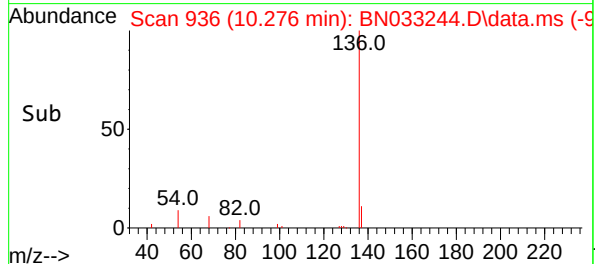
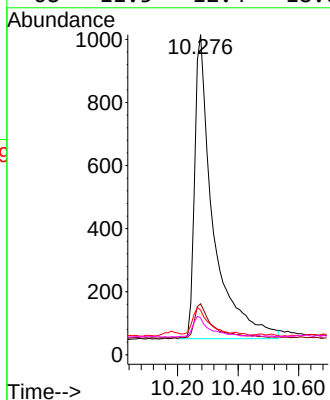
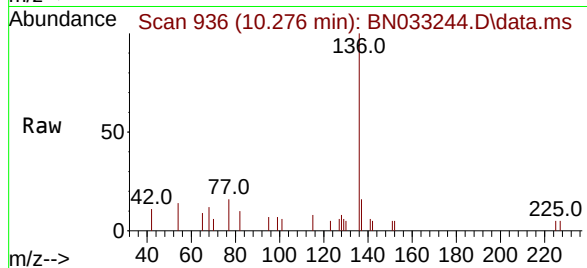
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.276 min Scan# 91
Delta R.T. -0.043 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

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

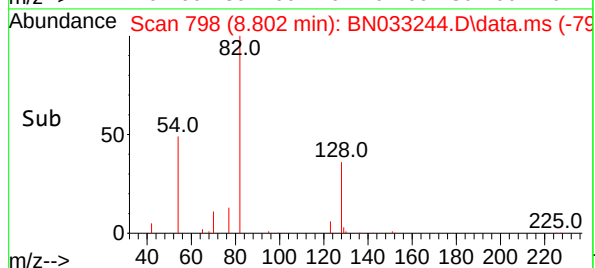
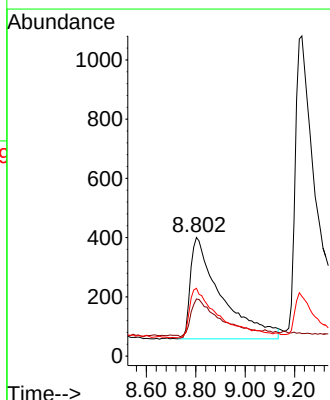
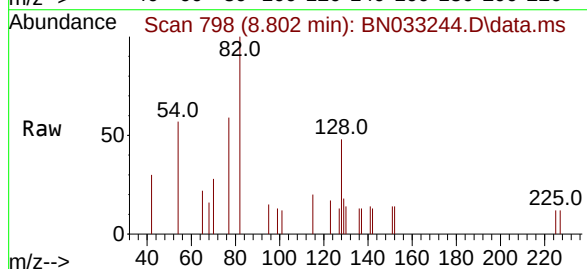
Manual Integrations
APPROVED

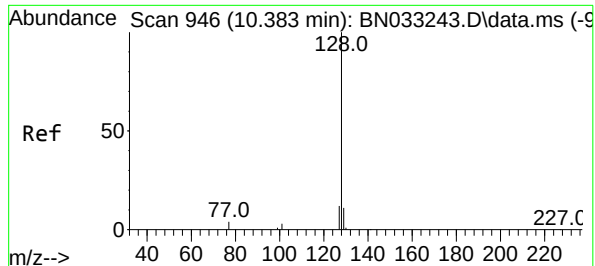
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





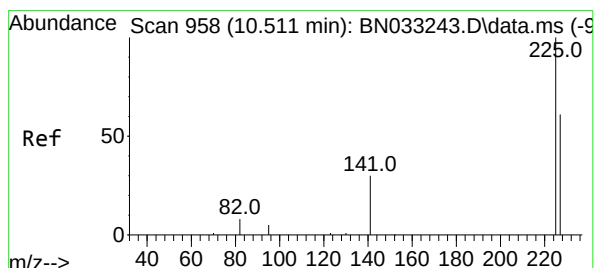
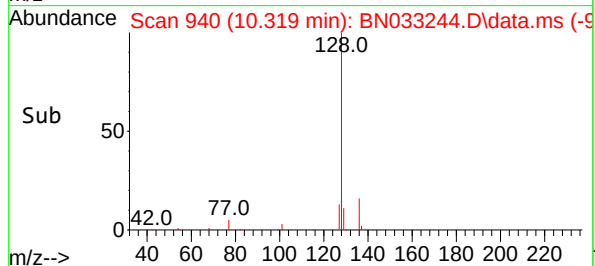
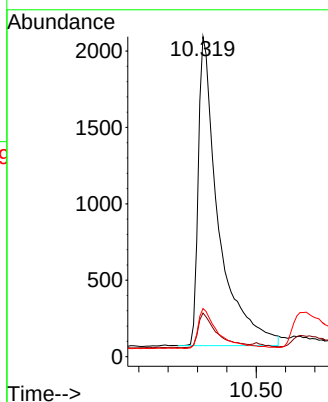
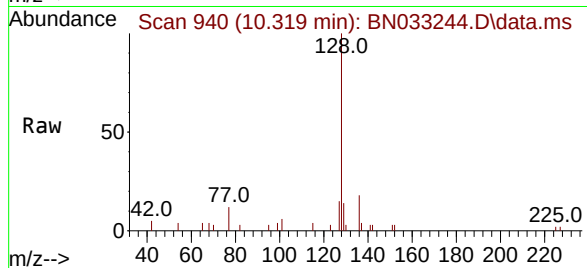
#9
Naphthalene
Concen: 0.868 ng
RT: 10.319 min Scan# 946
Delta R.T. -0.064 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30

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

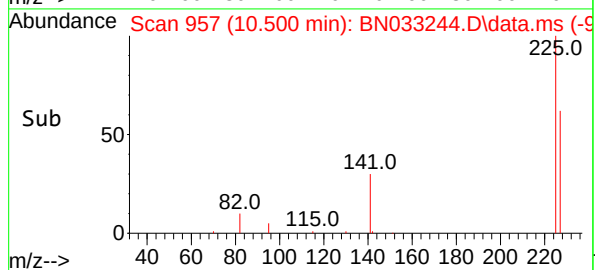
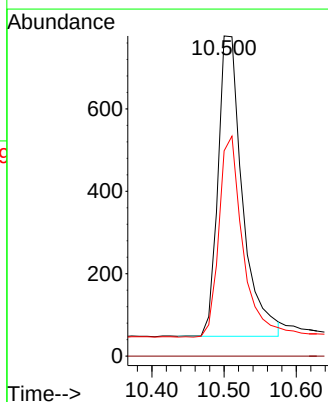
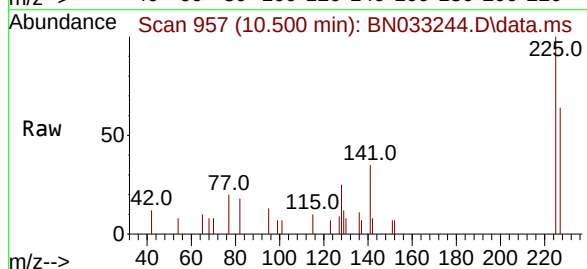
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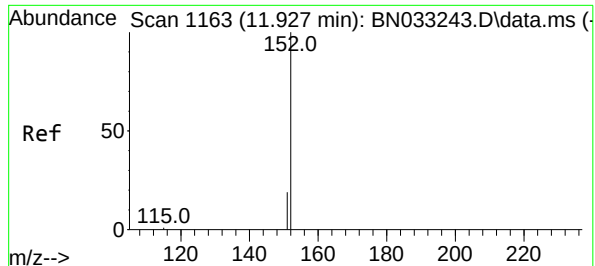
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

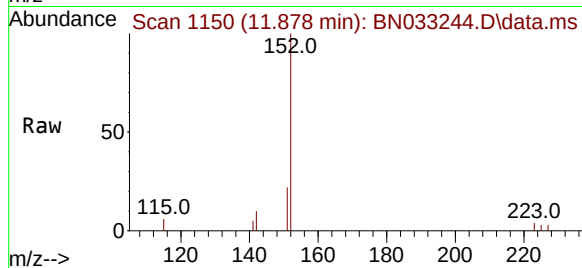
Tgt Ion:225 Resp: 1717
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 50.2 75.4





#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

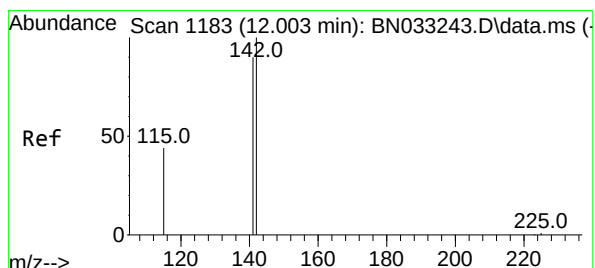
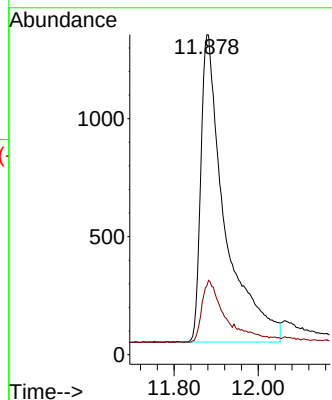
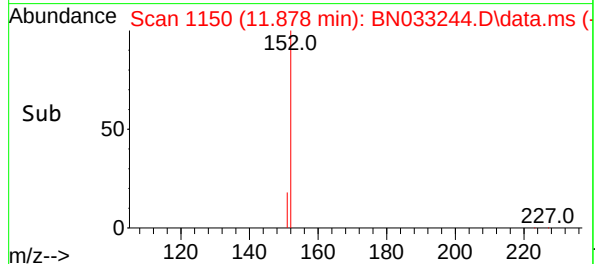
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 5160
Ion Ratio Lower Upper
152 100
151 20.0 11.9 17.9

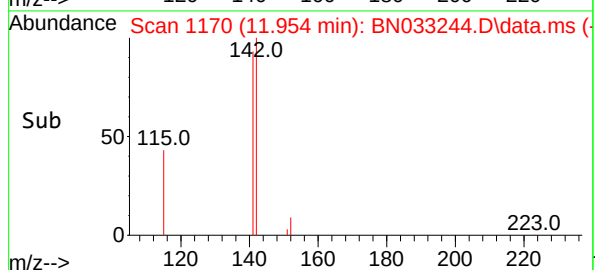
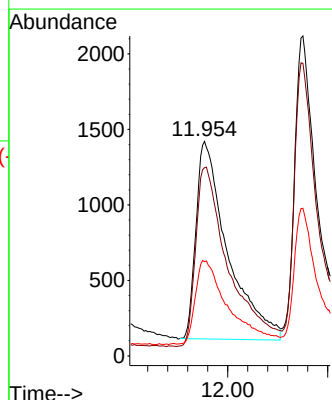
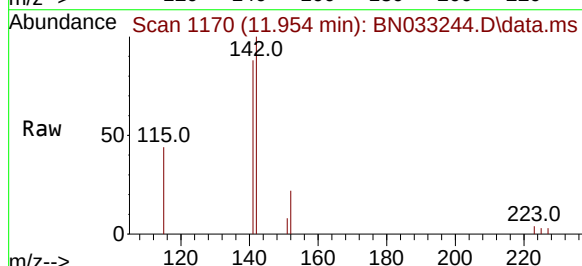
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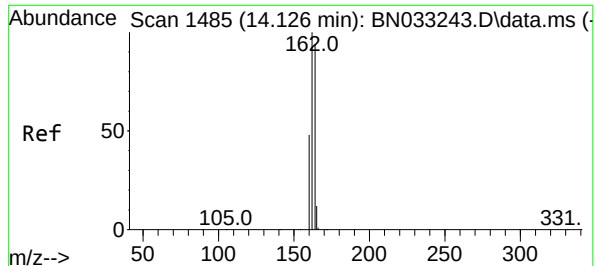
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

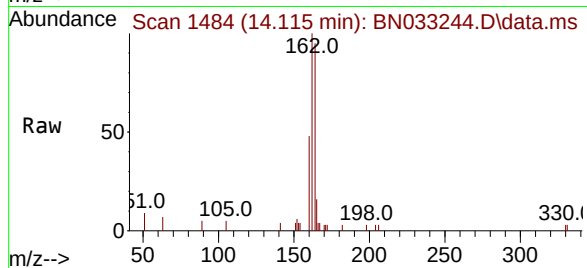
Tgt Ion:142 Resp: 5744
Ion Ratio Lower Upper
142 100
141 87.8 68.7 103.1
115 43.9 41.6 62.4





#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

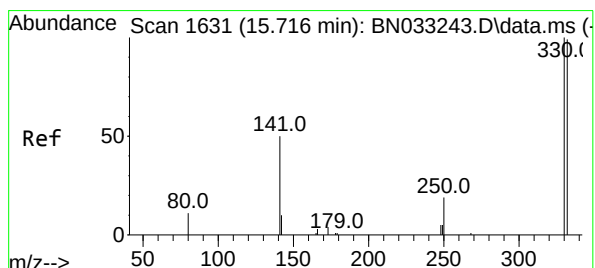
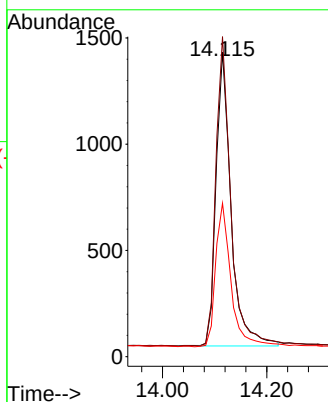
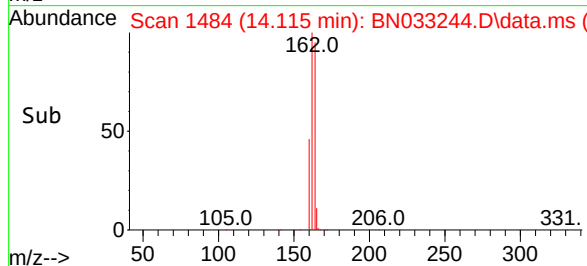
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



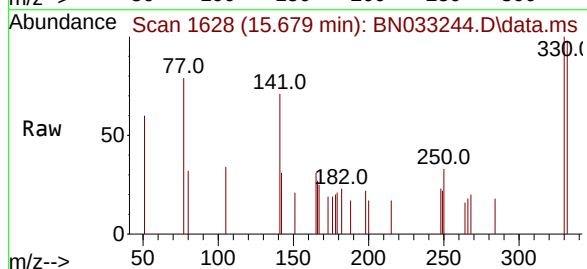
Tgt Ion:164 Resp: 276
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 50.3 42.4 63.6

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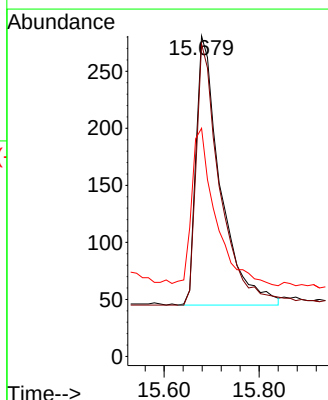
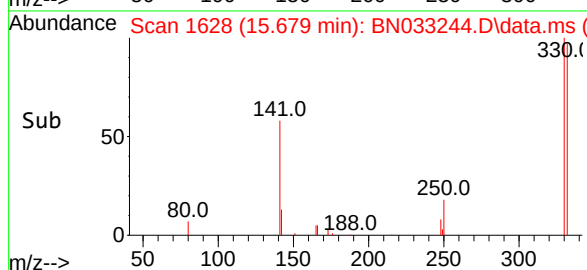
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

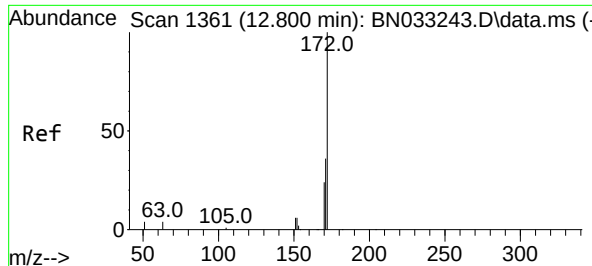


#14
2,4,6-Tribromophenol
Concen: 0.820 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.037 min
Lab File: BN033244.D
Acq: 05 Aug 2024 20:30



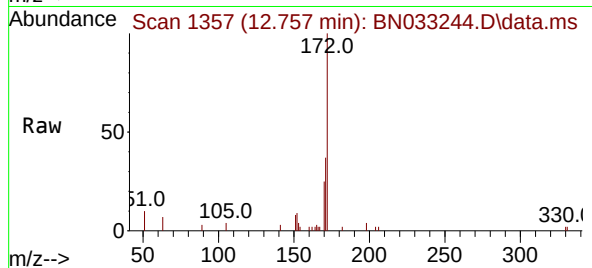
Tgt Ion:330 Resp: 842
Ion Ratio Lower Upper
330 100
332 95.1 73.7 110.5
141 56.8 44.8 67.2





#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

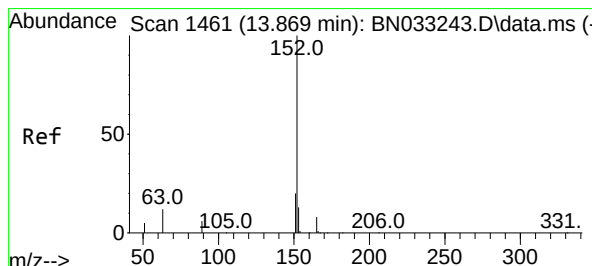
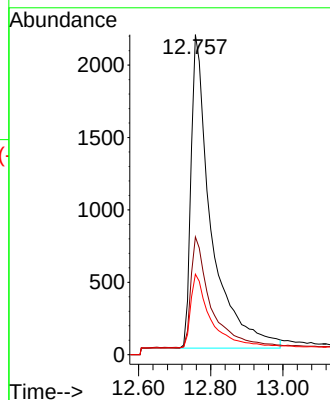
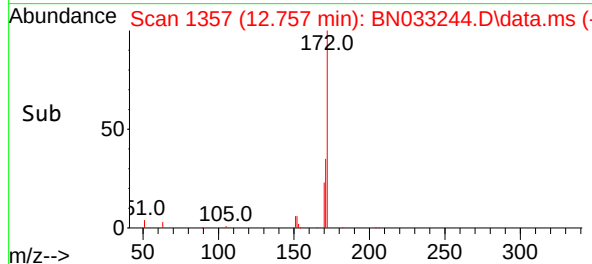
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

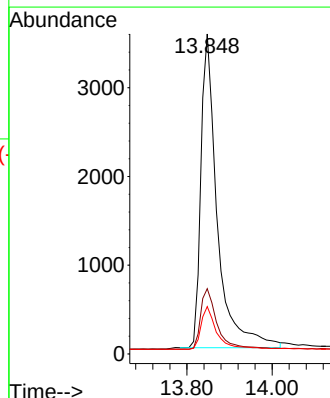
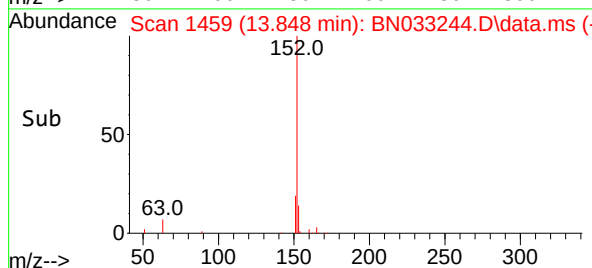
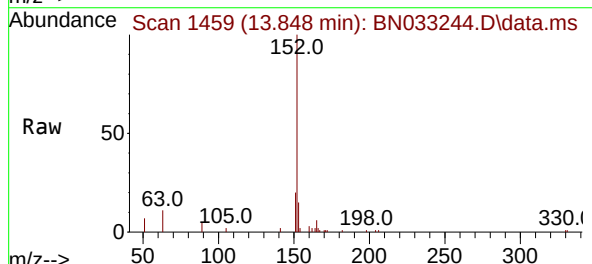
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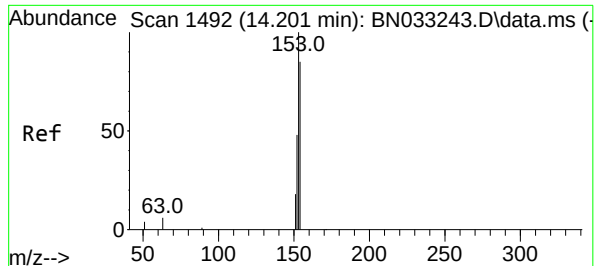
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

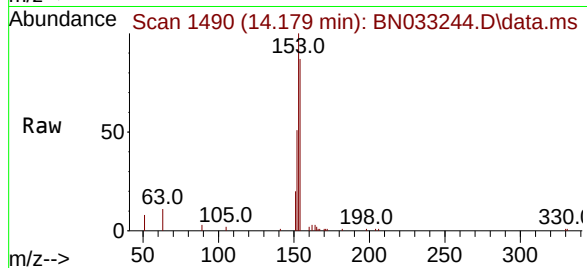
Tgt Ion:152 Resp: 9436
Ion Ratio Lower Upper
152 100
151 19.4 16.1 24.1
153 13.2 10.2 15.2





#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

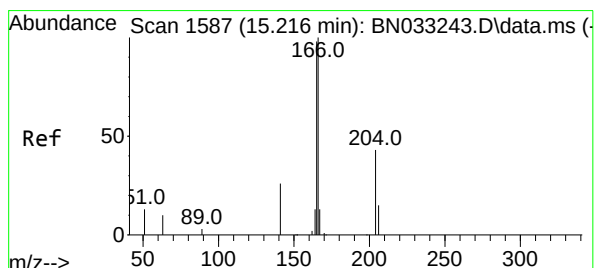
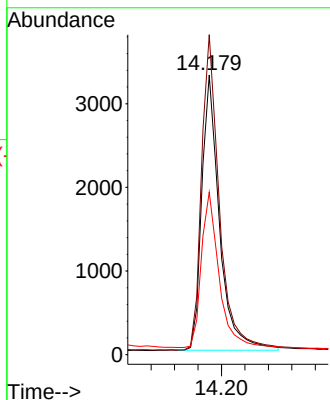
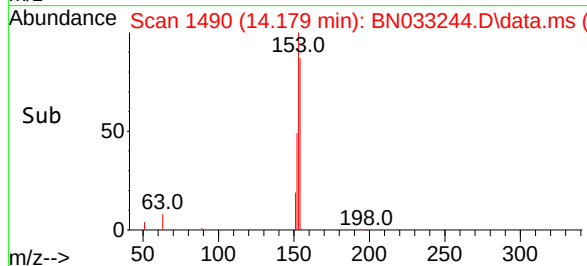
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

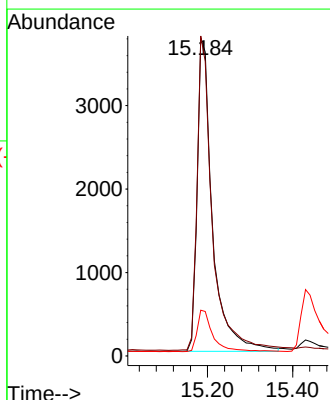
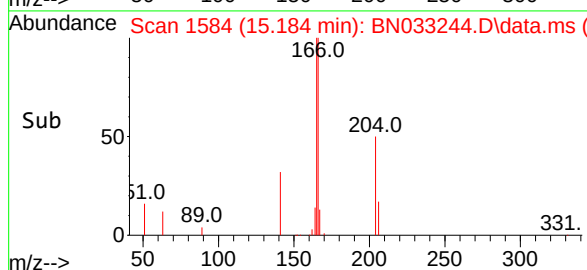
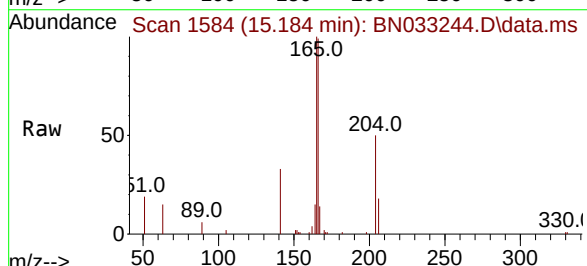
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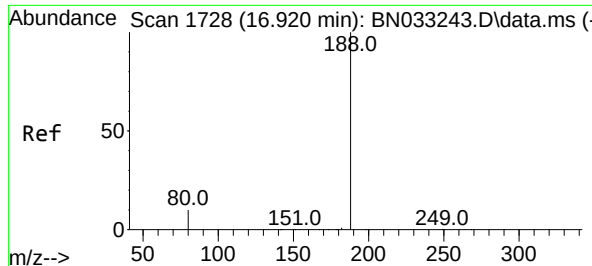
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

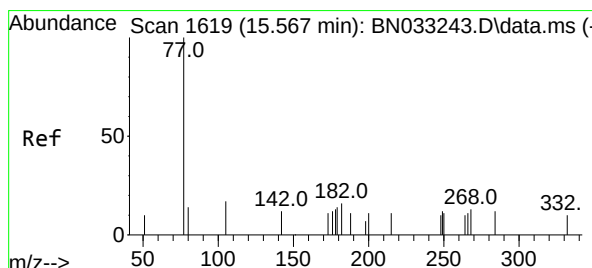
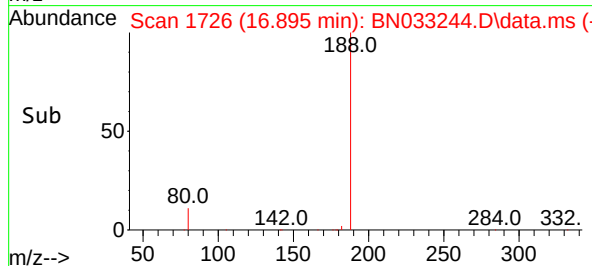
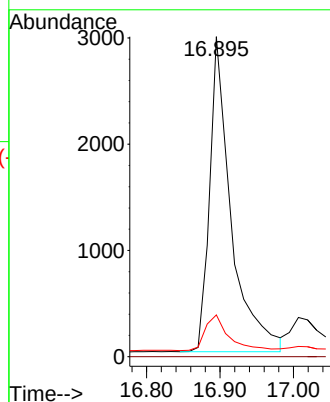
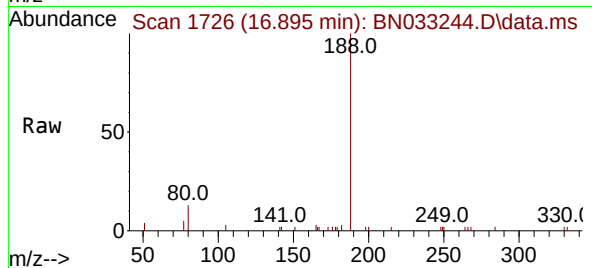
Instrument :

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

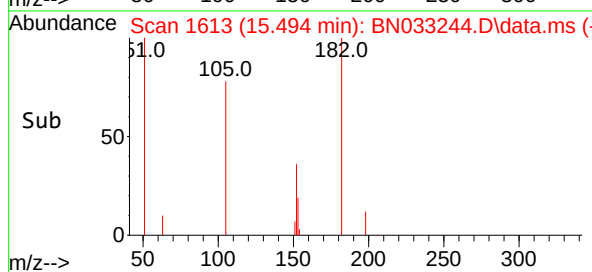
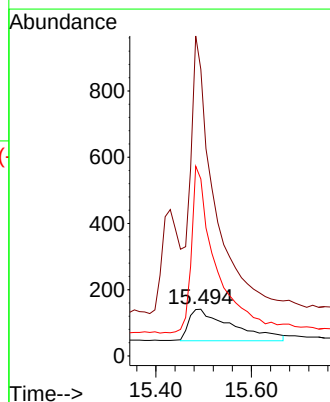
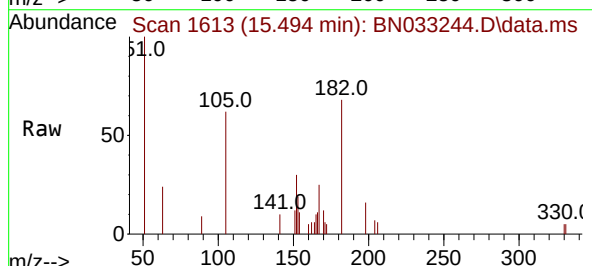
RT: 15.494 min Scan# 1613

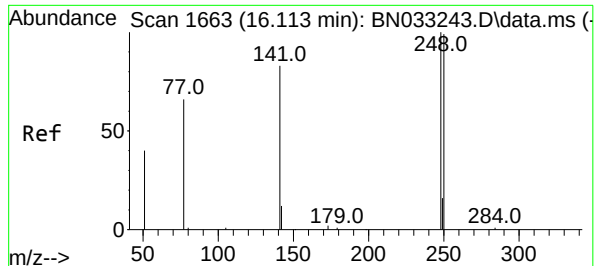
Delta R.T. -0.073 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

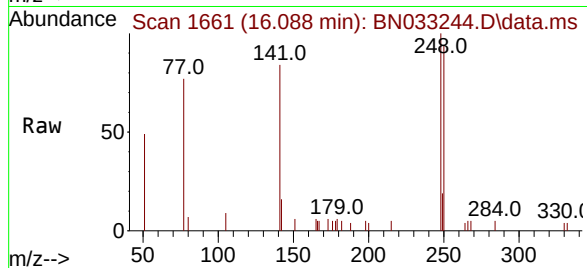
Tgt Ion	Ratio	Lower	Upper
198	100		
51	613.5	250.6	375.8#
105	378.7	152.6	229.0#





#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

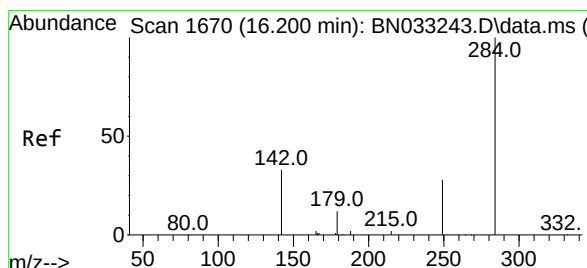
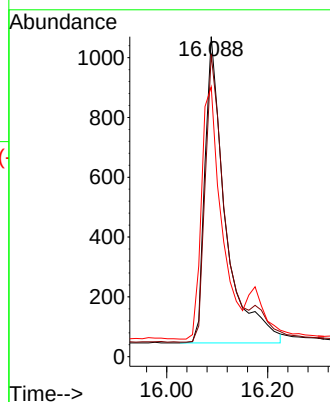
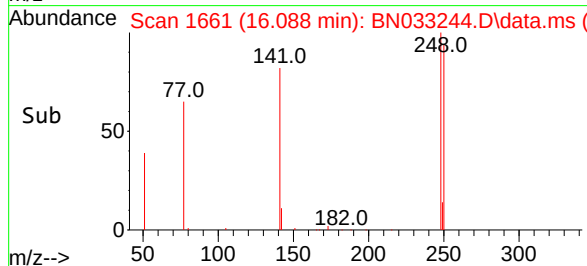
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

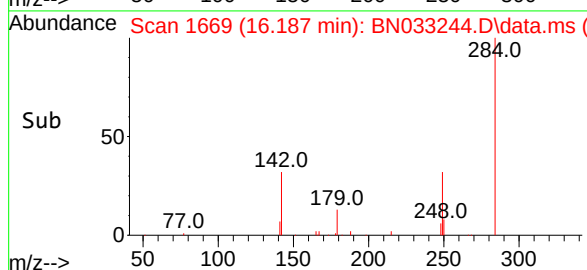
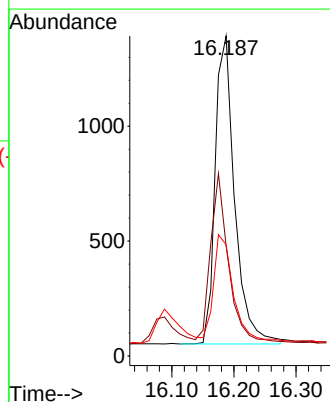
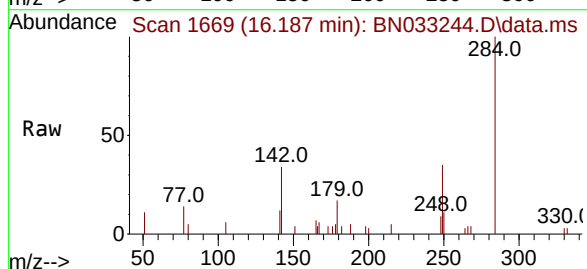
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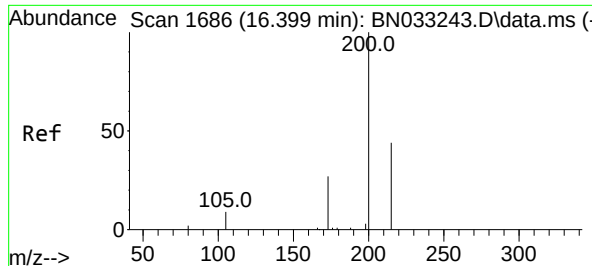
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

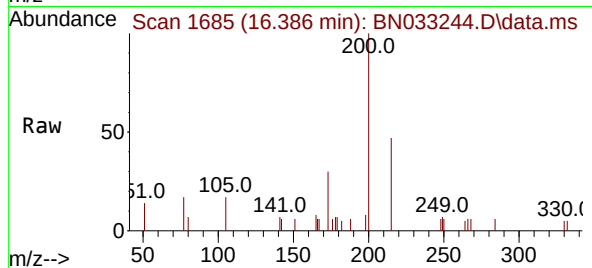
Tgt Ion:284 Resp: 2917
Ion Ratio Lower Upper
284 100
142 49.3 38.8 58.2
249 34.4 27.8 41.6





#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

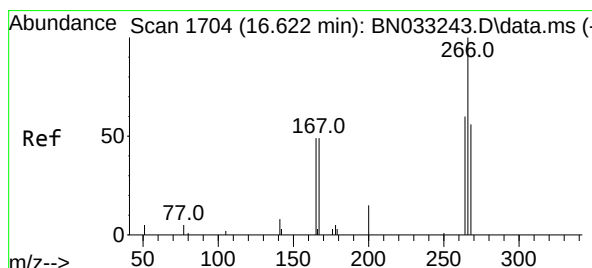
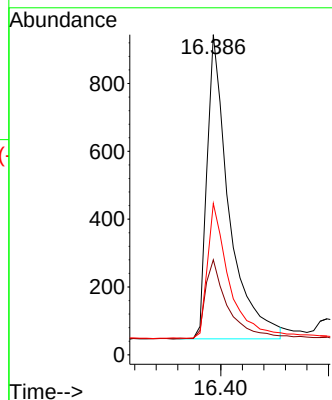
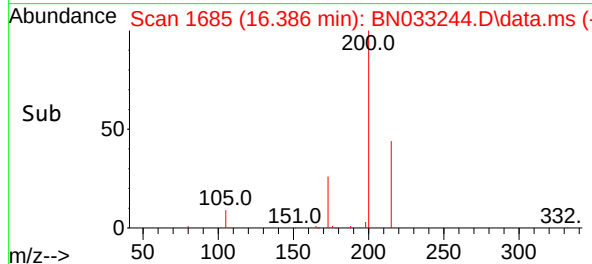
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



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

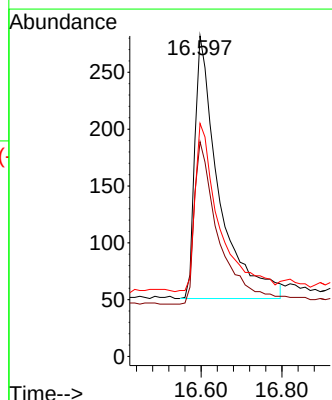
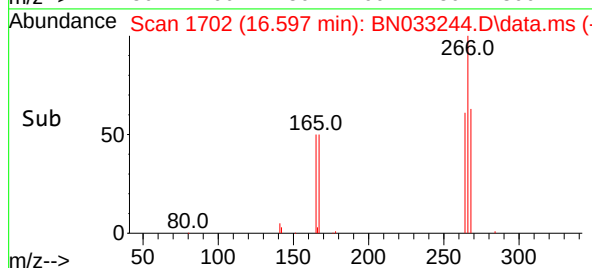
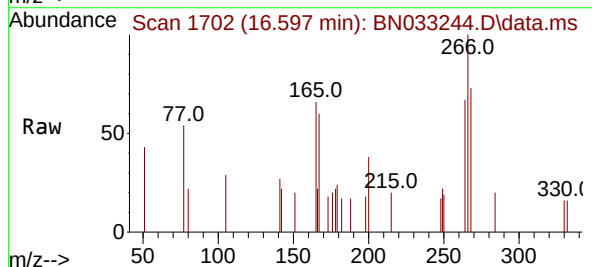
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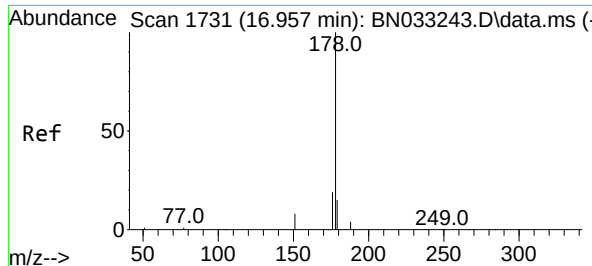
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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# 1731

Delta R.T. -0.025 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

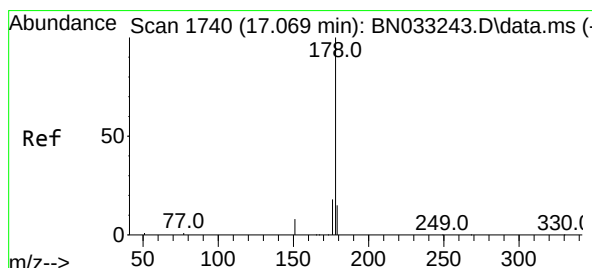
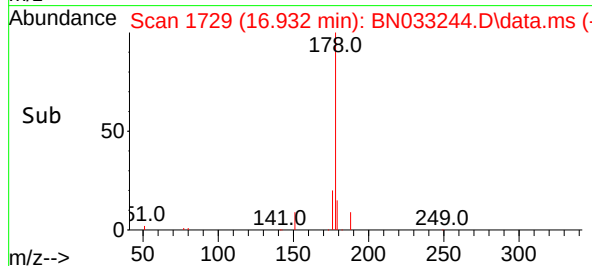
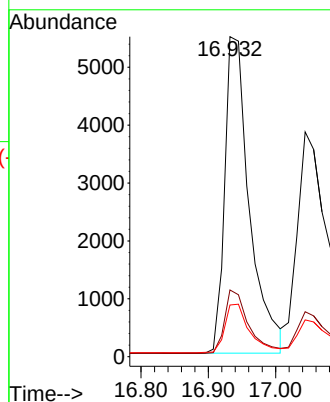
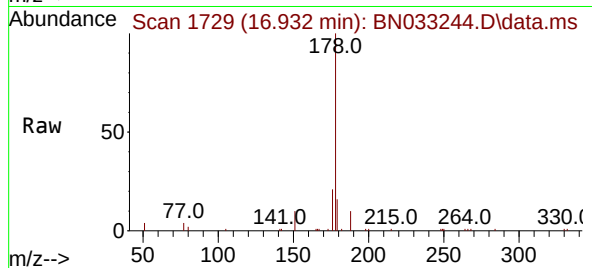
SSTDICC0.8

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26

Anthracene

Concen: 0.873 ng

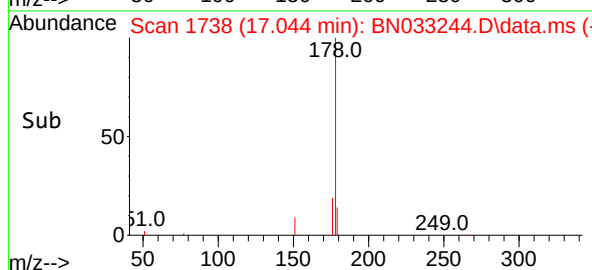
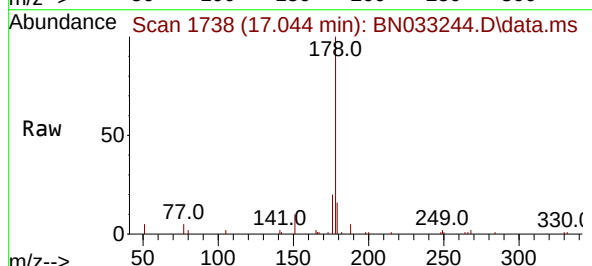
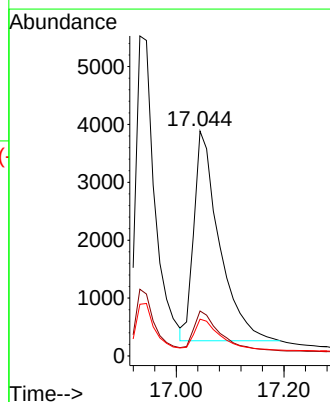
RT: 17.044 min Scan# 1738

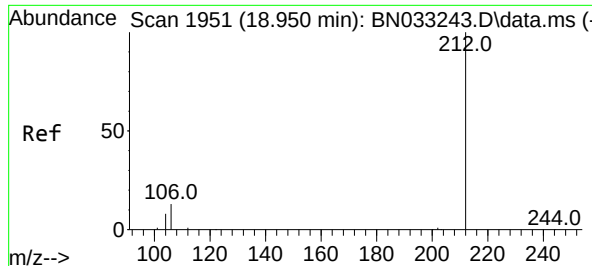
Delta R.T. -0.025 min

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 :

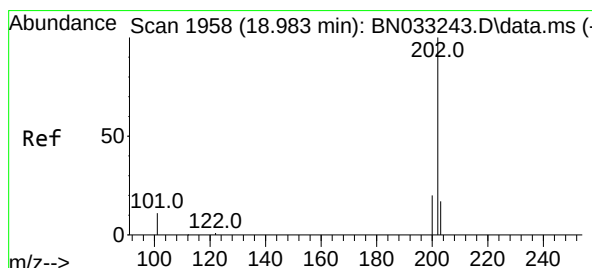
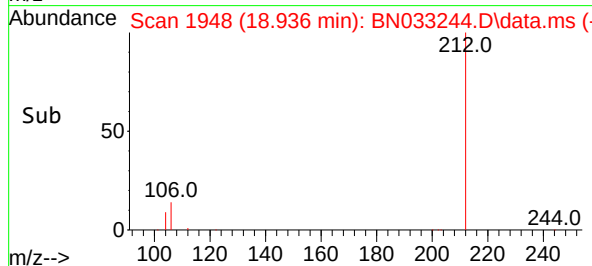
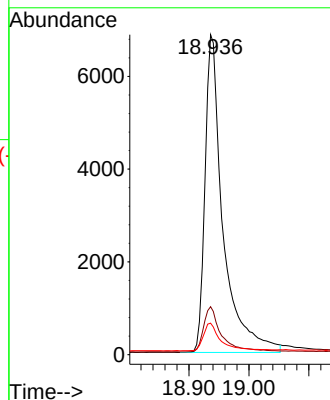
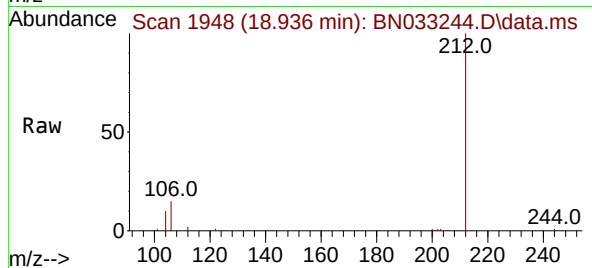
SSTDICC0.8

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.835 ng

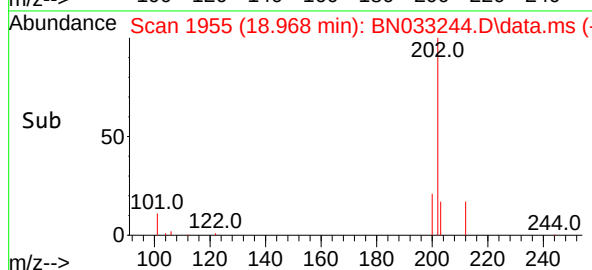
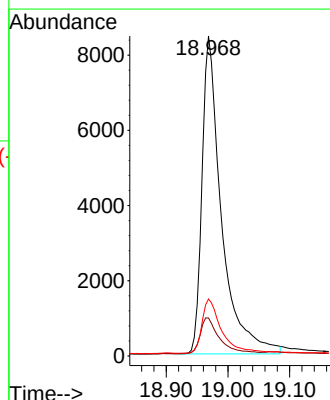
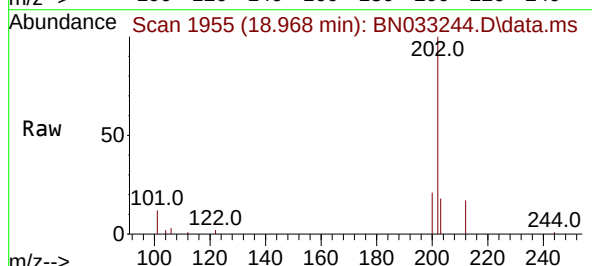
RT: 18.968 min Scan# 1955

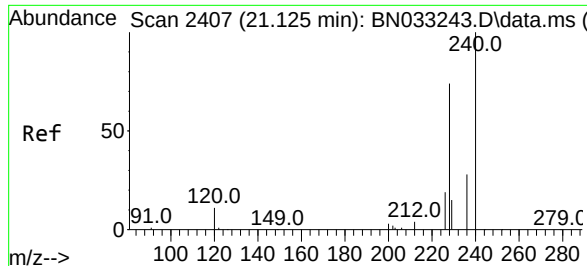
Delta R.T. -0.014 min

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

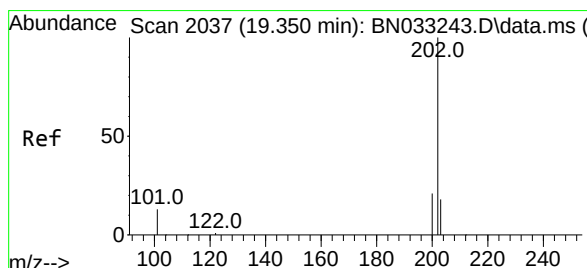
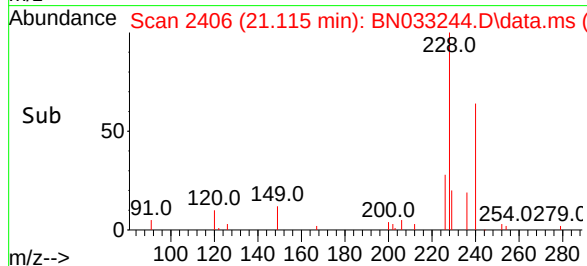
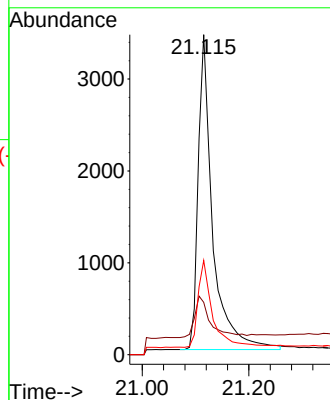
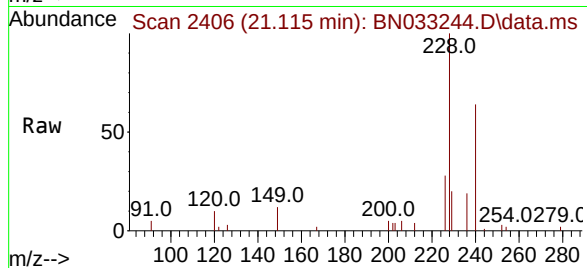
ClientSampleId :

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

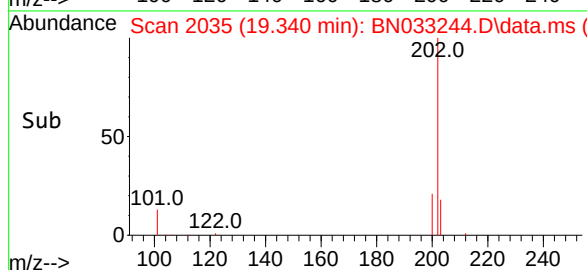
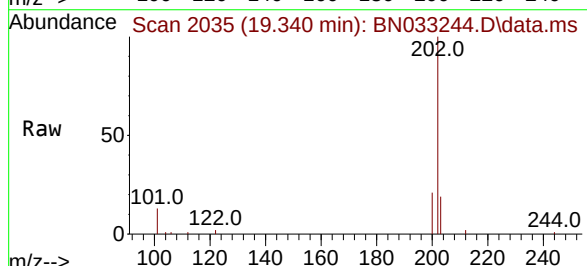
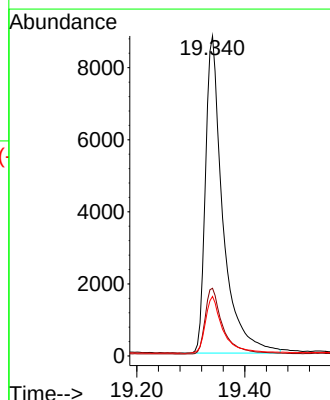
RT: 19.340 min Scan# 2035

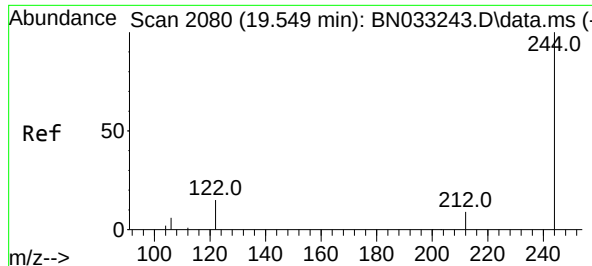
Delta R.T. -0.010 min

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 :

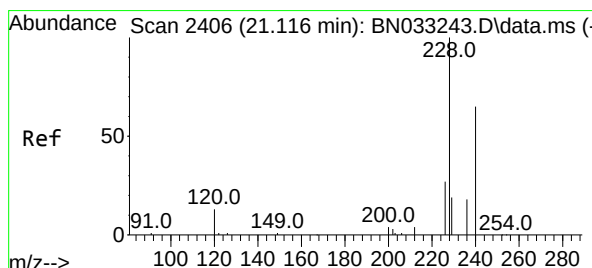
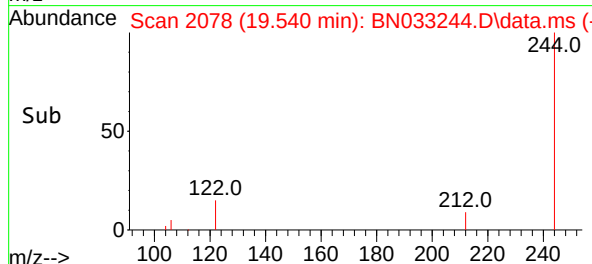
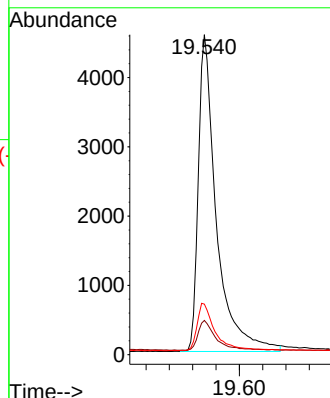
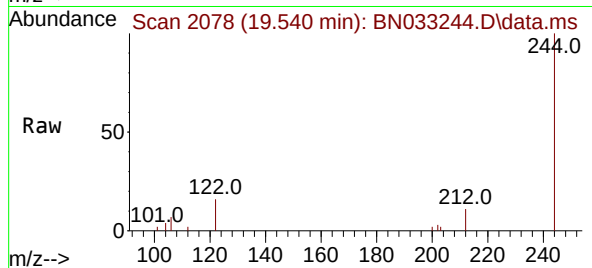
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.7	9.9	14.9
122	15.8	14.1	21.1

Manual Integrations

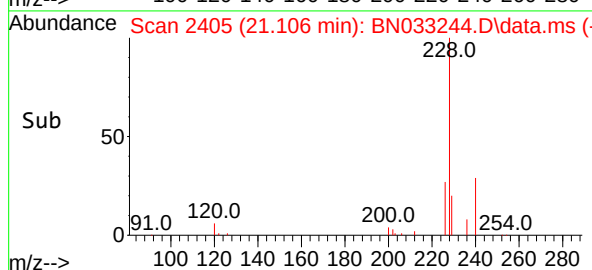
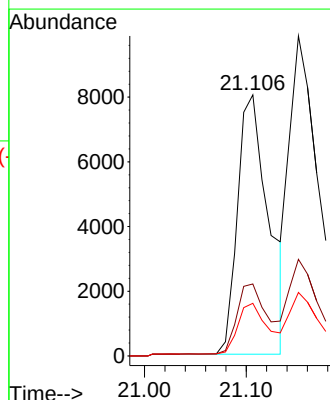
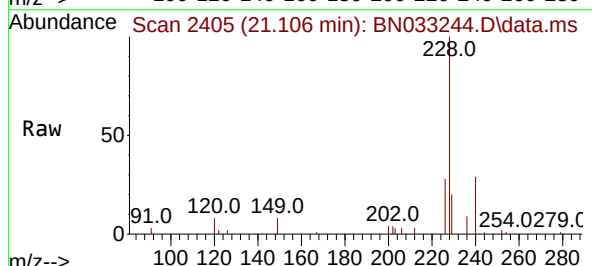
APPROVED

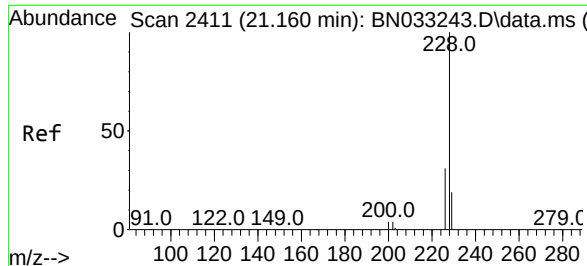
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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	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 :

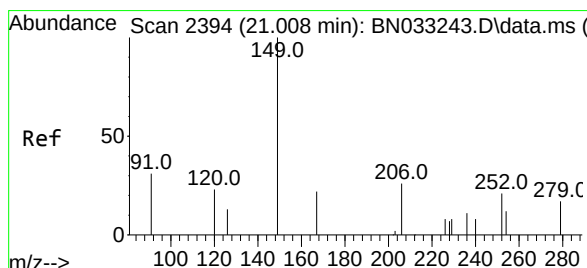
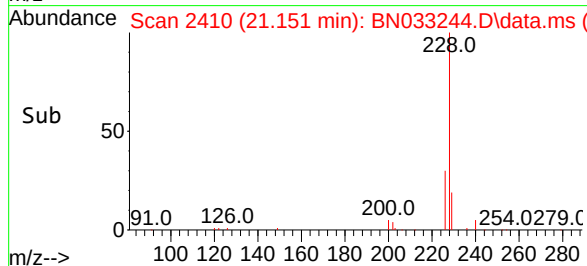
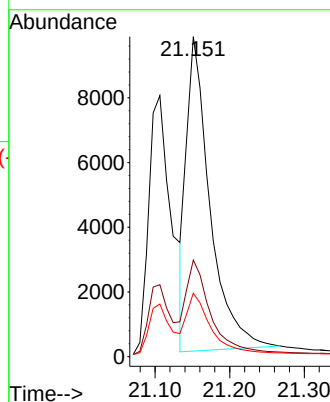
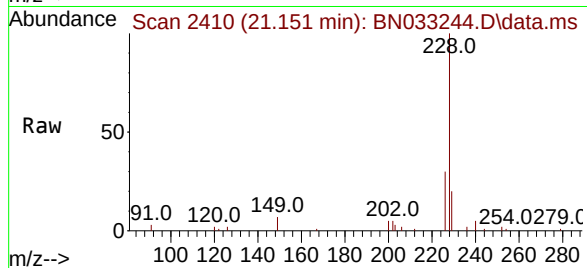
SSTDICC0.8

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

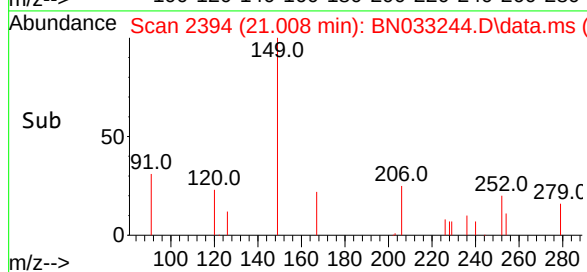
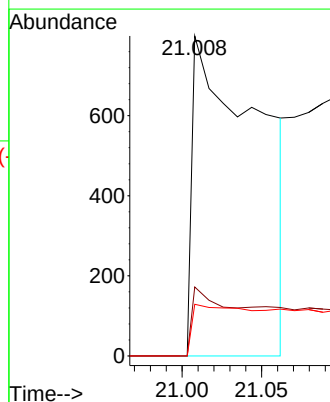
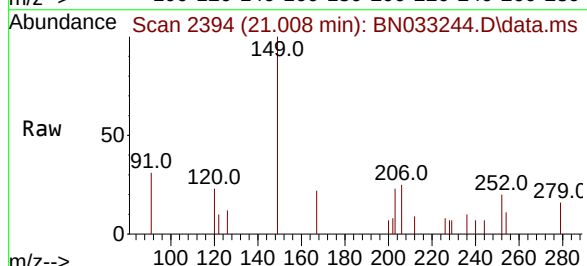
RT: 21.008 min Scan# 2394

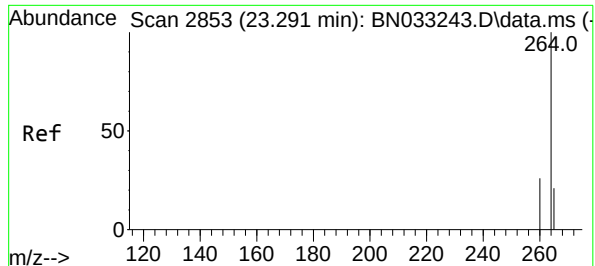
Delta R.T. -0.000 min

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

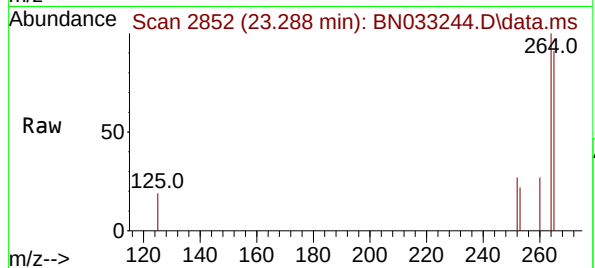
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



Tgt Ion:264 Resp: 767

Ion Ratio Lower Upper

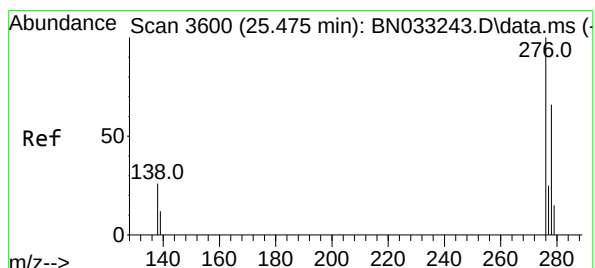
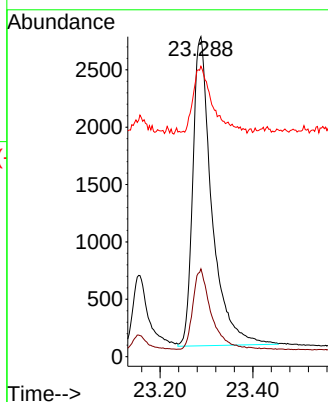
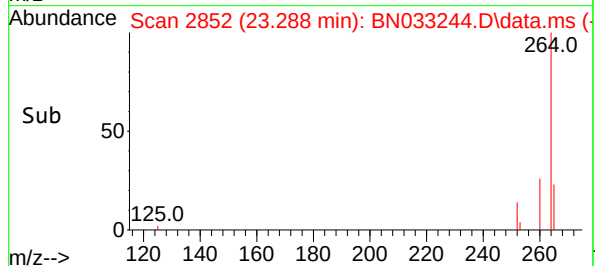
264 100

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

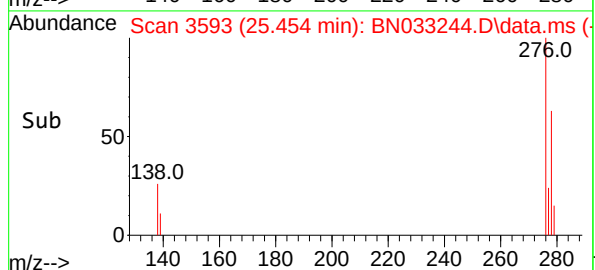
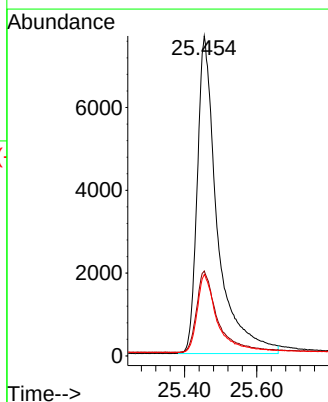
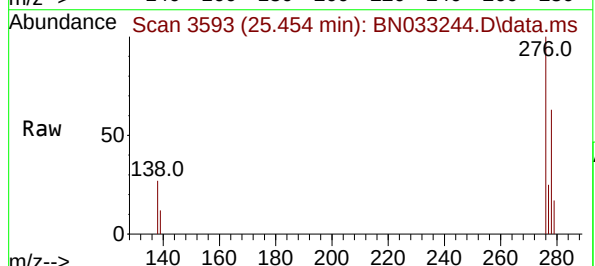
Tgt Ion:276 Resp: 29716

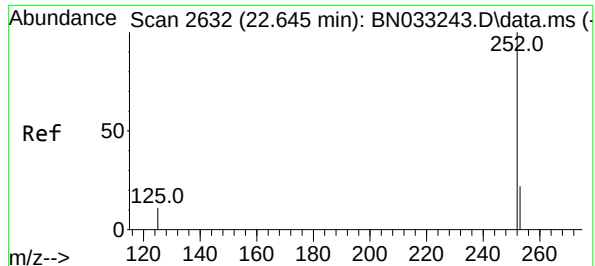
Ion Ratio Lower Upper

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

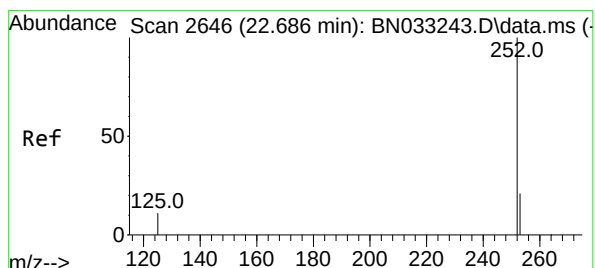
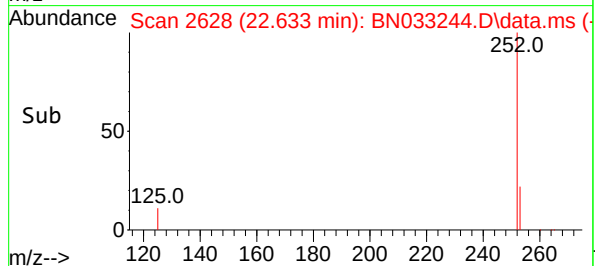
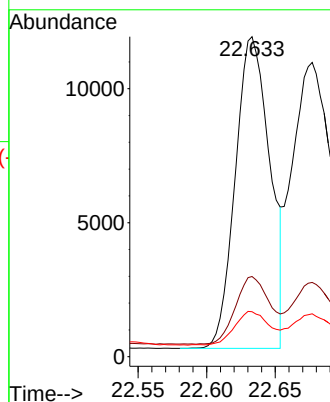
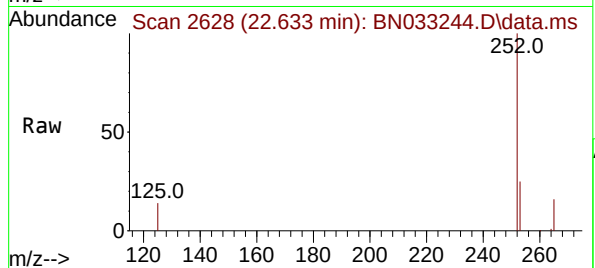
252 100

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

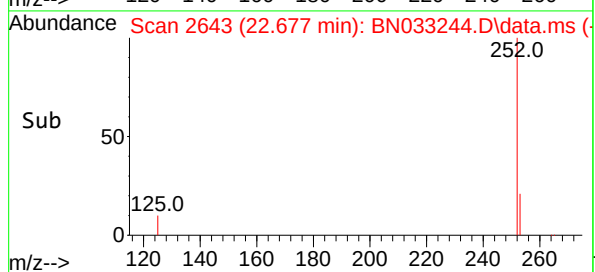
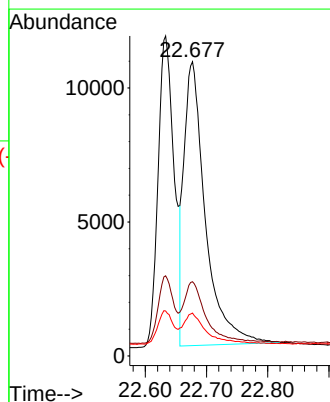
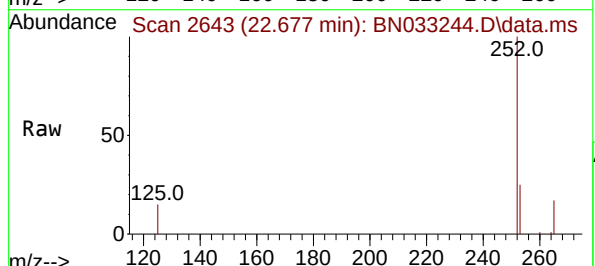
Tgt Ion:252 Resp: 25641

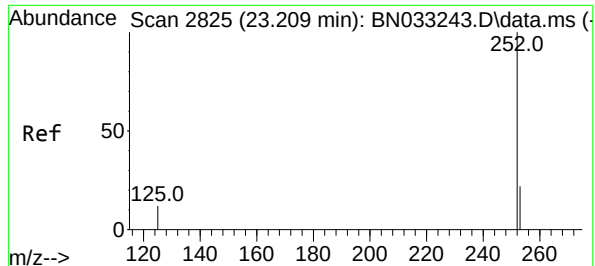
Ion Ratio Lower Upper

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# 2822

Delta R.T. -0.009 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

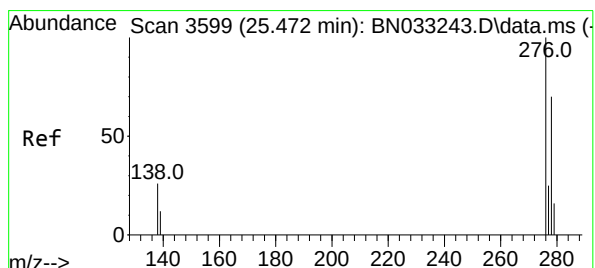
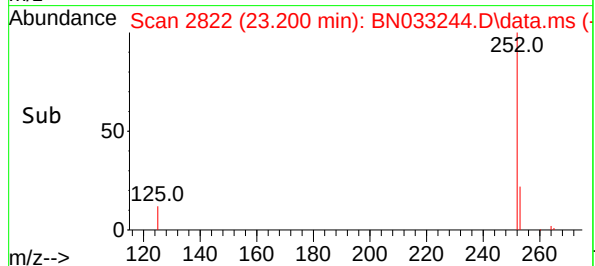
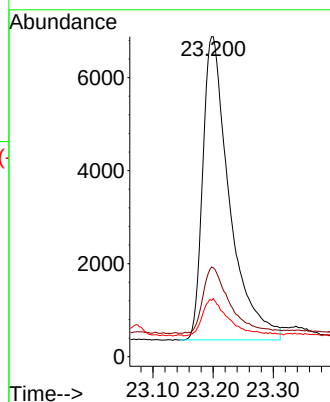
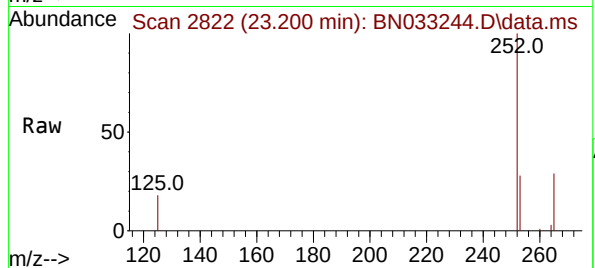
SSTDIC0.8

Tgt Ion:	252	Resp:	2006
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

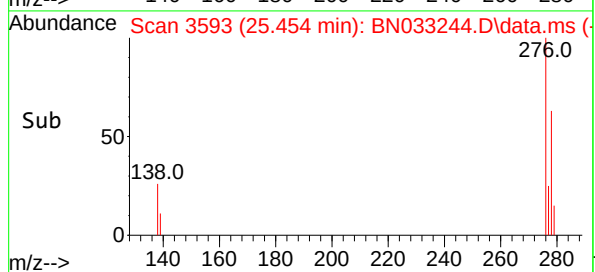
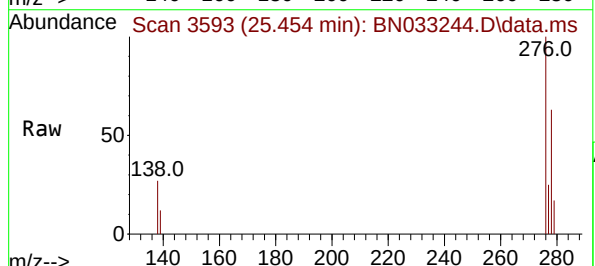
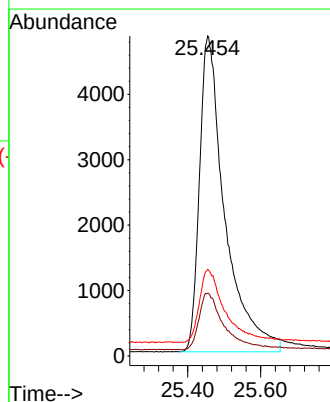
RT: 25.454 min Scan# 3593

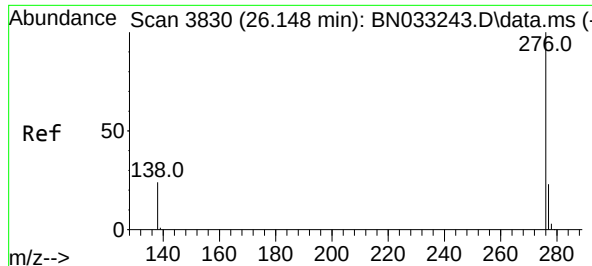
Delta R.T. -0.018 min

Lab File: BN033244.D

Acq: 05 Aug 2024 20:30

Tgt Ion:	278	Resp:	23363
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

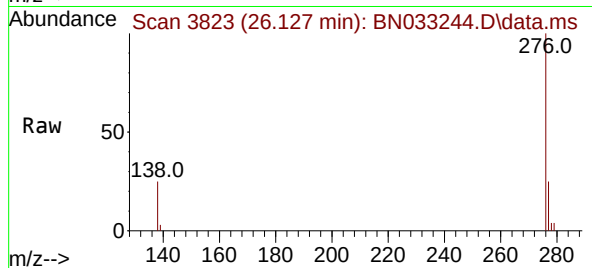
Acq: 05 Aug 2024 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 27000

Ion Ratio Lower Upper

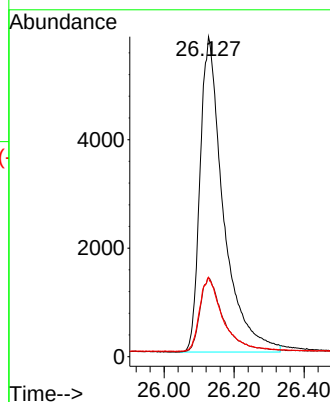
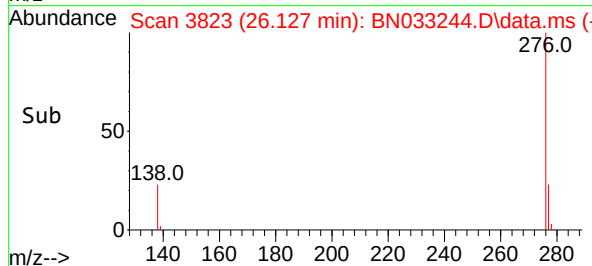
276 100

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						
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 :

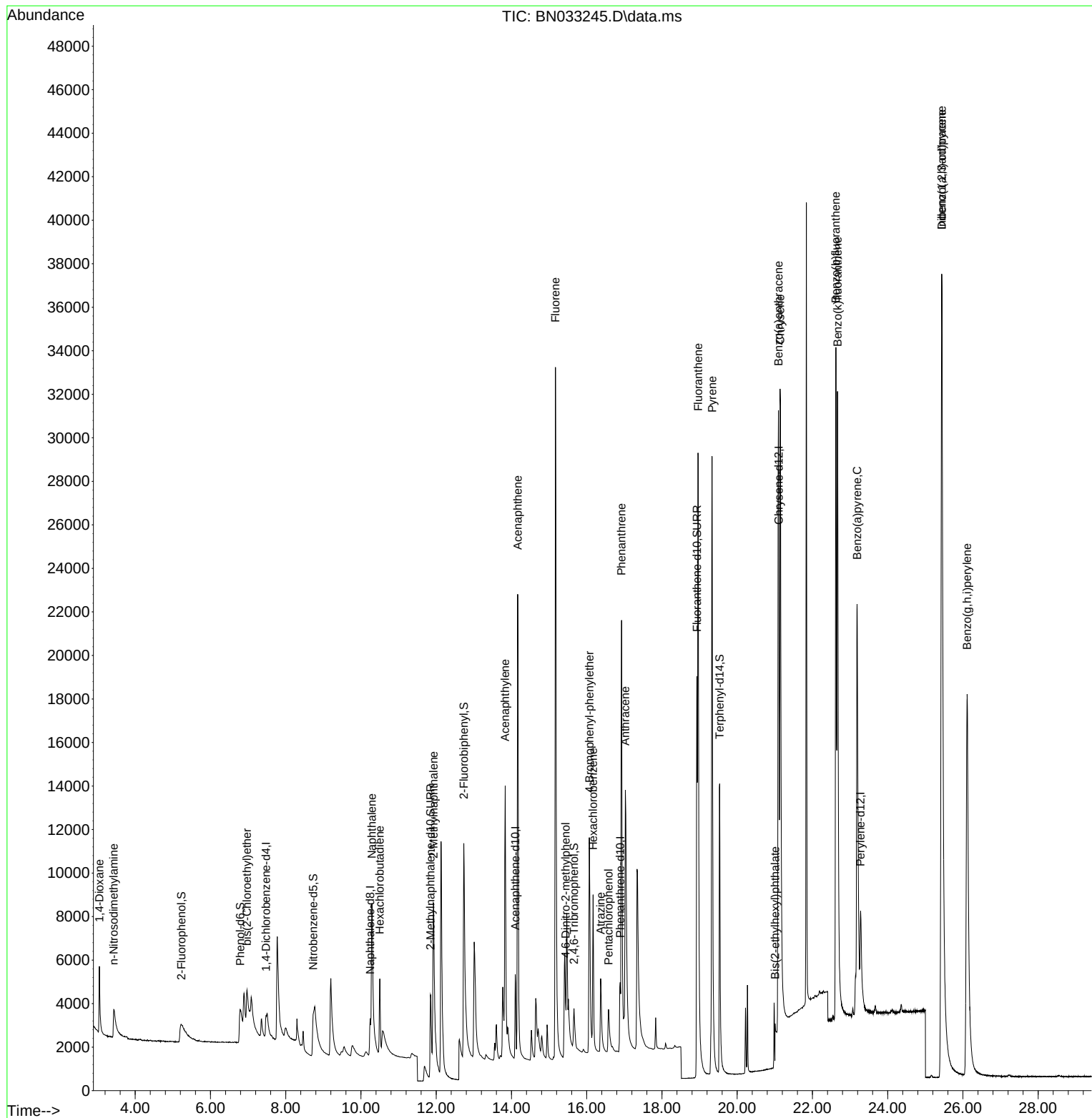
SSTDICC1.6

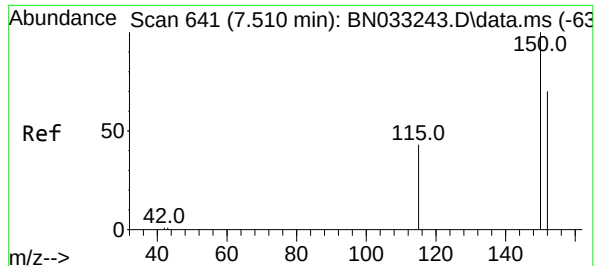
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

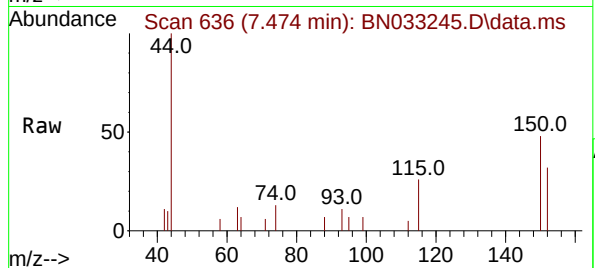
Quant Time: Aug 05 23:44:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#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

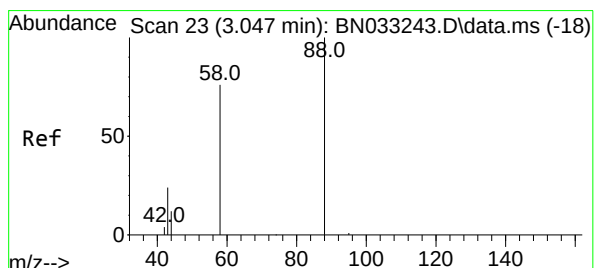
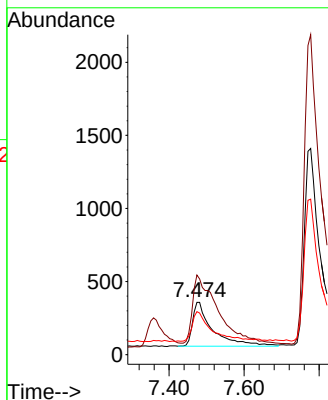
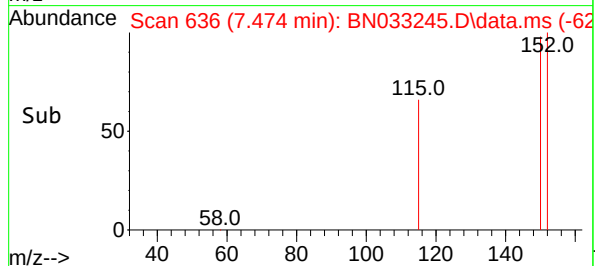
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

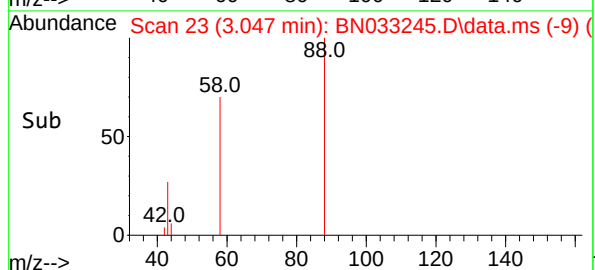
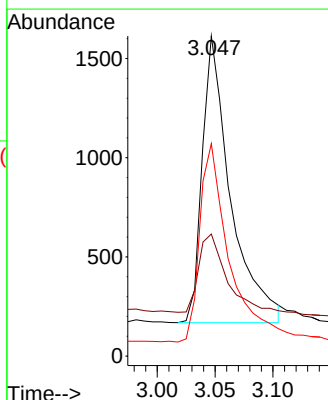
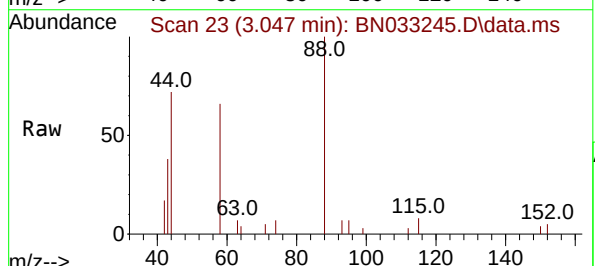
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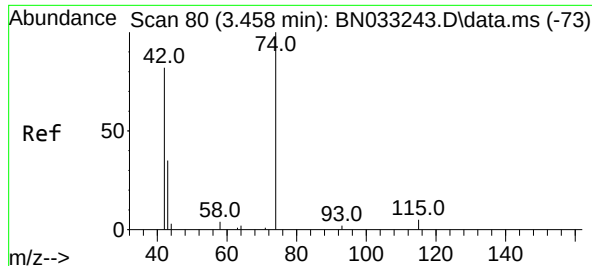
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

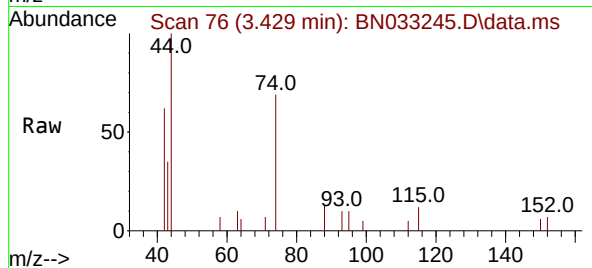
Tgt Ion: 88 Resp: 2463
Ion Ratio Lower Upper
88 100
43 26.7 18.6 28.0
58 71.3 54.5 81.7





#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

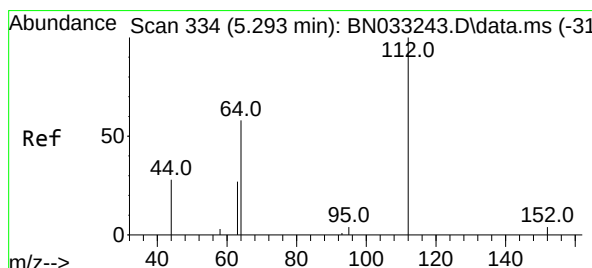
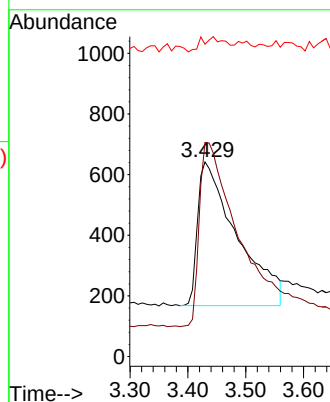
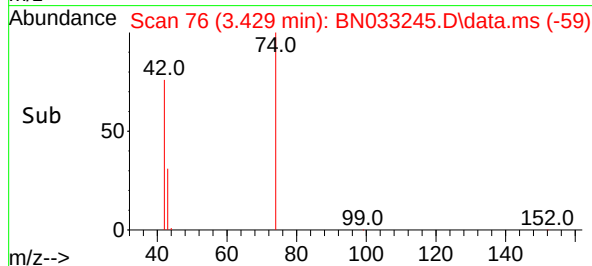
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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#

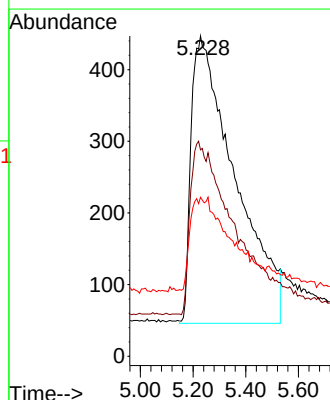
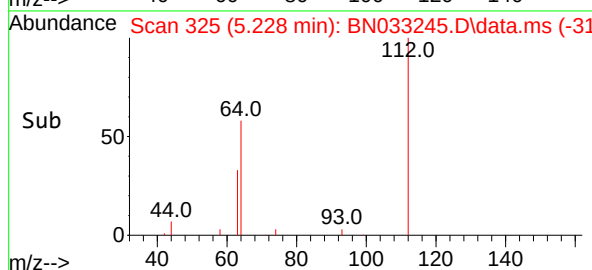
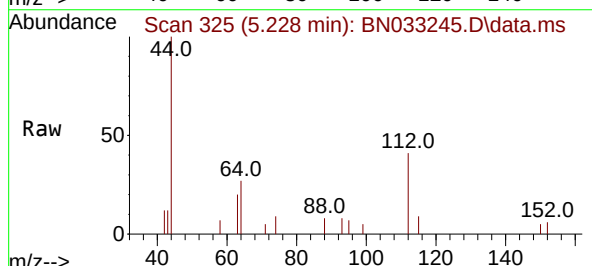
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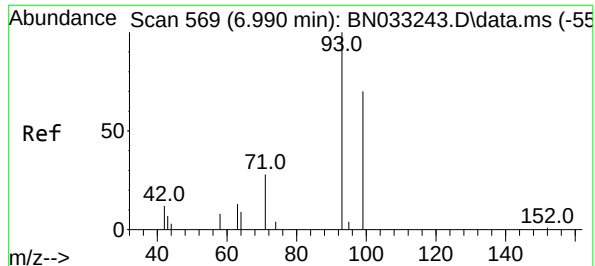
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

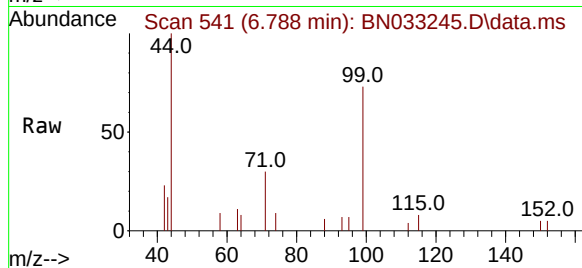
Tgt Ion:112 Resp: 4642
Ion Ratio Lower Upper
112 100
64 53.3 18.0 27.0#
63 6.8 0.0 0.0#





#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

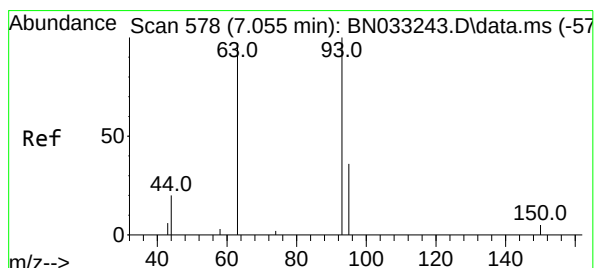
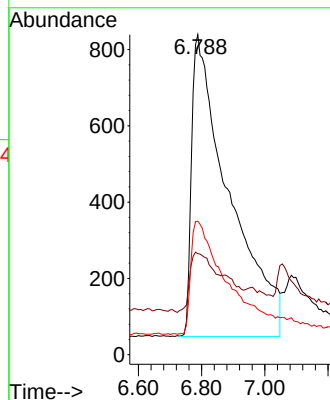
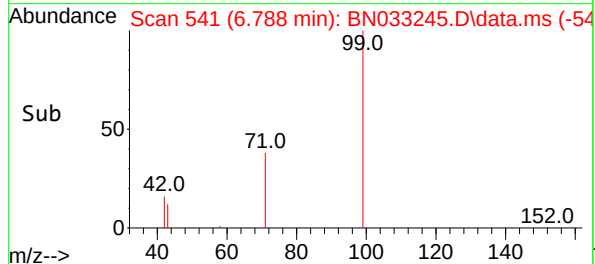
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

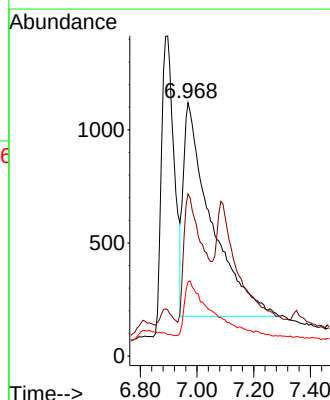
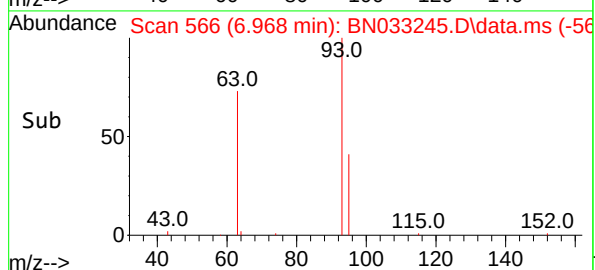
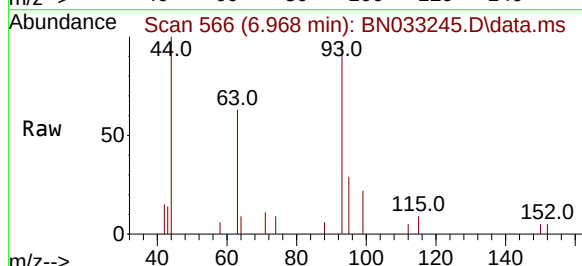
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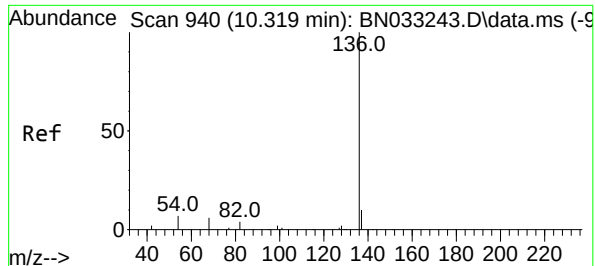
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

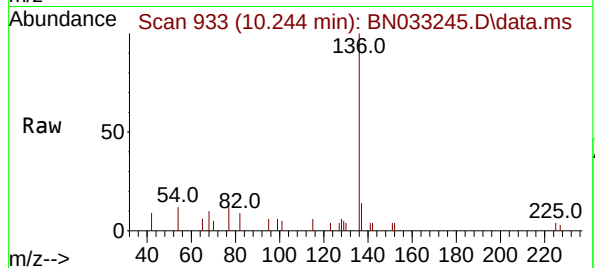
Tgt Ion: 93 Resp: 6447
Ion Ratio Lower Upper
93 100
63 35.9 1.1 1.7#
95 21.3 0.0 0.0#





#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

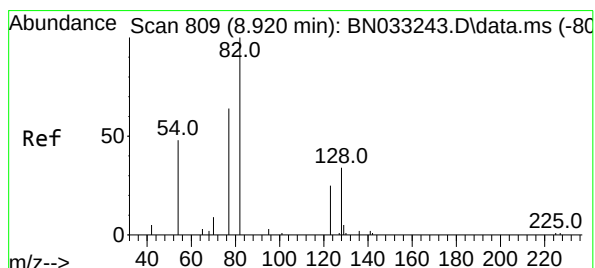
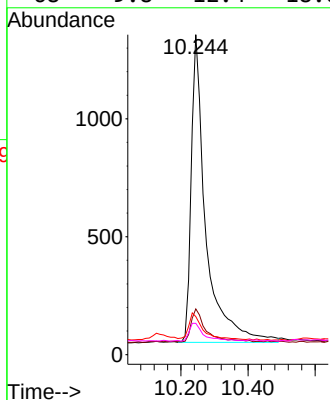
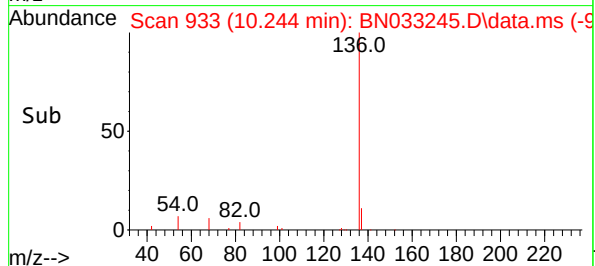
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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#

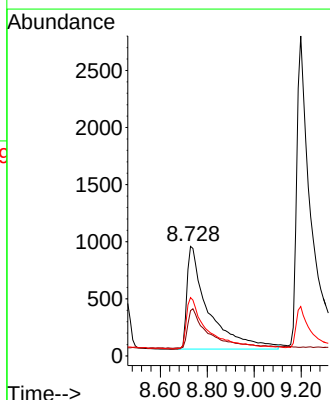
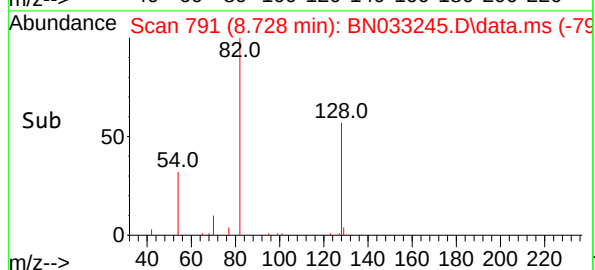
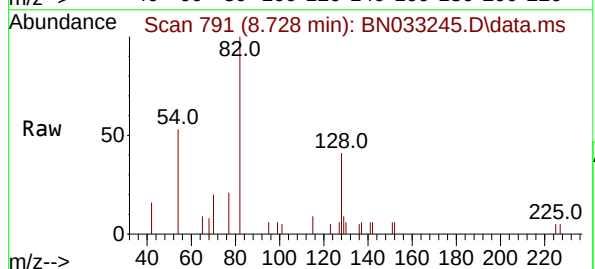
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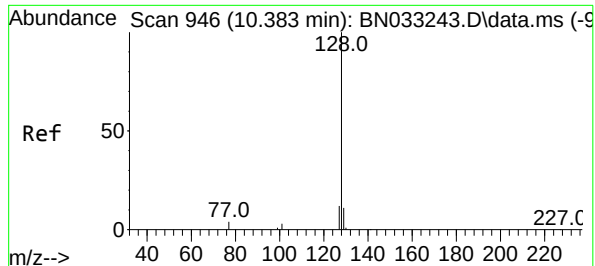
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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#





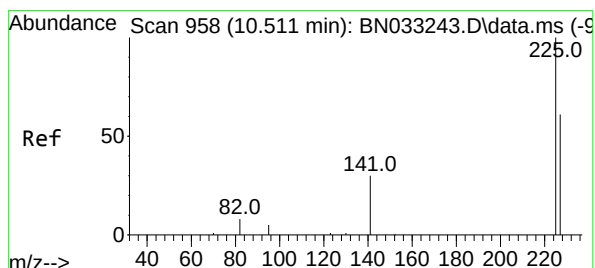
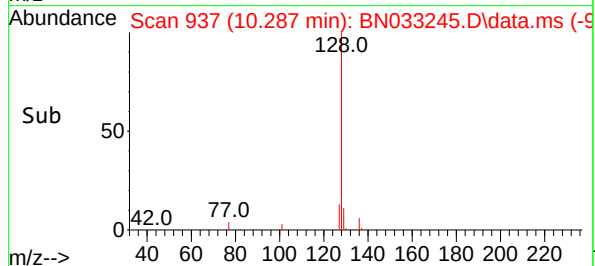
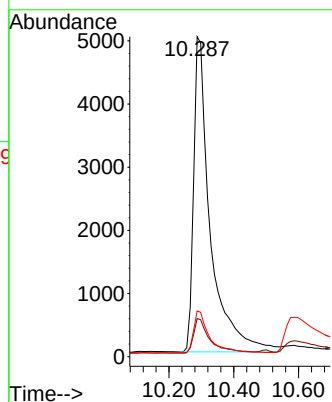
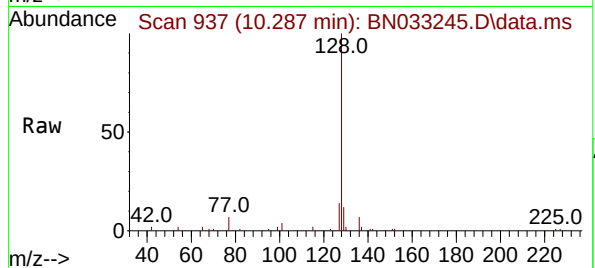
#9
Naphthalene
Concen: 1.684 ng
RT: 10.287 min Scan# 911
Delta R.T. -0.096 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07

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

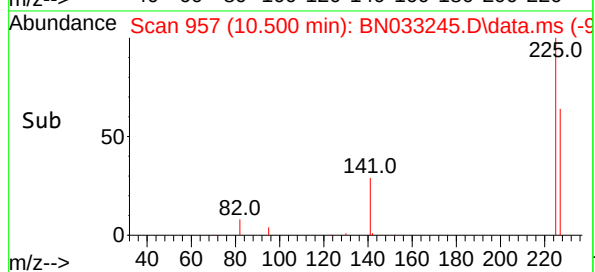
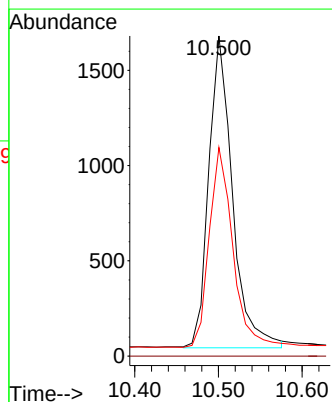
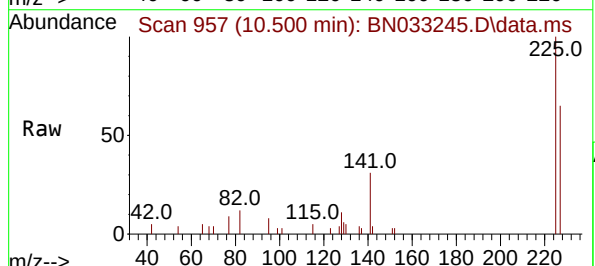
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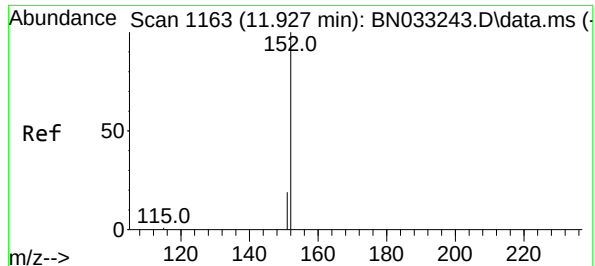
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

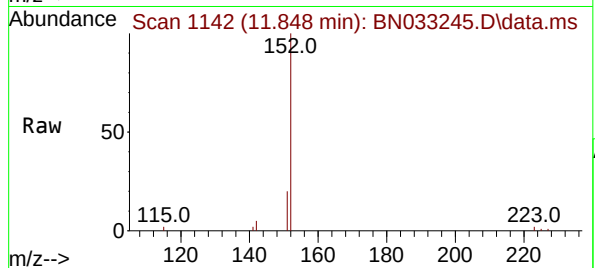
Tgt Ion:225 Resp: 3223
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.8 50.2 75.4





#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

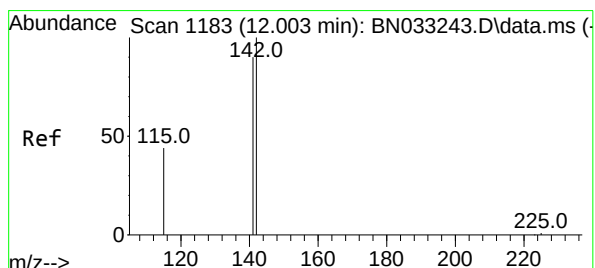
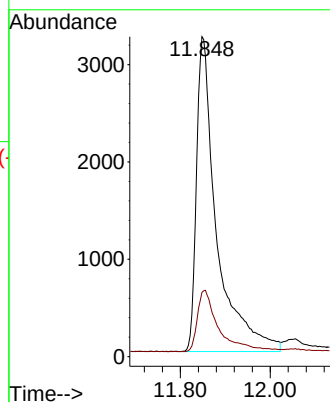
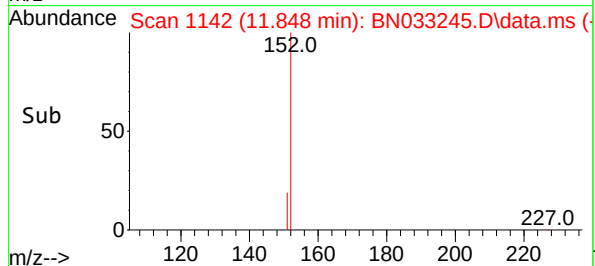
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 1007
Ion Ratio Lower Upper
152 100
151 20.8 11.9 17.9

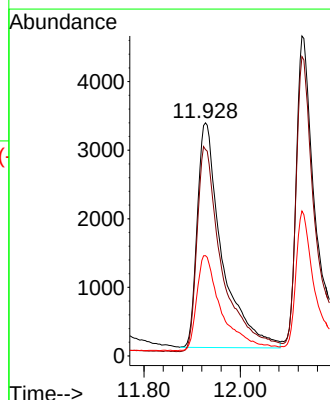
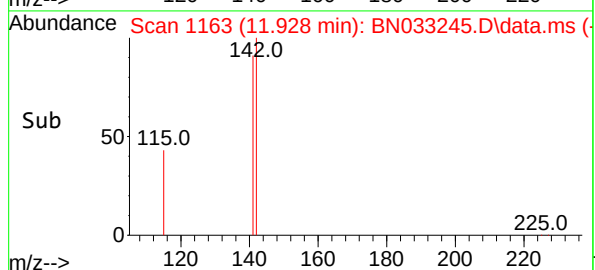
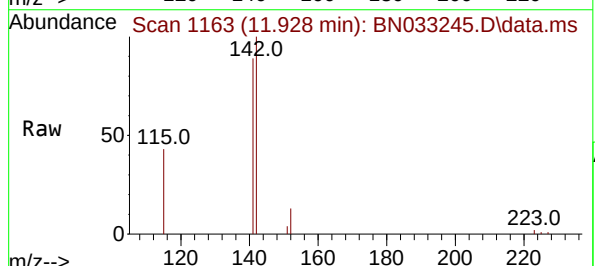
Manual Integrations
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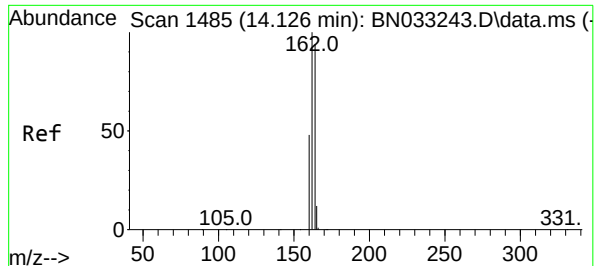
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

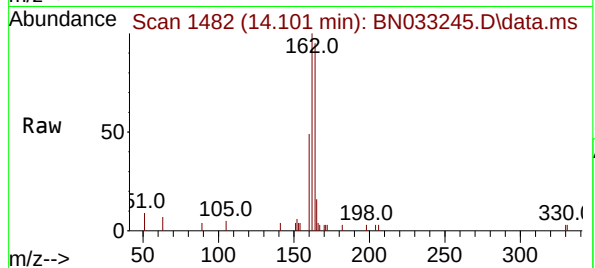
Tgt Ion:142 Resp: 11647
Ion Ratio Lower Upper
142 100
141 88.5 68.7 103.1
115 43.0 41.6 62.4





#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

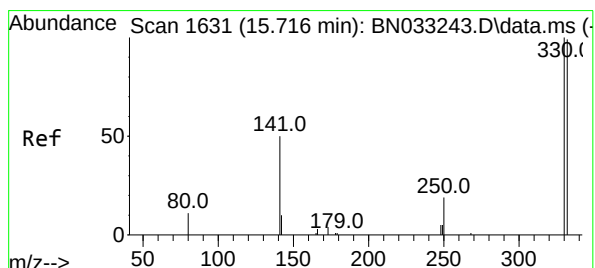
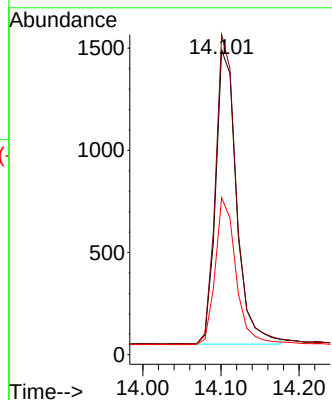
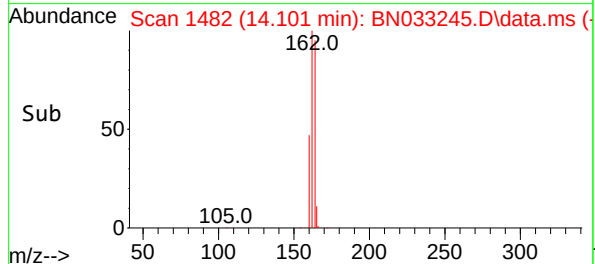
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

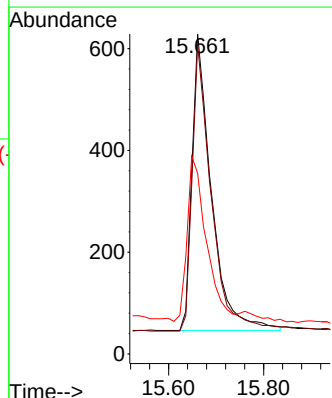
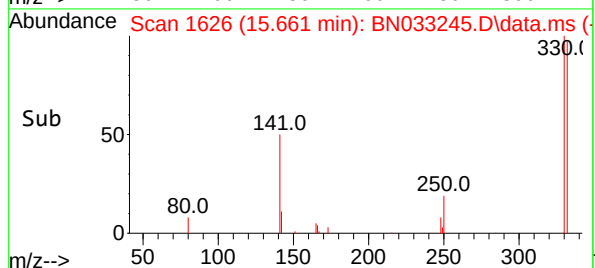
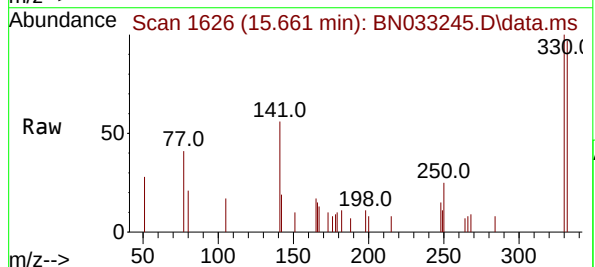
Manual Integrations
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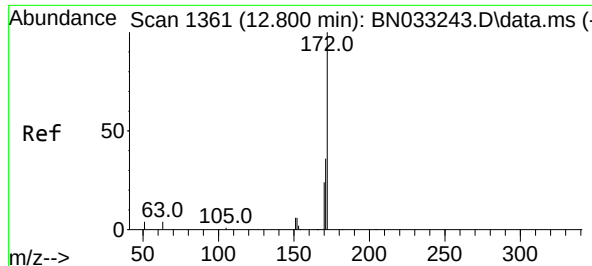
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#14
2,4,6-Tribromophenol
Concen: 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 :

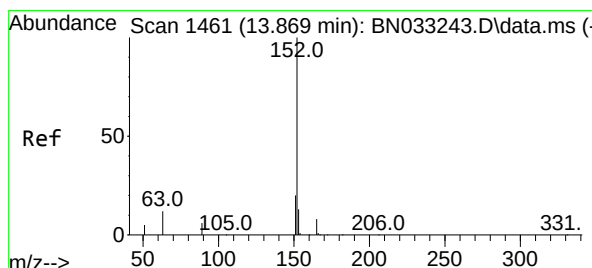
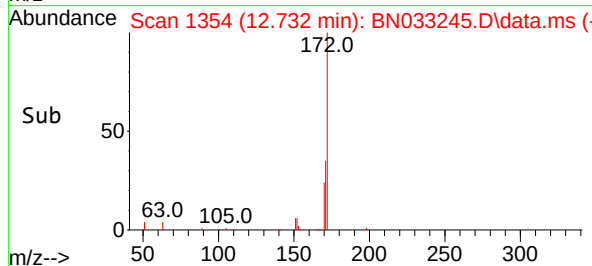
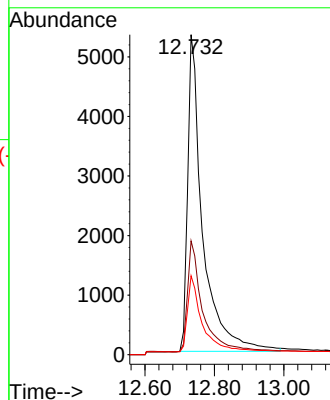
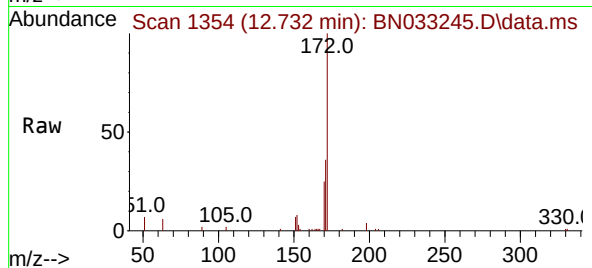
SSTDICC1.6

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

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 1.745 ng

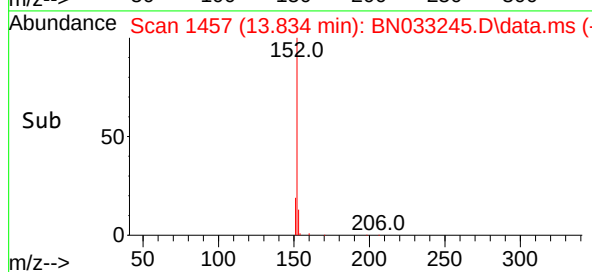
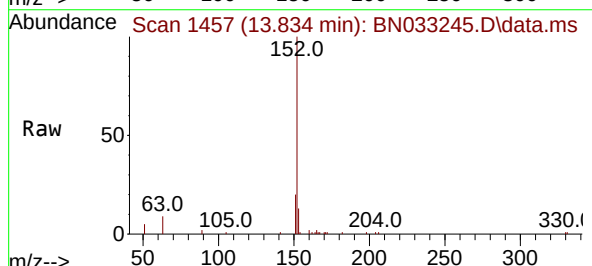
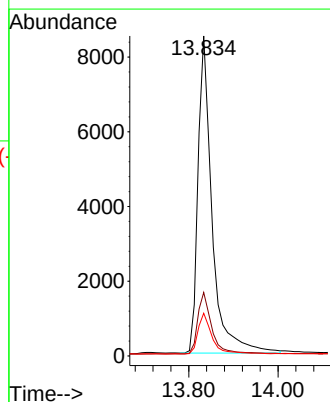
RT: 13.834 min Scan# 1457

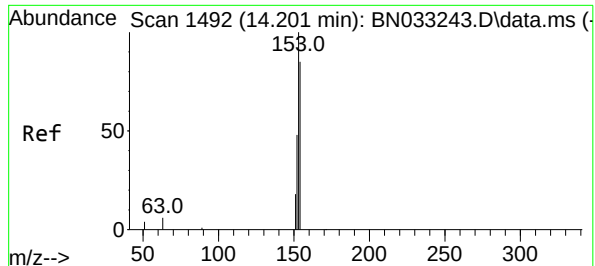
Delta R.T. -0.036 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

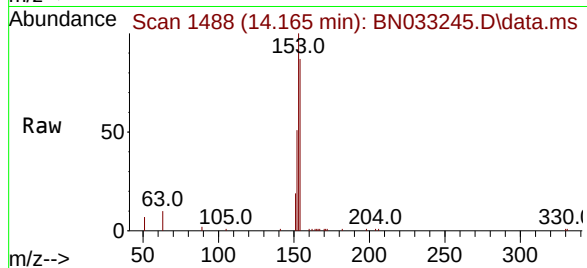
Tgt Ion:	152	Resp:	18666
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.1	24.1
153	12.7	10.2	15.2





#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

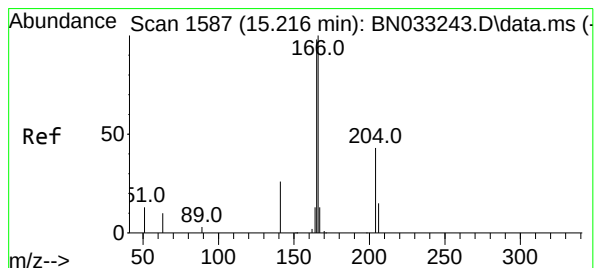
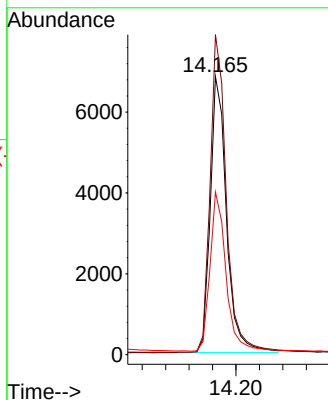
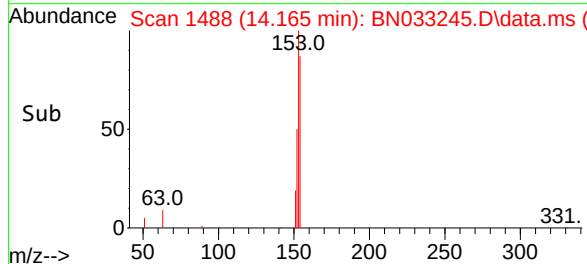
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

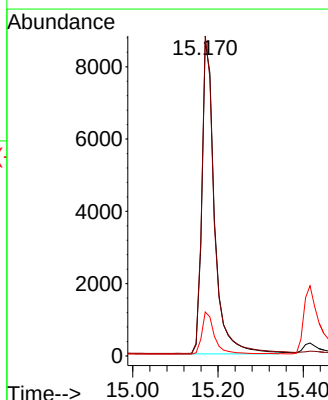
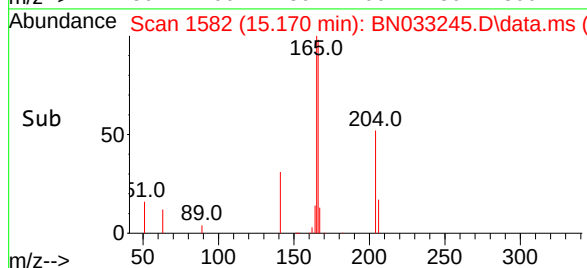
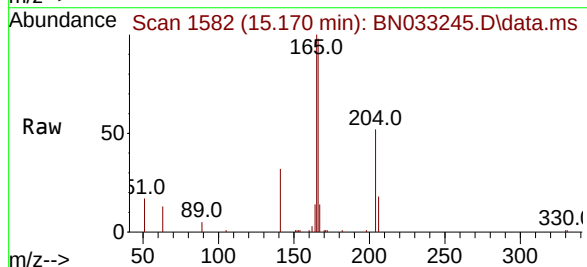
Manual Integrations
APPROVED

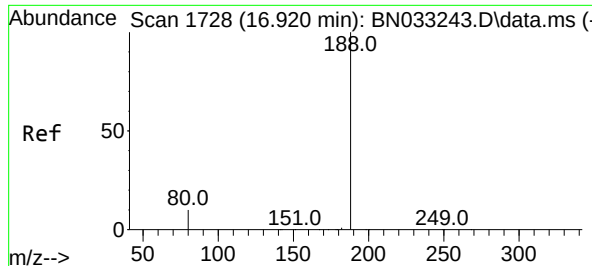
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

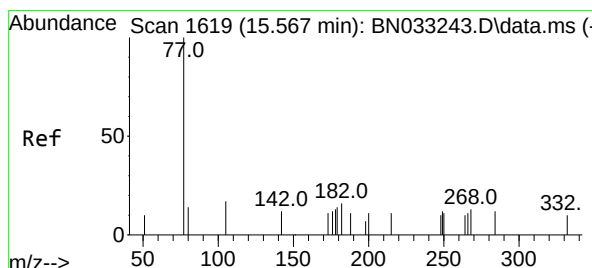
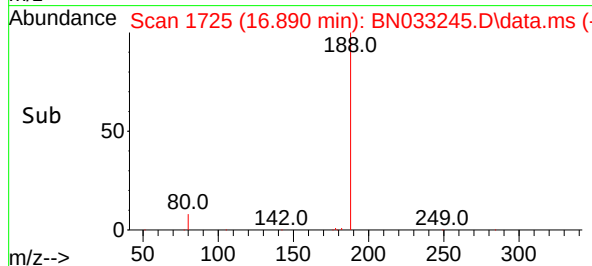
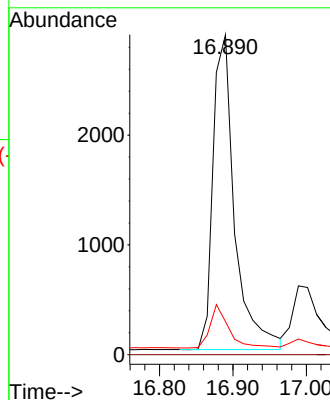
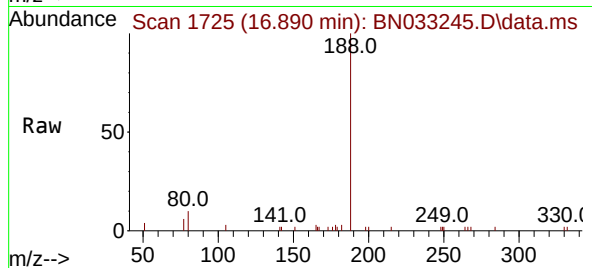
ClientSampleId :

SSTDICC1.6

Tgt Ion:188	Resp:	5864
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.4	15.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 1.547 ng m

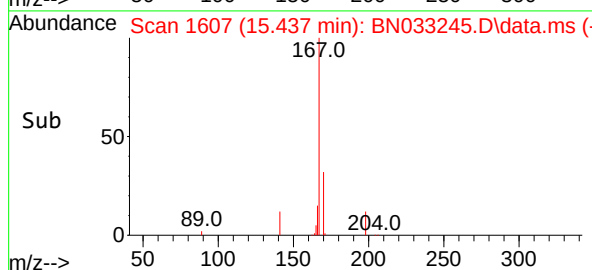
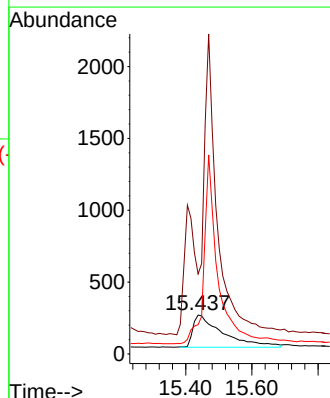
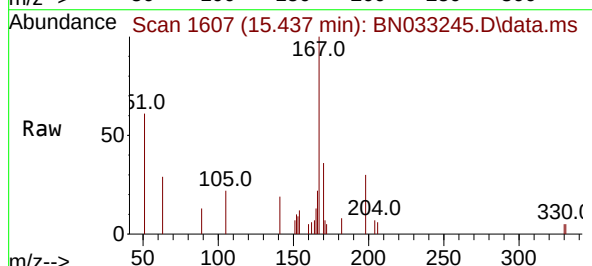
RT: 15.437 min Scan# 1607

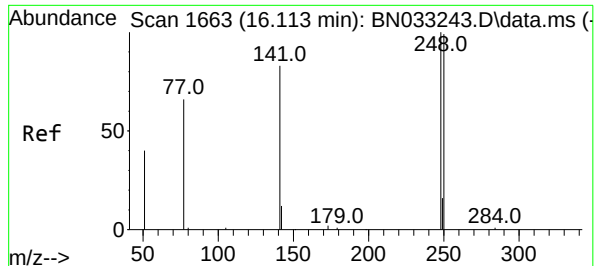
Delta R.T. -0.130 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Tgt Ion:198	Resp:	1462
Ion Ratio	Lower	Upper
198	100	
51	206.3	250.6
105	75.6	152.6





#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

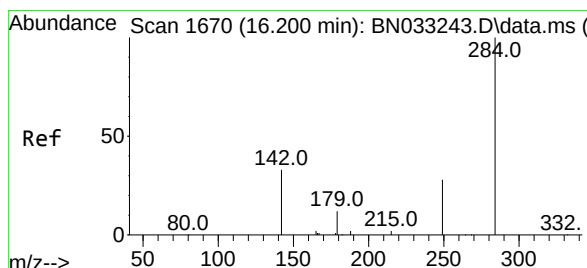
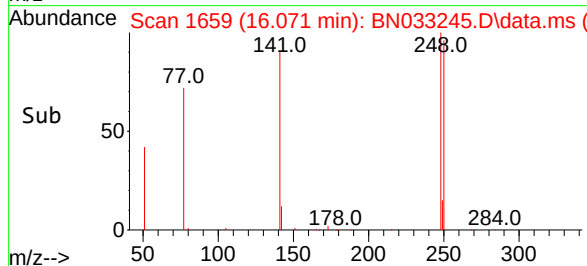
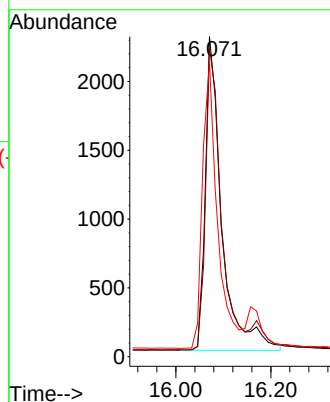
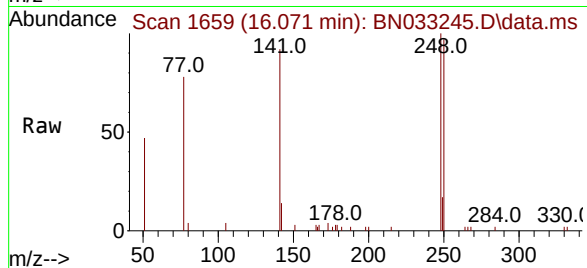
ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.5	80.0	120.0
141	92.1	71.0	106.6

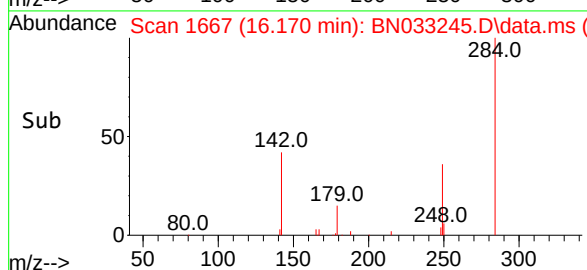
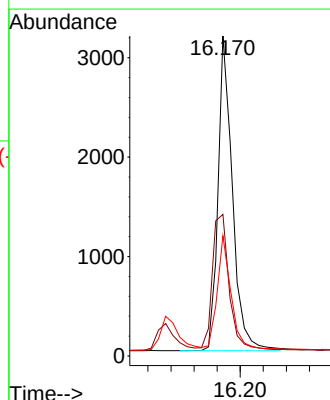
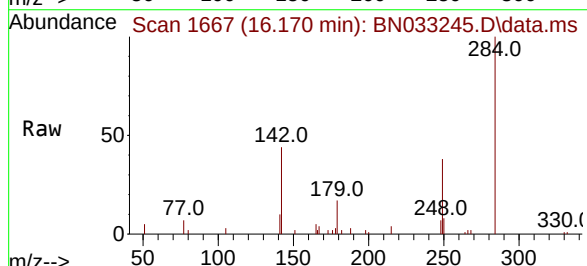
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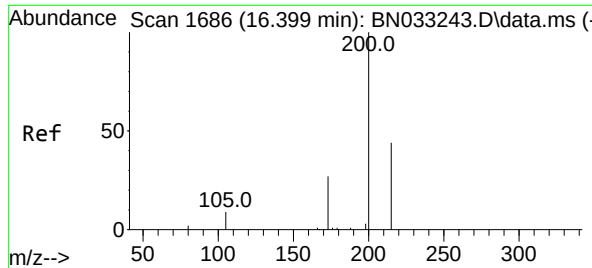
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

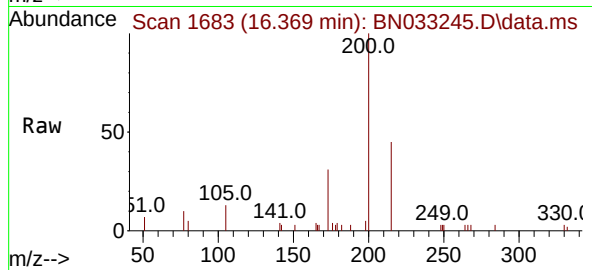
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.1	38.8	58.2
249	34.1	27.8	41.6





#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

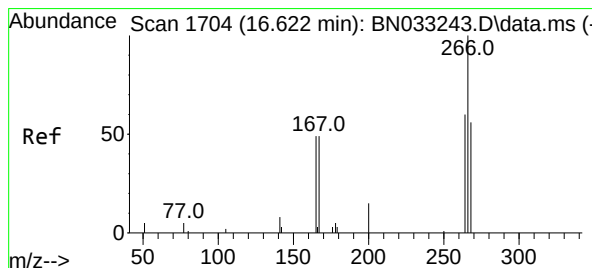
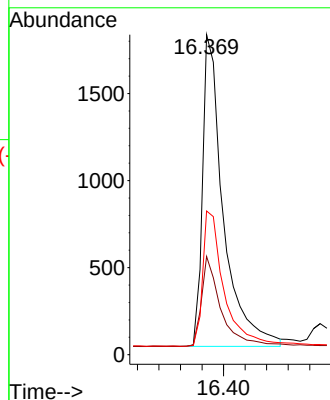
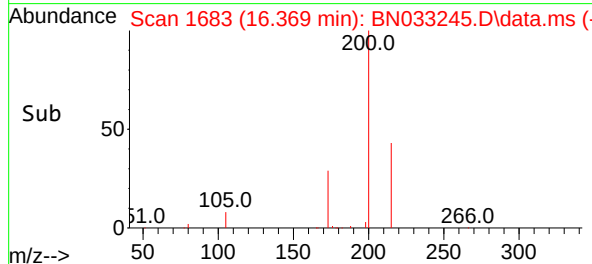
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

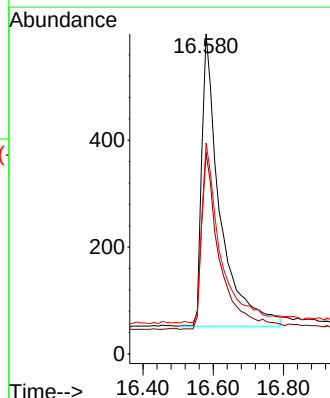
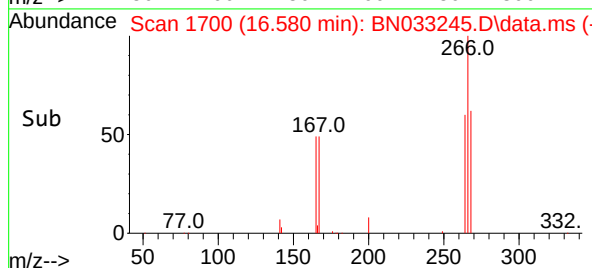
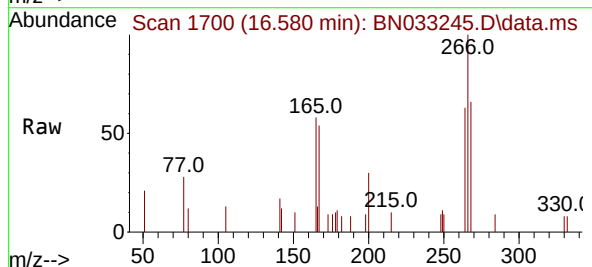
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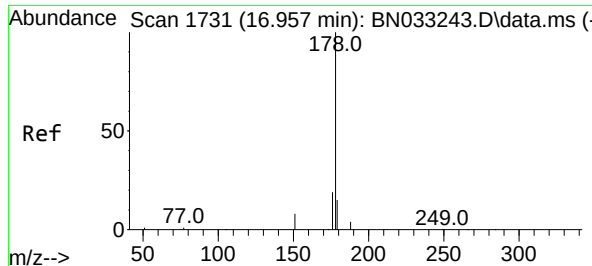
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

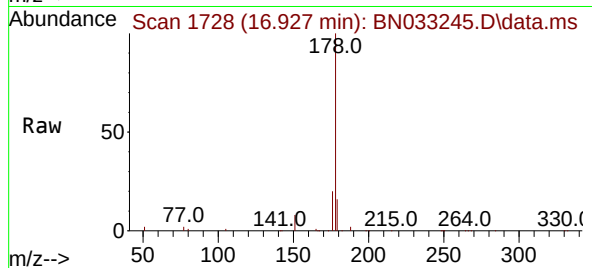
Tgt Ion:266 Resp: 1962
Ion Ratio Lower Upper
266 100
264 60.0 49.3 73.9
268 62.4 50.2 75.2





#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

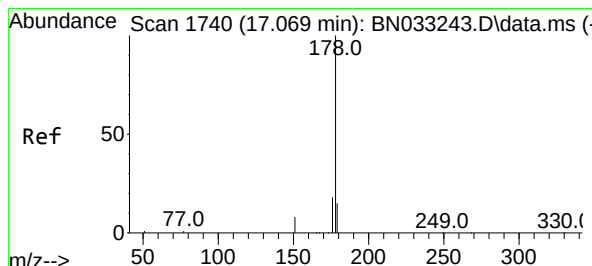
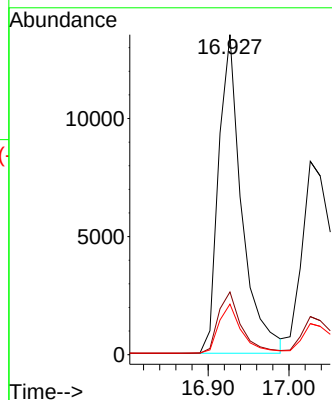
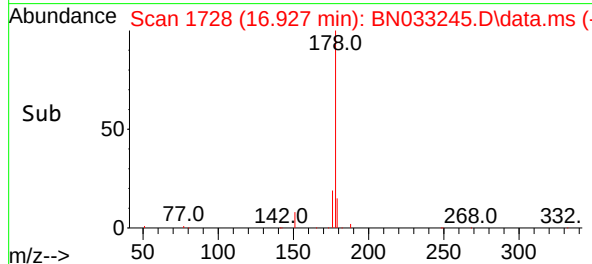
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



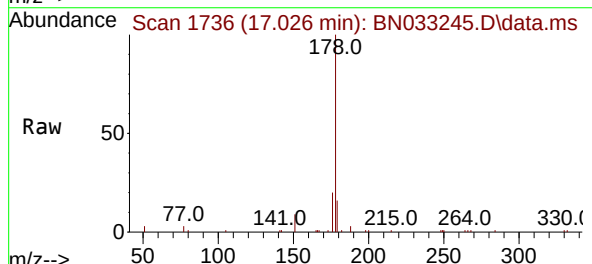
Tgt Ion:178 Resp: 2693
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.3 12.4 18.6

Manual Integrations
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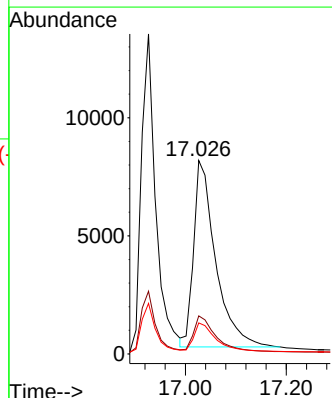
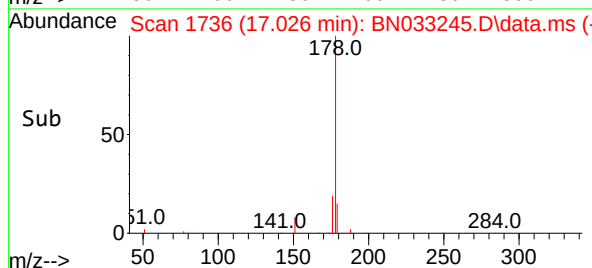
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

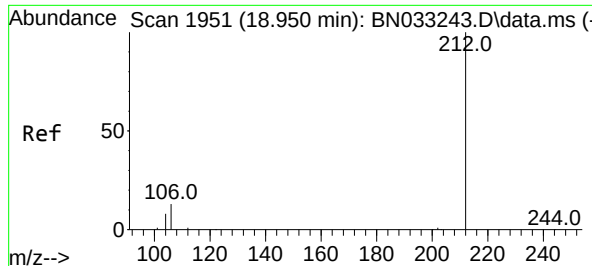


#26
Anthracene
Concen: 1.810 ng
RT: 17.026 min Scan# 1736
Delta R.T. -0.043 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07



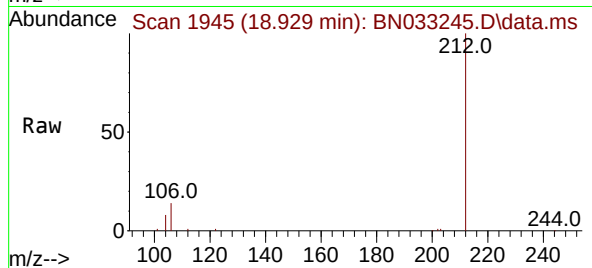
Tgt Ion:178 Resp: 23929
Ion Ratio Lower Upper
178 100
176 18.8 10.5 15.7#
179 15.0 8.6 12.8#





#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

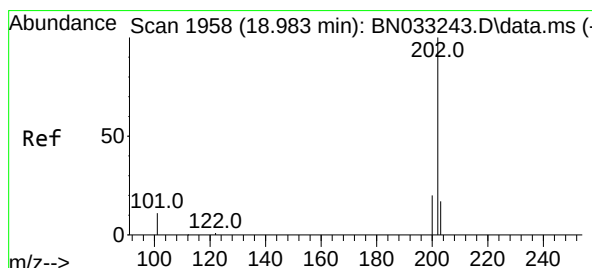
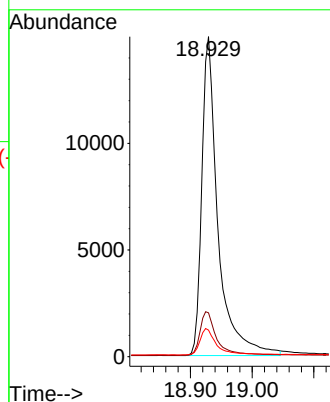
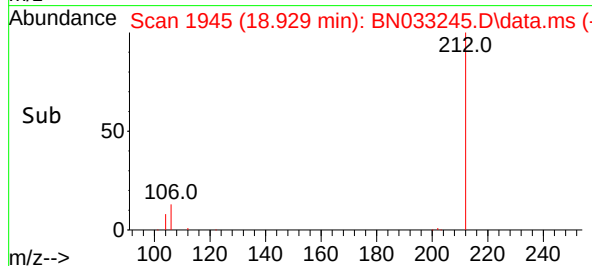
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



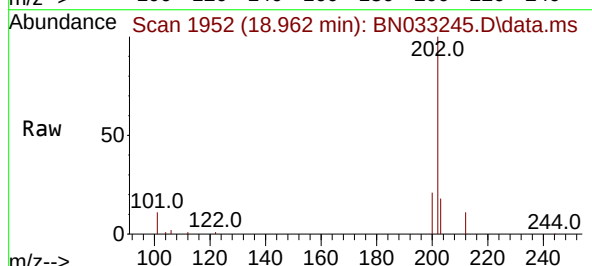
Tgt Ion:212 Resp: 2726
Ion Ratio Lower Upper
212 100
106 14.2 11.4 17.0
104 8.7 7.1 10.7

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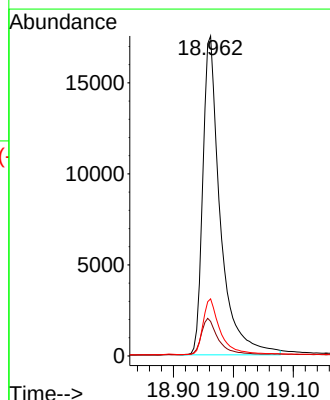
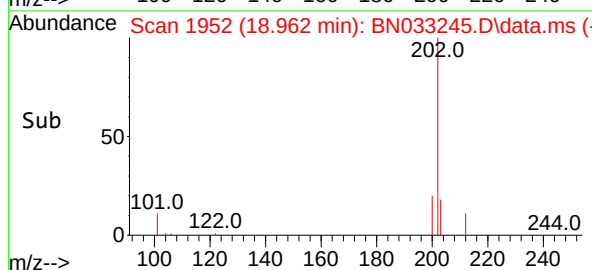
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

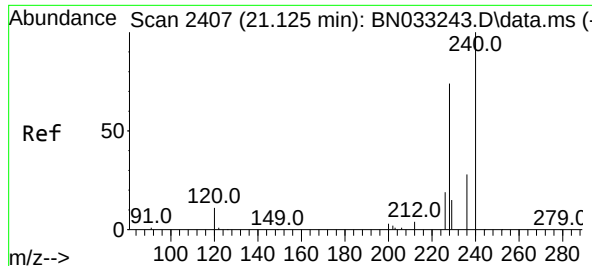


#28
Fluoranthene
Concen: 1.642 ng
RT: 18.962 min Scan# 1952
Delta R.T. -0.021 min
Lab File: BN033245.D
Acq: 05 Aug 2024 21:07



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 :

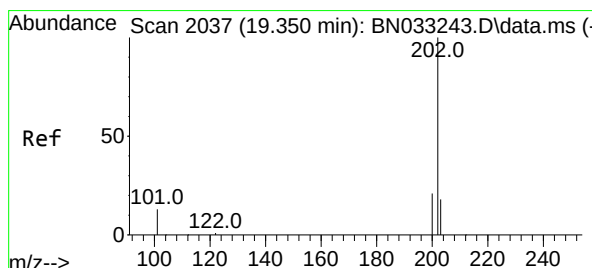
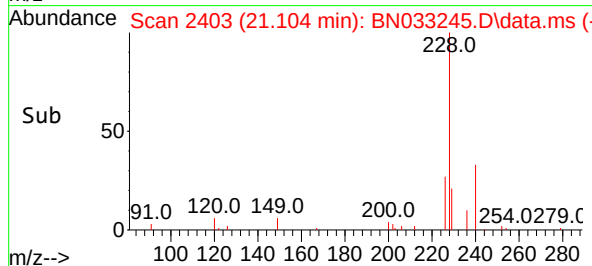
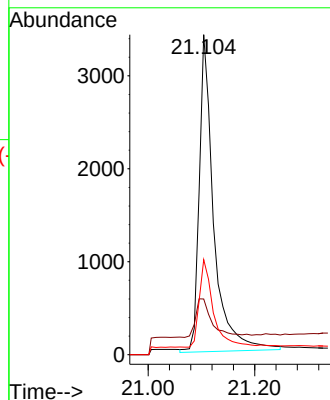
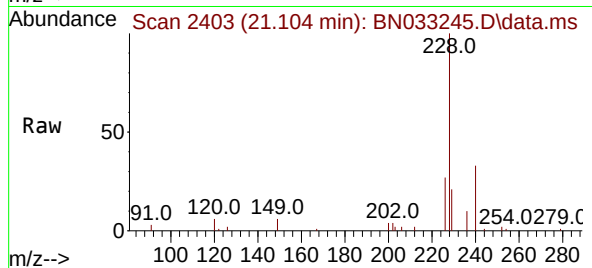
SSTDICC1.6

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

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 1.659 ng

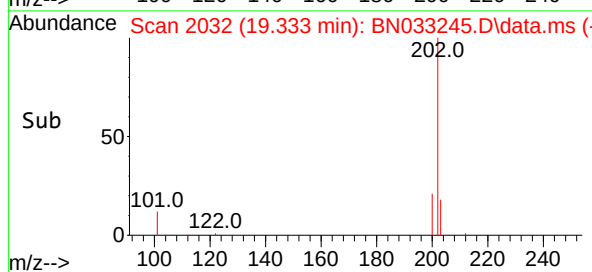
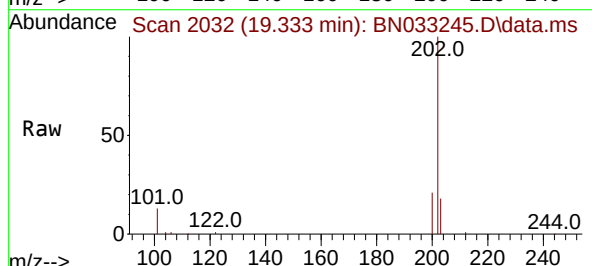
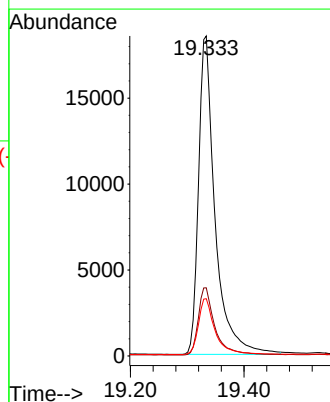
RT: 19.333 min Scan# 2032

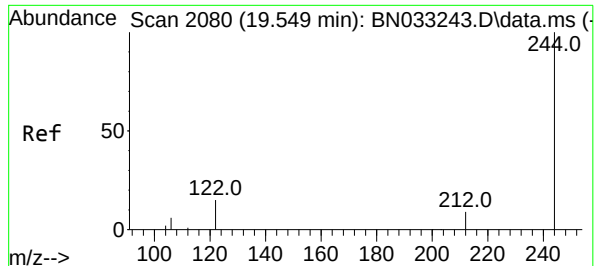
Delta R.T. -0.016 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

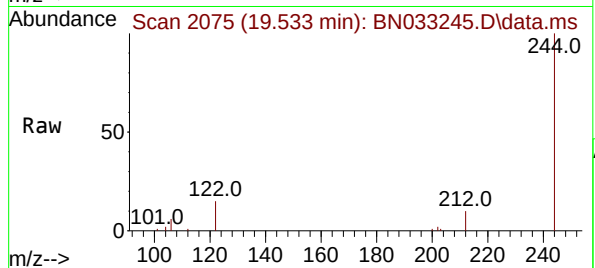
Tgt Ion:	202	Resp:	37401
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.9	14.4	21.6





#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

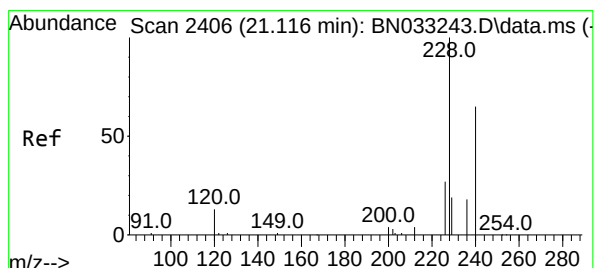
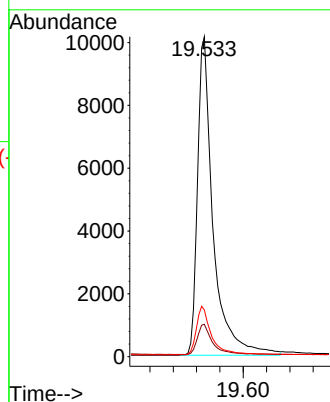
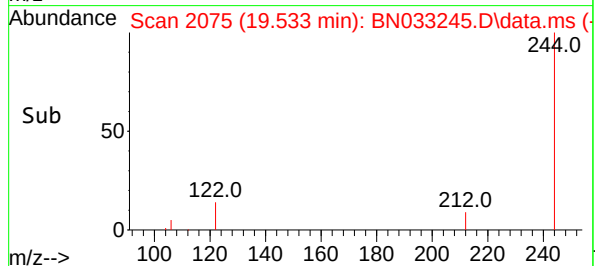
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

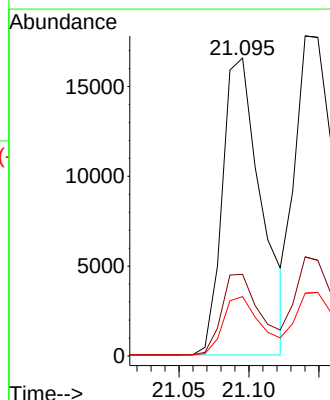
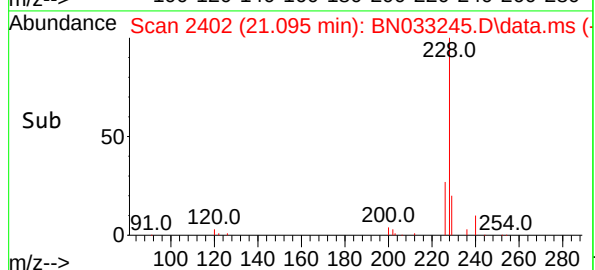
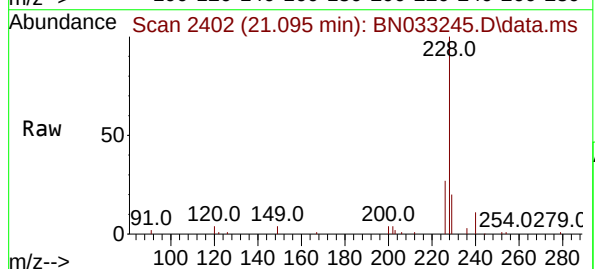
Manual Integrations
APPROVED

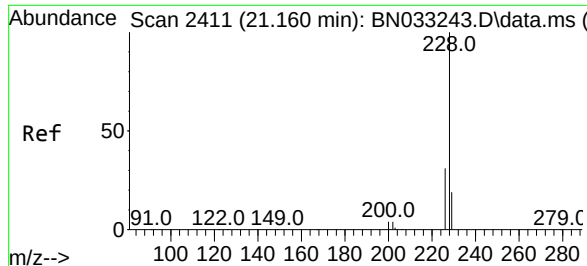
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

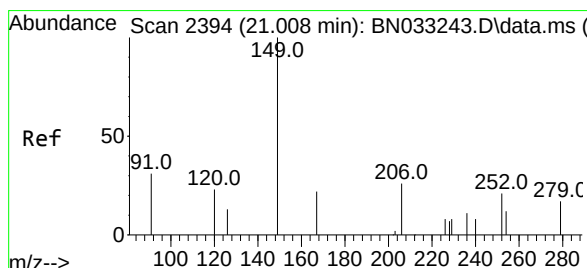
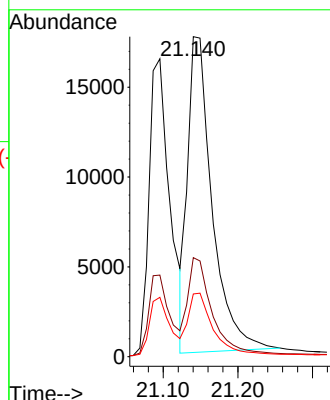
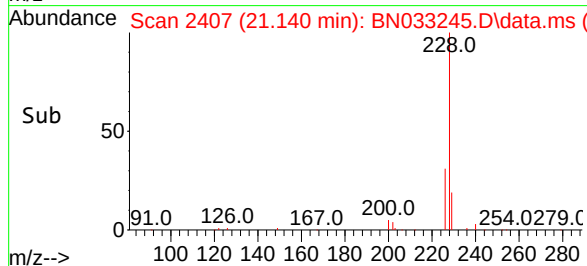
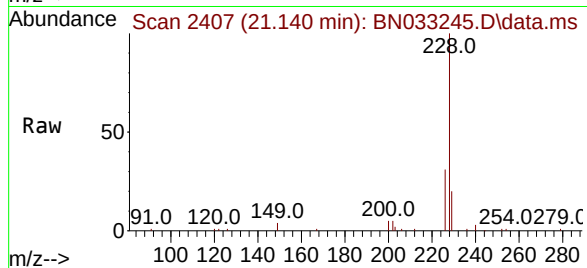
Instrument :

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
APPROVEDReviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.432 ng

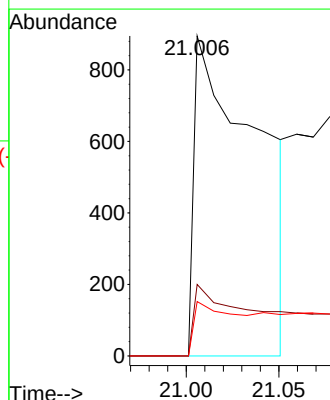
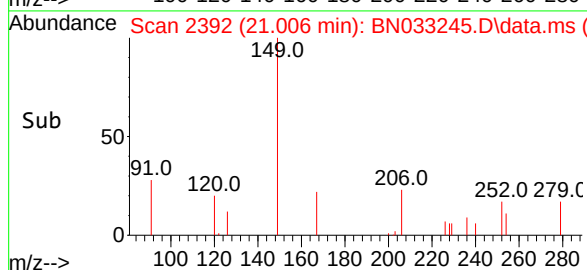
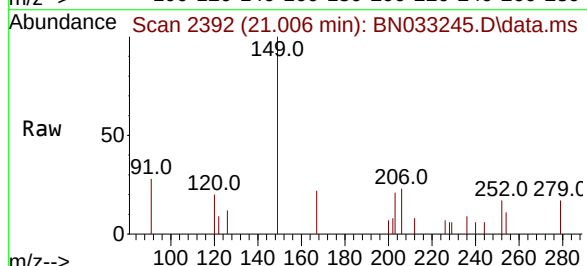
RT: 21.006 min Scan# 2392

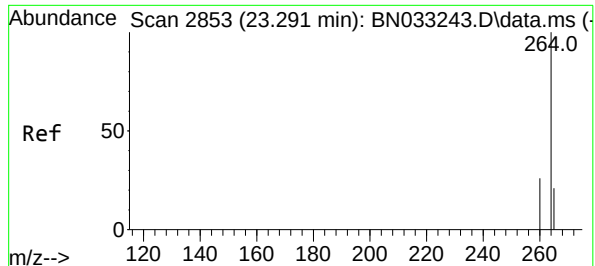
Delta R.T. -0.002 min

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

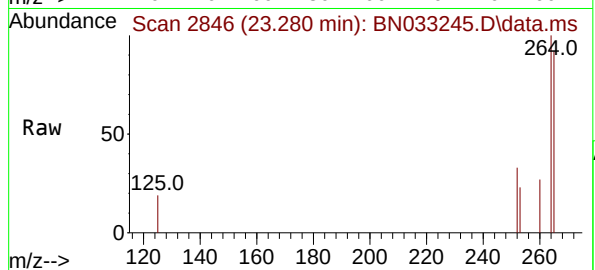
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:264 Resp: 7359

Ion Ratio Lower Upper

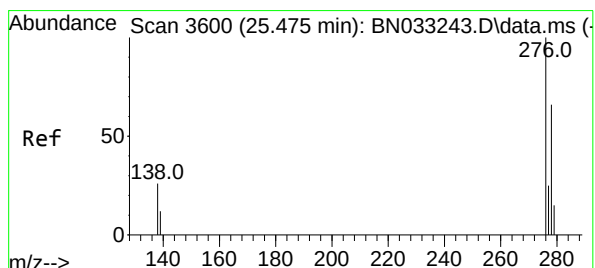
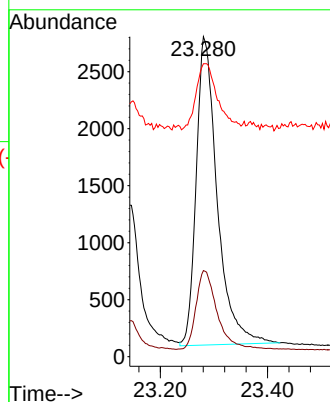
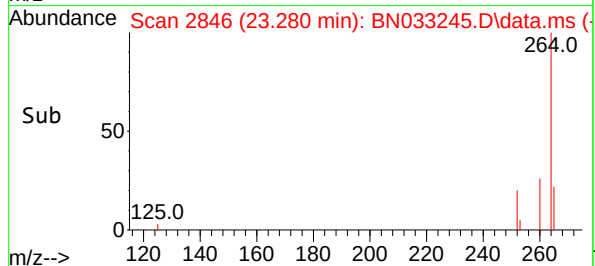
264 100

260 26.9 21.4 32.2

265 91.6 66.6 99.8

Manual Integrations

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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: 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

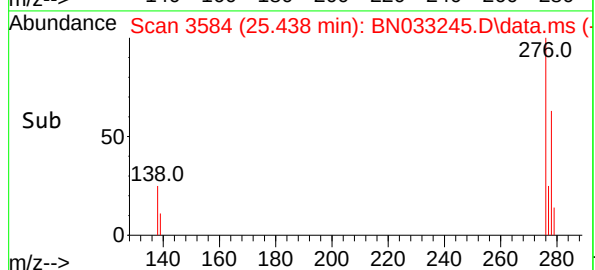
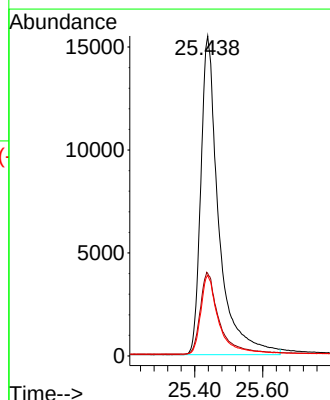
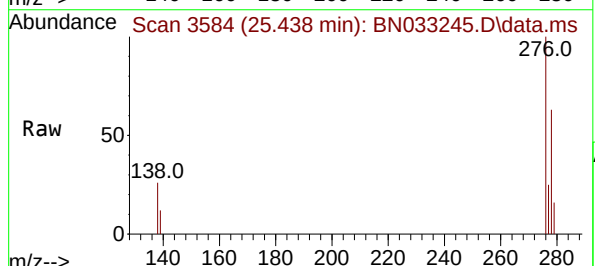
Tgt Ion:276 Resp: 56857

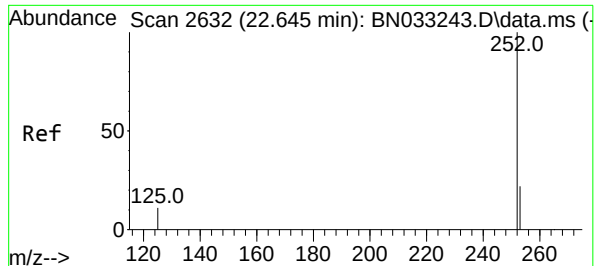
Ion Ratio Lower Upper

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

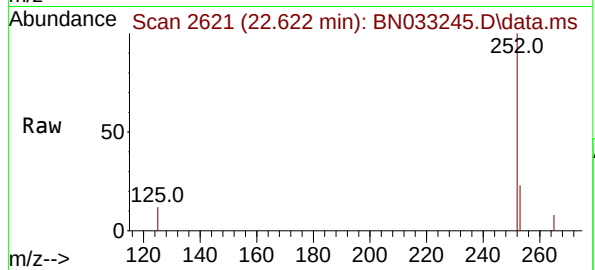
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:252 Resp: 4081

Ion Ratio Lower Upper

252 100

253 23.3 23.3 34.9

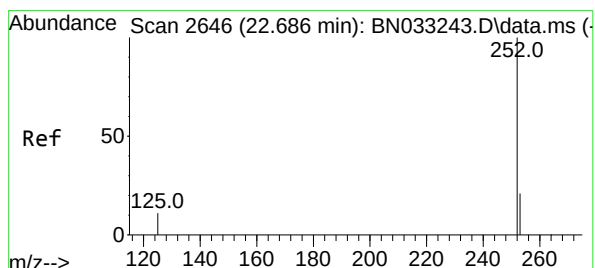
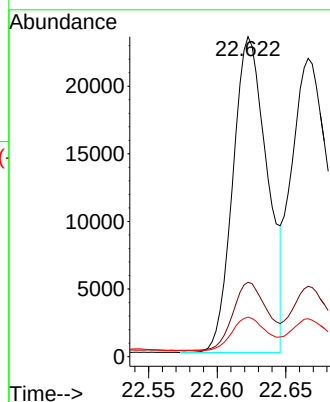
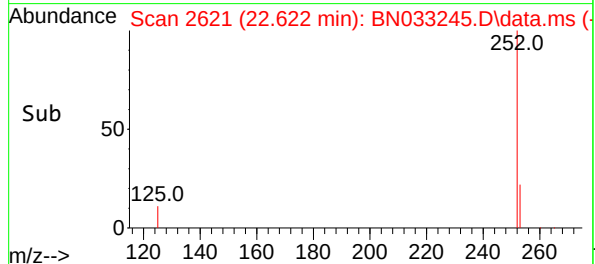
125 12.4 14.6 22.0

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: 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

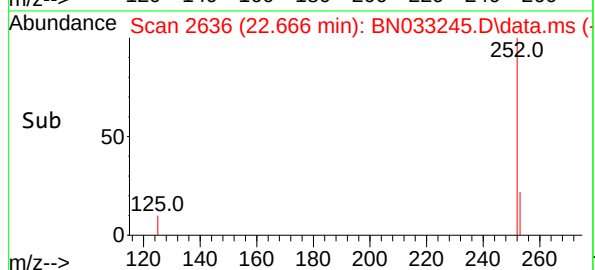
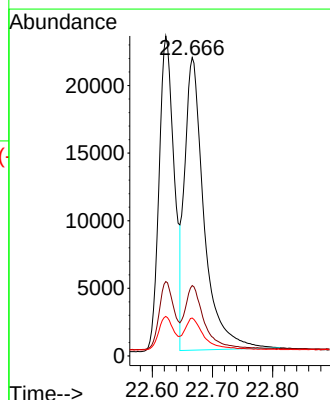
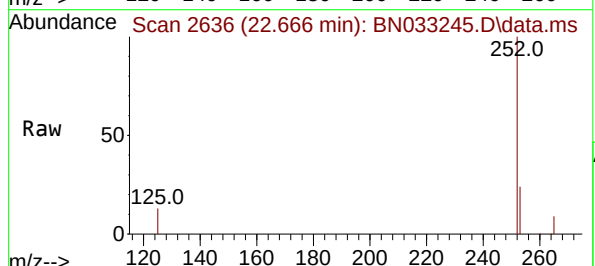
Tgt Ion:252 Resp: 48357

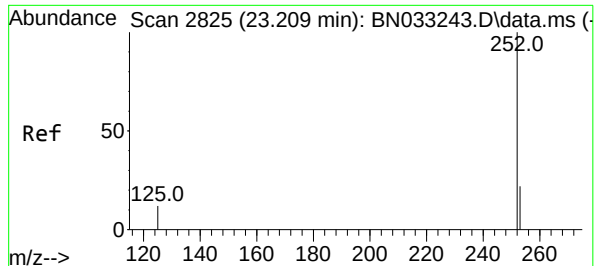
Ion Ratio Lower Upper

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 :

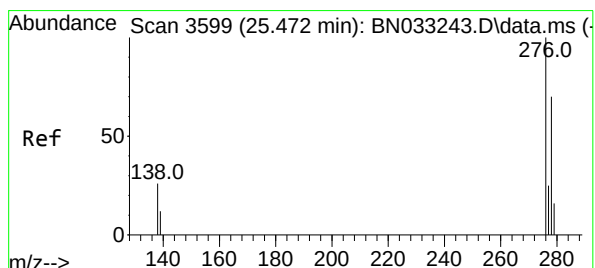
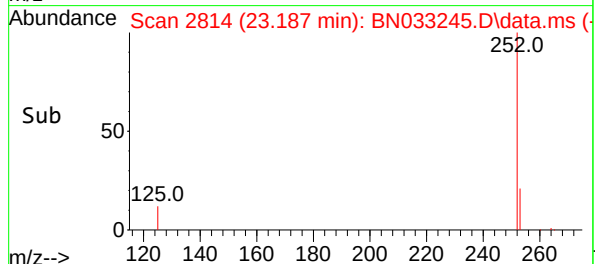
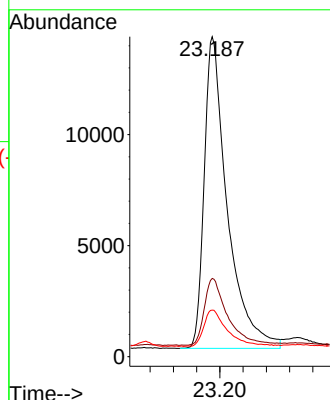
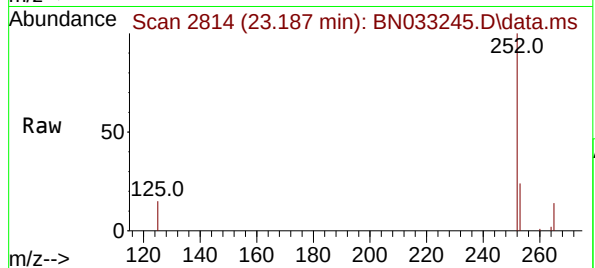
SSTDICC1.6

Tgt Ion:	252	Resp:	3876
Ion Ratio	Lower	Upper	
252	100		
253	24.5	28.4	42.6
125	14.5	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: 1.713 ng

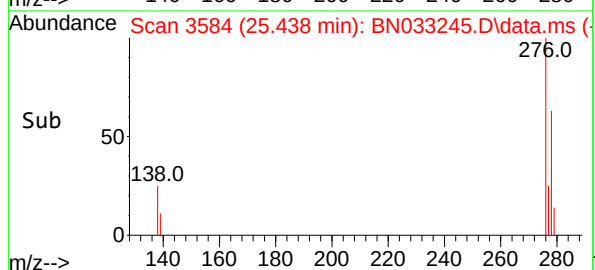
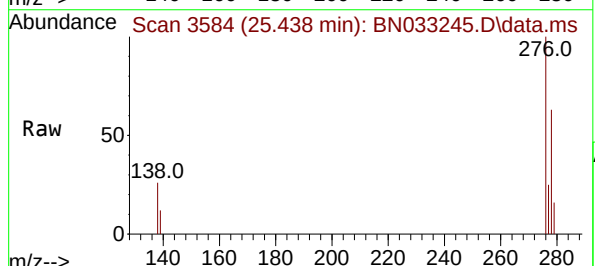
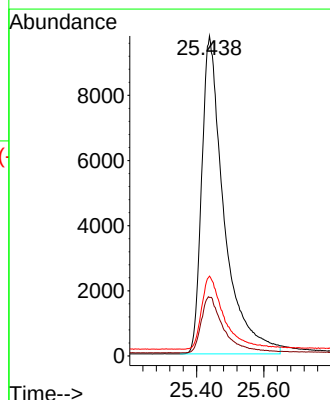
RT: 25.438 min Scan# 3584

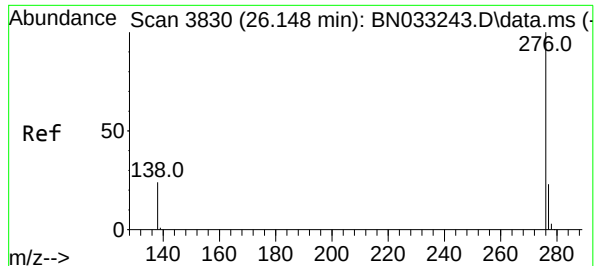
Delta R.T. -0.034 min

Lab File: BN033245.D

Acq: 05 Aug 2024 21:07

Tgt Ion:	278	Resp:	44999
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

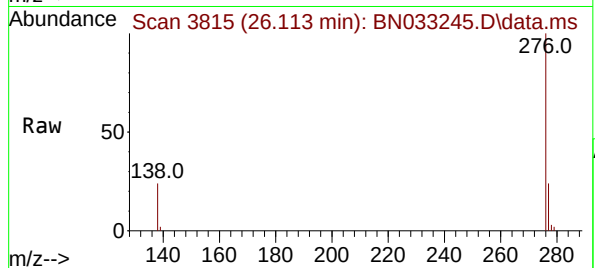
Acq: 05 Aug 2024 21:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion: 276 Resp: 50740

Ion Ratio Lower Upper

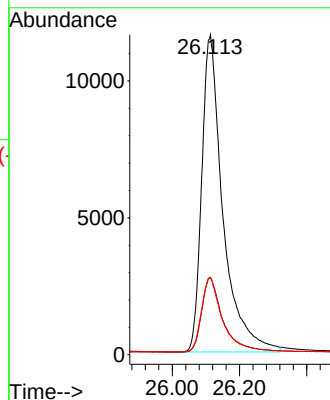
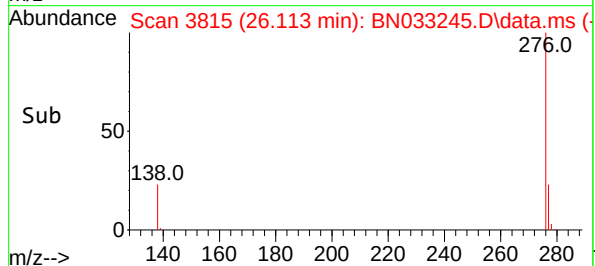
276 100

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
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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 :

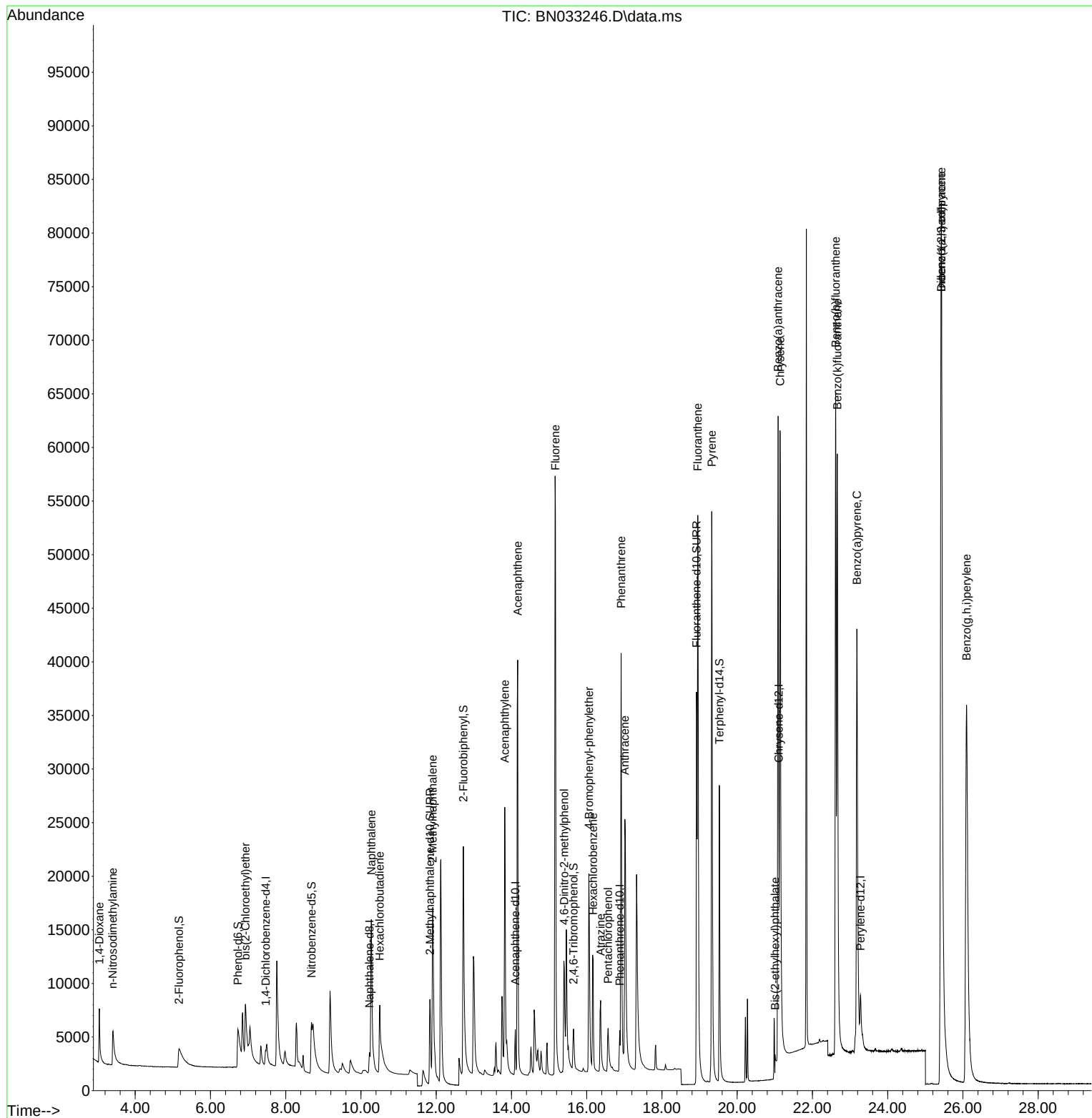
SSTDICC3.2

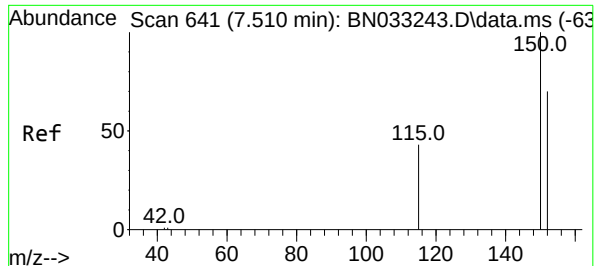
Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

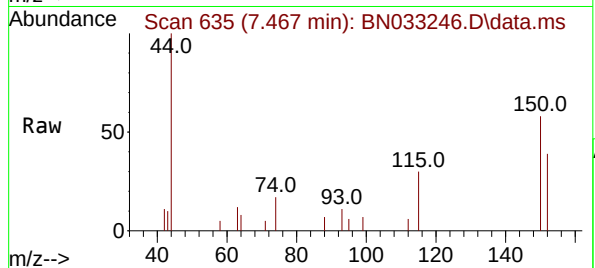
Quant Time: Aug 05 23:46:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:33:19 2024
Response via : Initial Calibration





#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

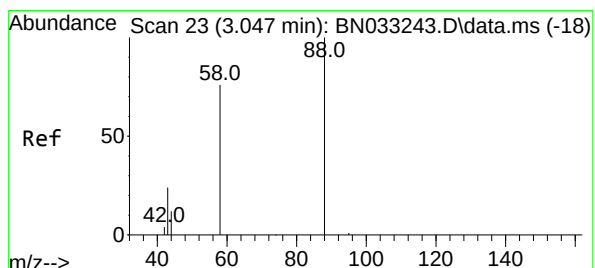
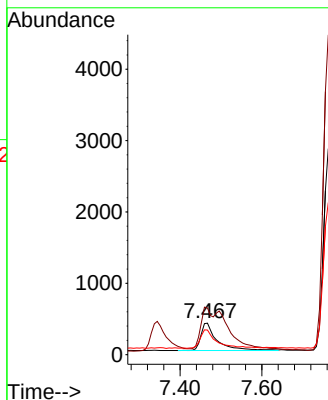
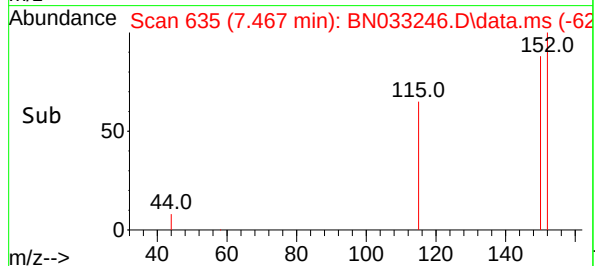
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



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

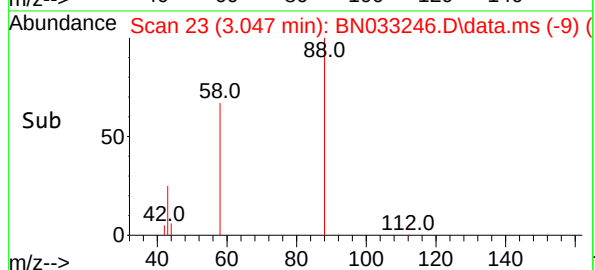
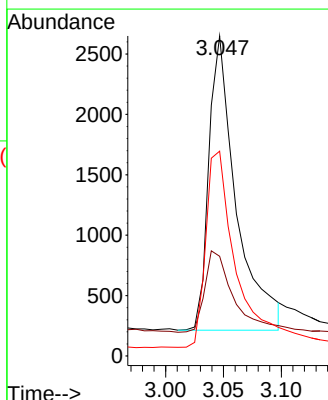
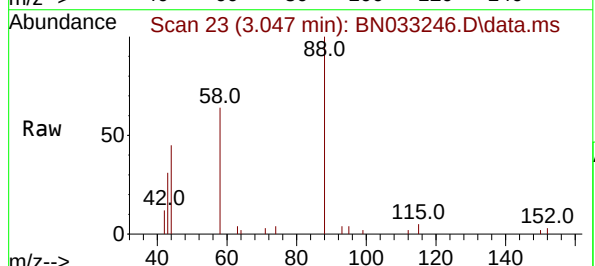
Manual Integrations
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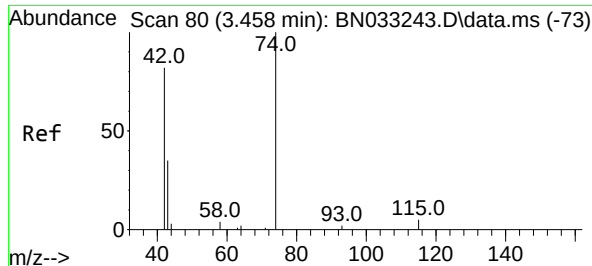
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

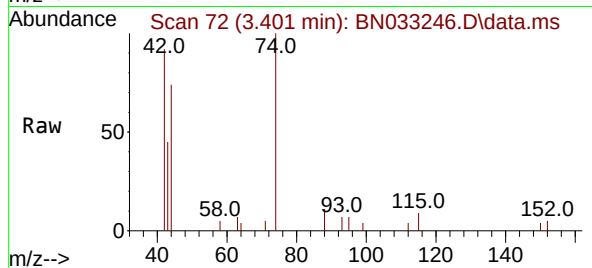
Tgt Ion: 88 Resp: 4007
Ion Ratio Lower Upper
88 100
43 29.1 18.6 28.0#
58 72.4 54.5 81.7





#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

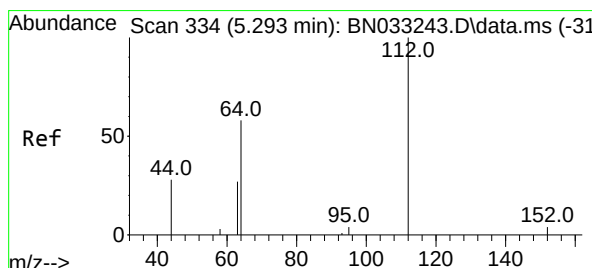
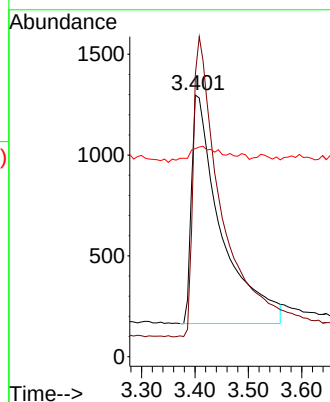
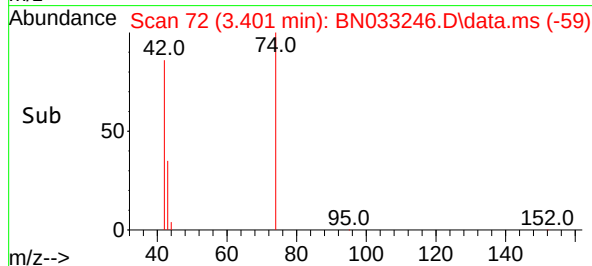
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 42 Resp: 433
Ion Ratio Lower Upper
42 100
74 129.8 0.0 0.0#
44 8.0 9.6 14.4#

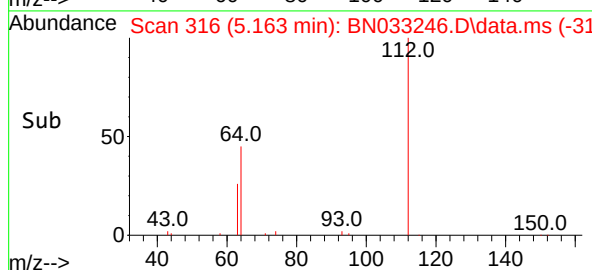
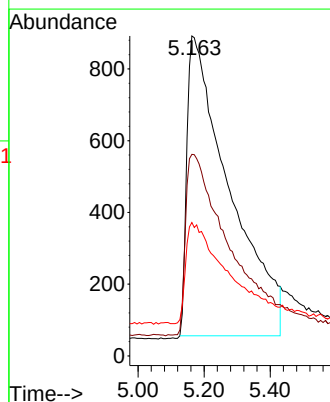
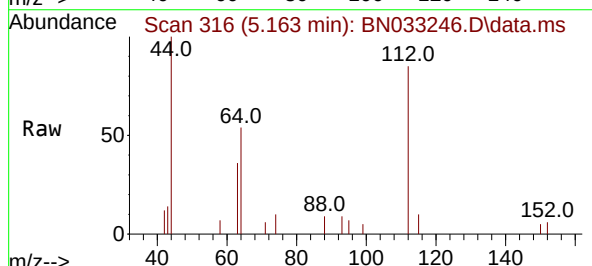
Manual Integrations
APPROVED

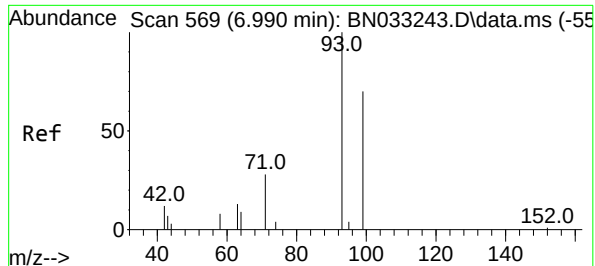
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

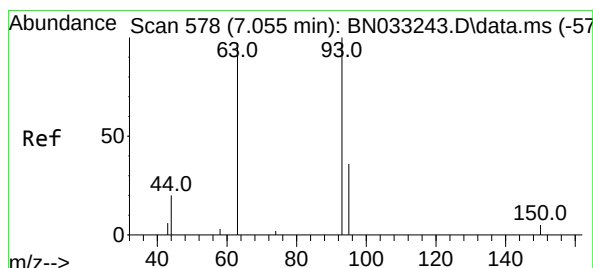
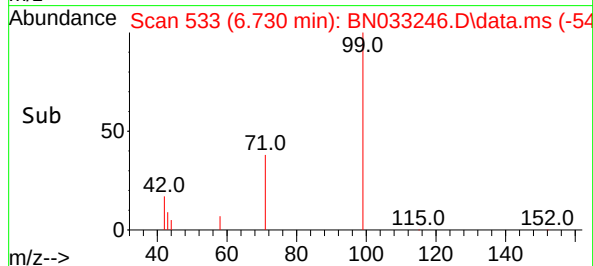
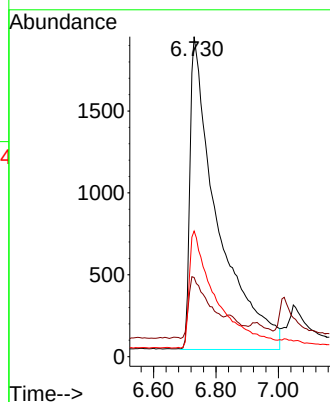
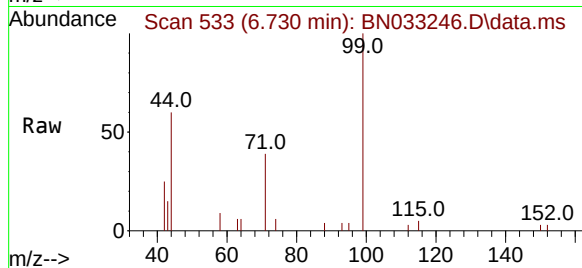
SSTDICC3.2

Tgt Ion: 99 Resp: 1164

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

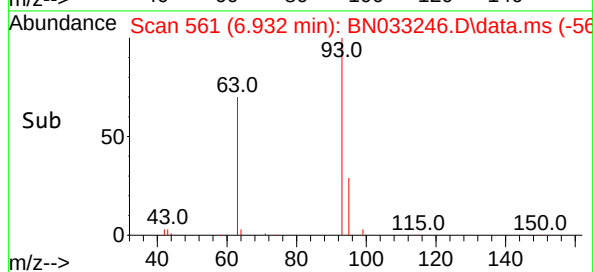
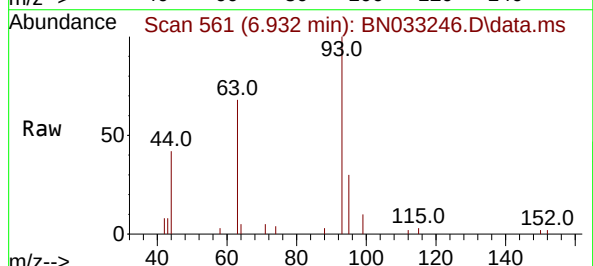
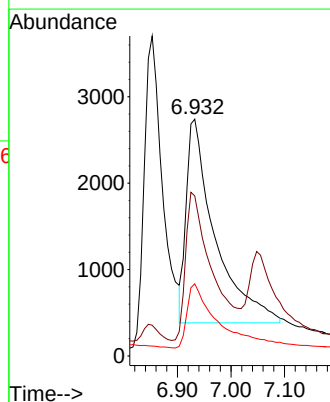
Delta R.T. -0.123 min

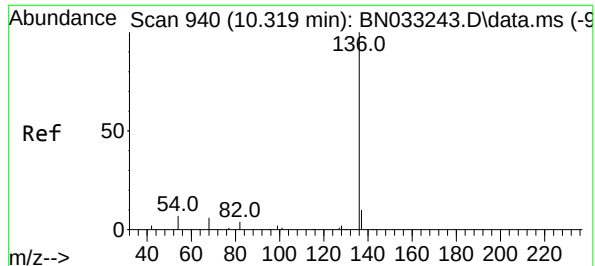
Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Tgt Ion: 93 Resp: 8783

Ion	Ratio	Lower	Upper
93	100		
63	0.0	1.1	1.7#
95	0.0	0.0	0.0





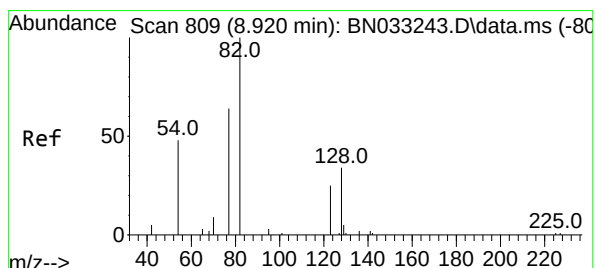
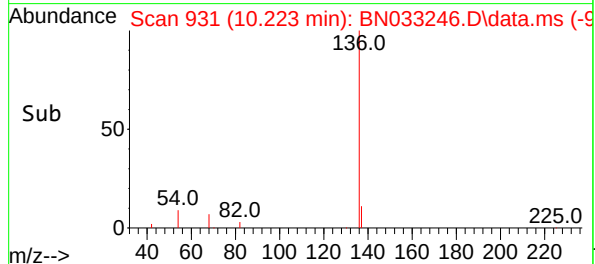
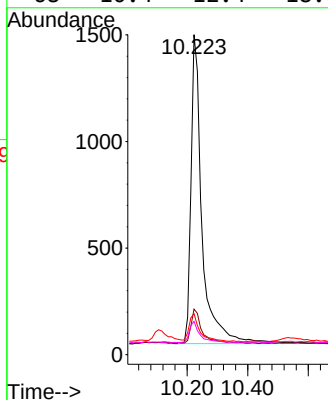
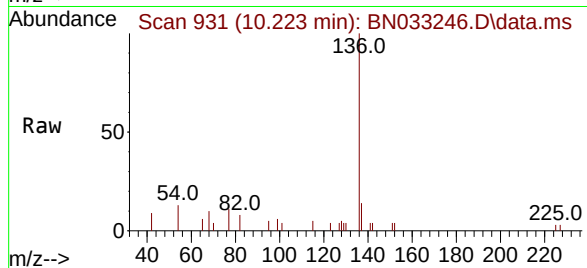
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.223 min Scan# 91
Delta R.T. -0.096 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion	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

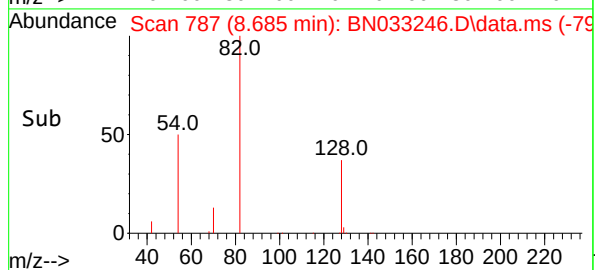
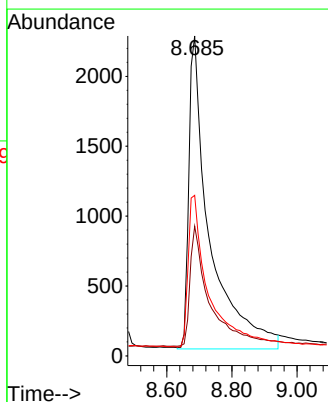
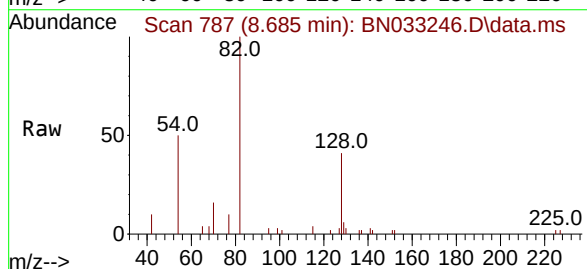
Manual Integrations
APPROVED

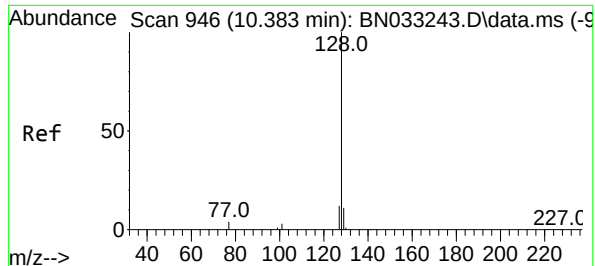
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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	Ratio	Lower	Upper
82	100		
128	40.5	54.8	82.2
54	50.2	55.9	83.9





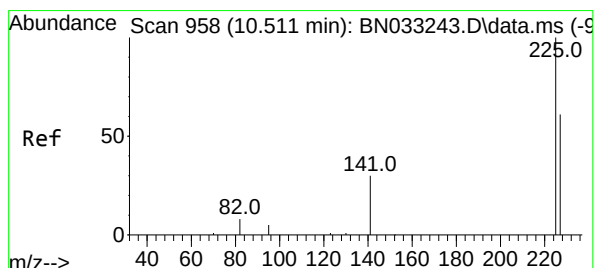
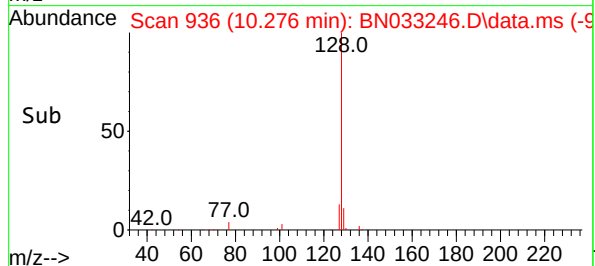
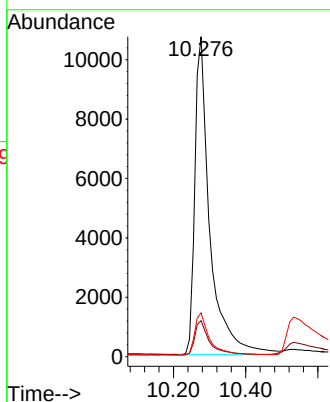
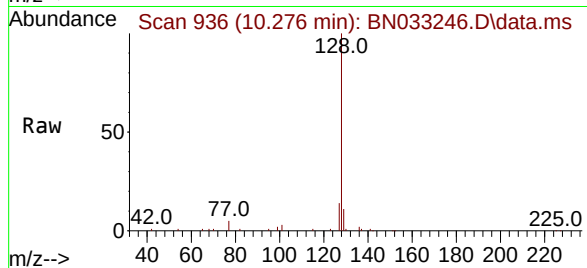
#9
Naphthalene
Concen: 3.110 ng
RT: 10.276 min Scan# 911
Delta R.T. -0.107 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

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

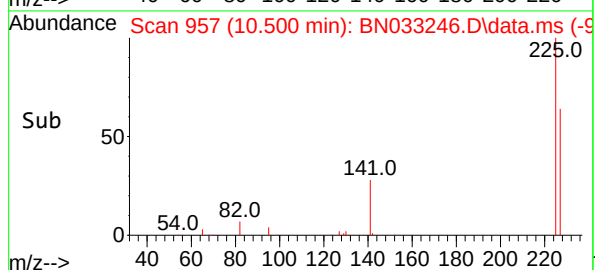
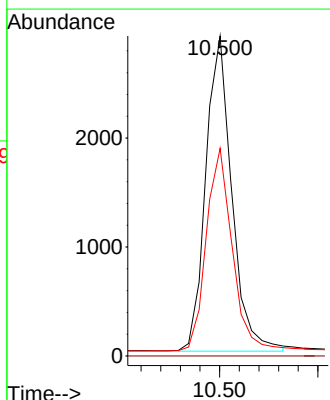
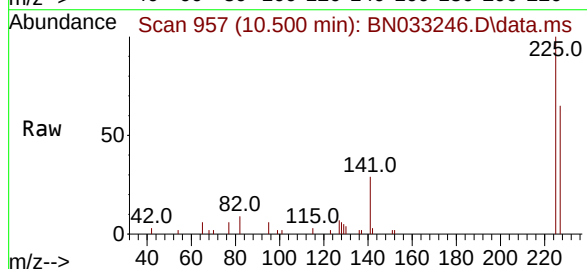
Manual Integrations
APPROVED

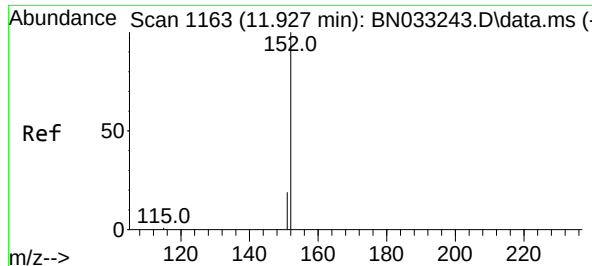
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

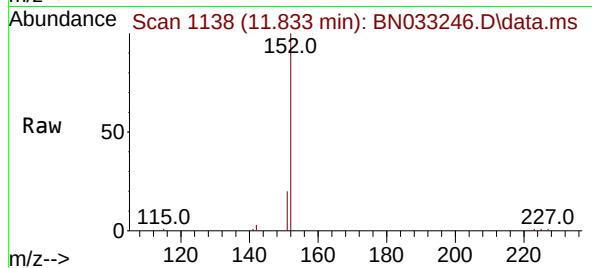
Tgt Ion:225 Resp: 5329
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.1 50.2 75.4





#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

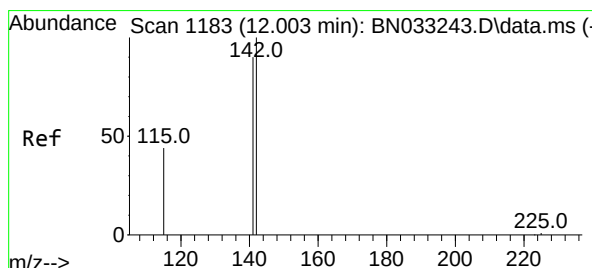
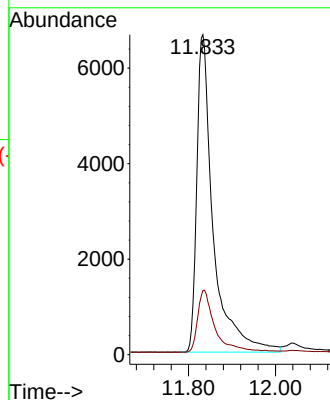
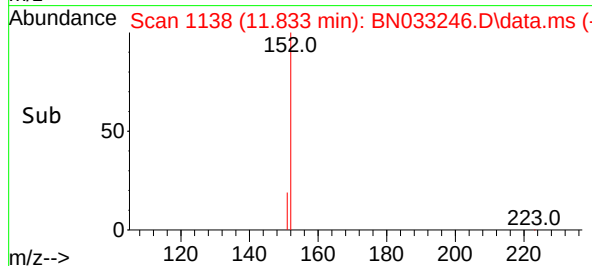
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 1743
Ion Ratio Lower Upper
152 100
151 20.4 11.9 17.9

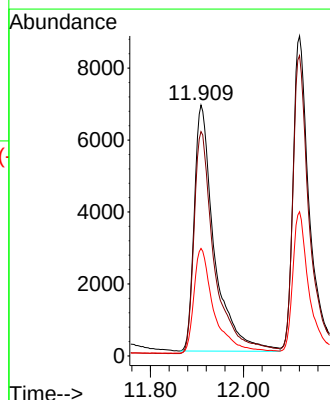
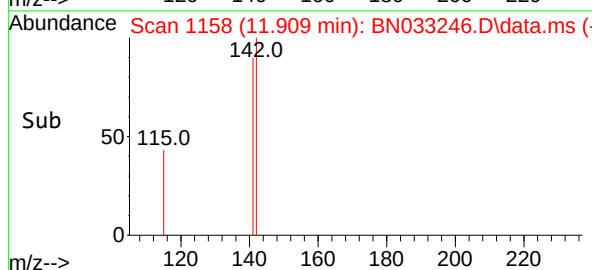
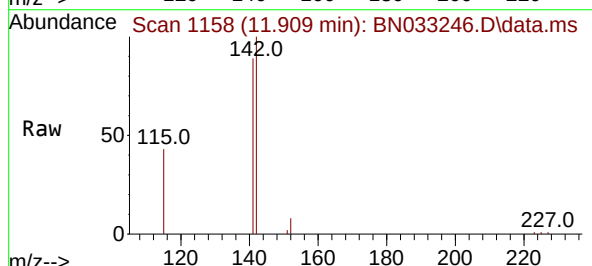
Manual Integrations
APPROVED

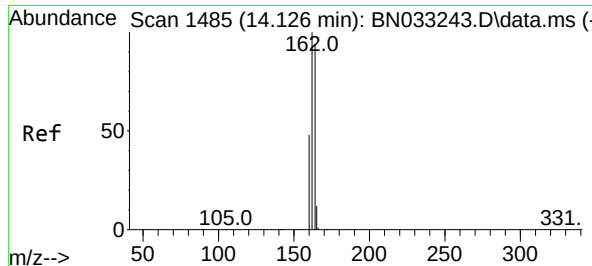
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

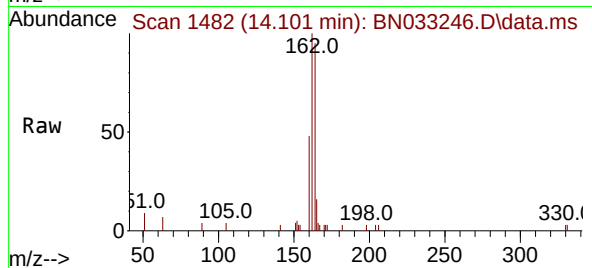
Tgt Ion:142 Resp: 20455
Ion Ratio Lower Upper
142 100
141 89.4 68.7 103.1
115 42.8 41.6 62.4





#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

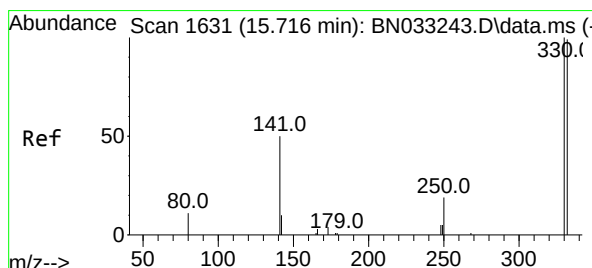
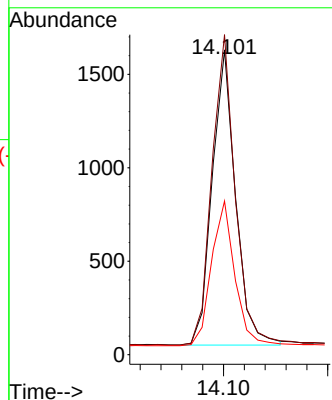
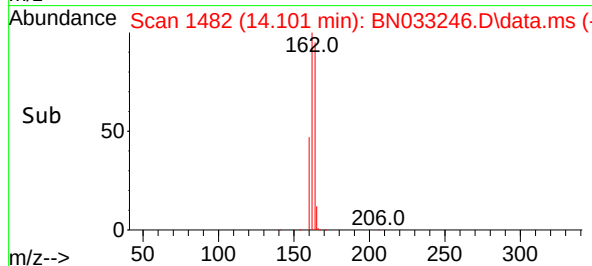
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



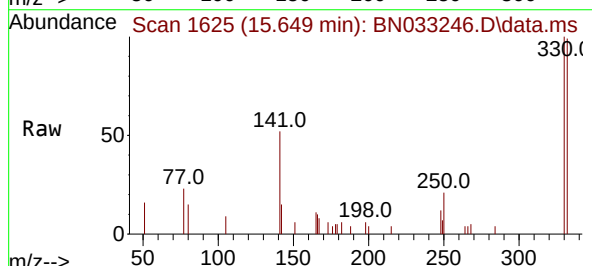
Tgt Ion:164 Resp: 246
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 50.4 42.4 63.6

Manual Integrations
APPROVED

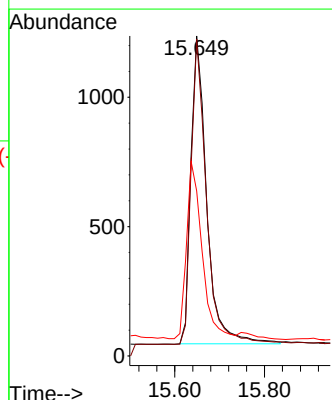
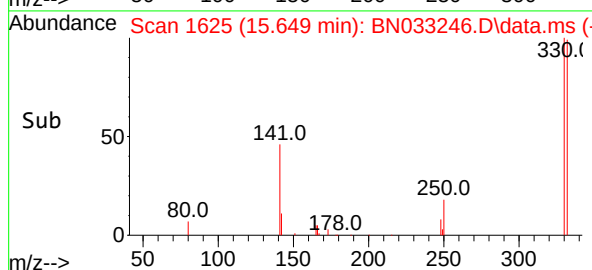
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

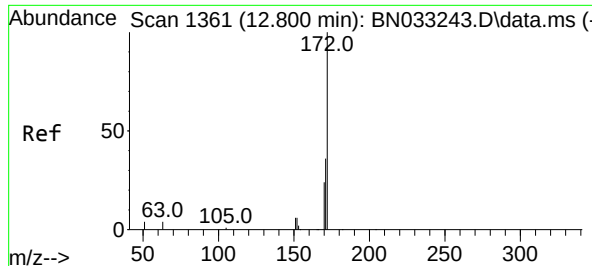


#14
2,4,6-Tribromophenol
Concen: 3.210 ng
RT: 15.649 min Scan# 1625
Delta R.T. -0.067 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44



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 :

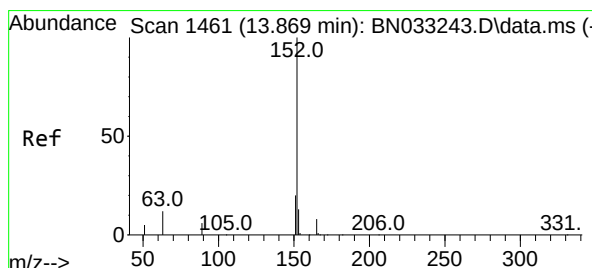
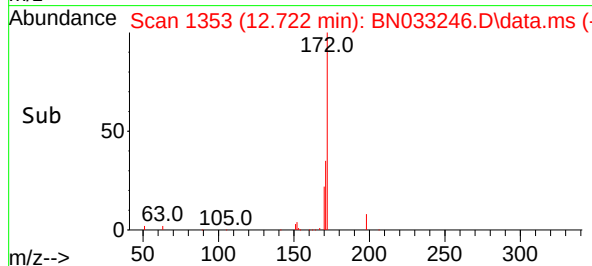
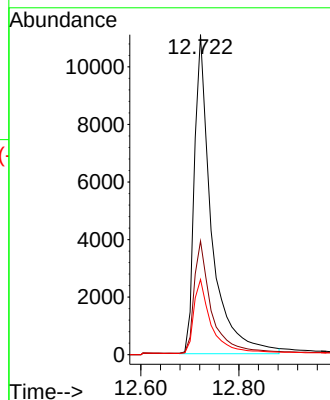
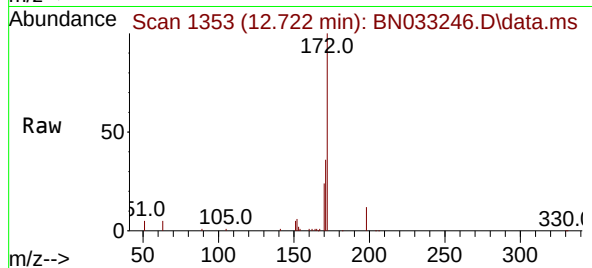
SSTDICC3.2

Tgt Ion:	172	Resp:	2695
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

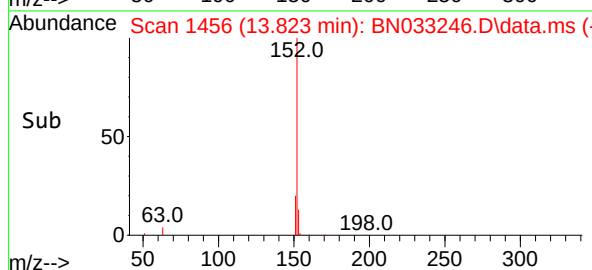
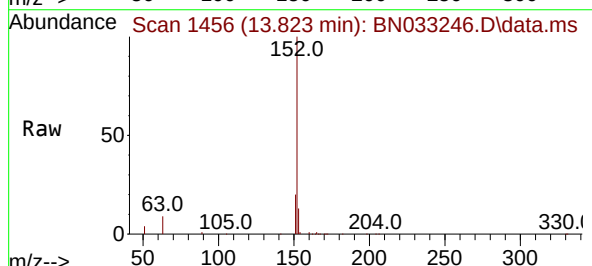
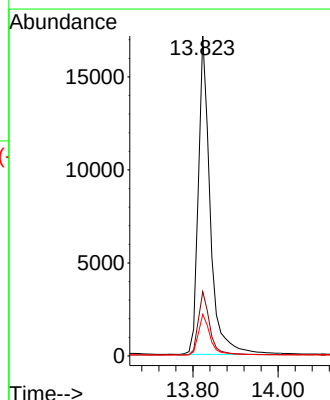
RT: 13.823 min Scan# 1456

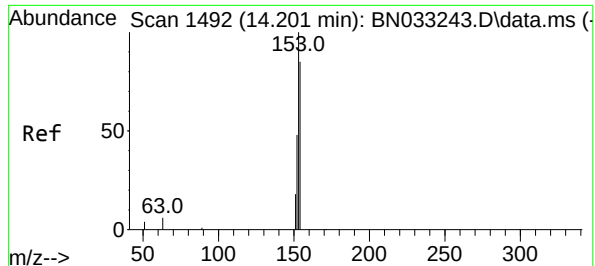
Delta R.T. -0.046 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

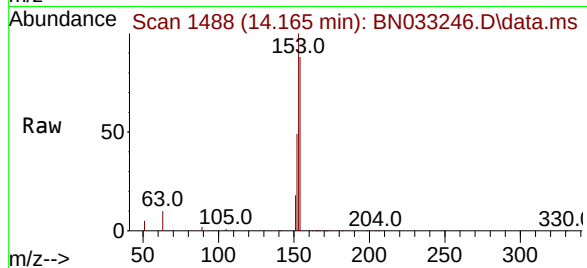
Tgt Ion:	152	Resp:	32994
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.1	24.1
153	12.8	10.2	15.2





#17
Acenaphthene
Concen: 3.159 ng
RT: 14.165 min Scan# 1492
Delta R.T. -0.036 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

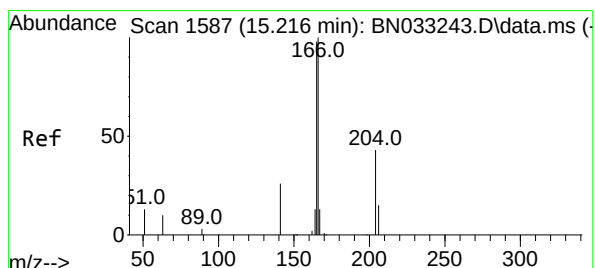
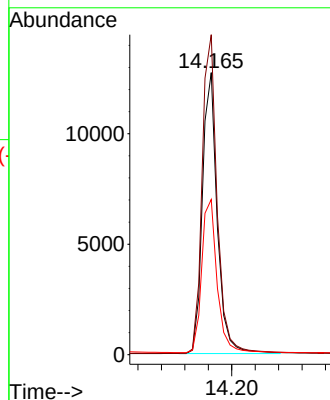
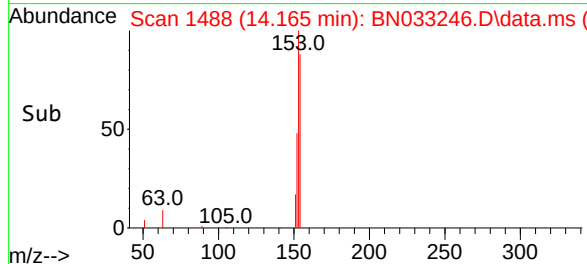
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



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

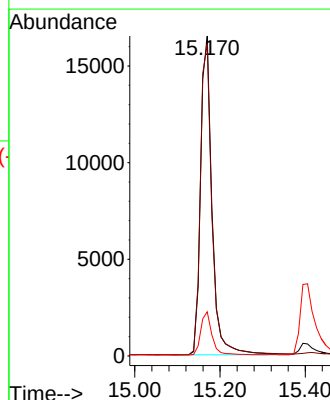
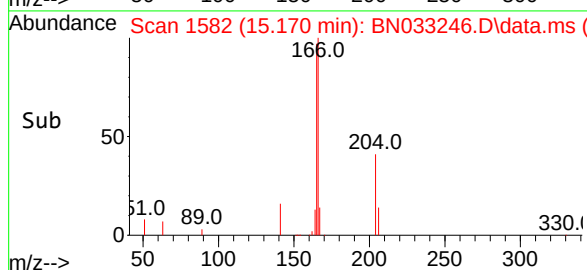
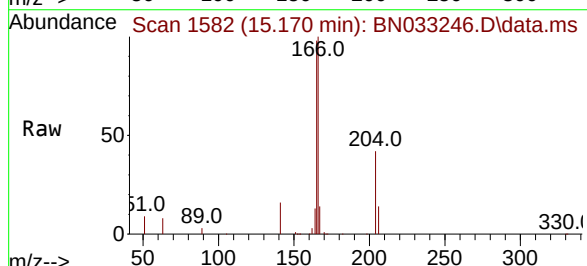
Manual Integrations
APPROVED

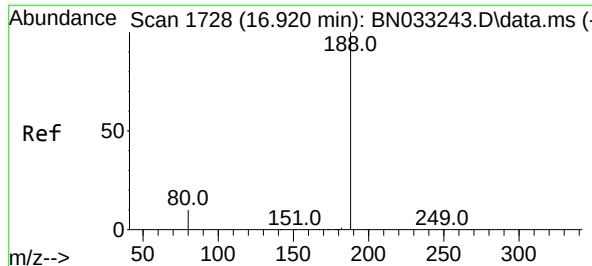
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

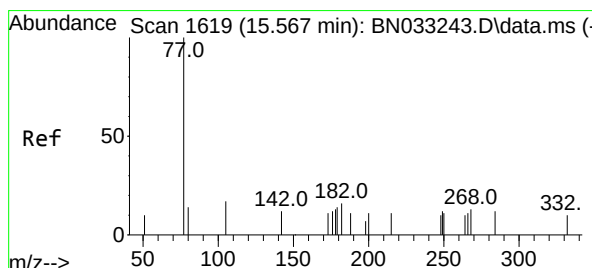
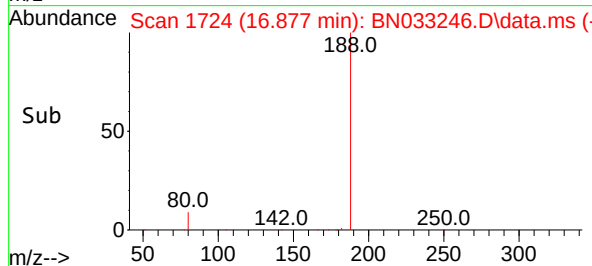
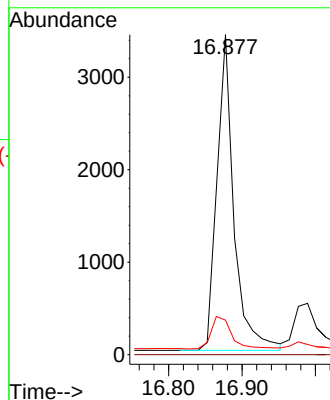
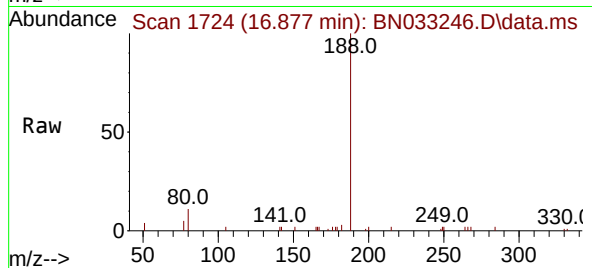
Instrument :

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

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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

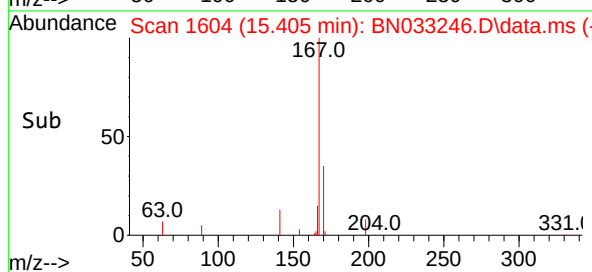
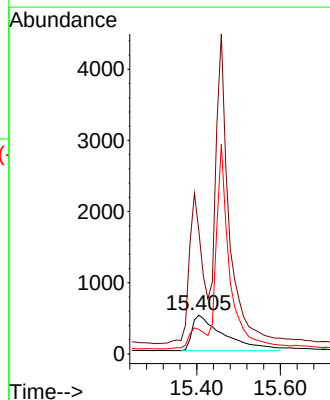
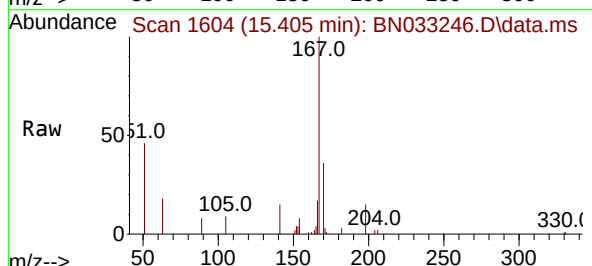
RT: 15.405 min Scan# 1604

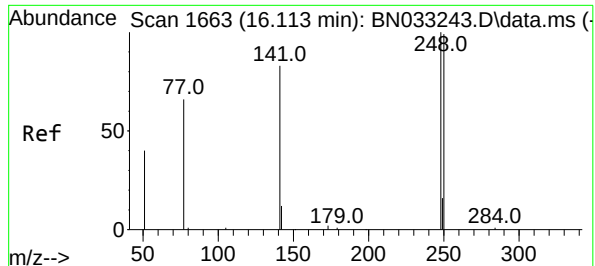
Delta R.T. -0.162 min

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#





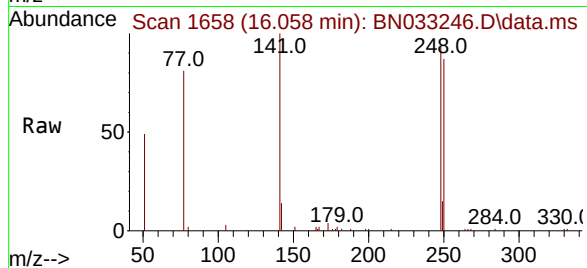
#21
4-Bromophenyl-phenylether
Concen: 3.056 ng
RT: 16.058 min Scan# 1658
Delta R.T. -0.055 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

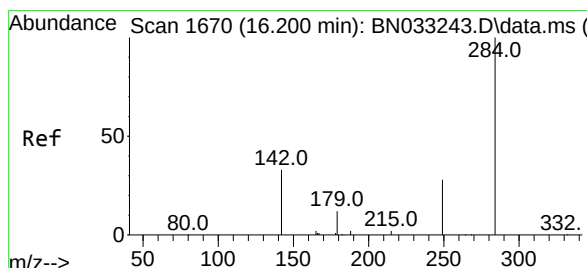
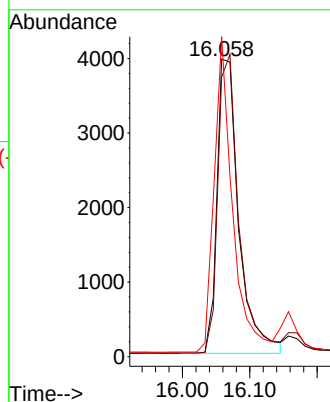
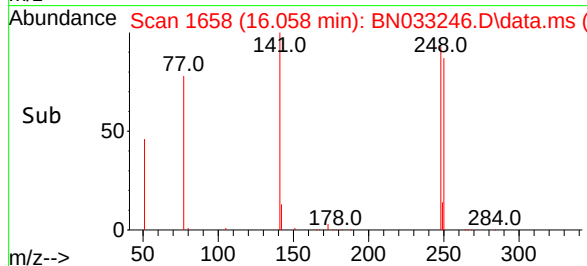


Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.0	120.0
141	107.5	71.0	106.6

Manual Integrations

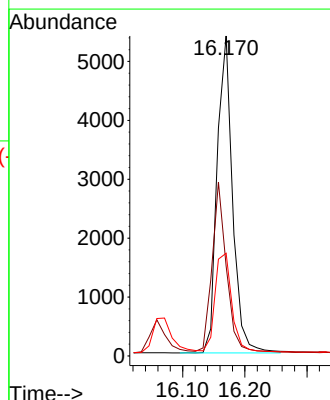
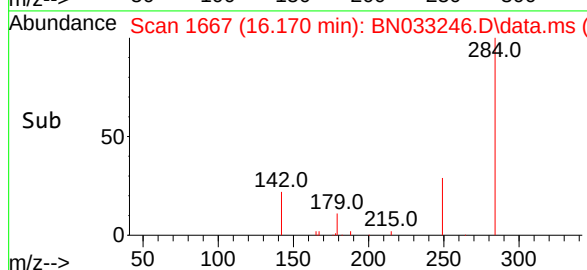
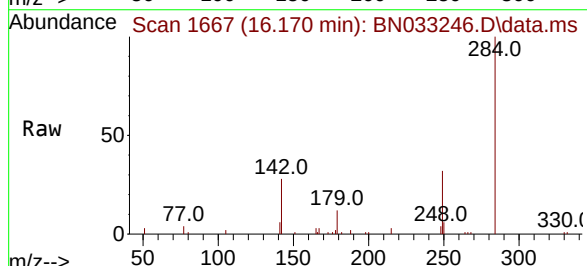
APPROVED

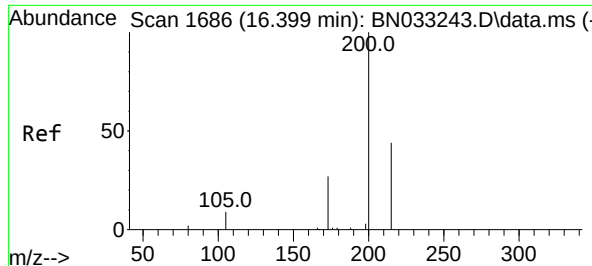
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

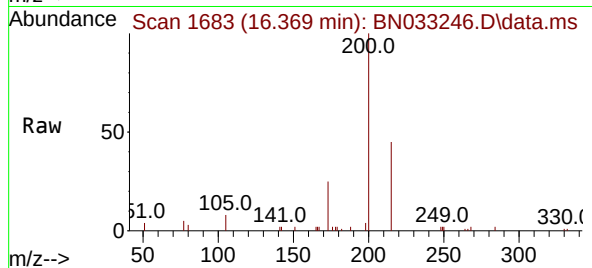
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.6	38.8	58.2
249	34.2	27.8	41.6





#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

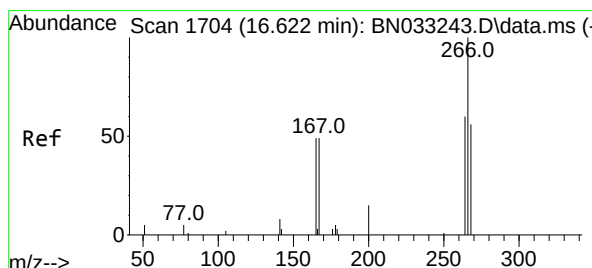
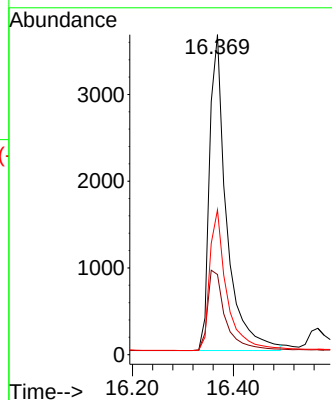
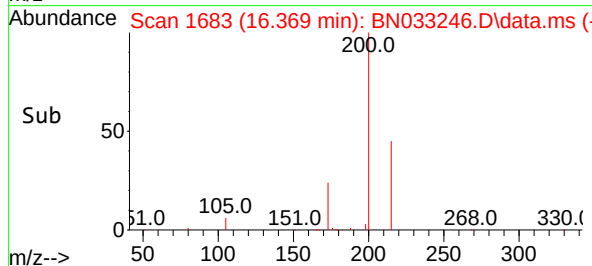
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



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

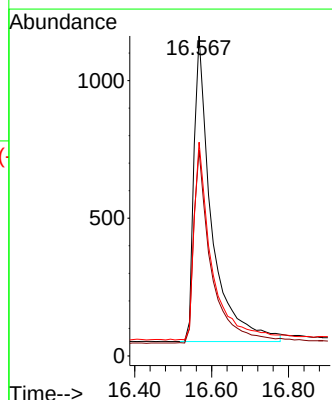
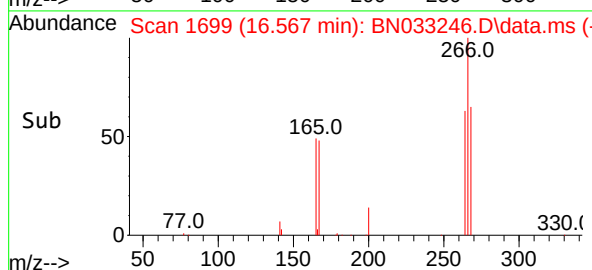
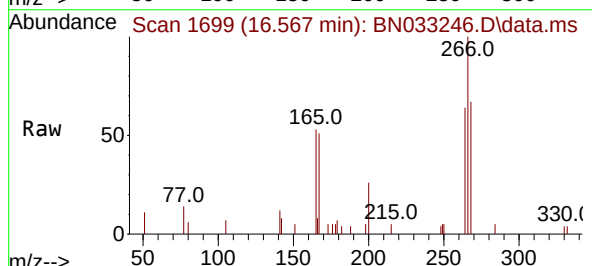
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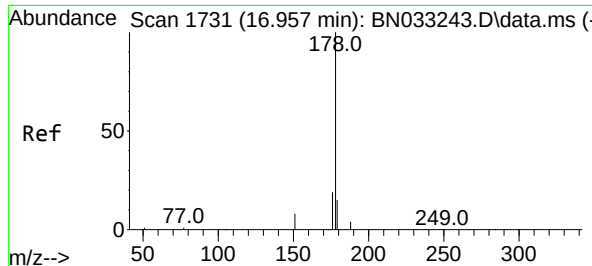
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





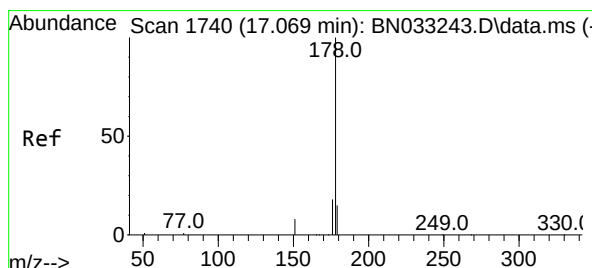
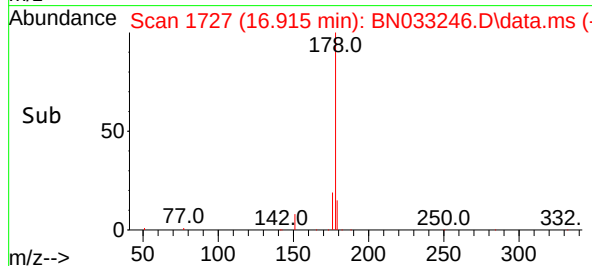
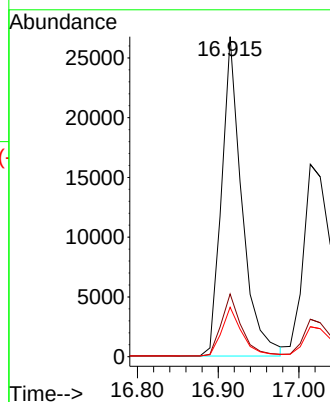
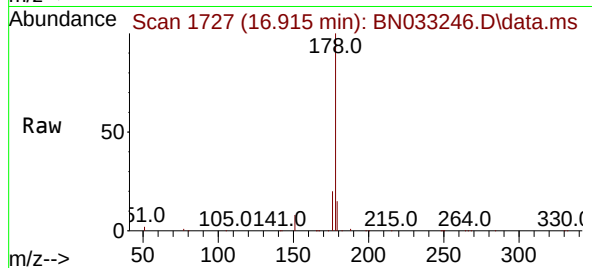
#25
Phenanthrene
Concen: 3.187 ng
RT: 16.915 min Scan# 1731
Delta R.T. -0.042 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

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

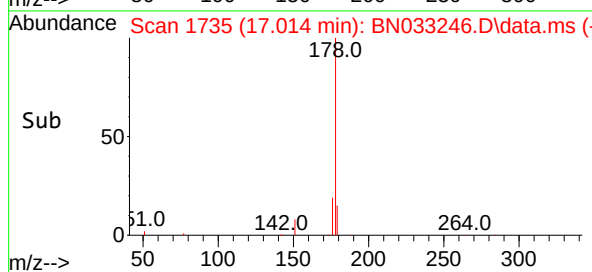
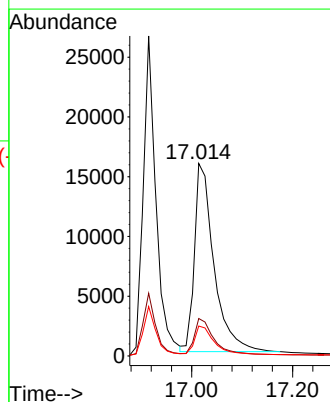
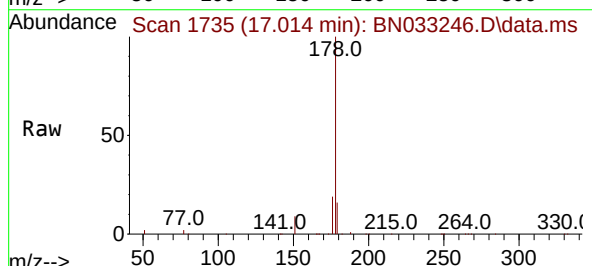
Manual Integrations
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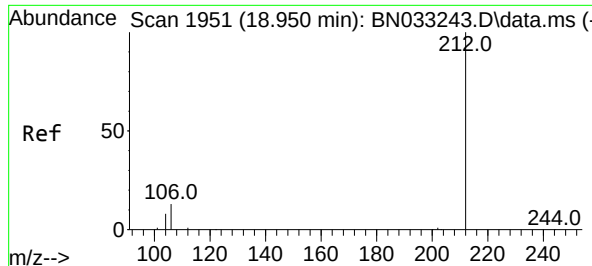
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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 :

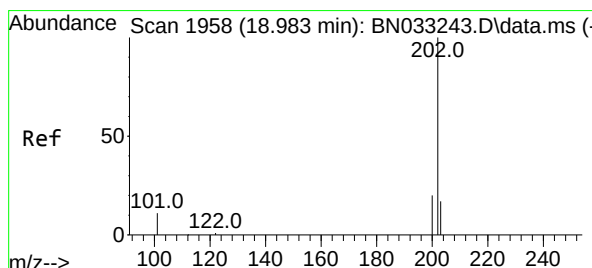
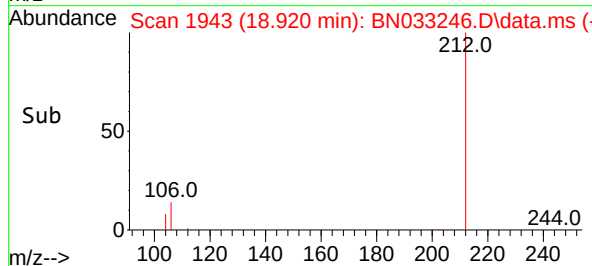
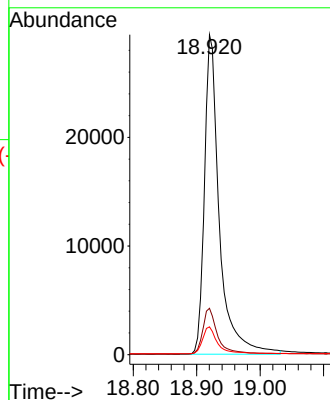
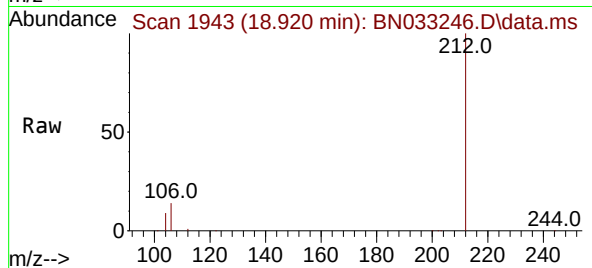
SSTDICC3.2

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

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 3.101 ng

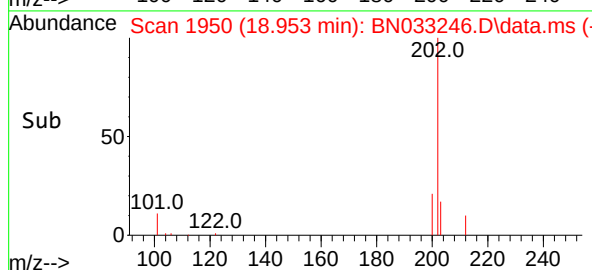
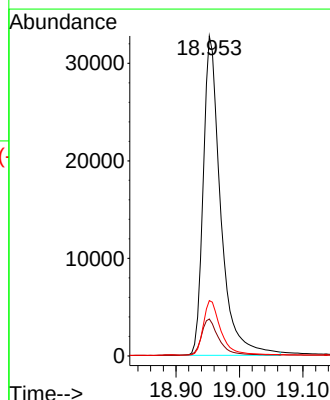
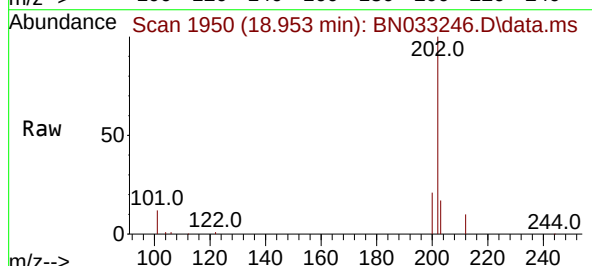
RT: 18.953 min Scan# 1950

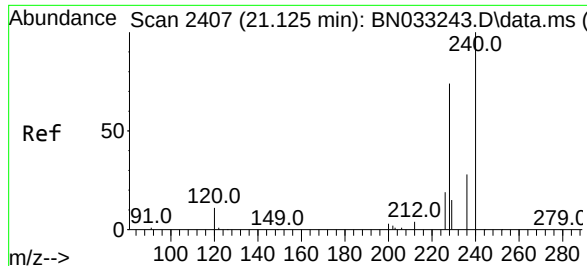
Delta R.T. -0.030 min

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# 2407

Delta R.T. -0.021 min

Lab File: BN033246.D

Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

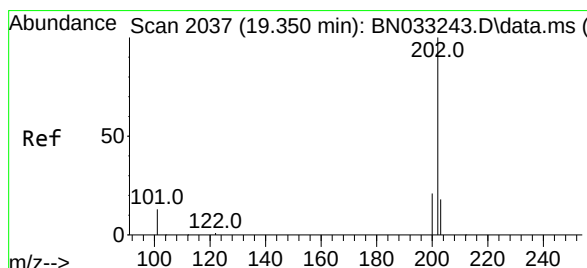
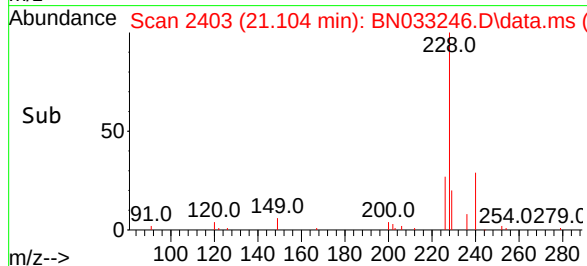
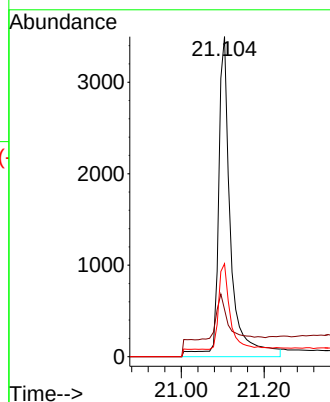
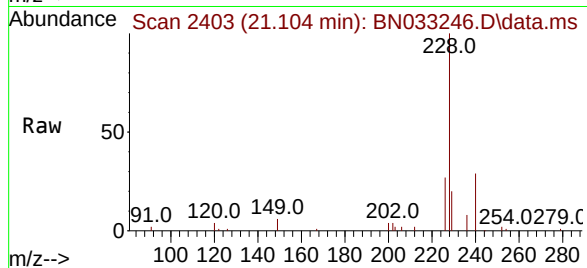
ClientSampleId :

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

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 2.760 ng

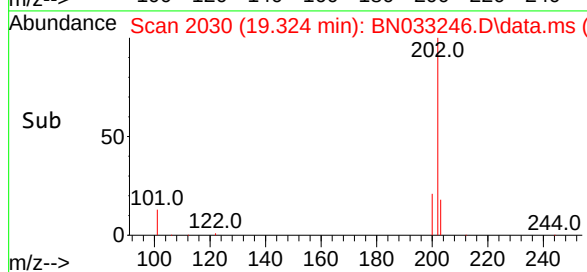
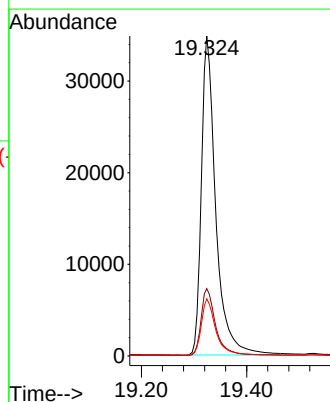
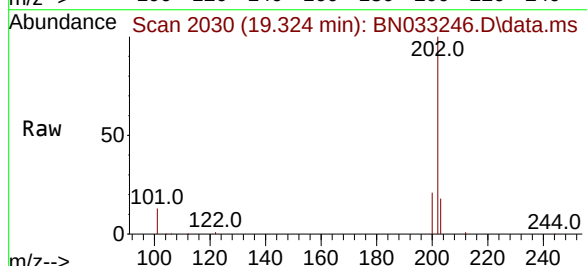
RT: 19.324 min Scan# 2030

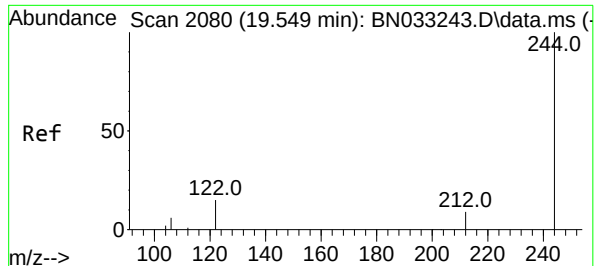
Delta R.T. -0.026 min

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





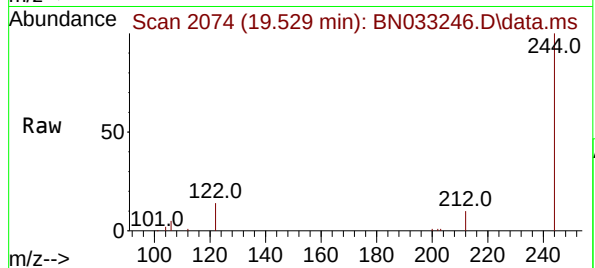
#31
Terphenyl-d14
Concen: 2.853 ng
RT: 19.529 min Scan# 2080
Delta R.T. -0.021 min
Lab File: BN033246.D
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

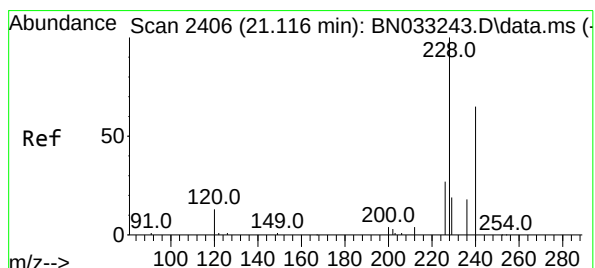
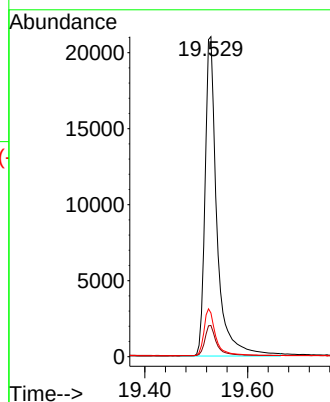
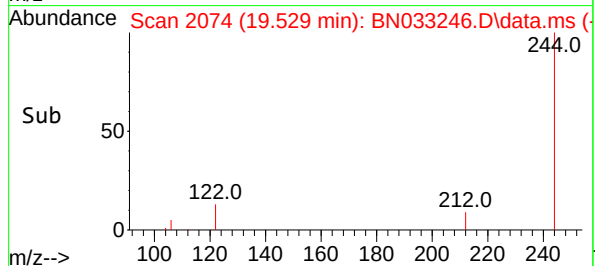


Tgt Ion:244 Resp: 3378
Ion Ratio Lower Upper
244 100
212 9.7 9.9 14.9
122 13.7 14.1 21.1

Manual Integrations

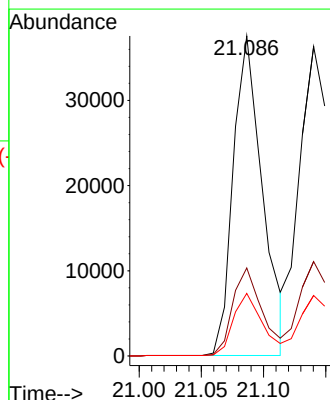
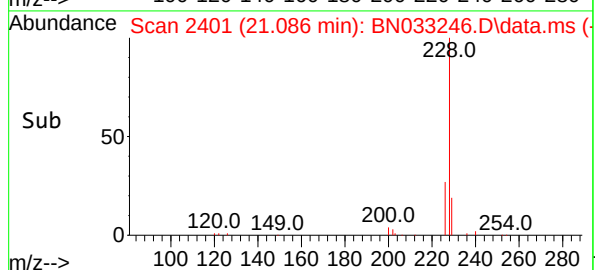
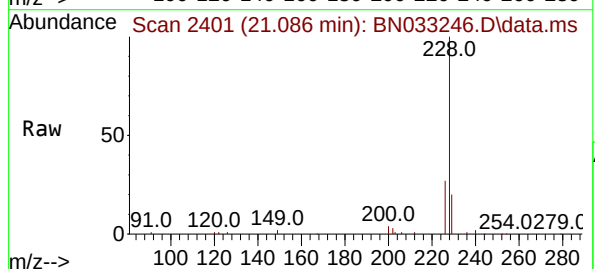
APPROVED

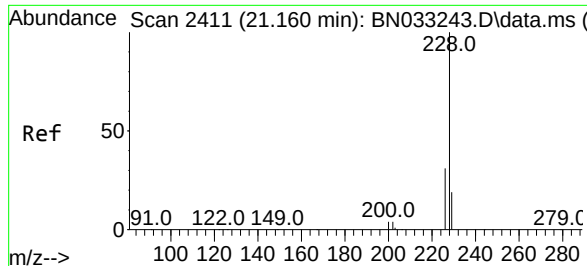
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

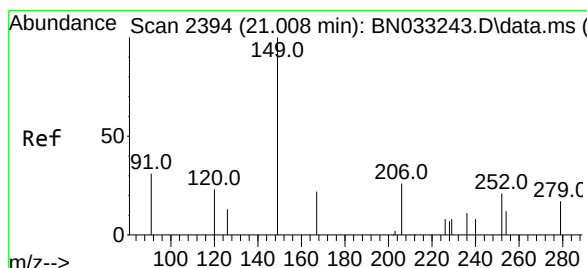
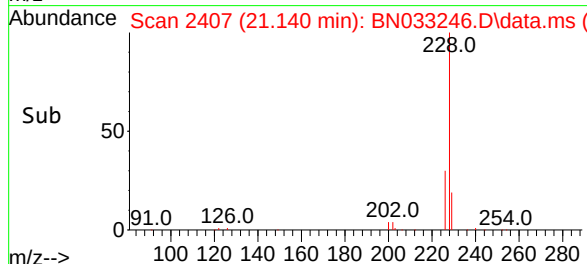
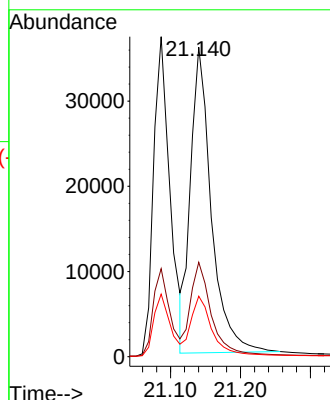
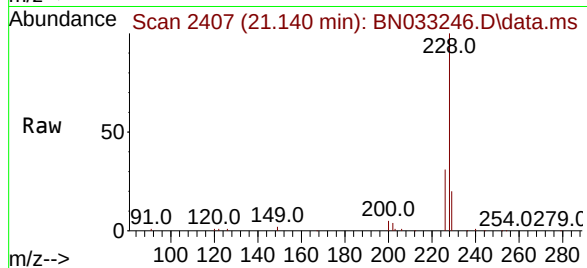
ClientSampleId :

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
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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.447 ng

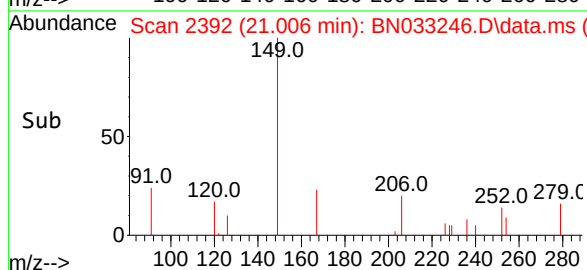
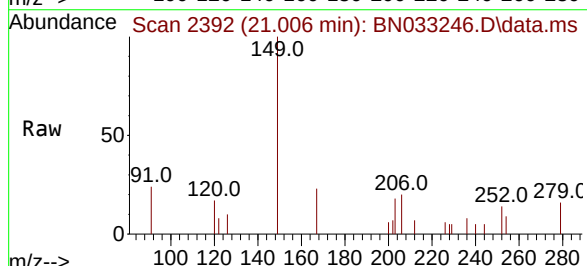
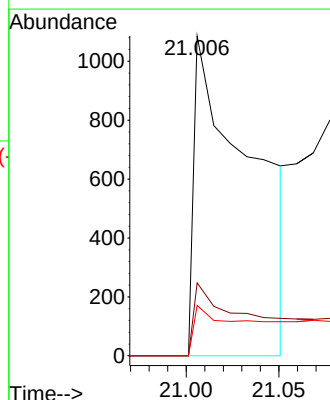
RT: 21.006 min Scan# 2392

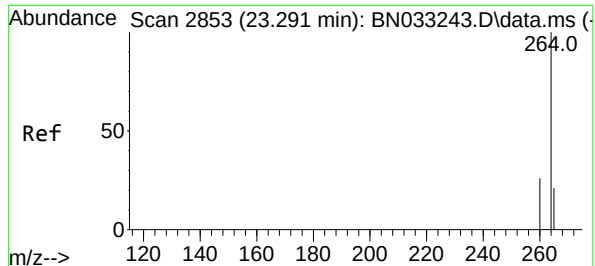
Delta R.T. -0.002 min

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

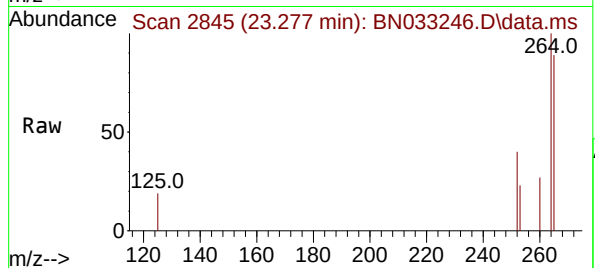
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 760

Ion Ratio Lower Upper

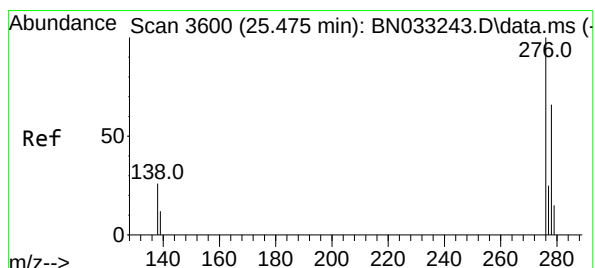
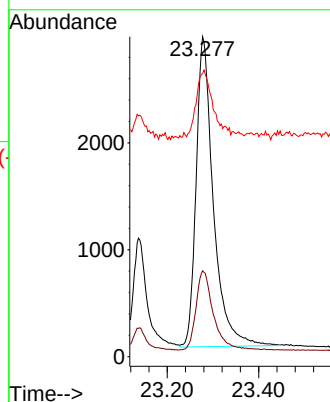
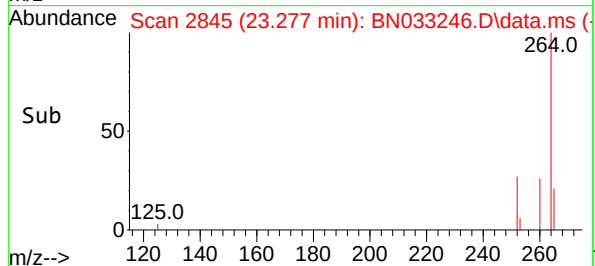
264 100

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

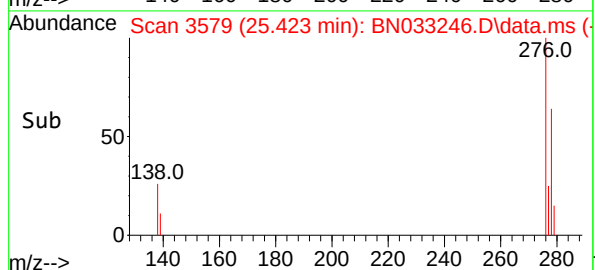
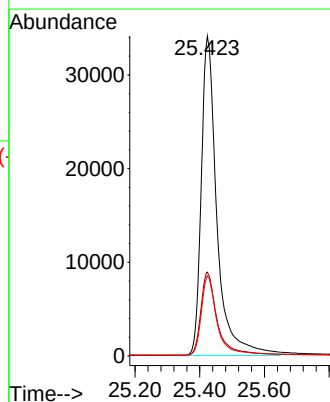
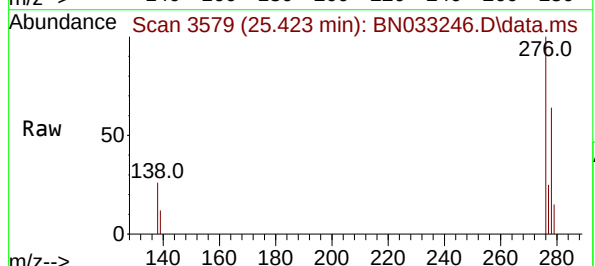
Tgt Ion:276 Resp: 114493

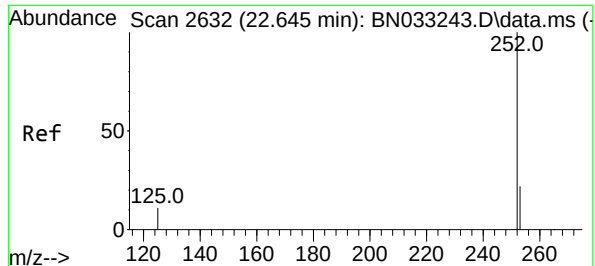
Ion Ratio Lower Upper

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 :

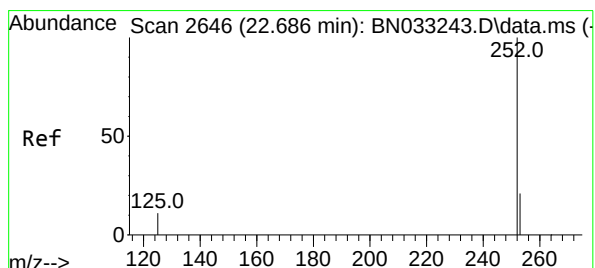
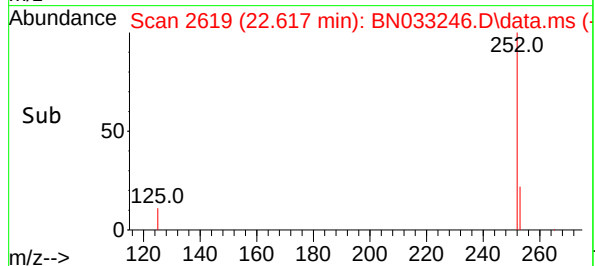
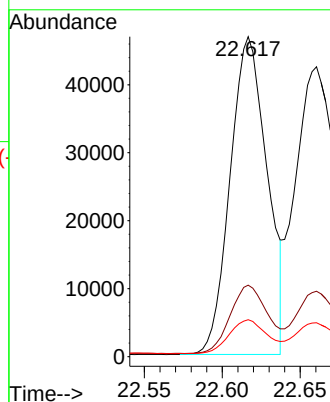
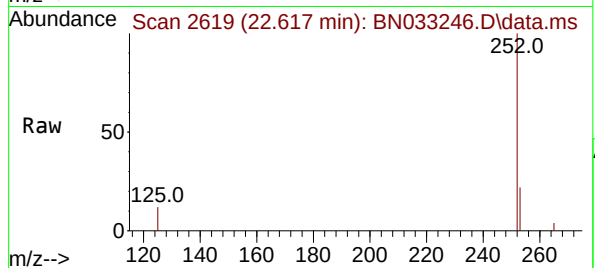
SSTDICC3.2

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

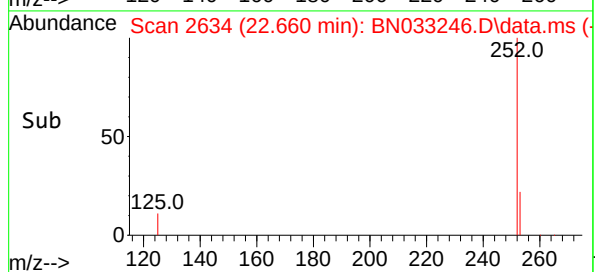
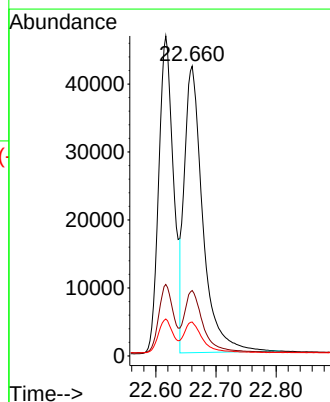
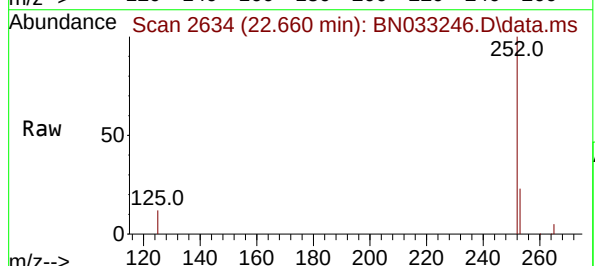
RT: 22.660 min Scan# 2634

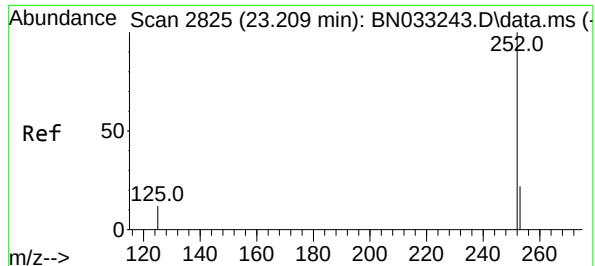
Delta R.T. -0.025 min

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

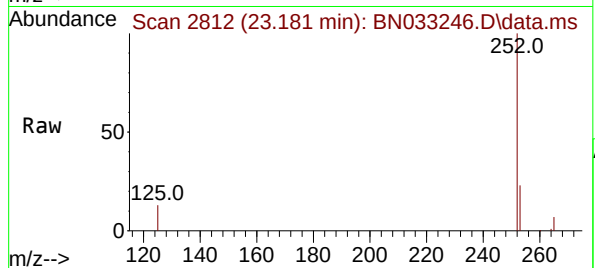
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

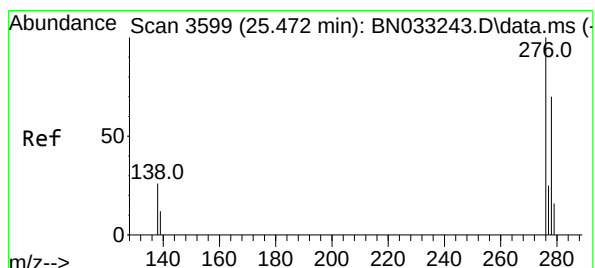
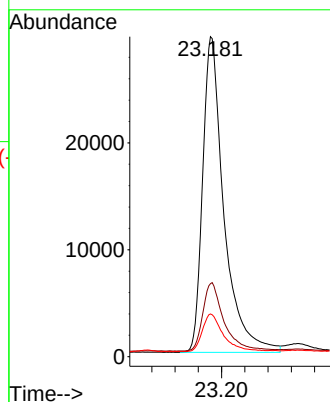
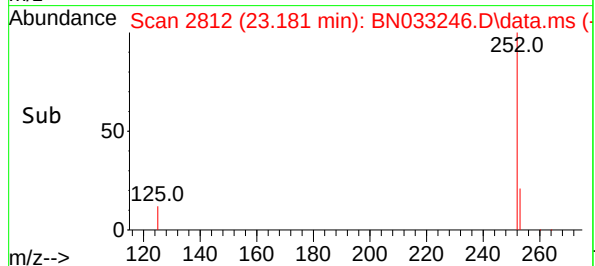


Tgt Ion:	252	Resp:	7514
Ion Ratio	Lower	Upper	
252	100		
253	22.8	28.4	42.6
125	13.4	20.1	30.1

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

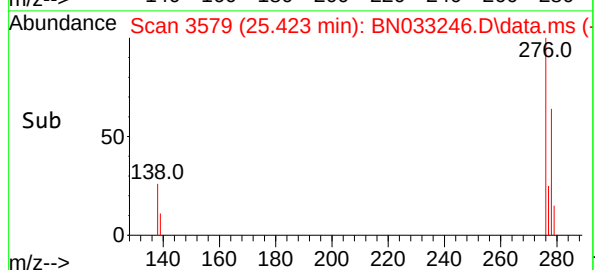
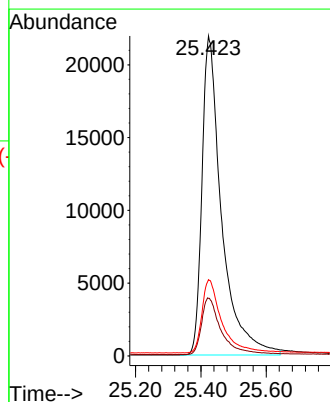
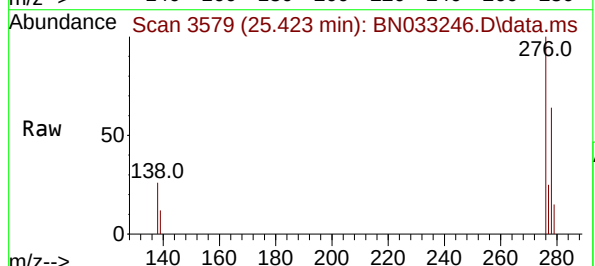
RT: 25.423 min Scan# 3579

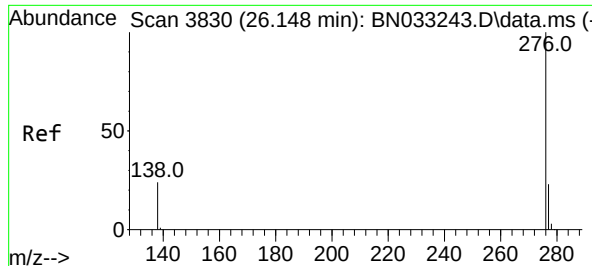
Delta R.T. -0.049 min

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

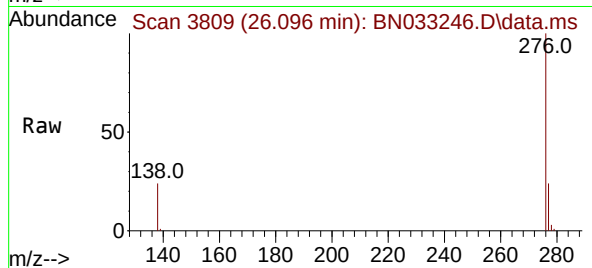
Acq: 05 Aug 2024 21:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 10061

Ion Ratio Lower Upper

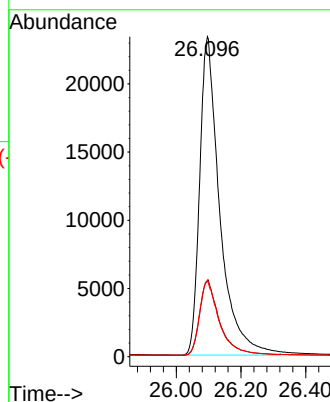
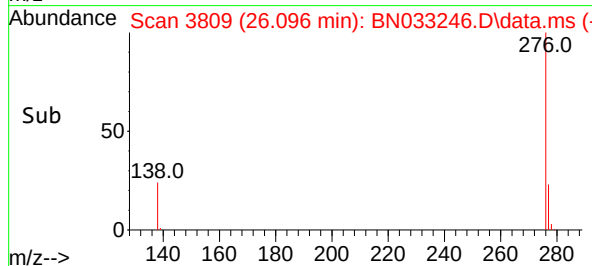
276 100

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 :

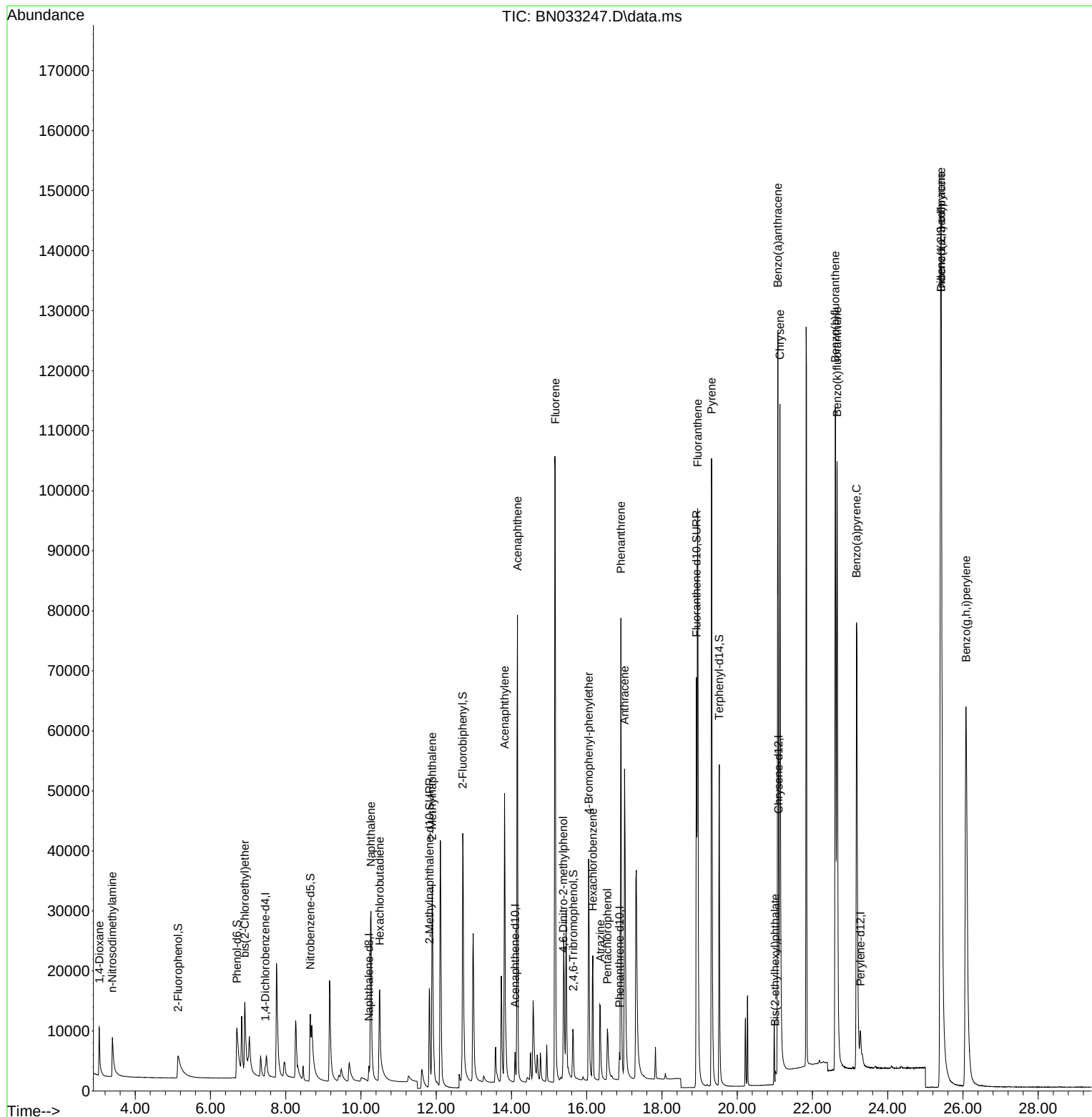
SSTDICC5.0

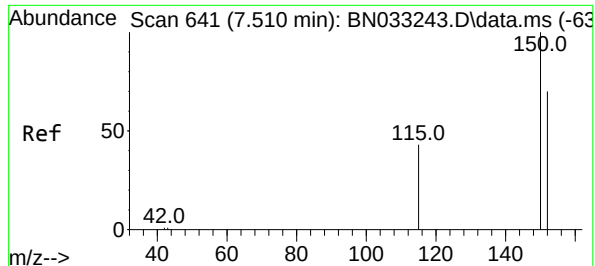
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
 Supervised By :mohammad ahmed 08/07/2024

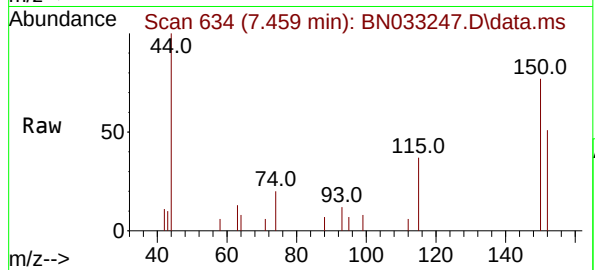
Quant Time: Aug 05 23:49:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:33:19 2024
 Response via : Initial Calibration





#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

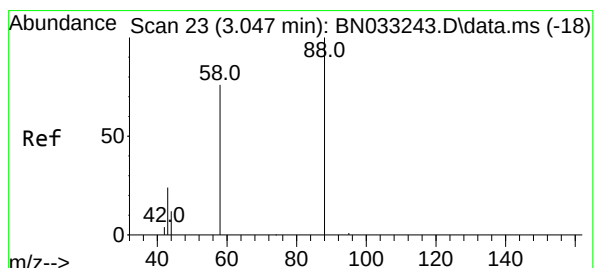
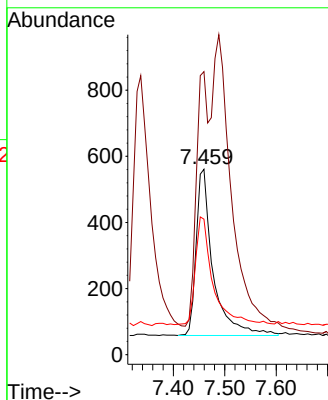
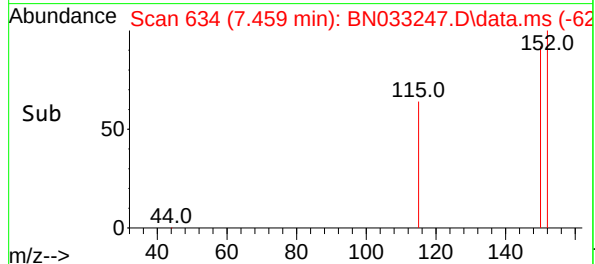
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



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

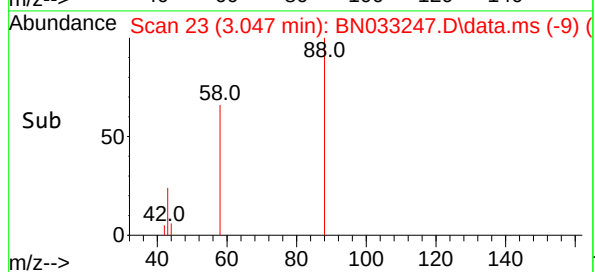
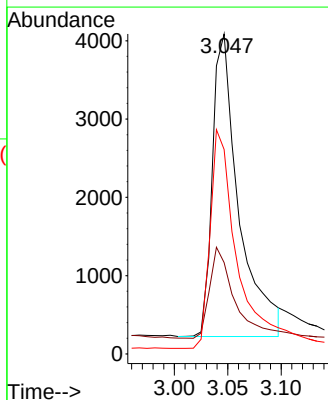
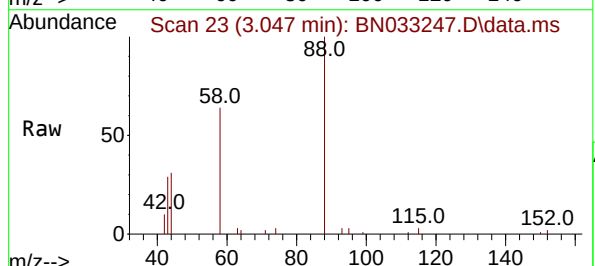
Manual Integrations
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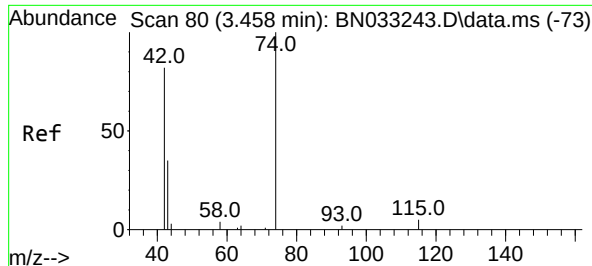
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

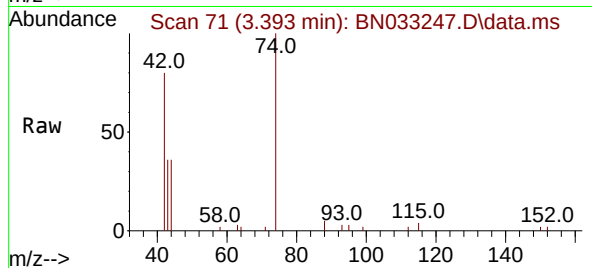
Tgt Ion: 88 Resp: 6621
Ion Ratio Lower Upper
88 100
43 28.5 18.6 28.0#
58 72.6 54.5 81.7





#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

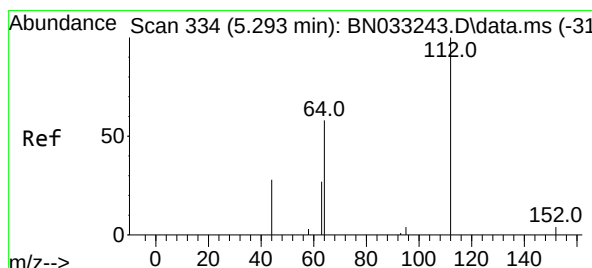
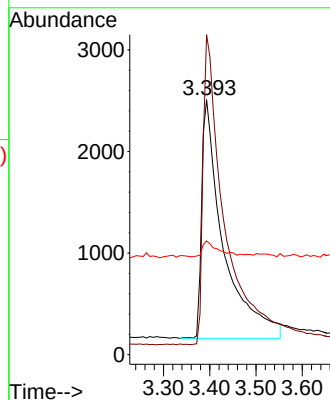
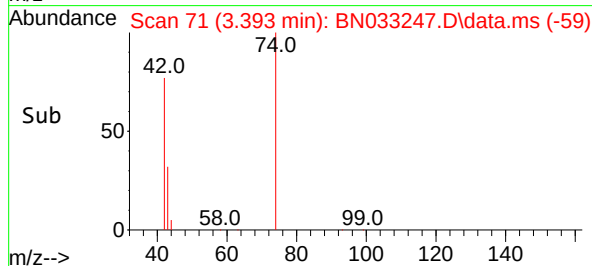
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



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#

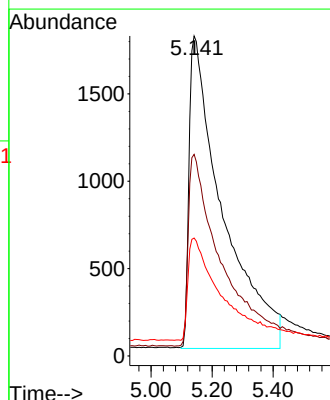
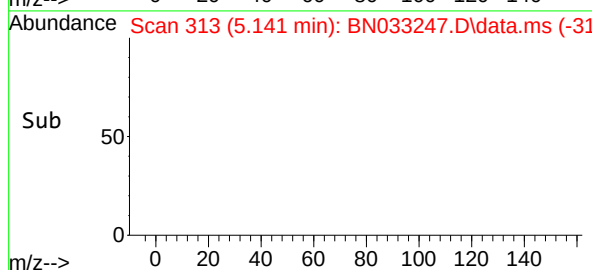
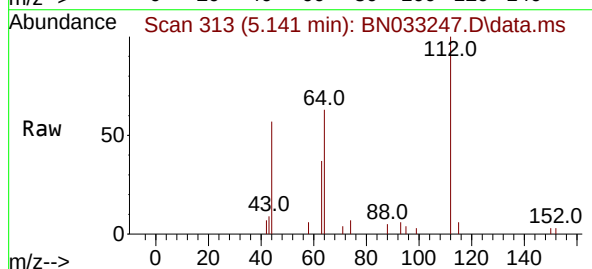
Manual Integrations
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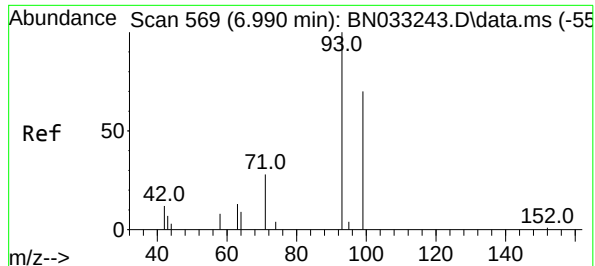
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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#





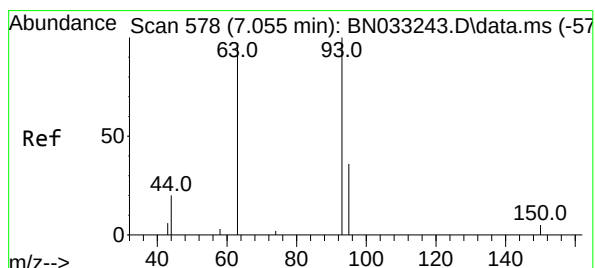
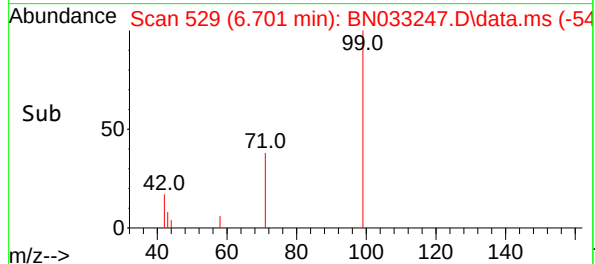
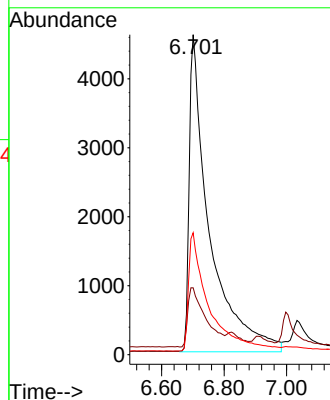
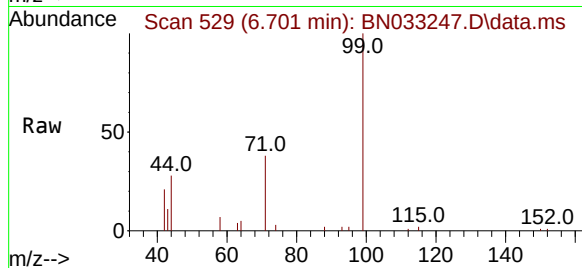
#5
Phenol-d6
Concen: 5.227 ng m
RT: 6.701 min Scan# 51
Delta R.T. -0.289 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

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

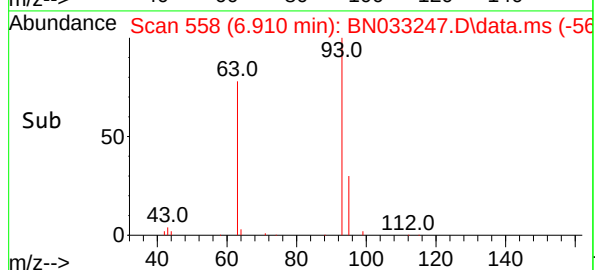
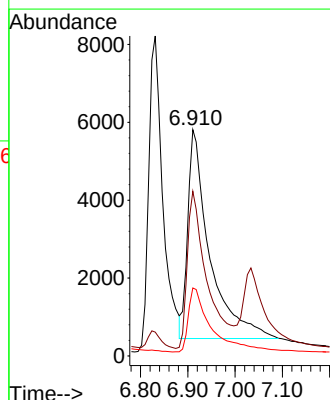
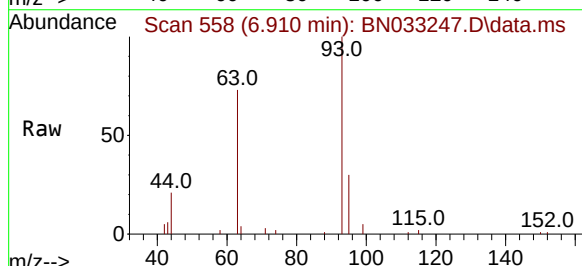
Manual Integrations
APPROVED

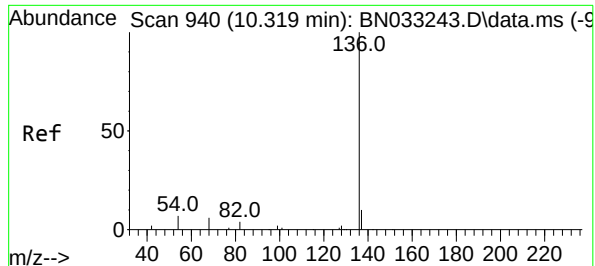
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





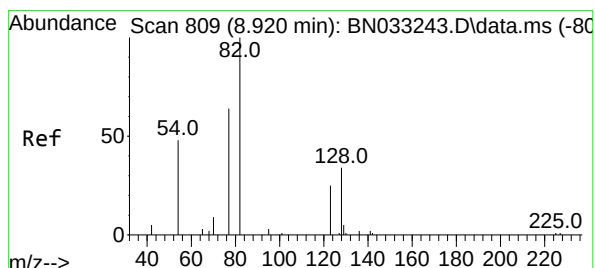
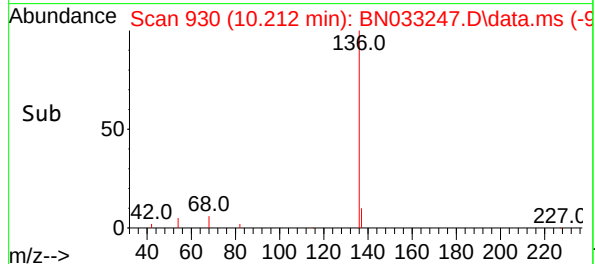
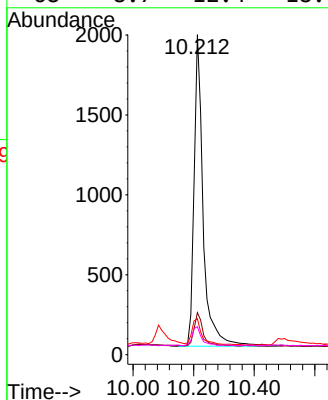
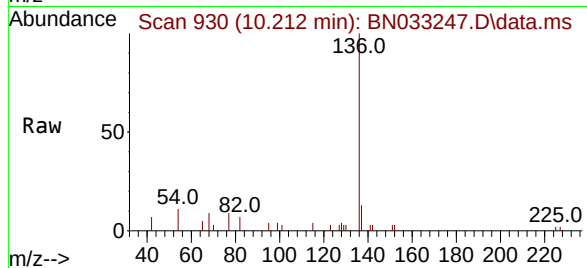
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.212 min Scan# 91
Delta R.T. -0.107 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

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

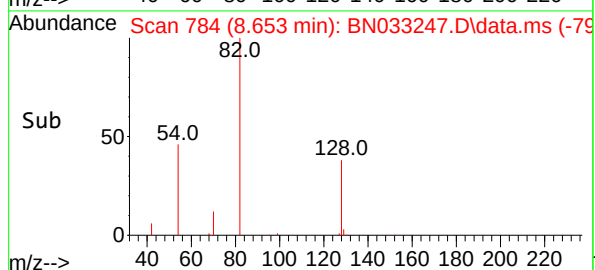
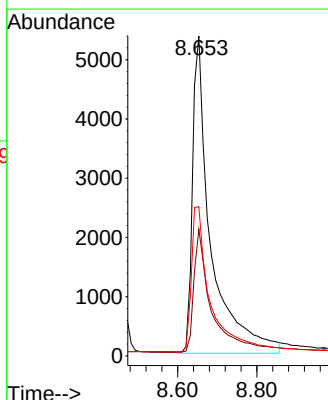
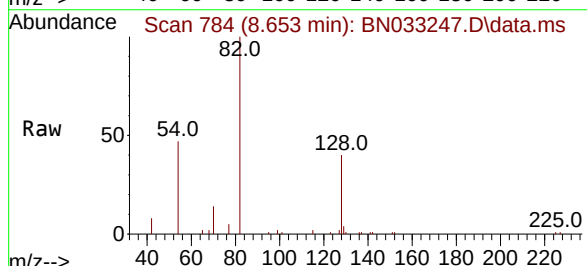
Manual Integrations
APPROVED

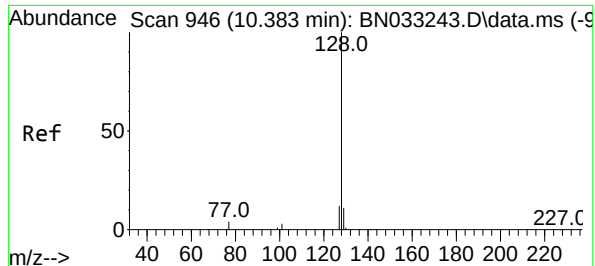
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





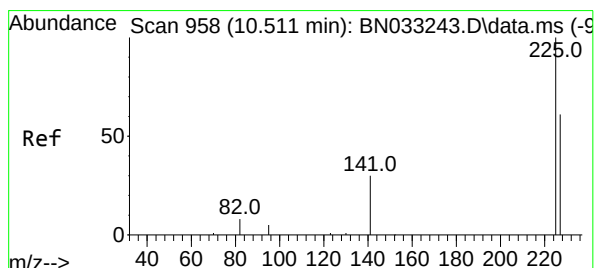
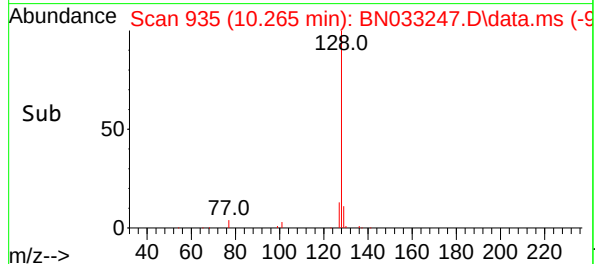
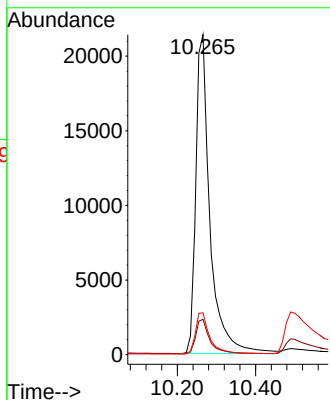
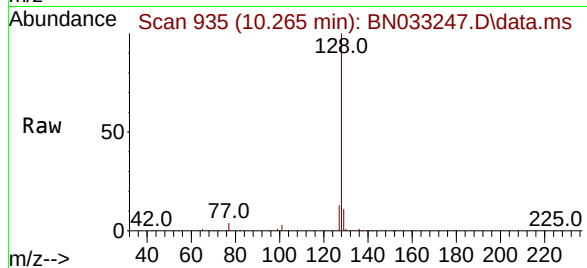
#9
Naphthalene
Concen: 4.874 ng
RT: 10.265 min Scan# 911
Delta R.T. -0.118 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

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

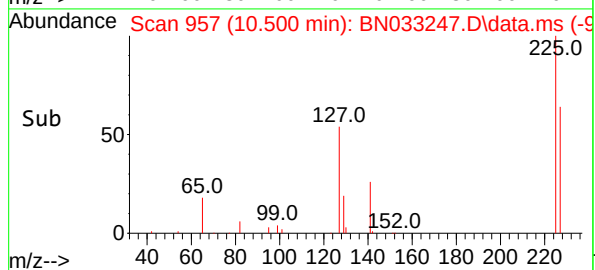
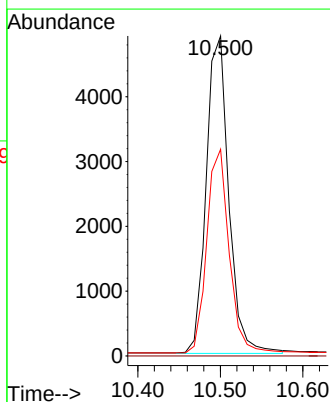
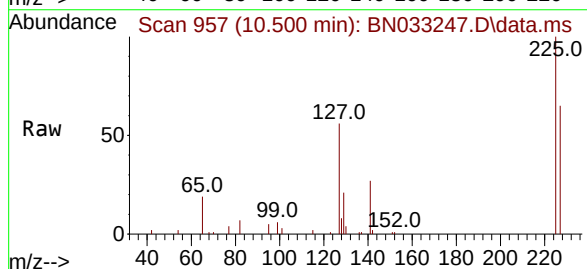
Manual Integrations
APPROVED

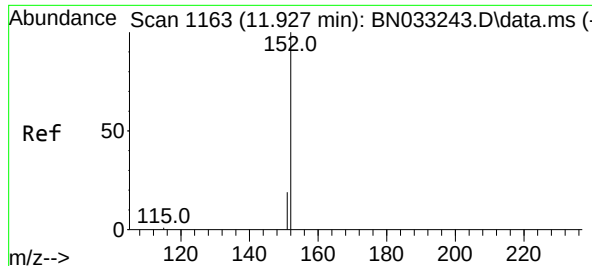
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

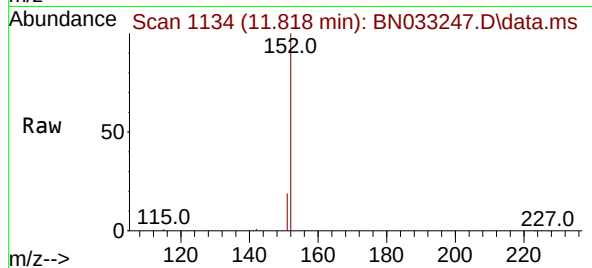
Tgt Ion:225 Resp: 9310
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 58.5 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 5.112 ng
RT: 11.818 min Scan# 1163
Delta R.T. -0.109 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

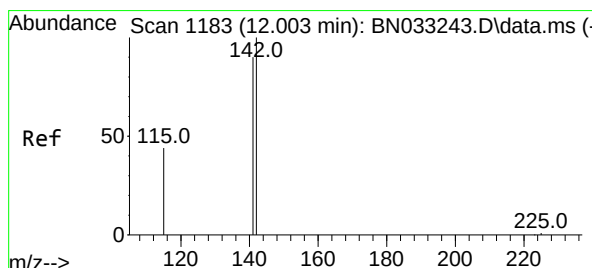
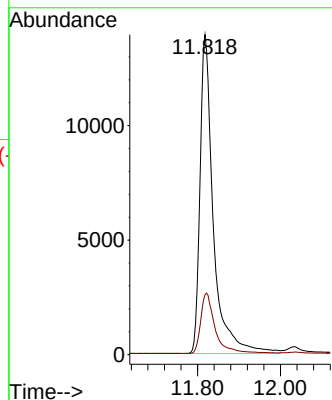
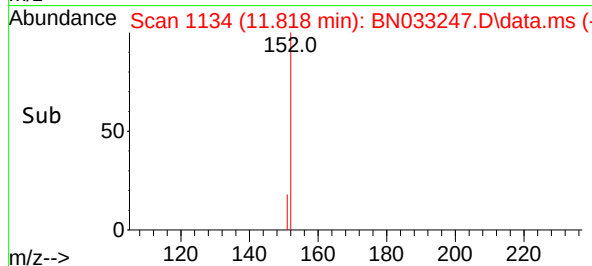
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:152 Resp: 3116
Ion Ratio Lower Upper
152 100
151 20.6 11.9 17.9

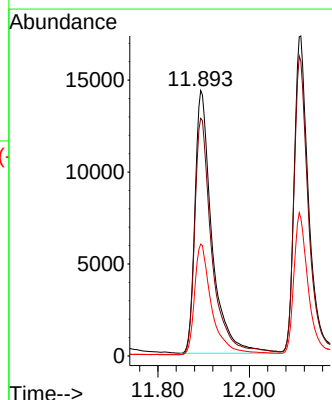
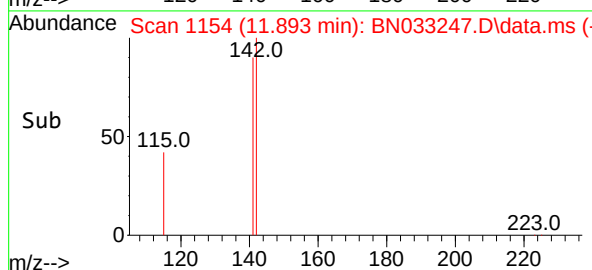
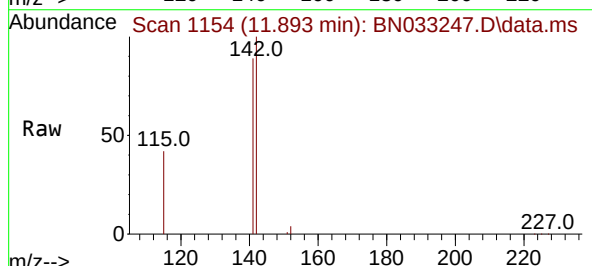
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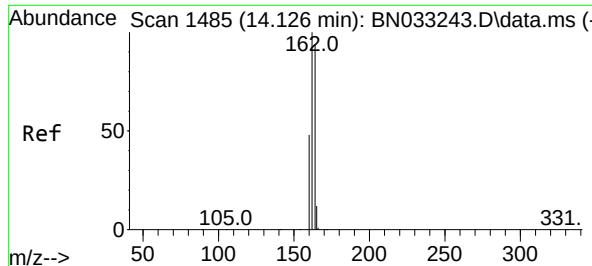
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

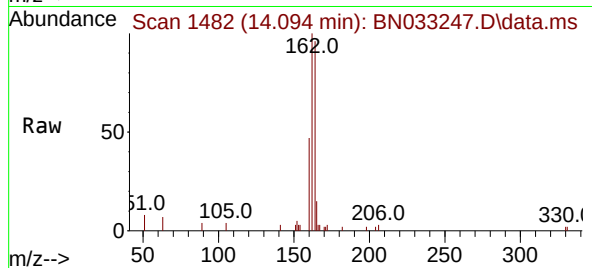
Tgt Ion:142 Resp: 36852
Ion Ratio Lower Upper
142 100
141 89.5 68.7 103.1
115 42.1 41.6 62.4





#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

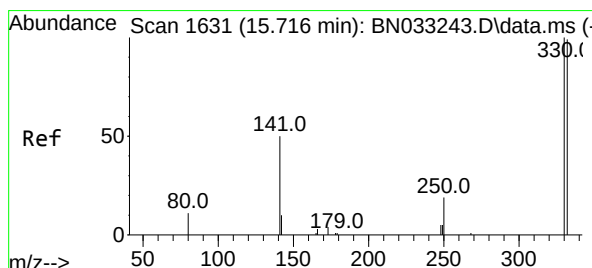
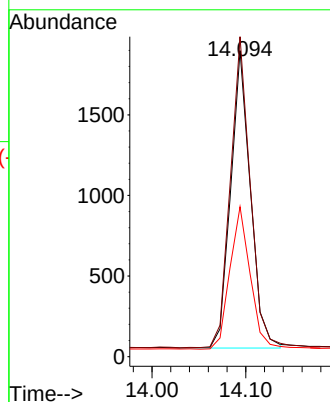
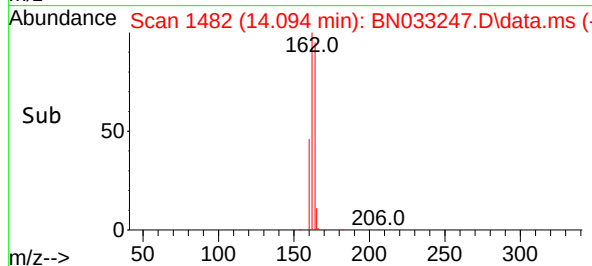
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



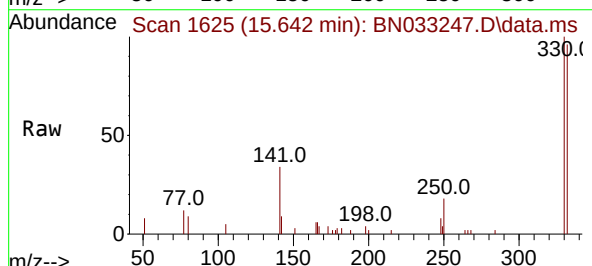
Tgt Ion:164 Resp: 2698
Ion Ratio Lower Upper
164 100
162 104.5 84.6 127.0
160 49.0 42.4 63.6

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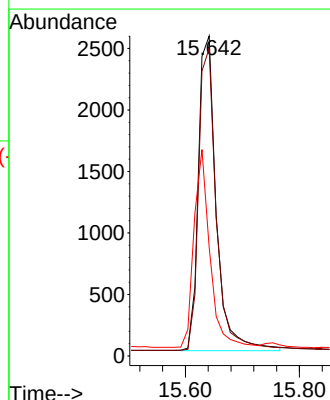
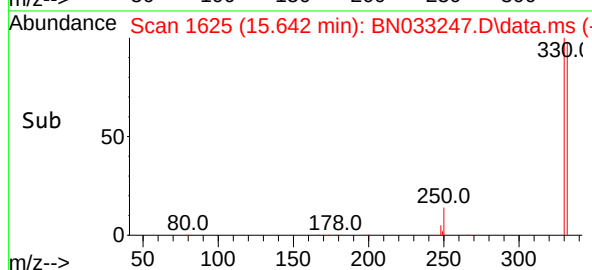
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

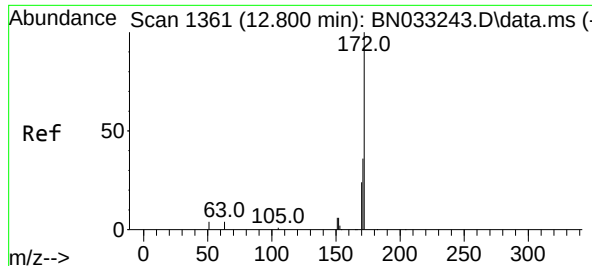


#14
2,4,6-Tribromophenol
Concen: 5.576 ng m
RT: 15.642 min Scan# 1625
Delta R.T. -0.074 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21



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





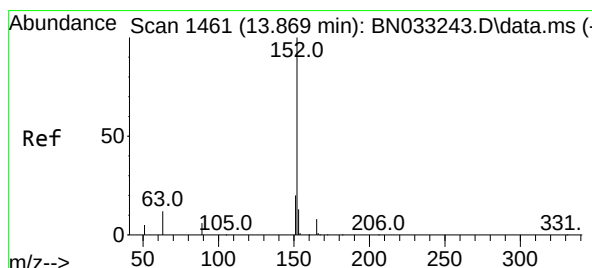
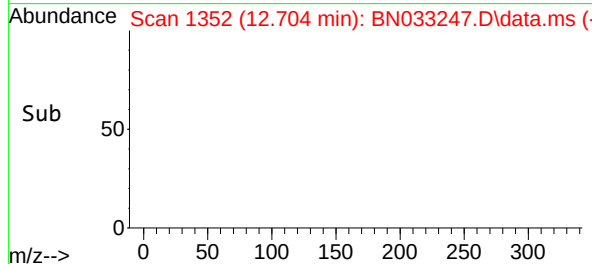
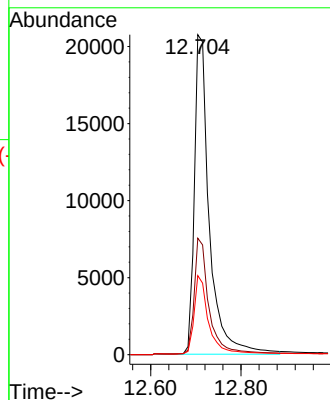
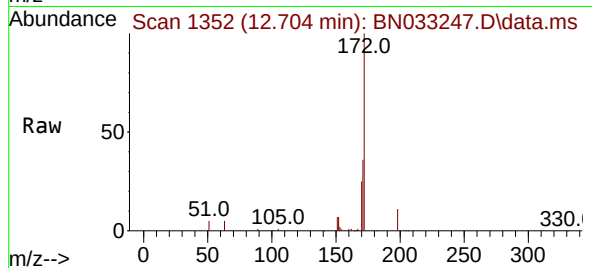
#15
2-Fluorobiphenyl
Concen: 5.164 ng m
RT: 12.704 min Scan# 11
Delta R.T. -0.096 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

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

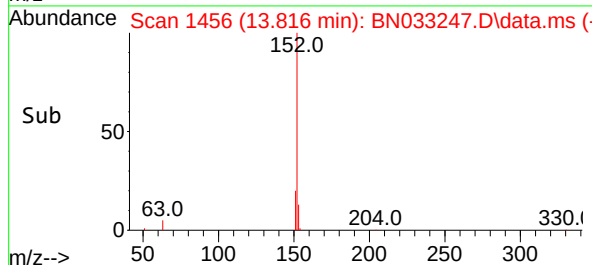
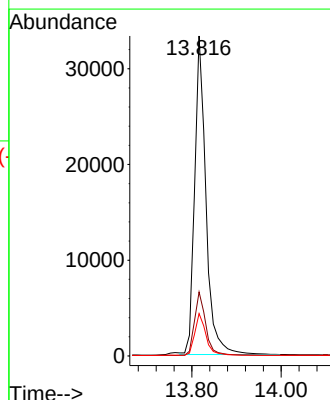
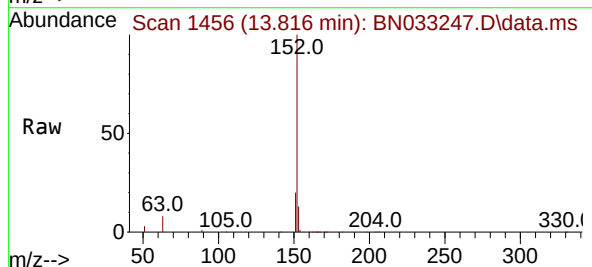
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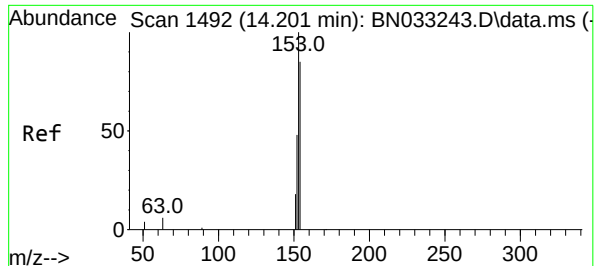
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

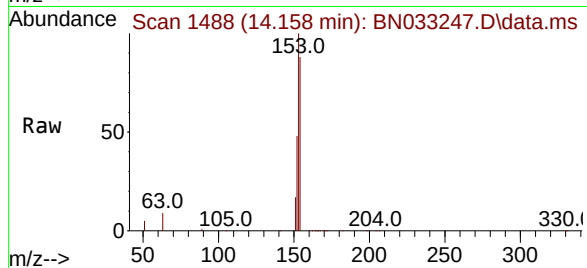
Tgt Ion:152 Resp: 58768
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 13.0 10.2 15.2





#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

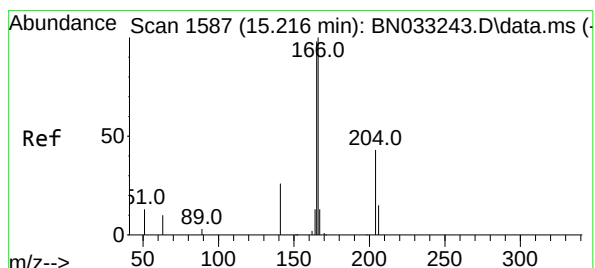
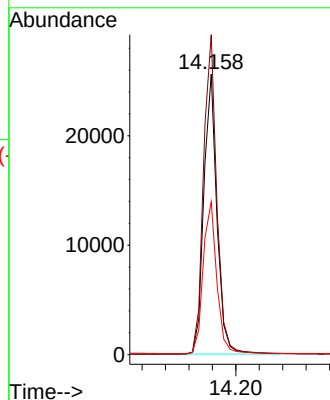
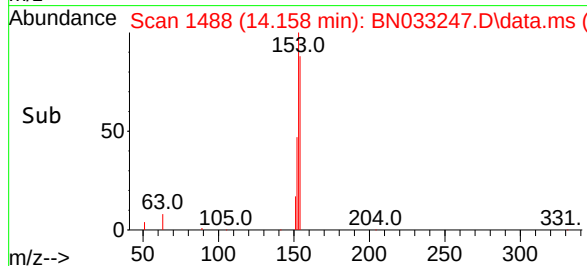
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



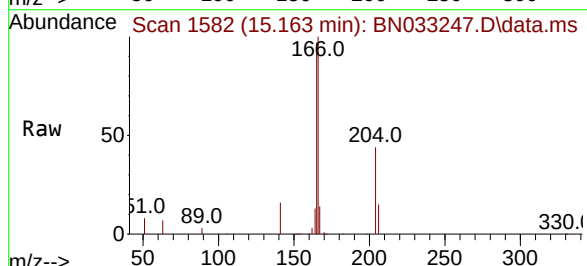
Tgt Ion:154 Resp: 39894
Ion Ratio Lower Upper
154 100
153 115.5 92.7 139.1
152 56.2 44.0 66.0

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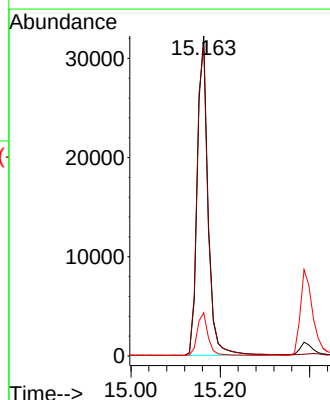
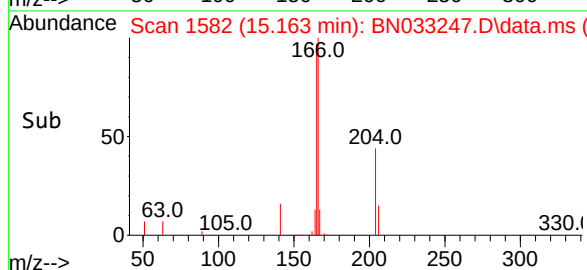
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

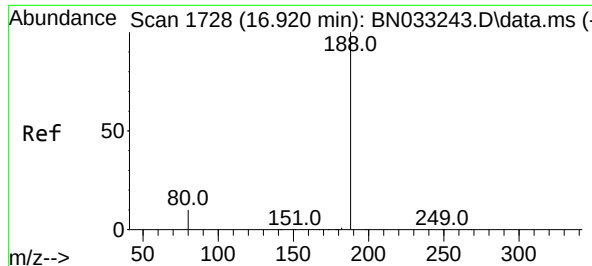


#18
Fluorene
Concen: 5.161 ng
RT: 15.163 min Scan# 1582
Delta R.T. -0.053 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21



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

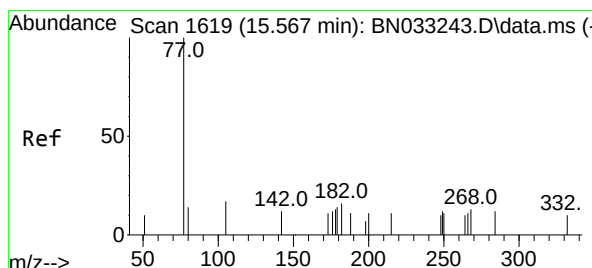
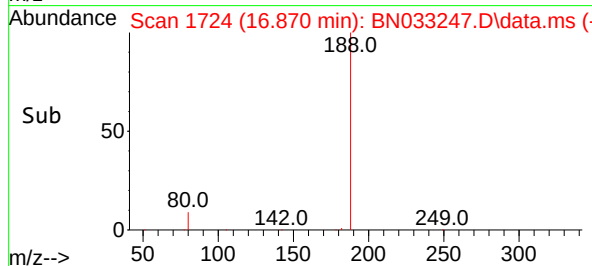
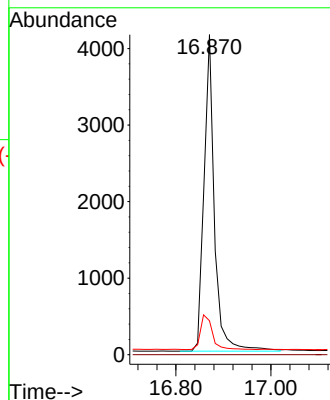
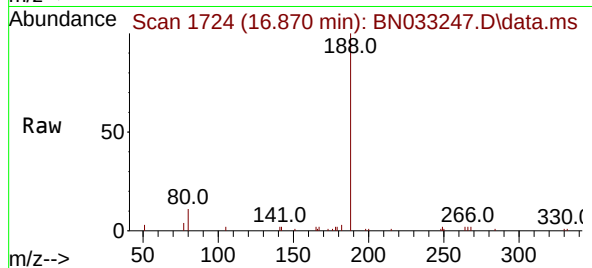
Instrument :

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
APPROVEDReviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 5.158 ng m

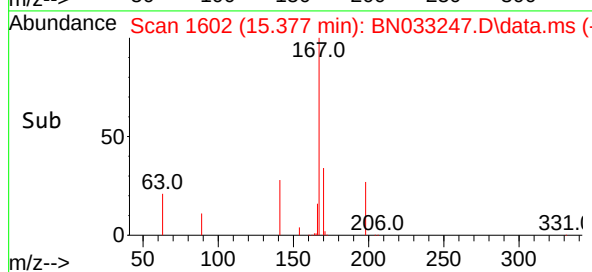
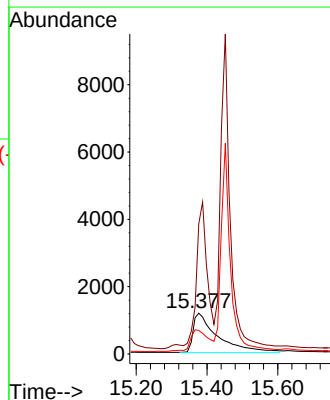
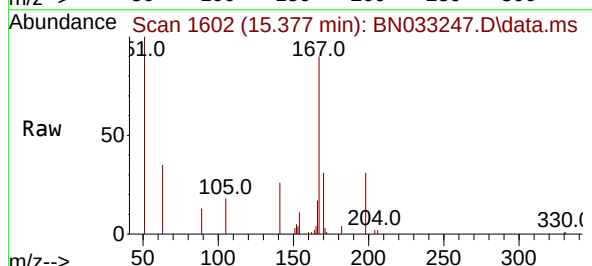
RT: 15.377 min Scan# 1602

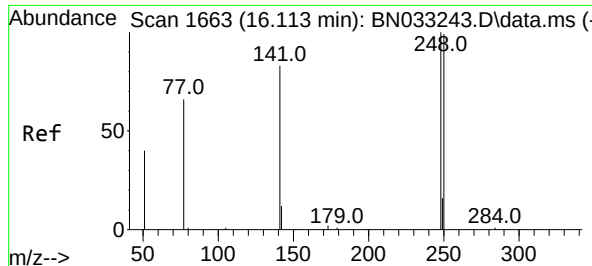
Delta R.T. -0.190 min

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# 1658
Delta R.T. -0.062 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

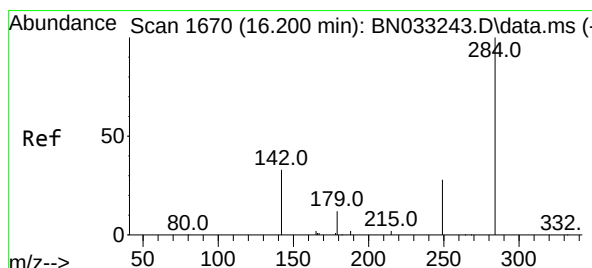
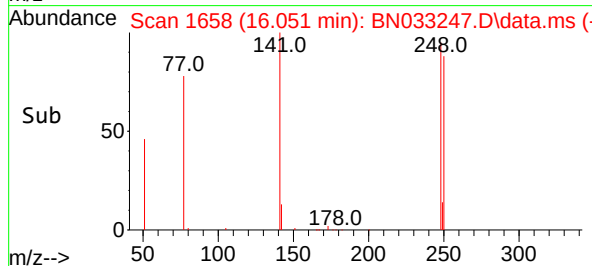
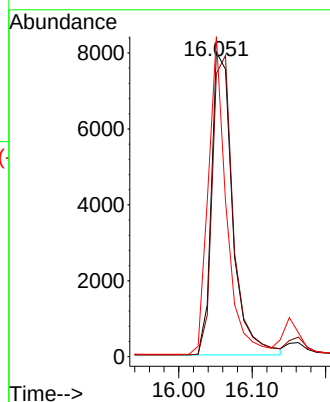
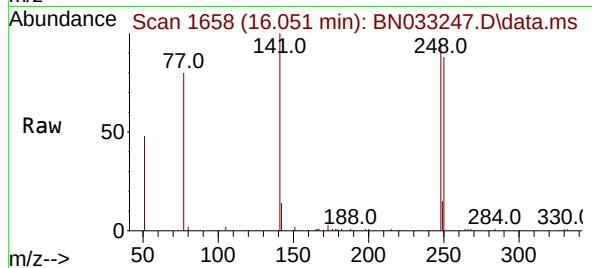
ClientSampleId :

SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.9	80.0	120.0
141	105.0	71.0	106.6

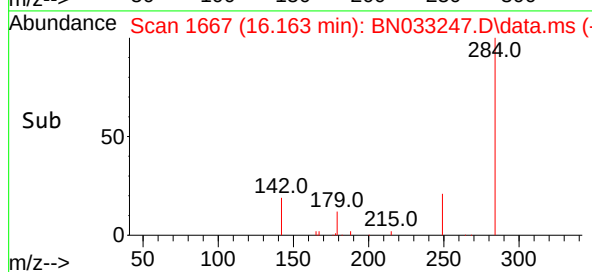
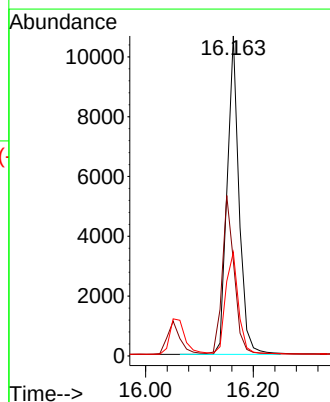
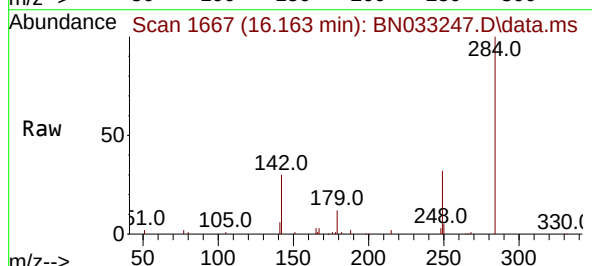
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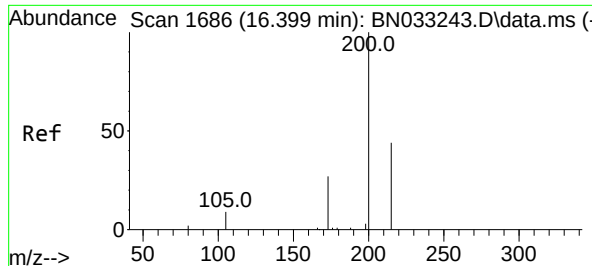
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

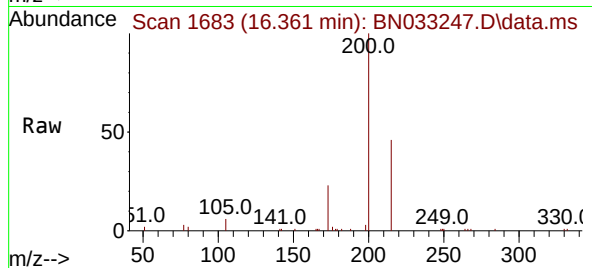
Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.5	38.8	58.2
249	34.3	27.8	41.6





#23
Atrazine
Concen: 4.962 ng
RT: 16.361 min Scan# 1698
Delta R.T. -0.038 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

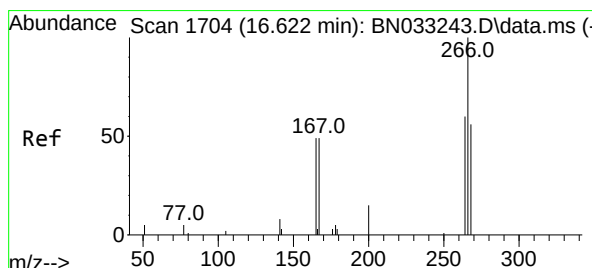
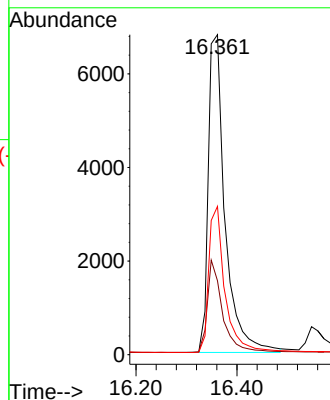
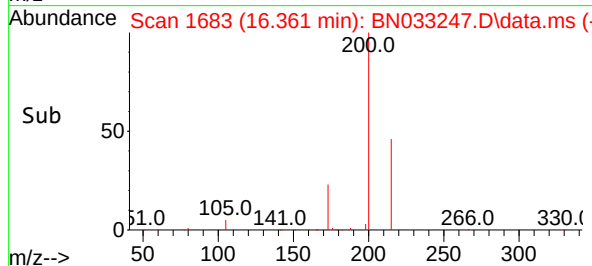
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



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

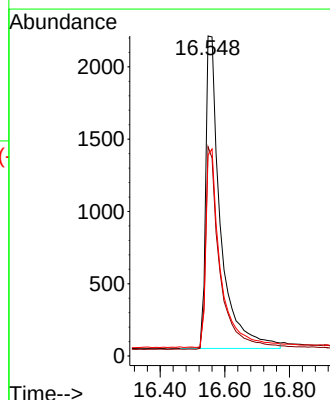
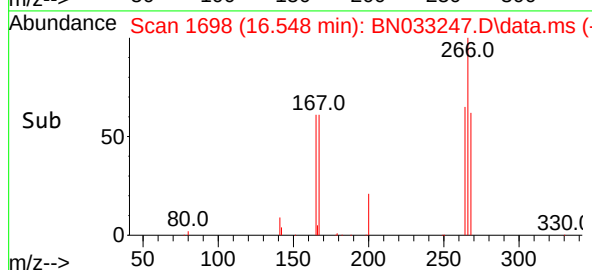
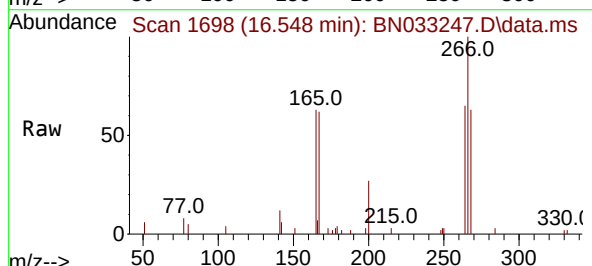
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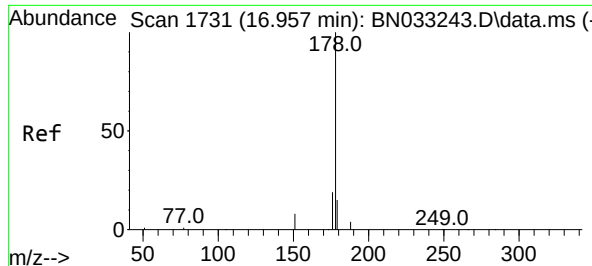
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





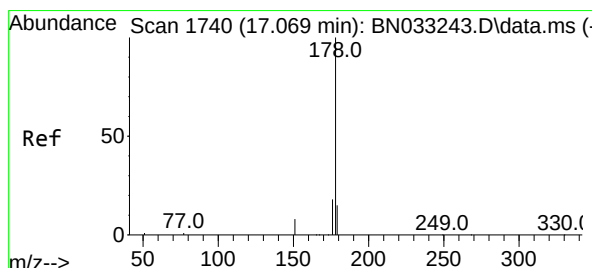
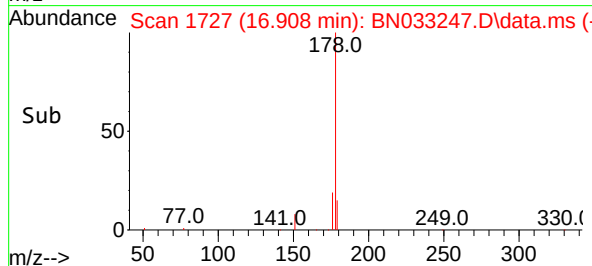
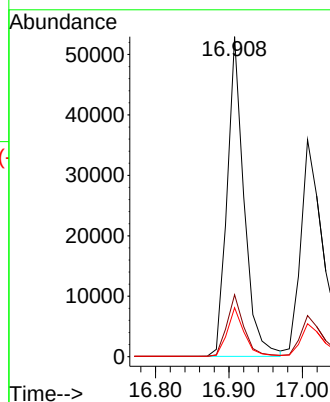
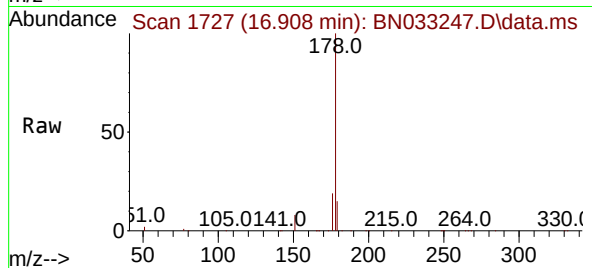
#25
Phenanthrene
Concen: 4.978 ng
RT: 16.908 min Scan# 1731
Delta R.T. -0.049 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 84692
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.2 12.4 18.6

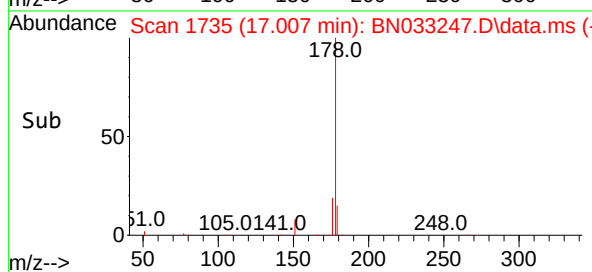
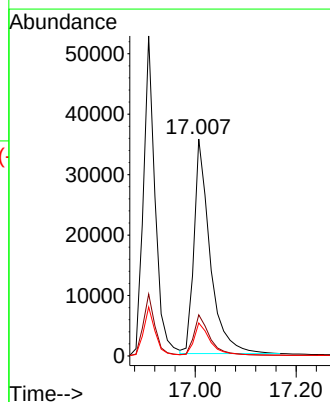
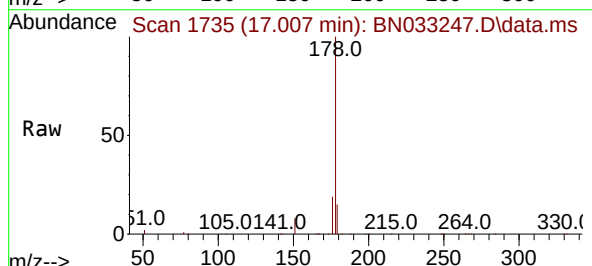
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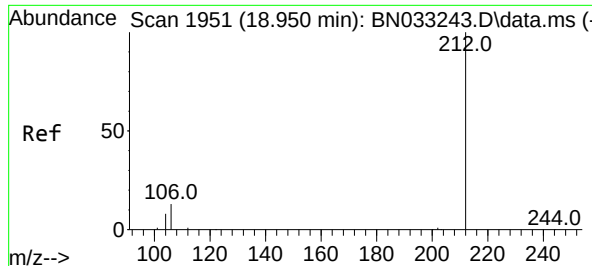
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 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

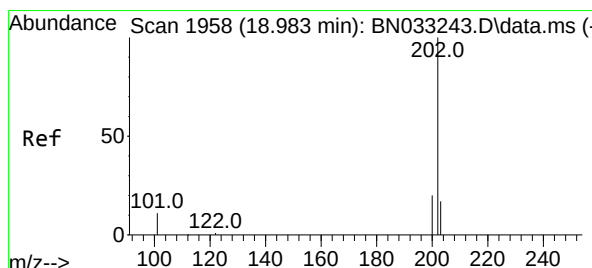
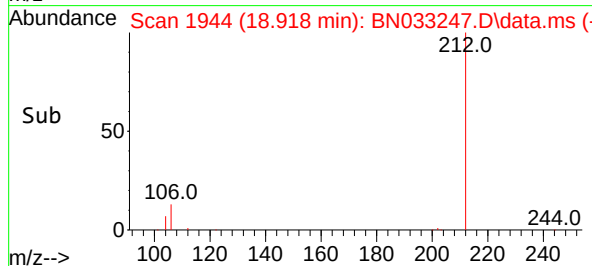
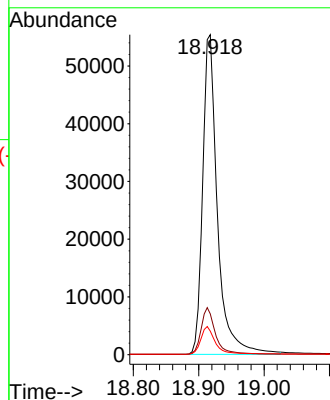
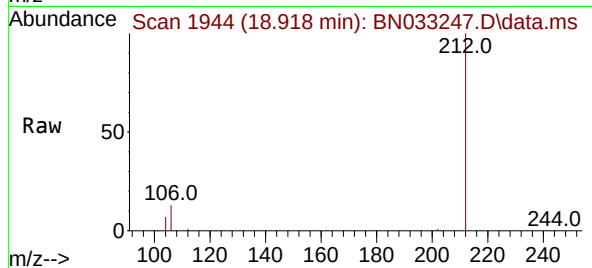
ClientSampleId :

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

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 4.809 ng

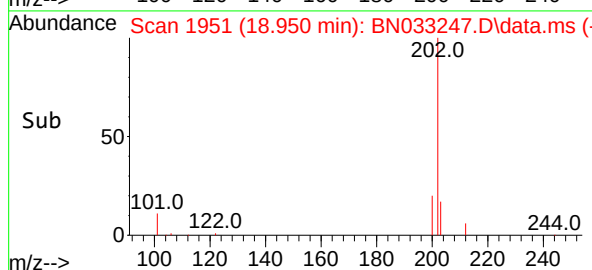
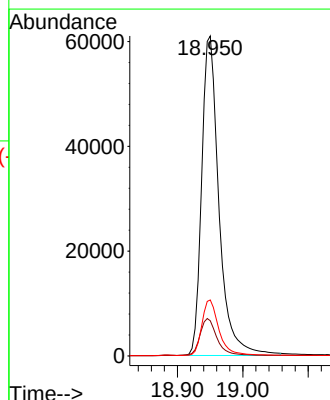
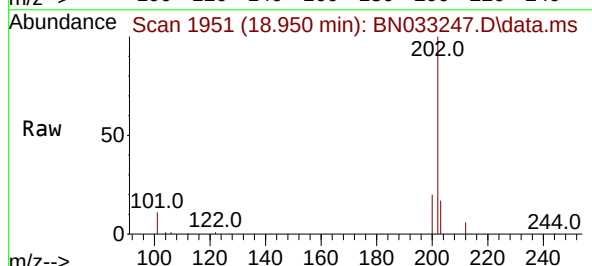
RT: 18.950 min Scan# 1951

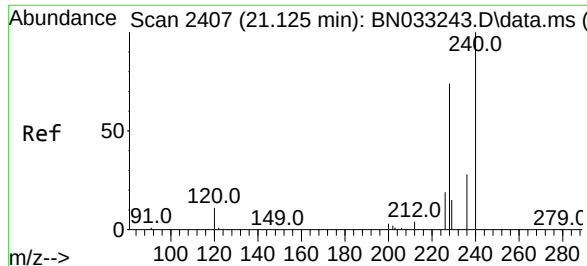
Delta R.T. -0.033 min

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

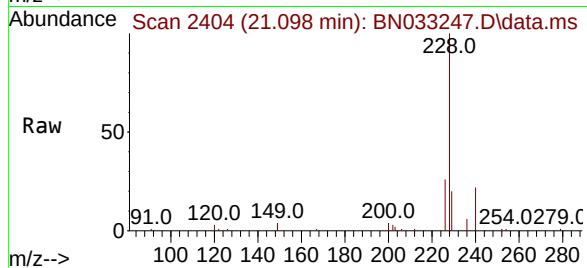
Acq: 05 Aug 2024 22:21

Instrument :

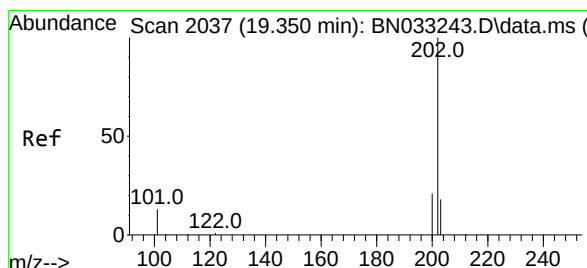
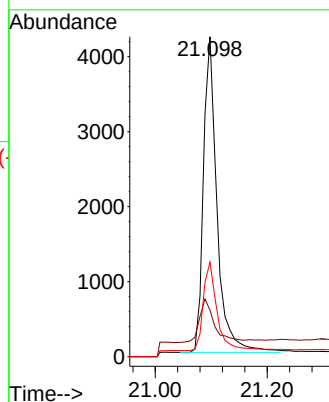
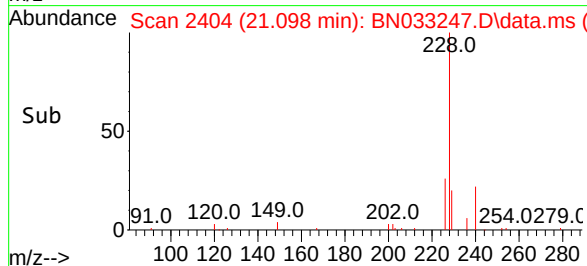
BNA_N

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

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Supervised By :mohammad ahmed 08/07/2024

#30

Pyrene

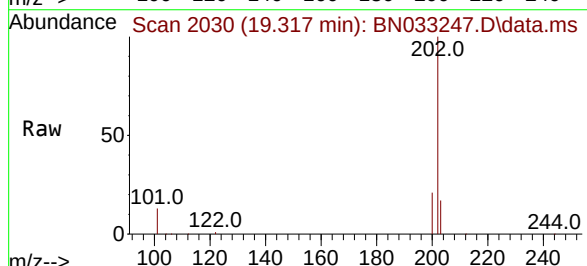
Concen: 4.795 ng

RT: 19.317 min Scan# 2030

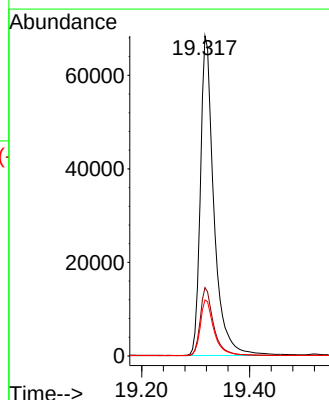
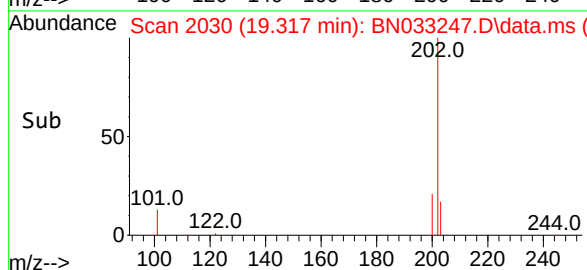
Delta R.T. -0.033 min

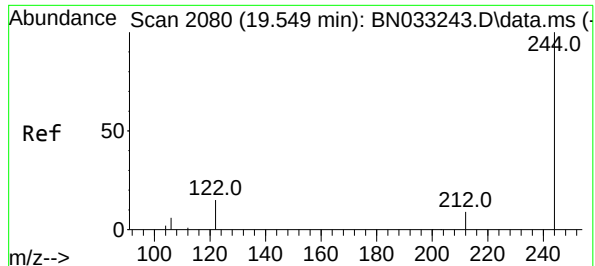
Lab File: BN033247.D

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





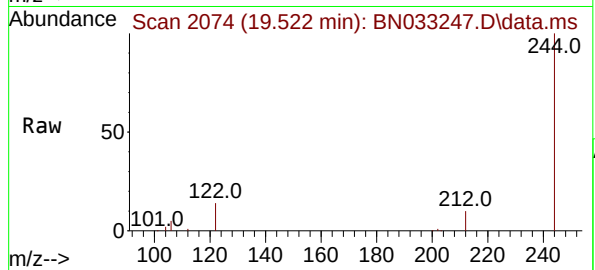
#31
Terphenyl-d14
Concen: 4.919 ng
RT: 19.522 min Scan# 2074
Delta R.T. -0.028 min
Lab File: BN033247.D
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

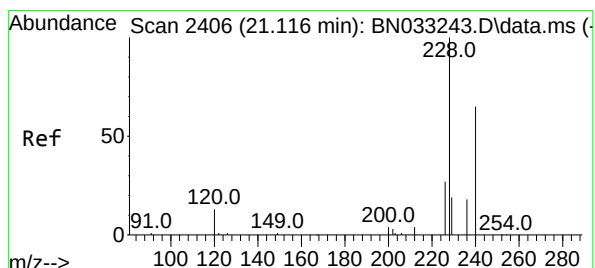
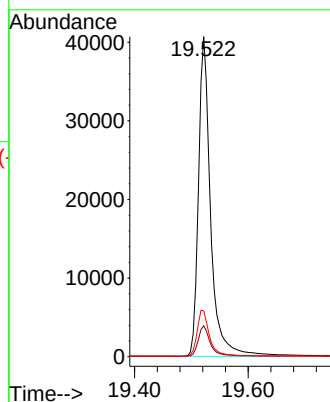
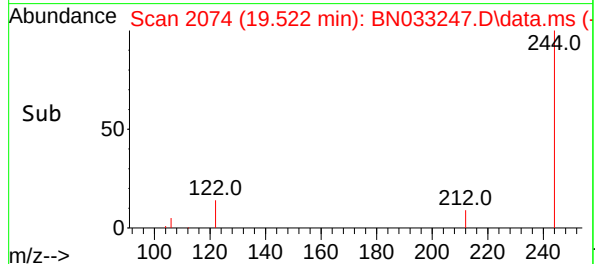


Tgt Ion:244 Resp: 6025
Ion Ratio Lower Upper
244 100
212 9.6 9.9 14.9
122 14.3 14.1 21.1

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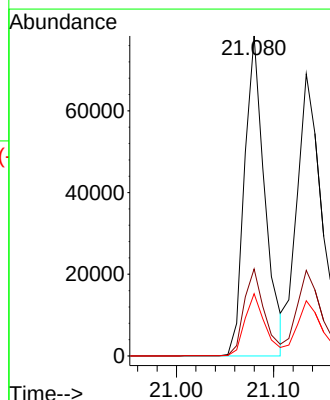
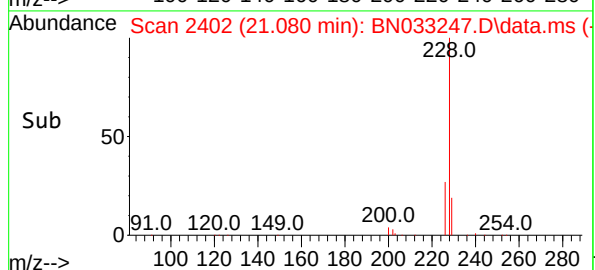
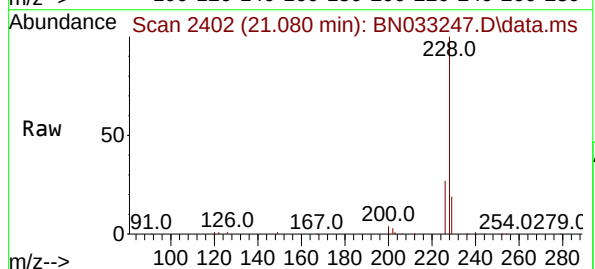
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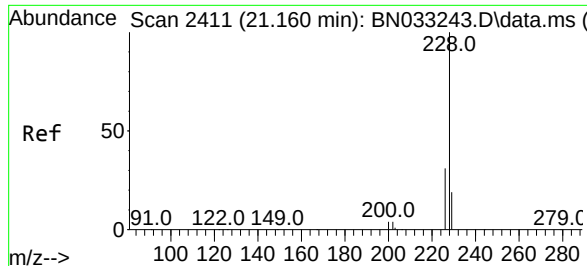
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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:228 Resp: 109718
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

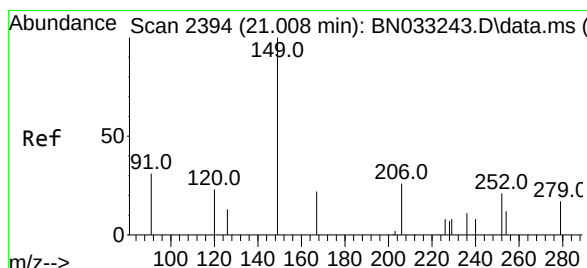
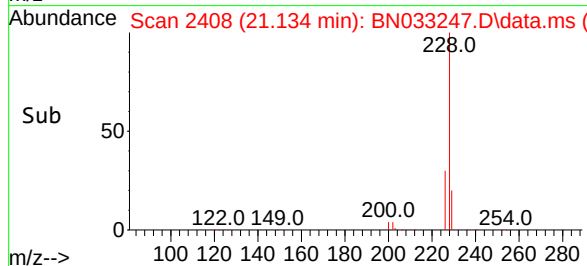
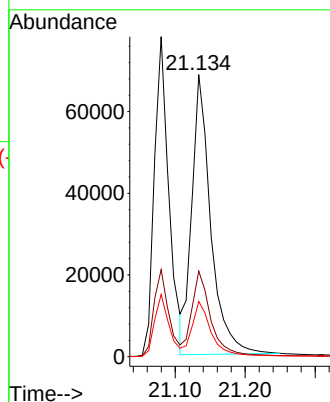
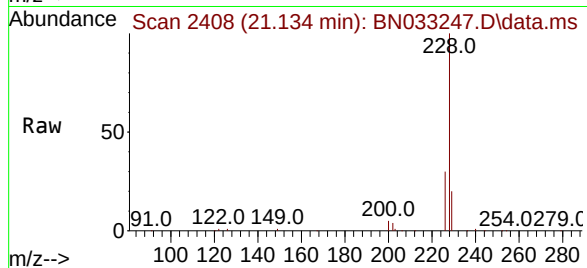
228 100

226 30.4 25.1 37.7

229 19.6 16.2 24.2

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.446 ng

RT: 21.008 min Scan# 2394

Delta R.T. 0.000 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21

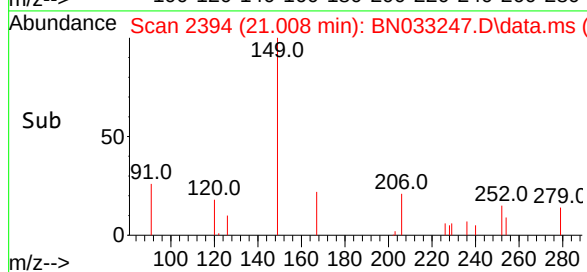
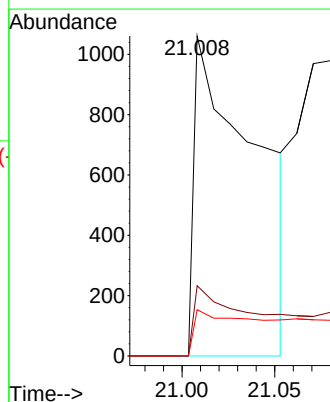
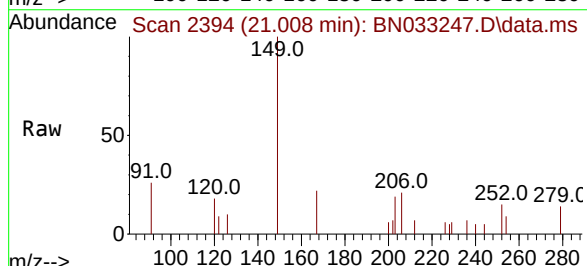
Tgt Ion:149 Resp: 2189

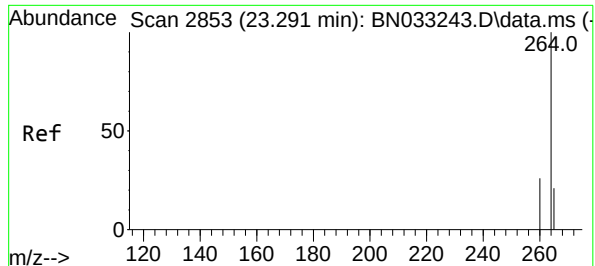
Ion Ratio Lower Upper

149 100

167 24.2 19.8 29.6

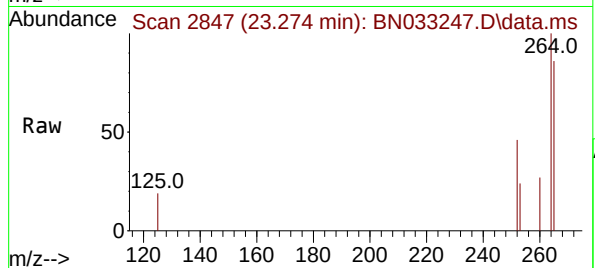
279 13.3 8.2 12.4#





#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

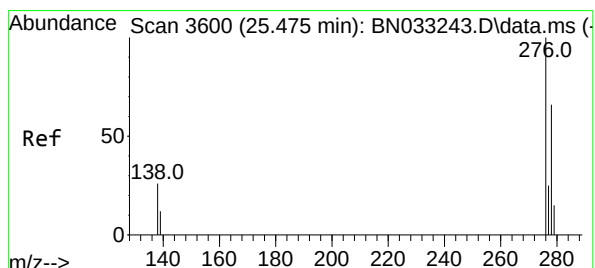
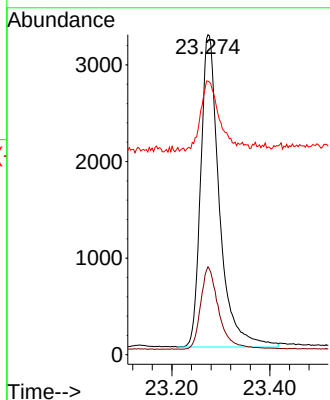
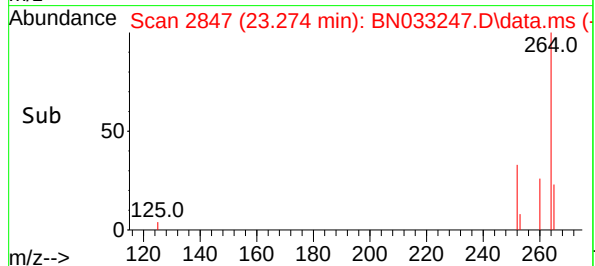
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



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

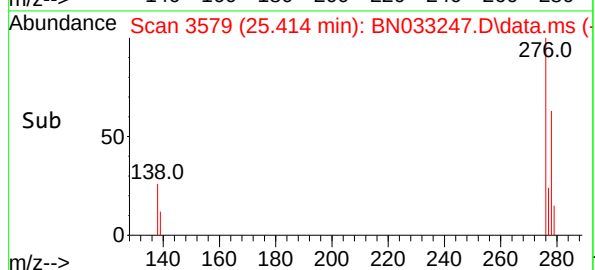
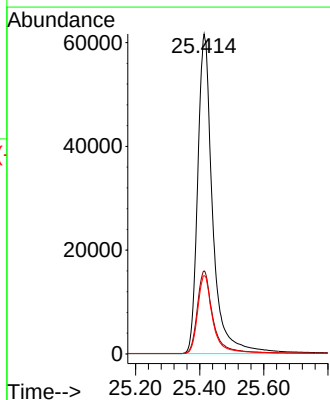
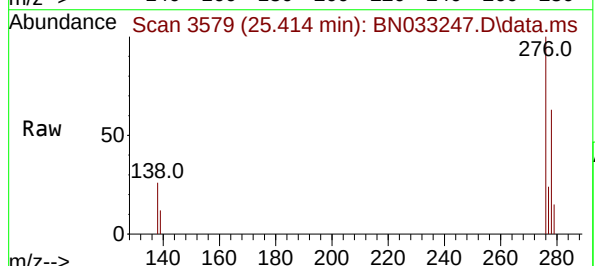
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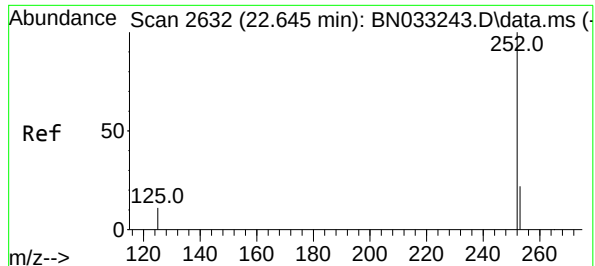
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 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

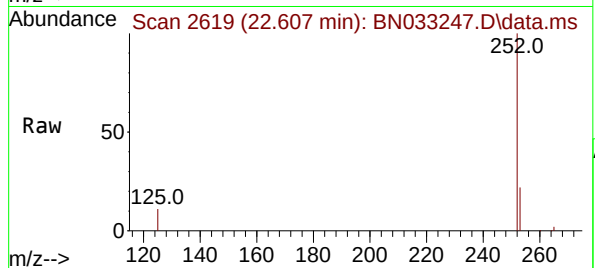
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:252 Resp: 13903

Ion Ratio Lower Upper

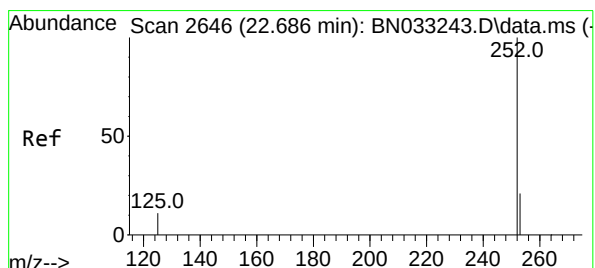
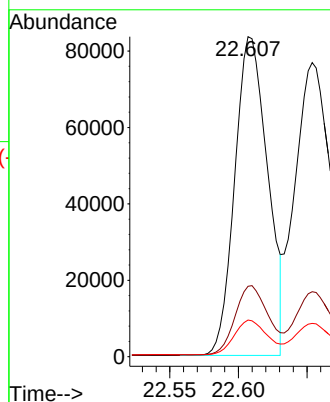
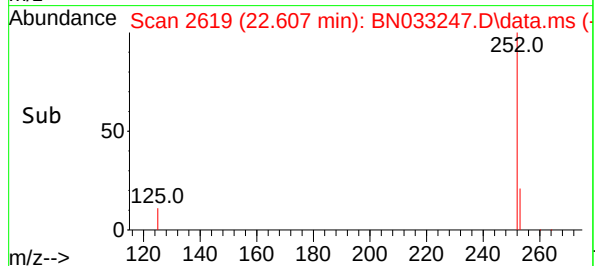
252 100

253 22.0 23.3 34.9

125 11.5 14.6 22.0

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Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

#38

Benzo(k)fluoranthene

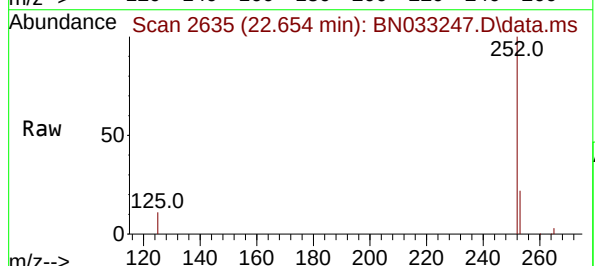
Concen: 4.772 ng

RT: 22.654 min Scan# 2635

Delta R.T. -0.032 min

Lab File: BN033247.D

Acq: 05 Aug 2024 22:21



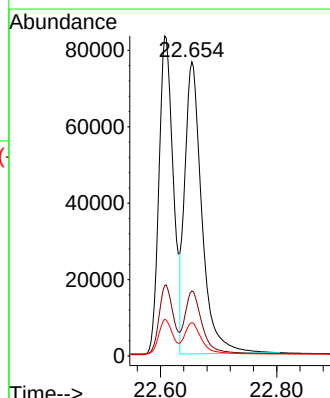
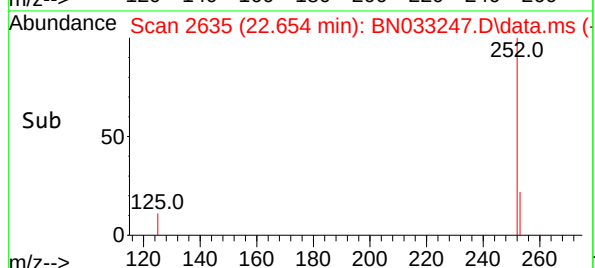
Tgt Ion:252 Resp: 155977

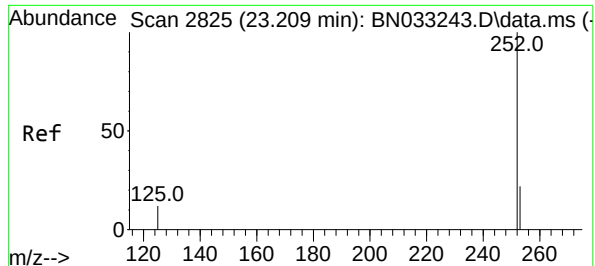
Ion Ratio Lower Upper

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

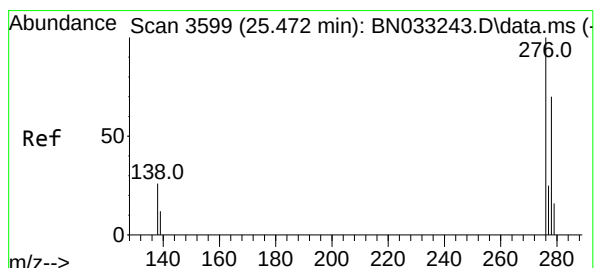
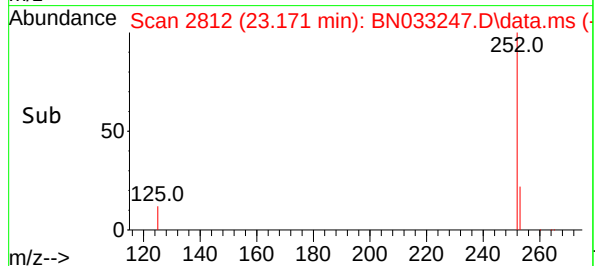
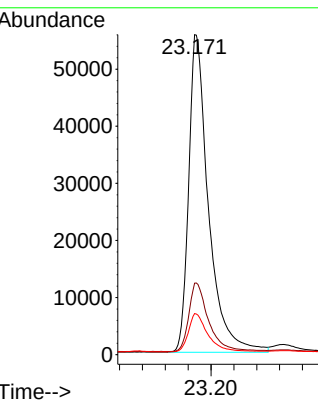
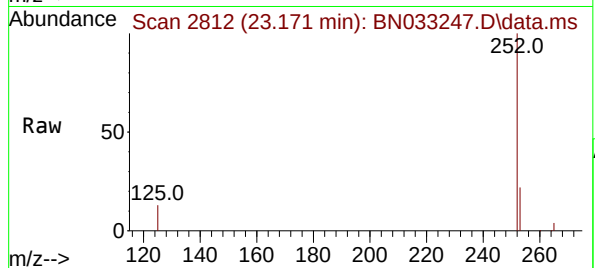
252 100

253 22.4 28.4 42.6

125 12.8 20.1 30.1

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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

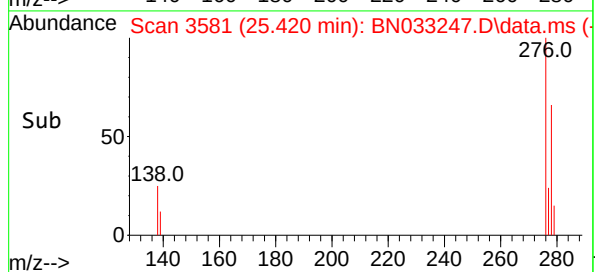
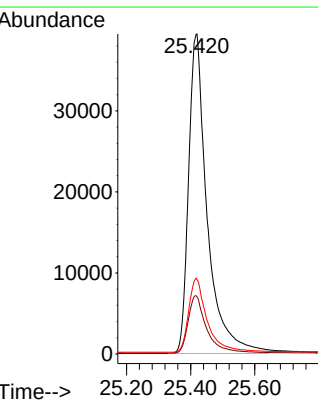
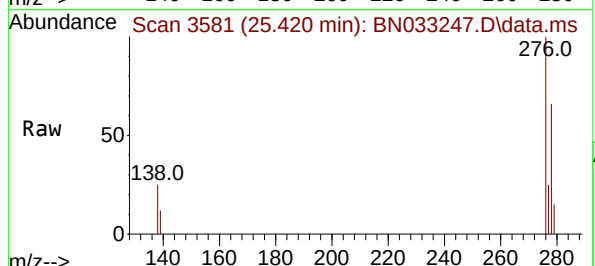
Tgt Ion:278 Resp: 159088

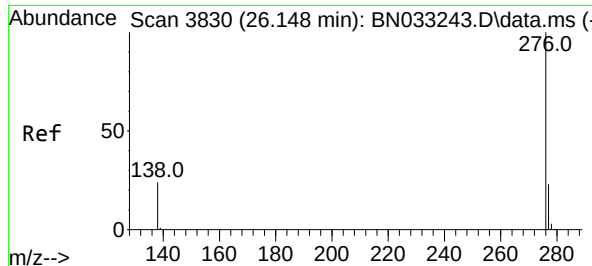
Ion Ratio Lower Upper

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

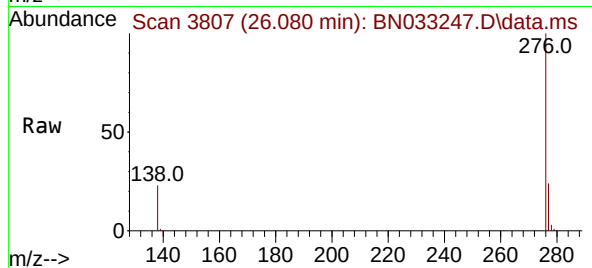
Acq: 05 Aug 2024 22:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:276 Resp: 17366

Ion Ratio Lower Upper

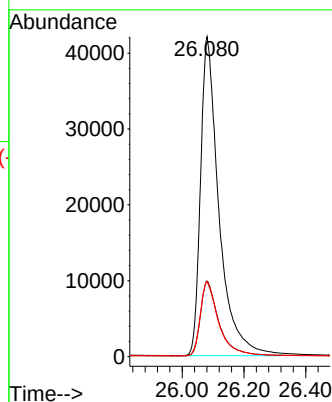
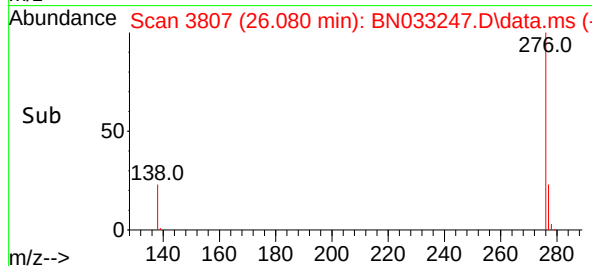
276 100

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 :

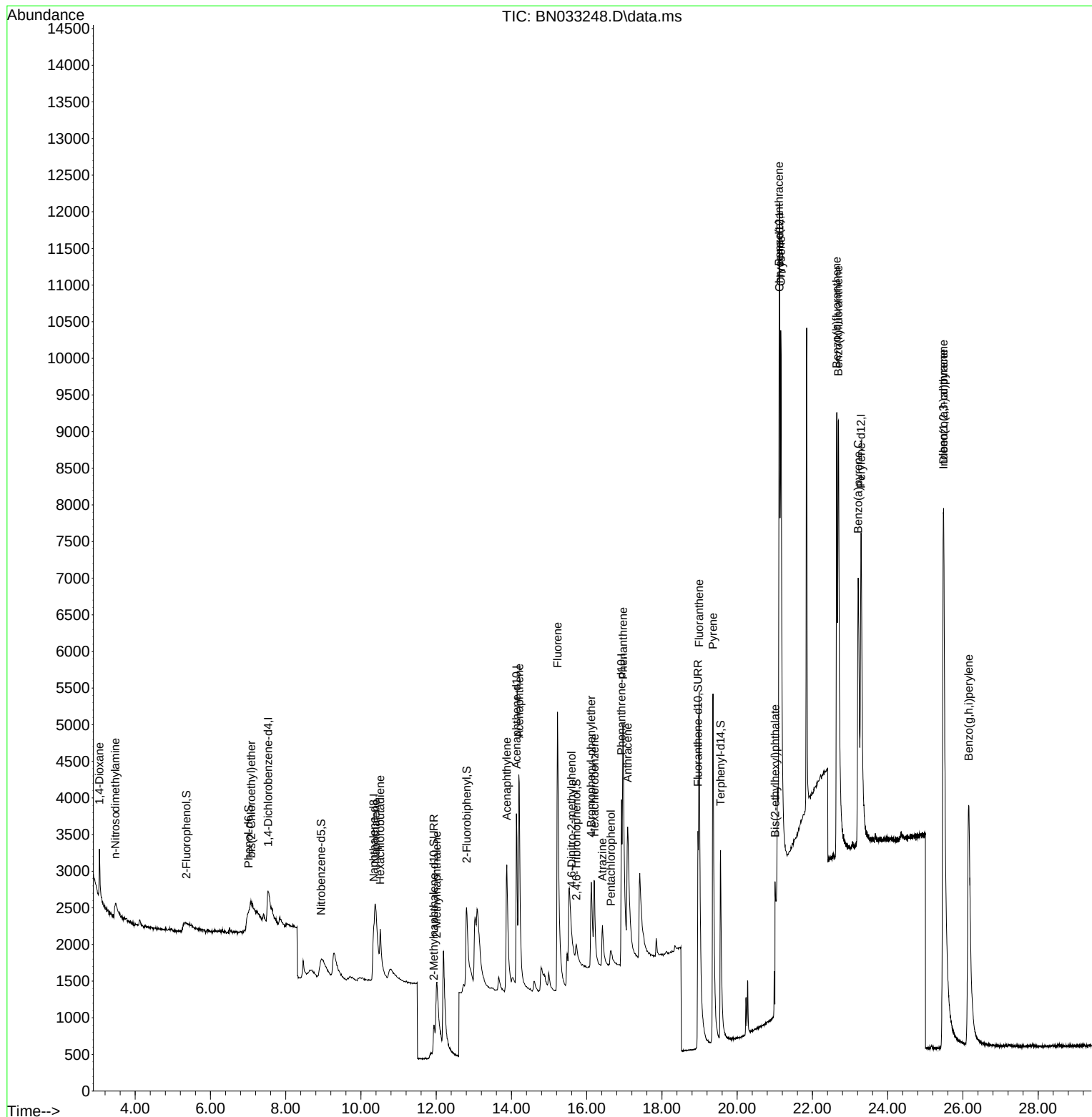
ICVBN080524

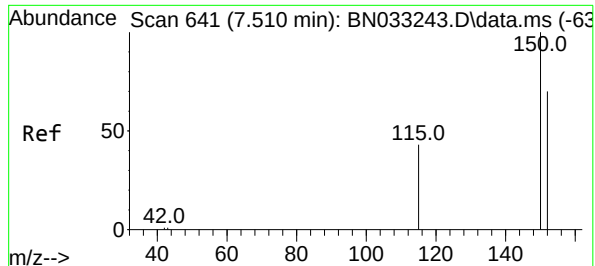
Manual Integrations

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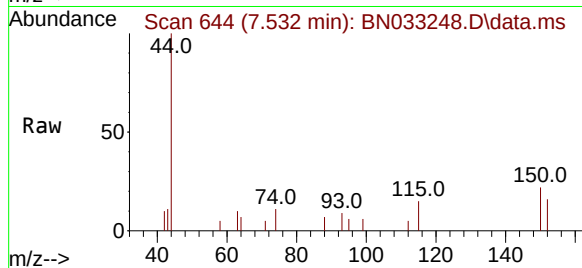
Quant Time: Aug 06 00:00:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration





#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

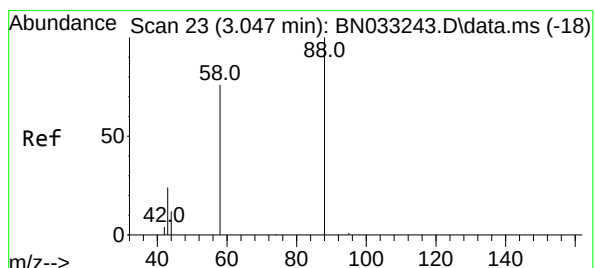
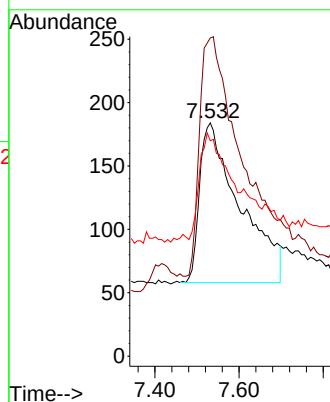
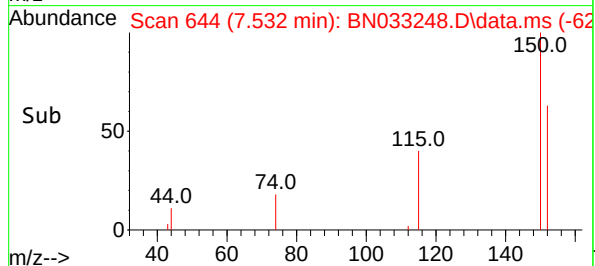
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



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

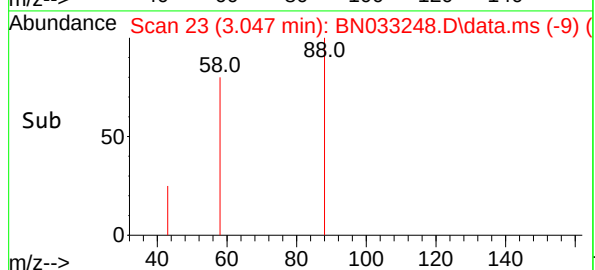
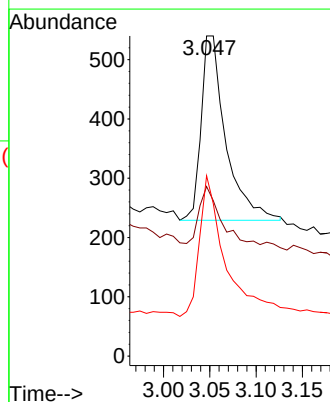
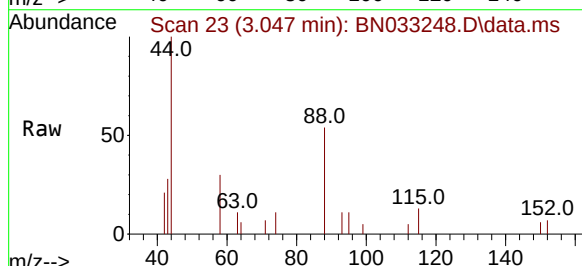
Manual Integrations
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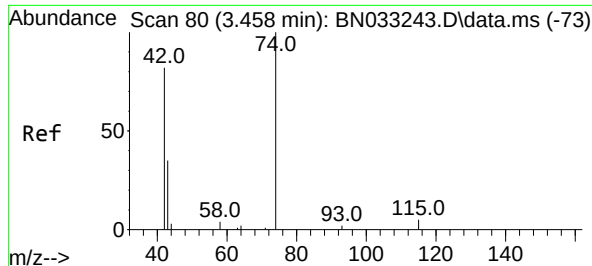
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

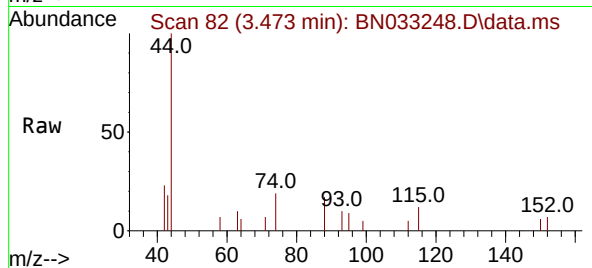
Tgt Ion: 88 Resp: 579
Ion Ratio Lower Upper
88 100
43 32.0 18.6 28.0#
58 80.1 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.473 min Scan# 80
Delta R.T. 0.015 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

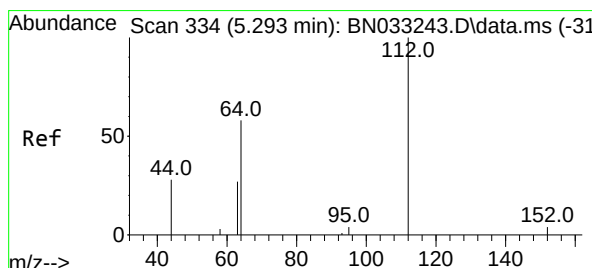
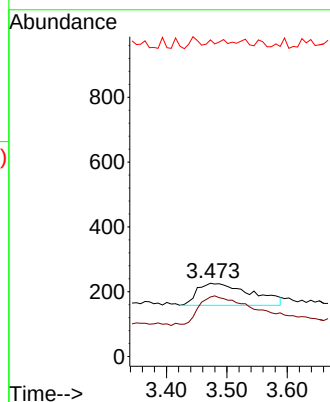
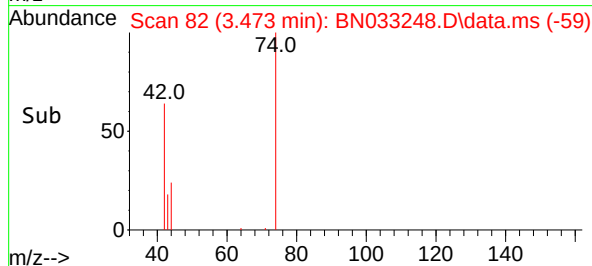
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



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

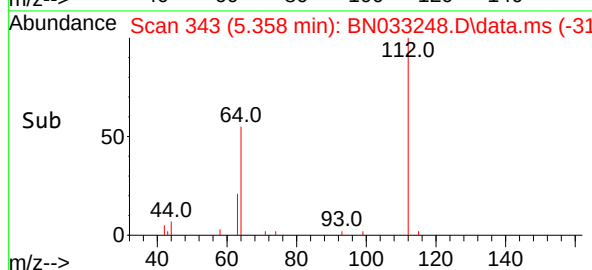
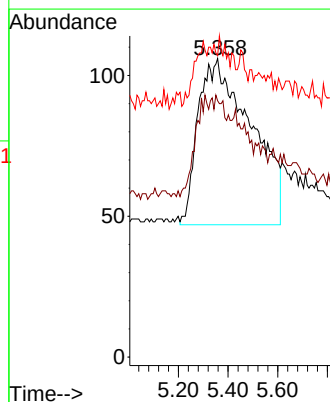
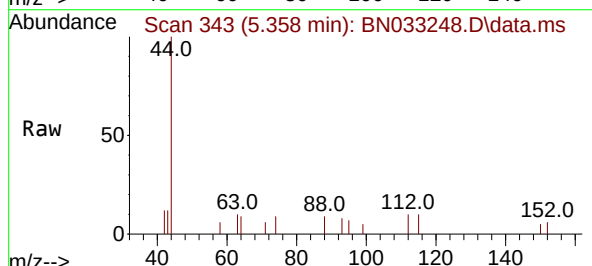
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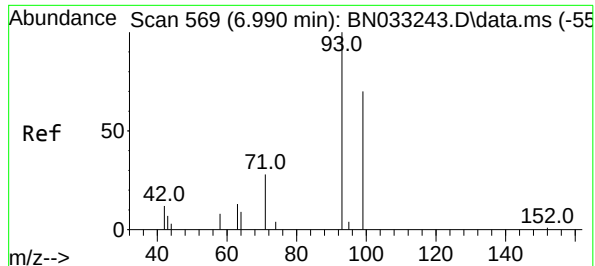
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

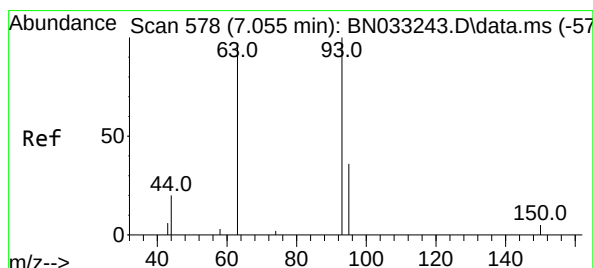
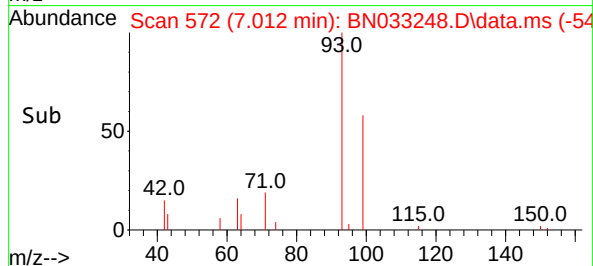
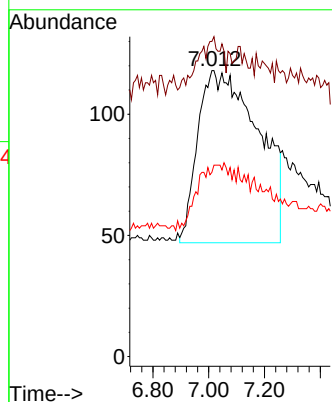
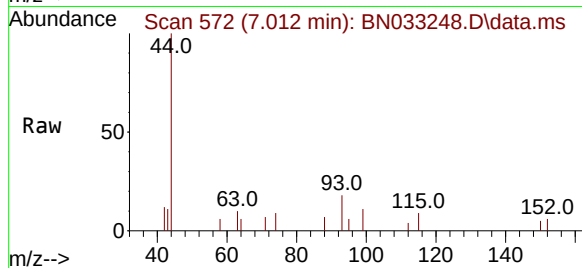
ClientSampleId :

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

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#6

bis(2-Chloroethyl)ether

Concen: 0.399 ng m

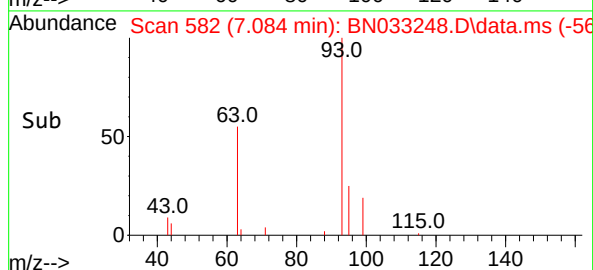
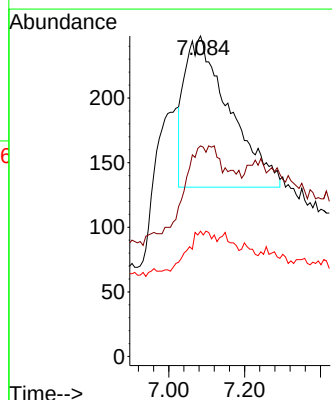
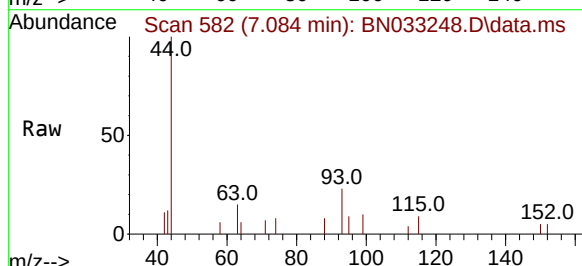
RT: 7.084 min Scan# 582

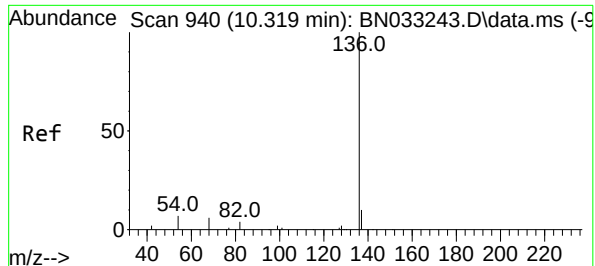
Delta R.T. 0.029 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

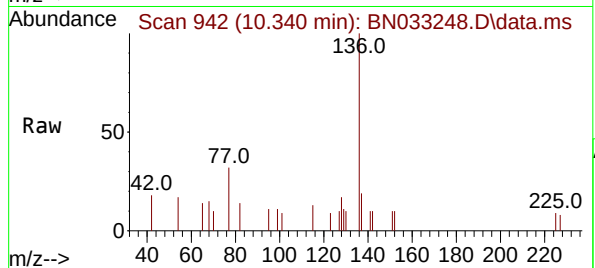
Tgt Ion:	93	Resp:	959
Ion	Ratio	Lower	Upper
93	100		
63	0.0	1.1	1.7
95	0.0	0.0	0.0





#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

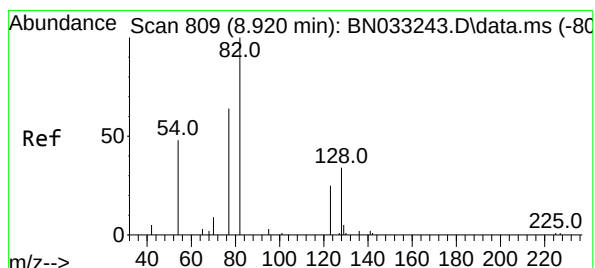
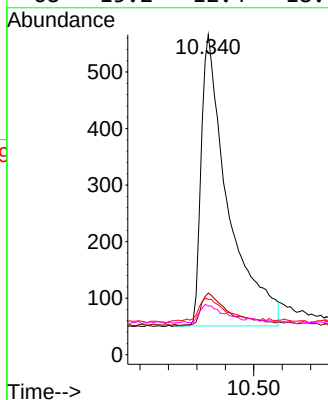
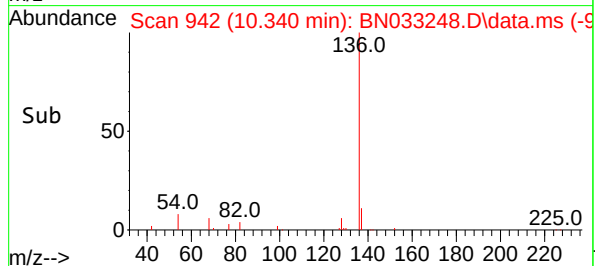
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



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

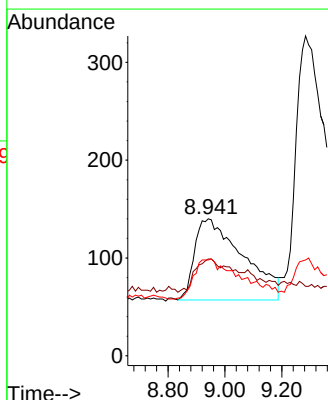
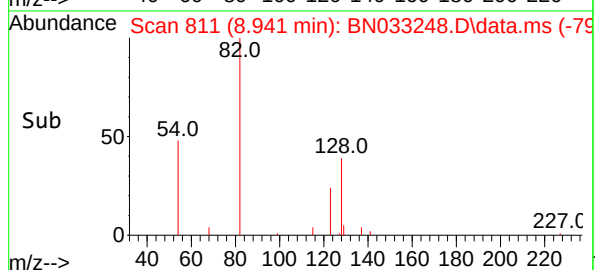
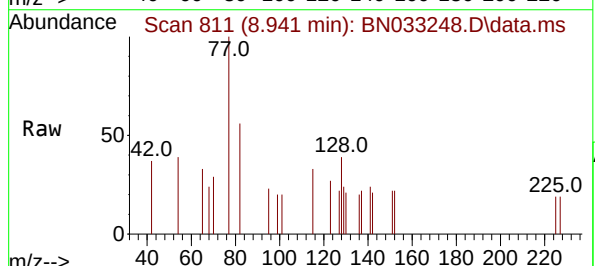
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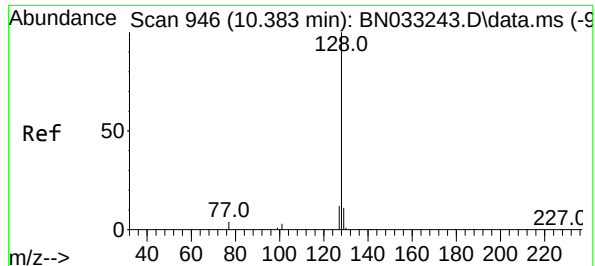
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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





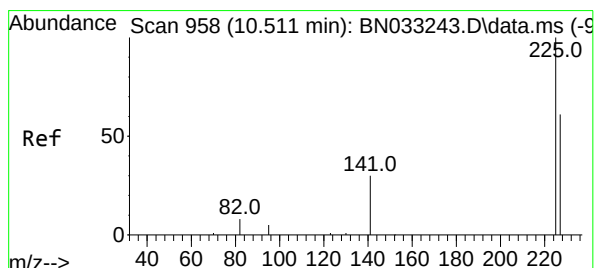
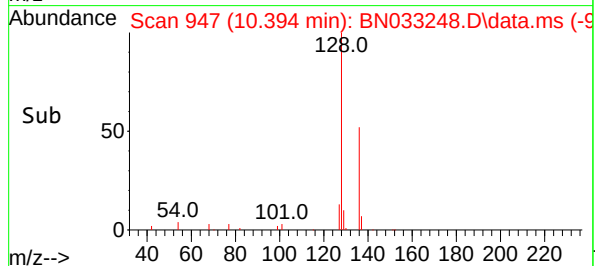
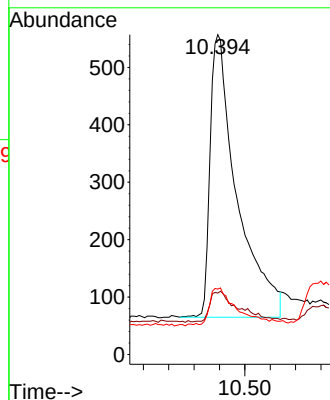
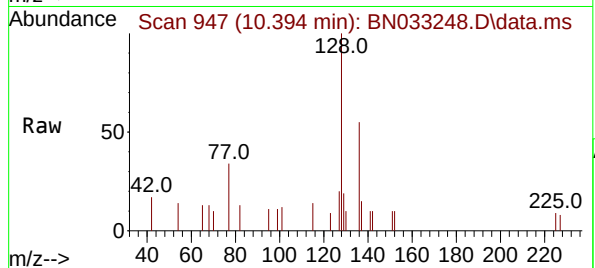
#9
Naphthalene
Concen: 0.395 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

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

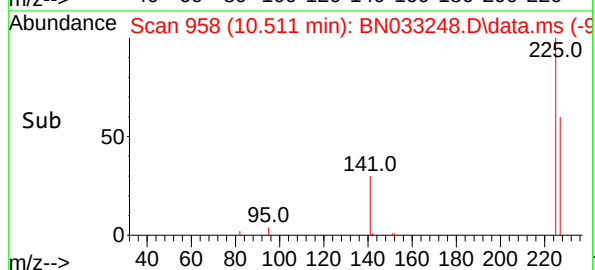
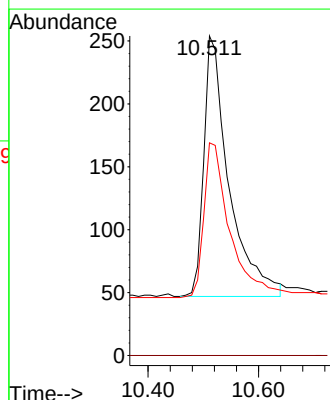
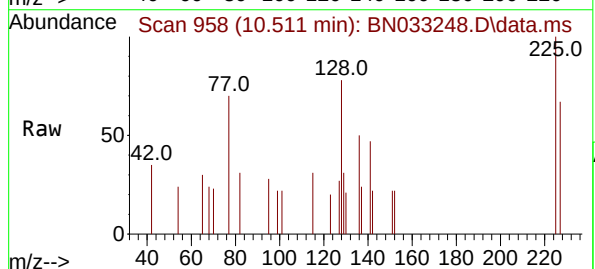
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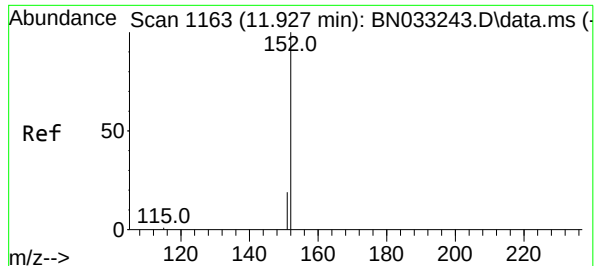
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

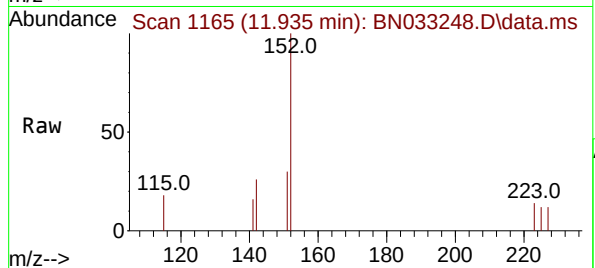
Tgt Ion:225 Resp: 656
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.6 50.2 75.4





#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

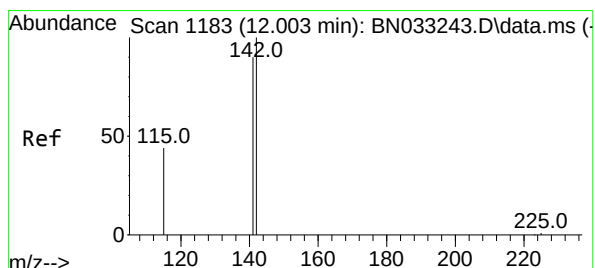
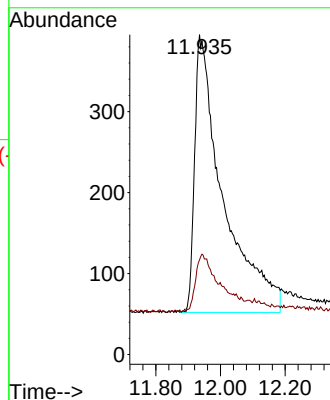
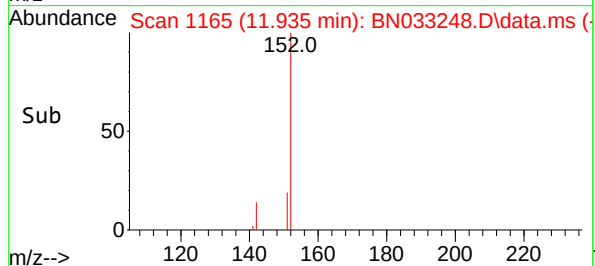
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 17.0 11.9 17.9

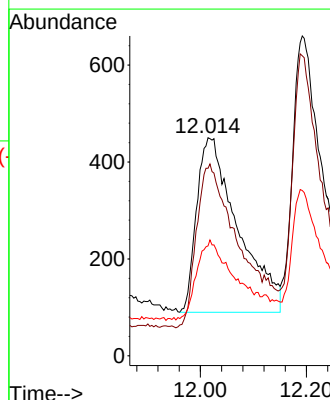
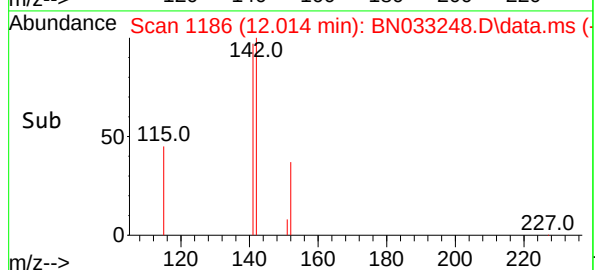
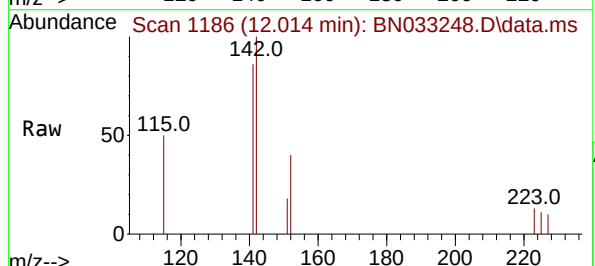
Manual Integrations
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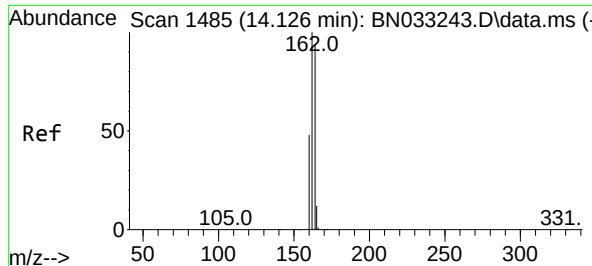
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#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

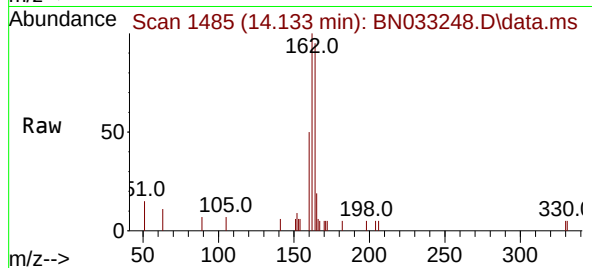
Tgt Ion:142 Resp: 1947
Ion Ratio Lower Upper
142 100
141 86.0 68.7 103.1
115 50.4 41.6 62.4





#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

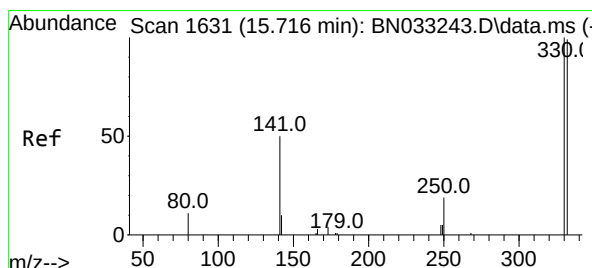
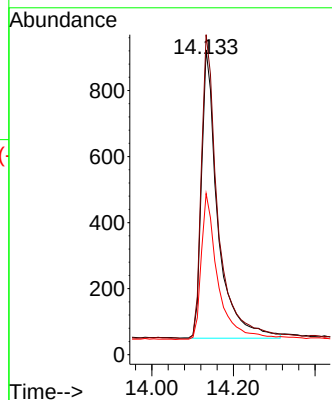
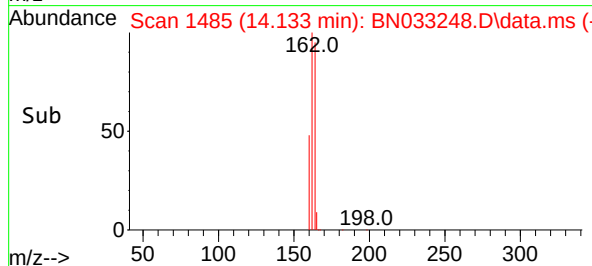
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



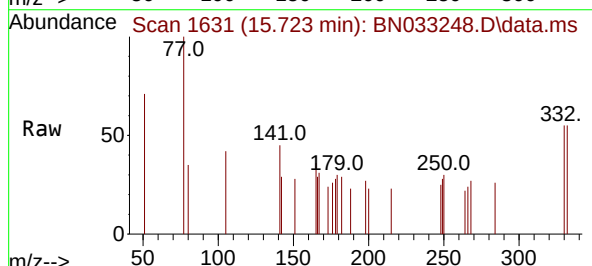
Tgt Ion:164 Resp: 242
Ion Ratio Lower Upper
164 100
162 105.0 84.6 127.0
160 52.9 42.4 63.6

Manual Integrations
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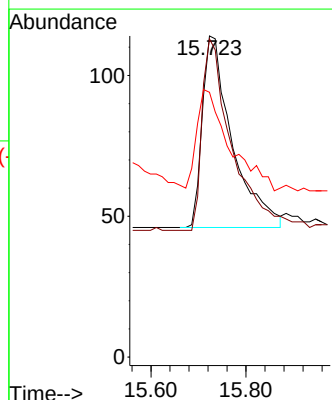
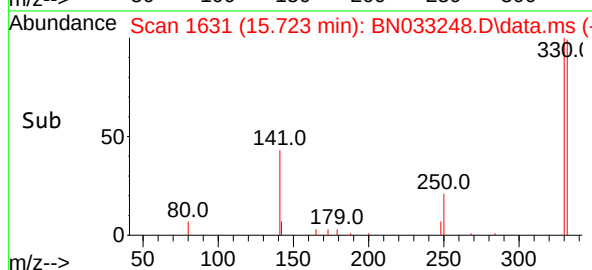
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

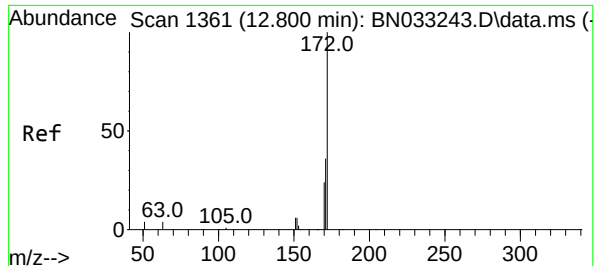


#14
2,4,6-Tribromophenol
Concen: 0.330 ng
RT: 15.723 min Scan# 1631
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



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





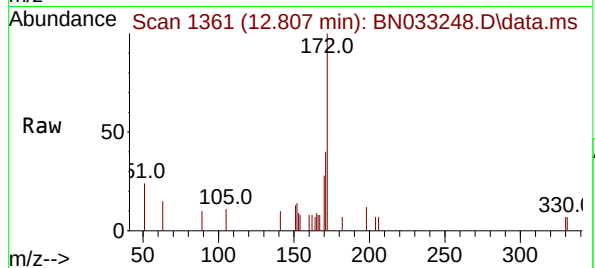
#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.807 min Scan# 1361
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

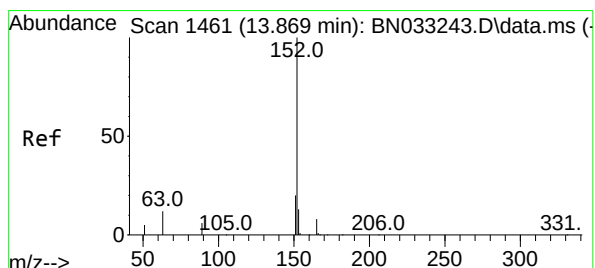
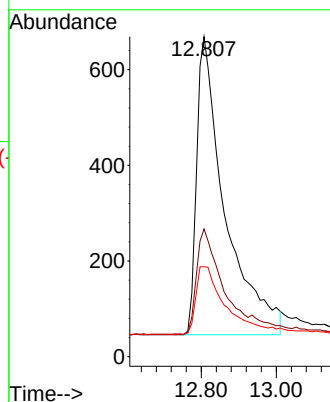
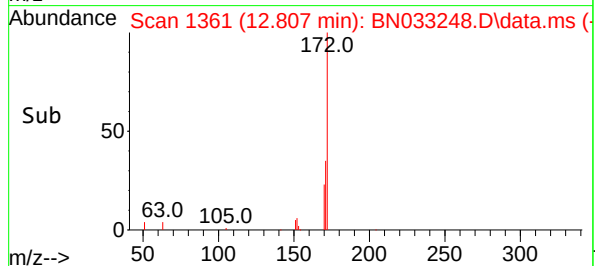


Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.9	32.3	48.5
170	28.1	23.4	35.2

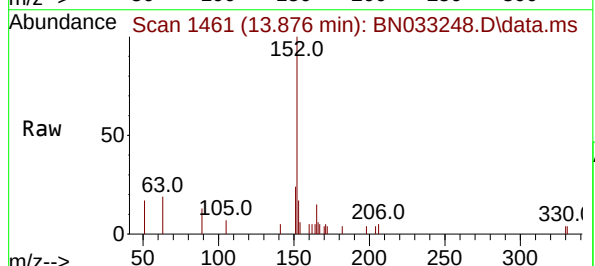
Manual Integrations

APPROVED

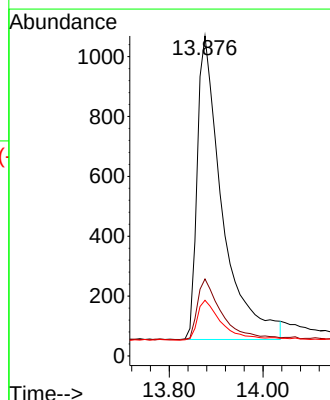
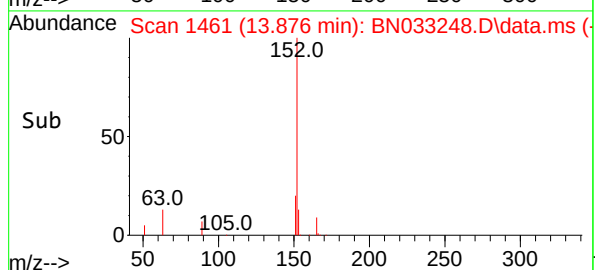
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

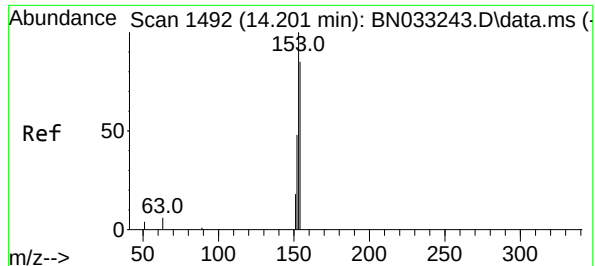


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.876 min Scan# 1461
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



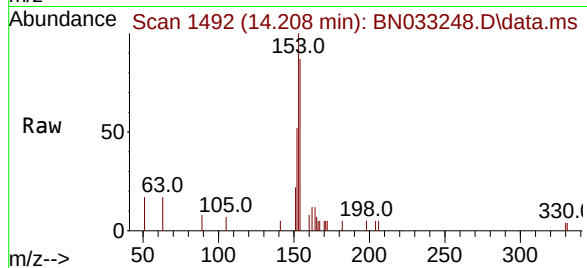
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.1	24.1
153	12.5	10.2	15.2





#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

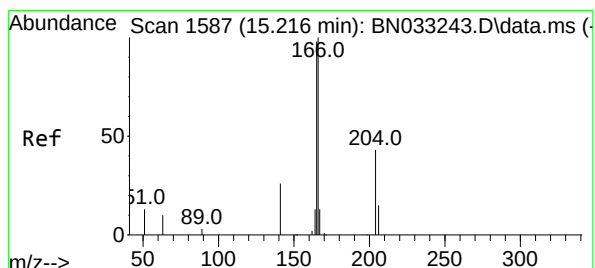
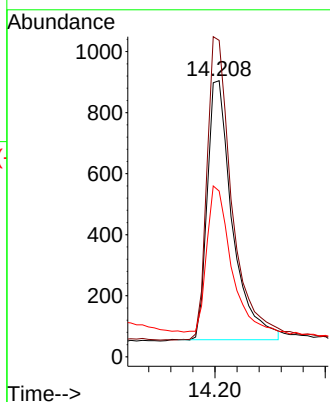
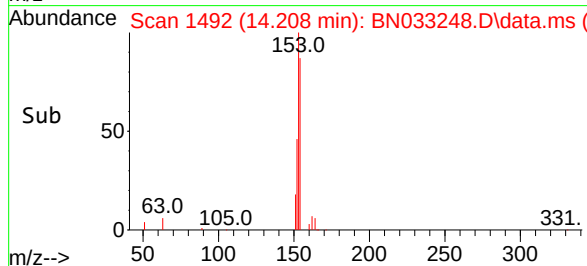
Instrument :
BNA_N
ClientSampleId :
ICVBN080524



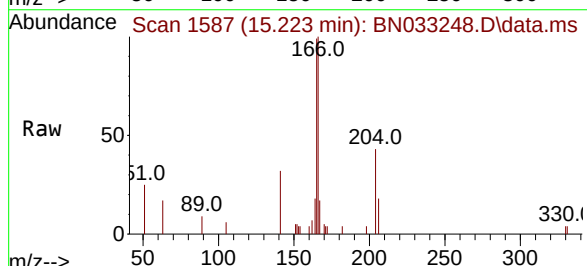
Tgt Ion:154 Resp: 268
Ion Ratio Lower Upper
154 100
153 117.0 92.7 139.1
152 54.4 44.0 66.0

Manual Integrations
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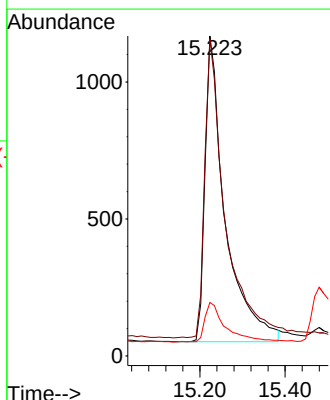
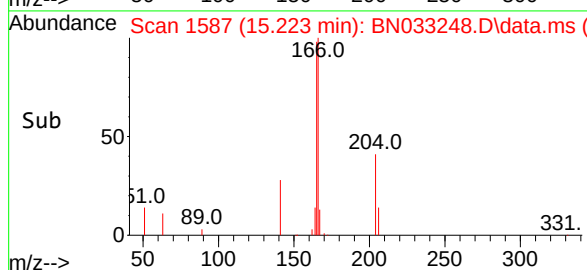
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

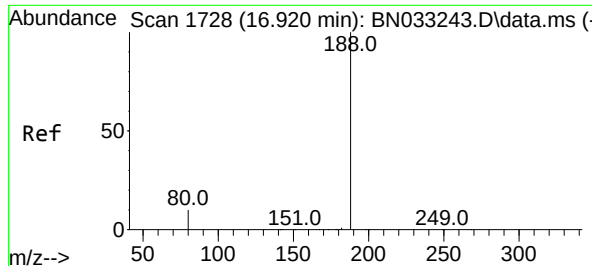


#18
Fluorene
Concen: 0.389 ng
RT: 15.223 min Scan# 1587
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



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

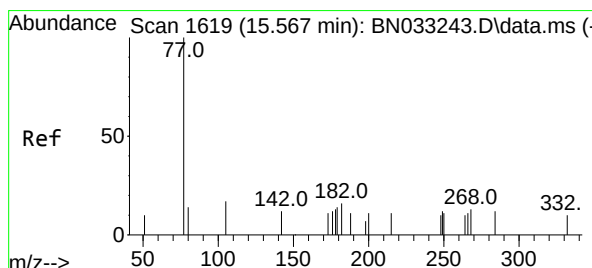
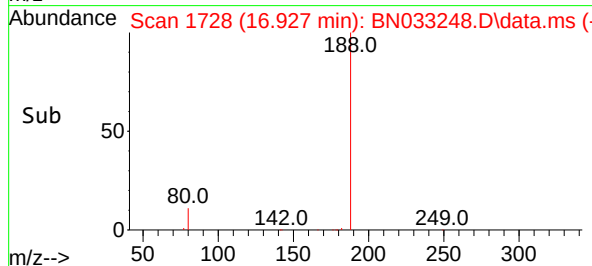
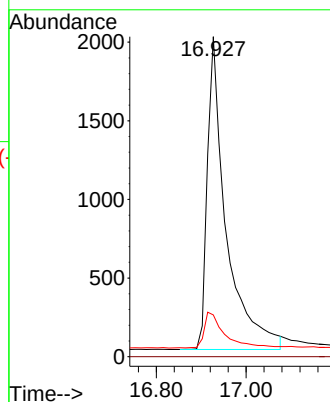
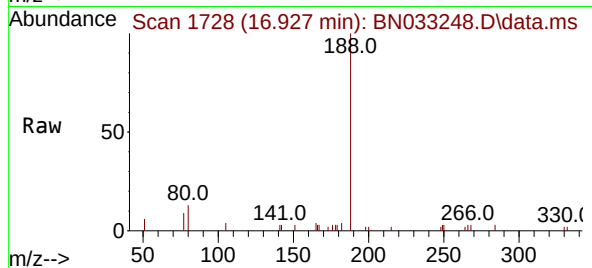
ClientSampleId :

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
APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.407 ng

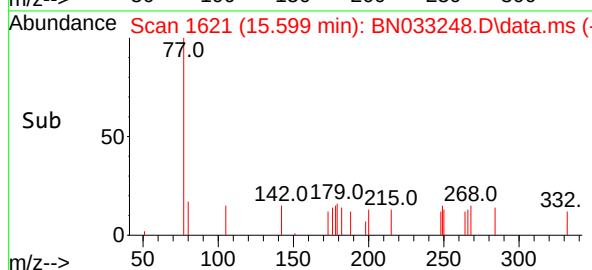
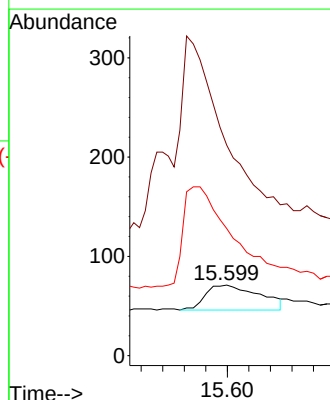
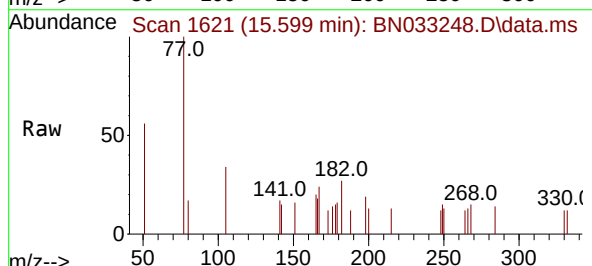
RT: 15.599 min Scan# 1621

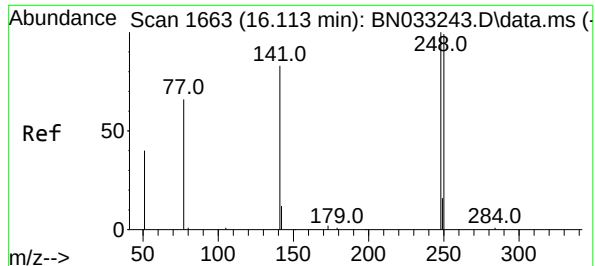
Delta R.T. 0.032 min

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





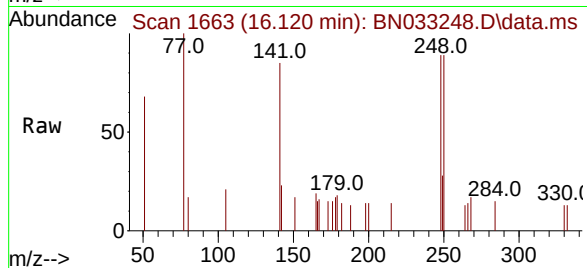
#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.120 min Scan# 1663
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

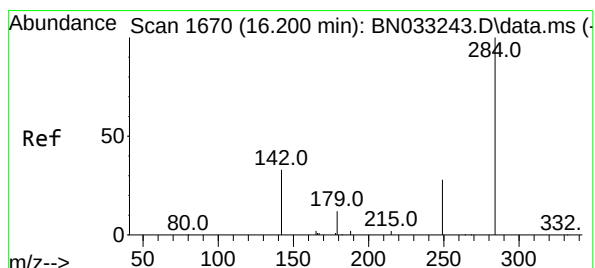
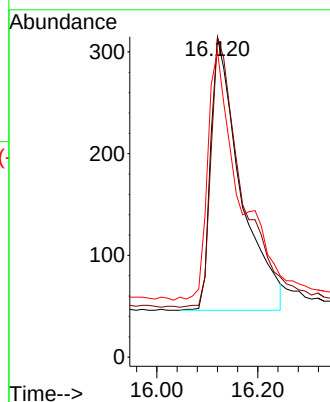
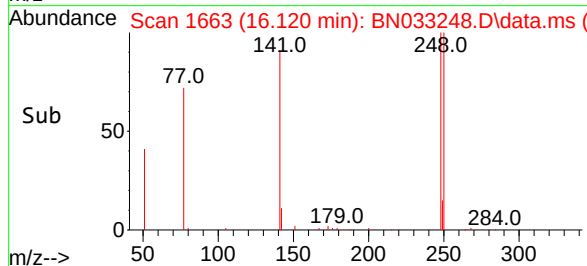


Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.0	120.0
141	95.9	71.0	106.6

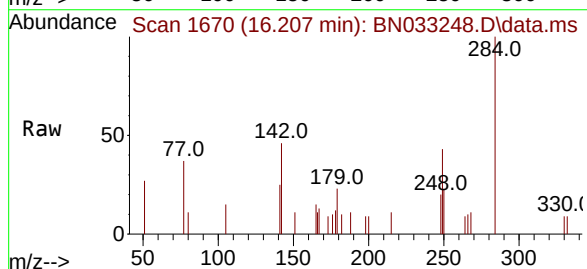
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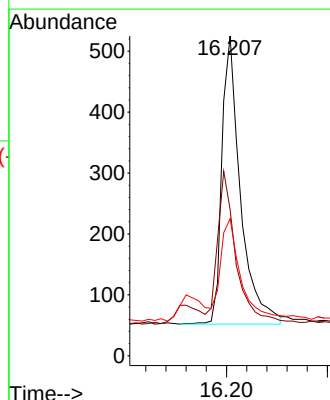
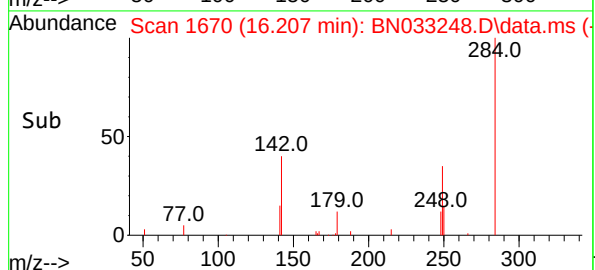
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

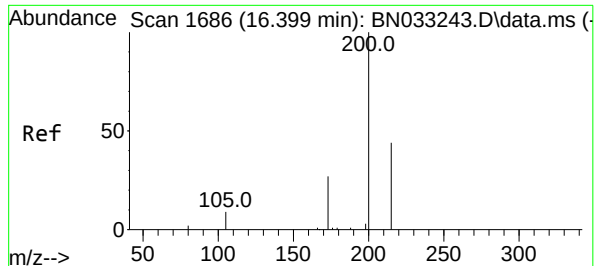


#22
Hexachlorobenzene
Concen: 0.377 ng
RT: 16.207 min Scan# 1670
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



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 :

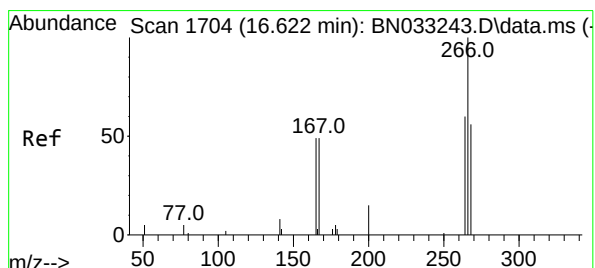
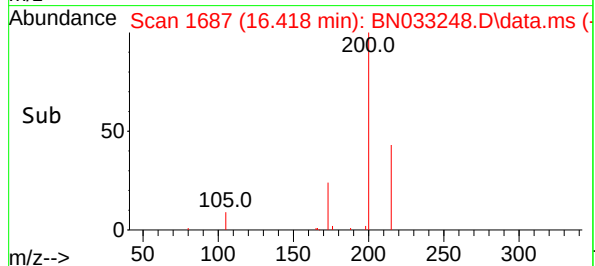
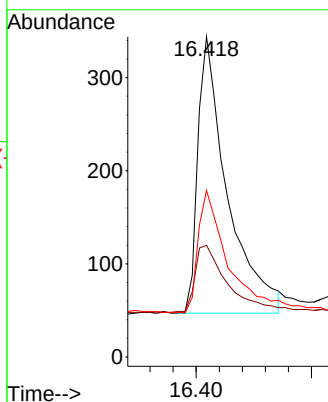
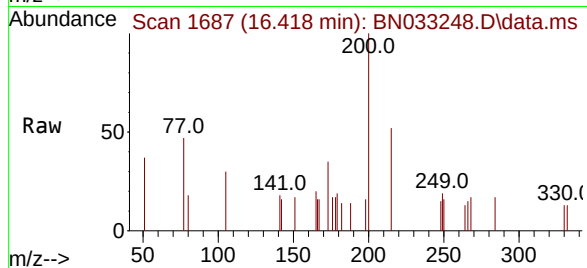
ICVBN080524

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

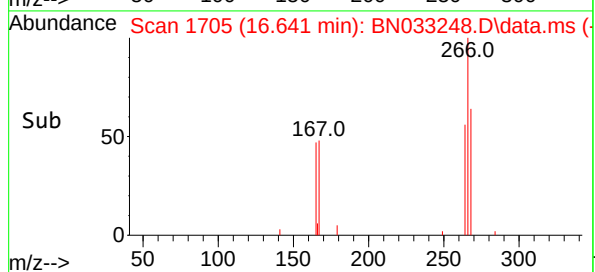
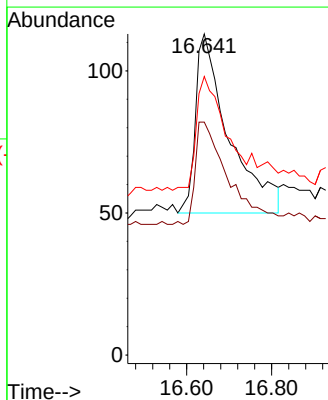
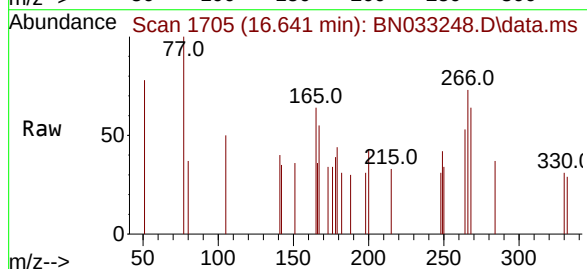
RT: 16.641 min Scan# 1705

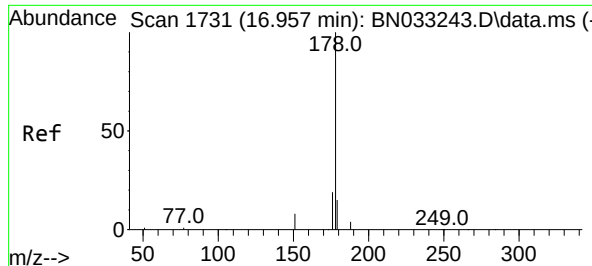
Delta R.T. 0.019 min

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 :

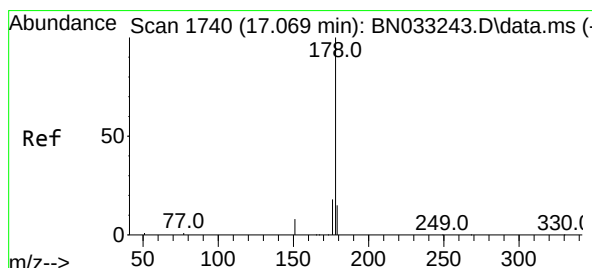
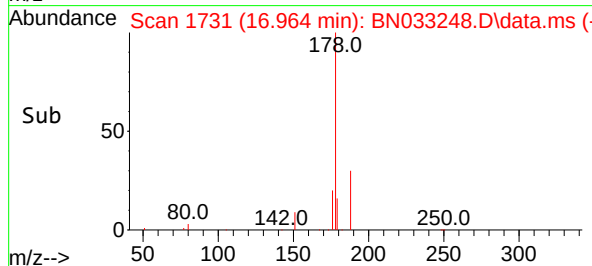
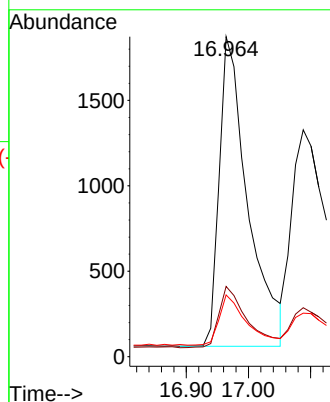
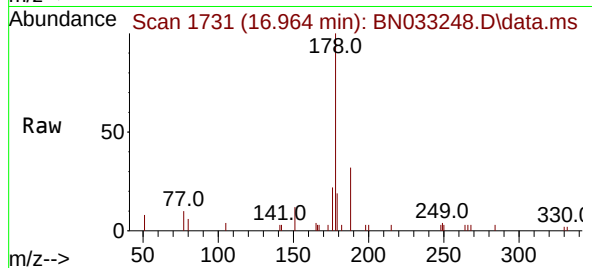
ICVBN080524

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

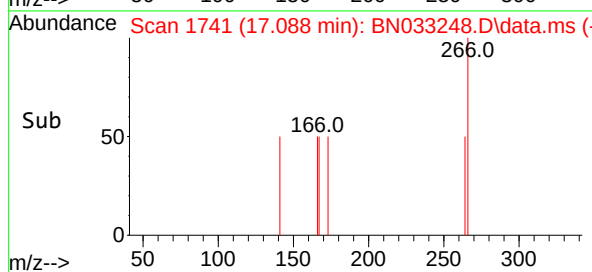
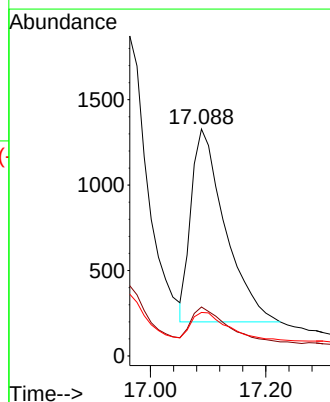
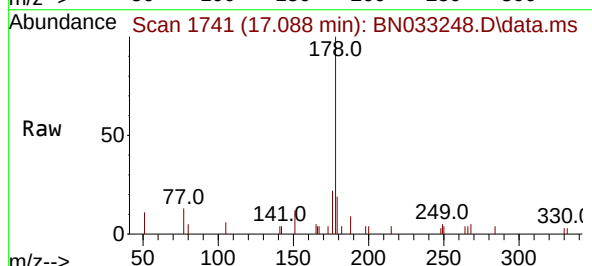
RT: 17.088 min Scan# 1741

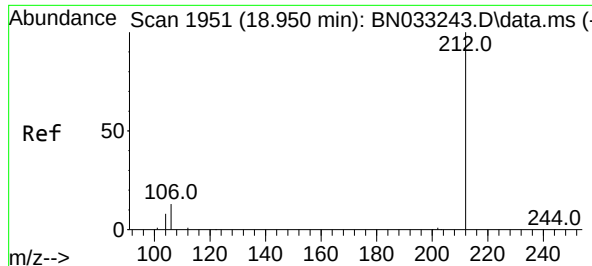
Delta R.T. 0.019 min

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 :

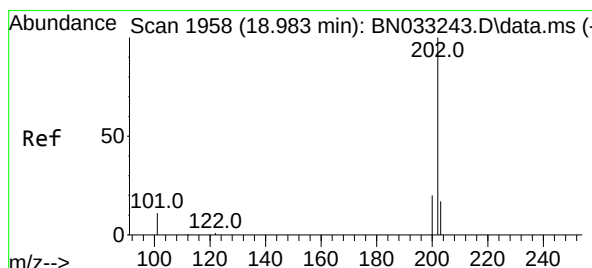
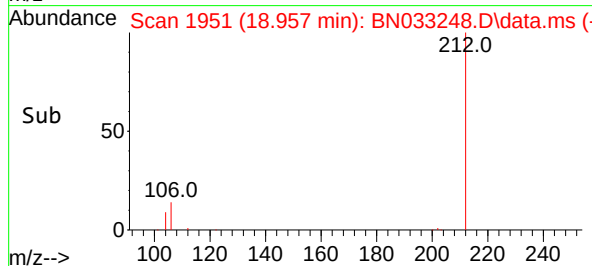
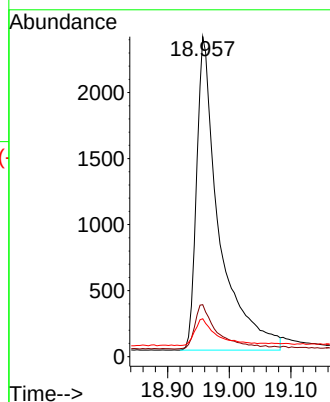
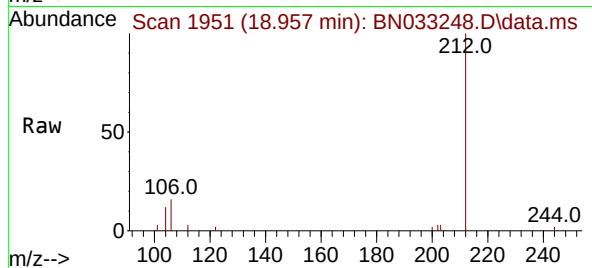
ICVBN080524

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

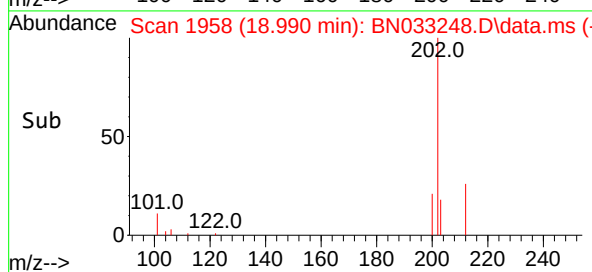
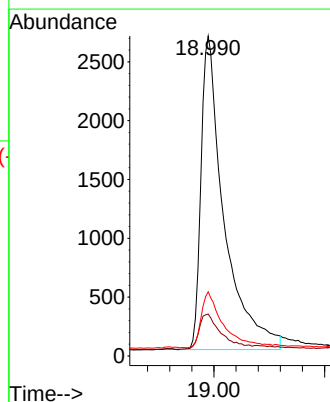
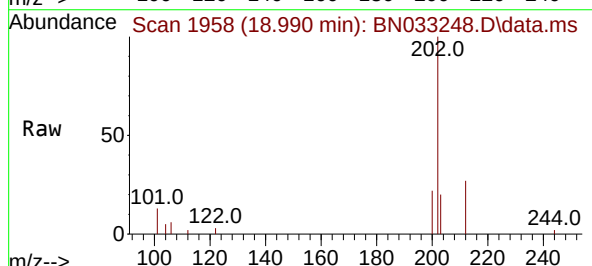
RT: 18.990 min Scan# 1958

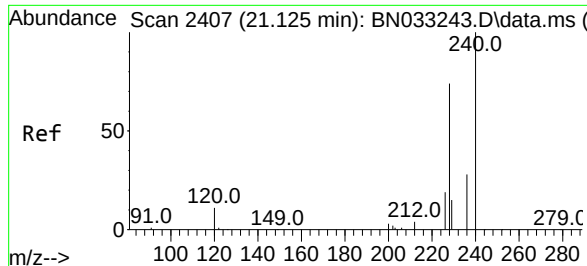
Delta R.T. 0.007 min

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# 2405

Delta R.T. -0.003 min

Lab File: BN033248.D

Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

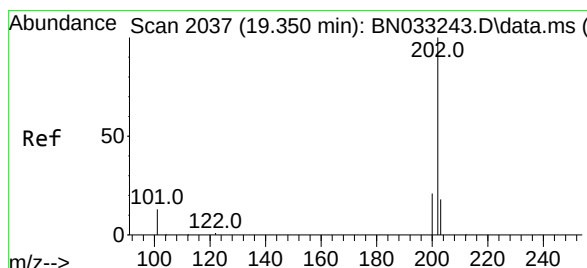
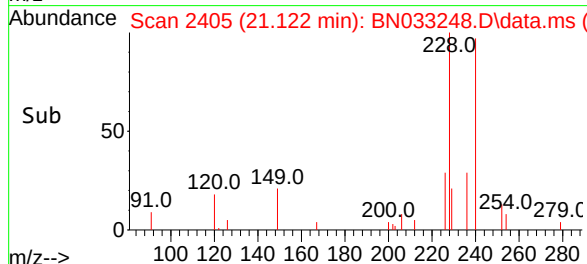
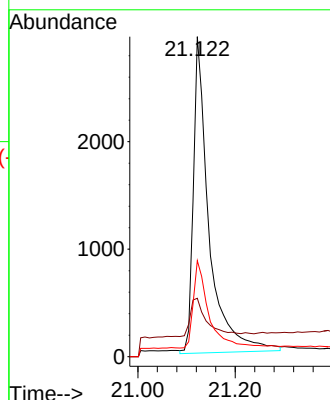
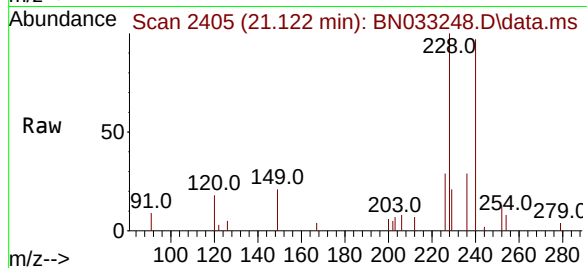
ClientSampleId :

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

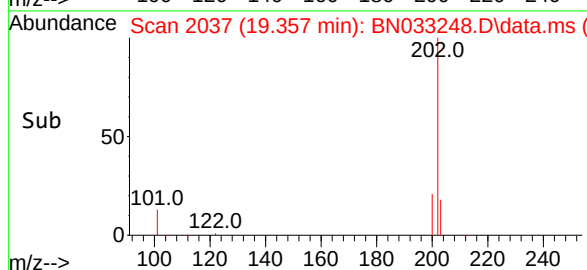
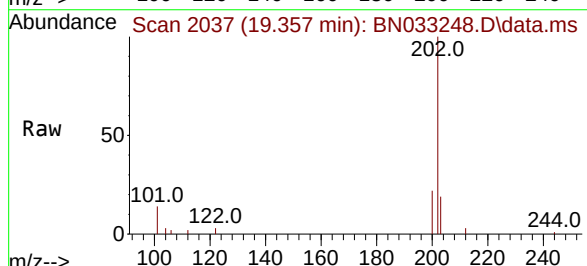
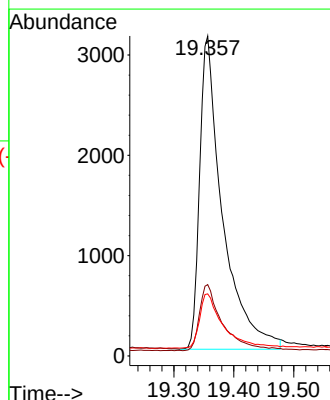
RT: 19.357 min Scan# 2037

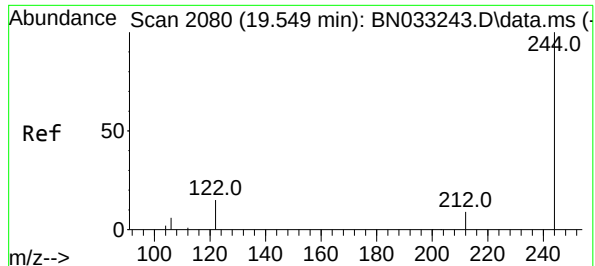
Delta R.T. 0.007 min

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





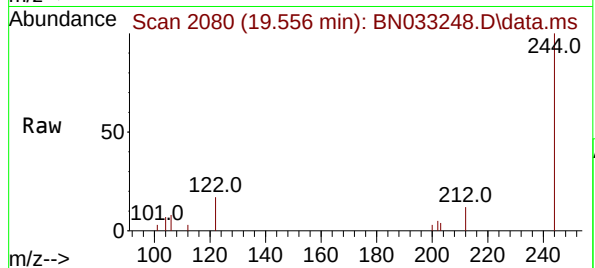
#31
Terphenyl-d14
Concen: 0.446 ng
RT: 19.556 min Scan# 2080
Delta R.T. 0.007 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

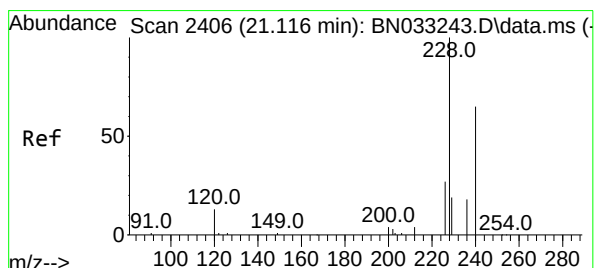
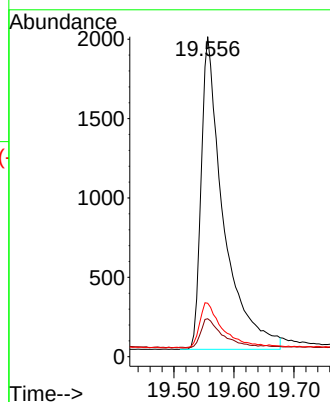
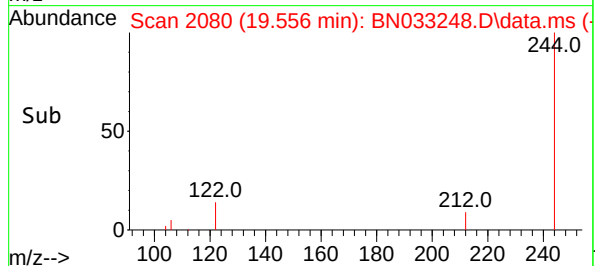


Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.9	14.9
122	16.7	14.1	21.1

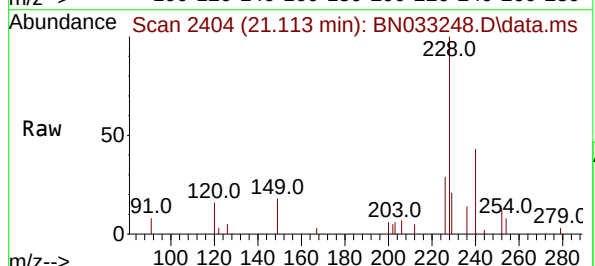
Manual Integrations

APPROVED

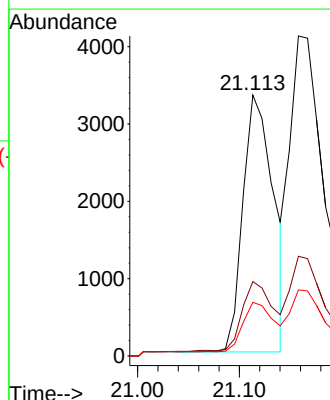
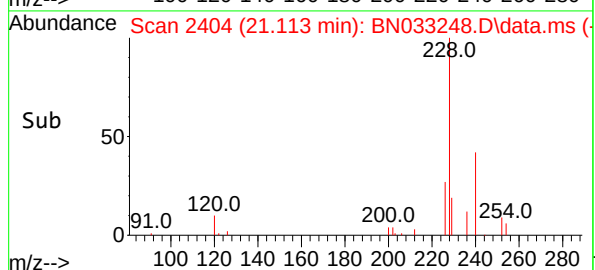
Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024

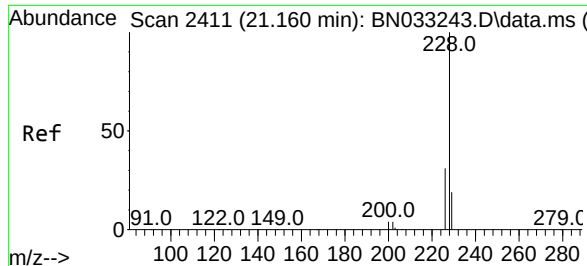


#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.113 min Scan# 2404
Delta R.T. -0.003 min
Lab File: BN033248.D
Acq: 05 Aug 2024 22:58



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 :

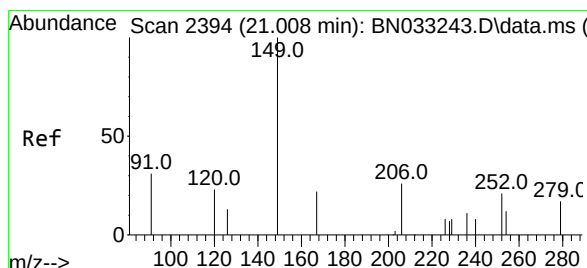
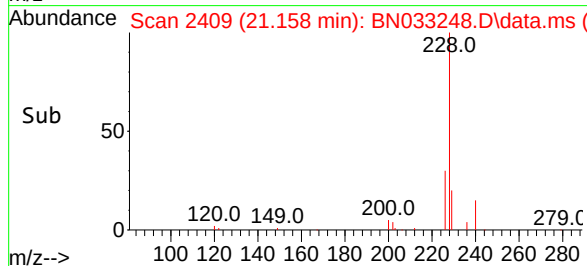
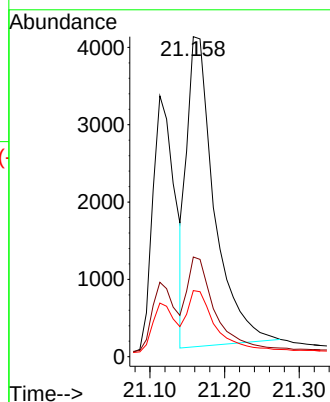
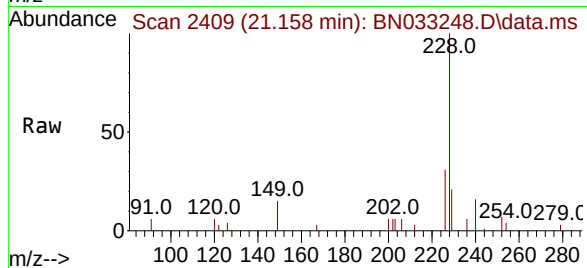
ICVBN080524

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

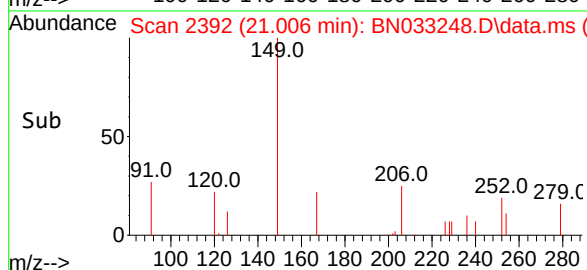
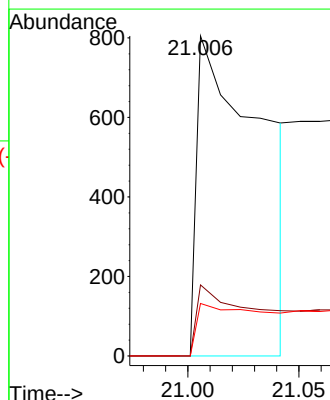
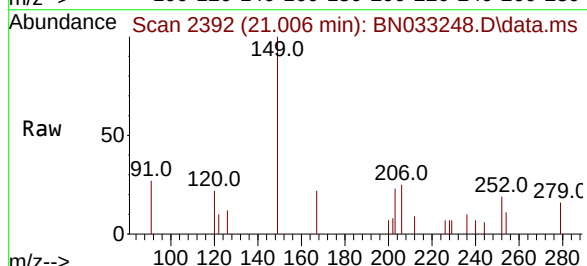
RT: 21.006 min Scan# 2392

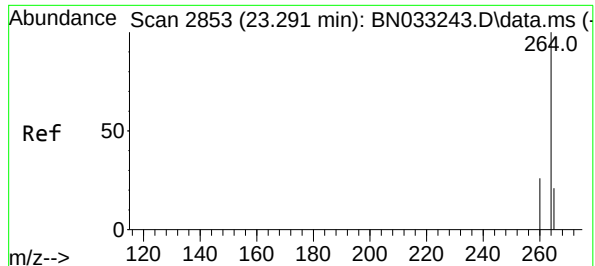
Delta R.T. -0.002 min

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

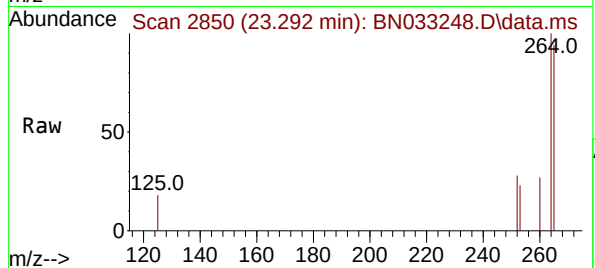
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524

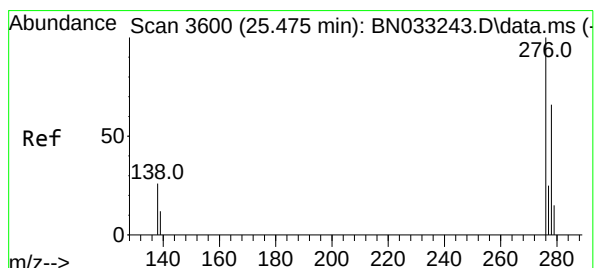
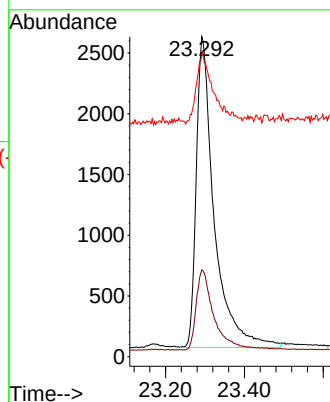
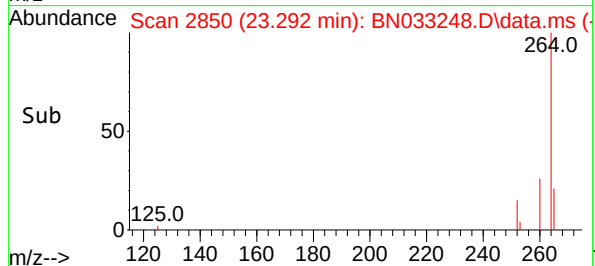


Tgt Ion:	264	Resp:	8080
Ion Ratio	Lower	Upper	
264	100		
260	27.1	21.4	32.2
265	93.7	66.6	99.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/06/2024
Supervised By :mohammad ahmed 08/07/2024



#36

Indeno(1,2,3-cd)pyrene

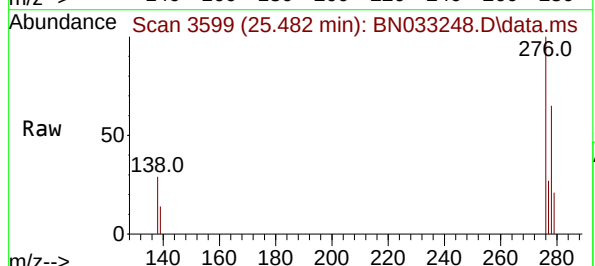
Concen: 0.380 ng

RT: 25.482 min Scan# 3599

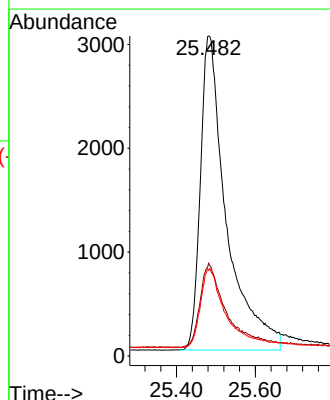
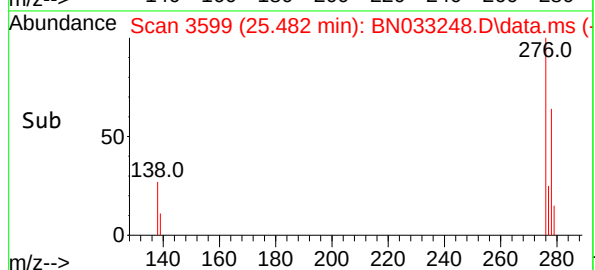
Delta R.T. 0.007 min

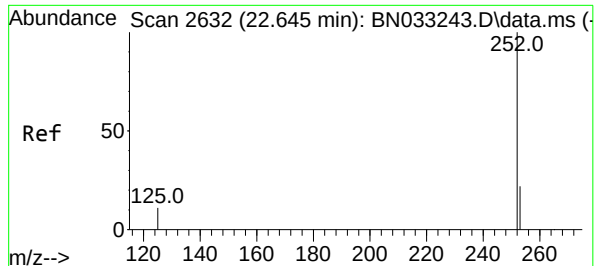
Lab File: BN033248.D

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 :

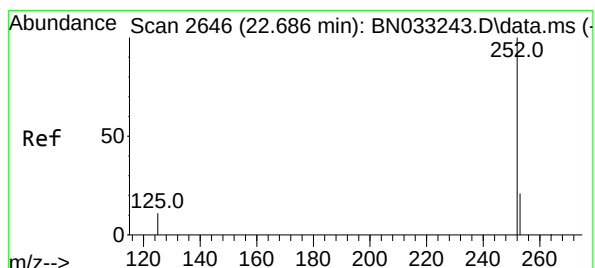
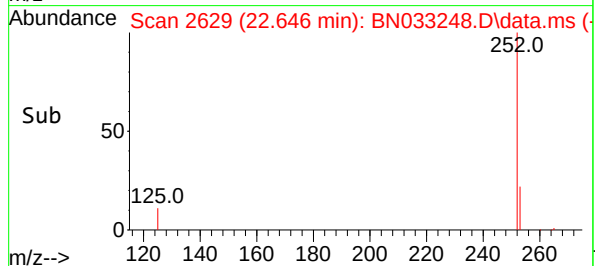
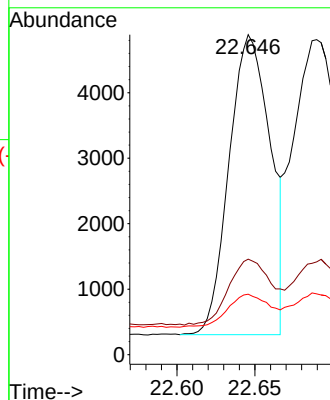
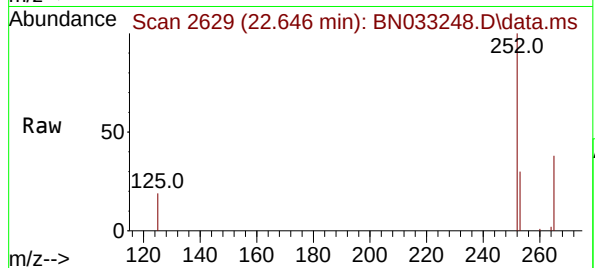
ICVBN080524

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

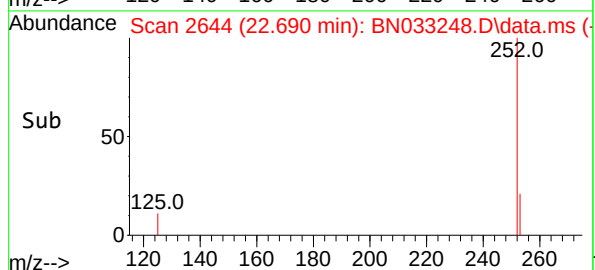
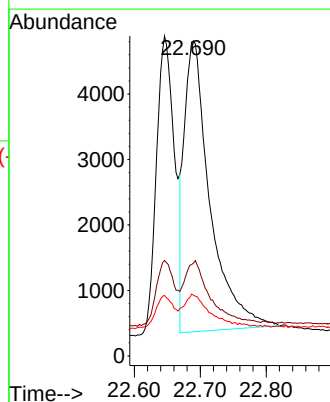
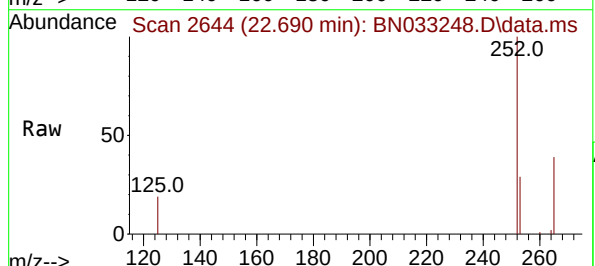
RT: 22.690 min Scan# 2644

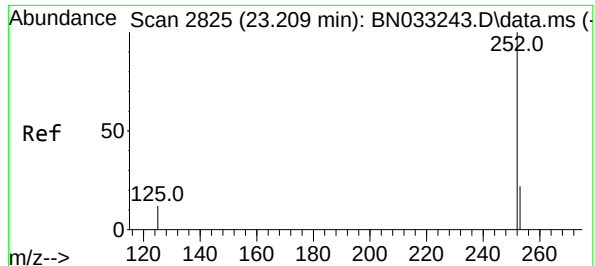
Delta R.T. 0.004 min

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 :

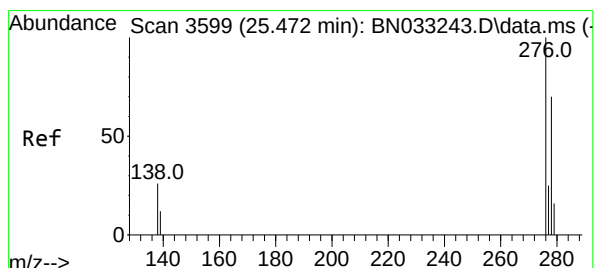
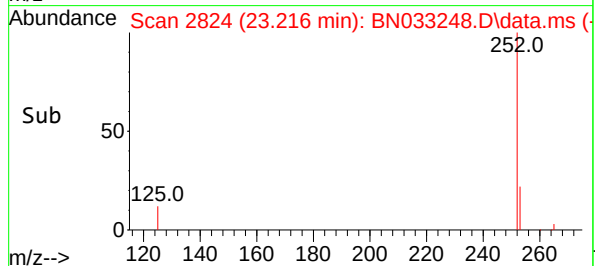
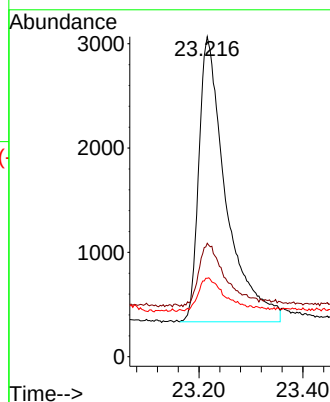
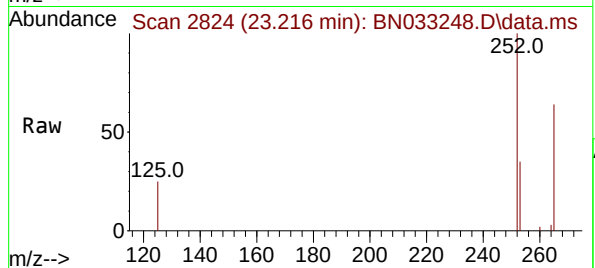
ICVBN080524

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

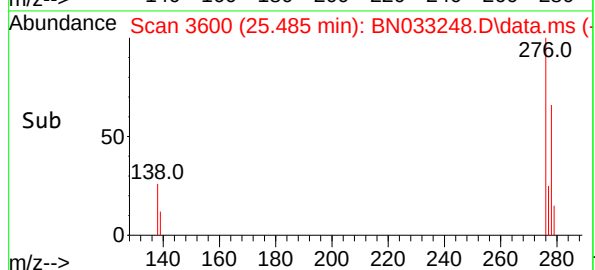
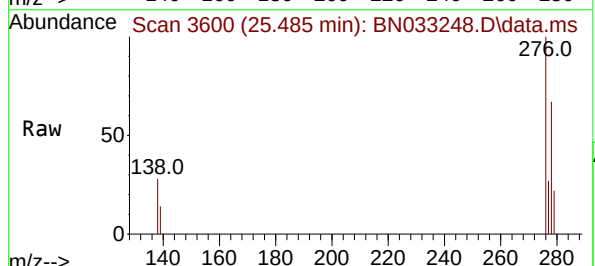
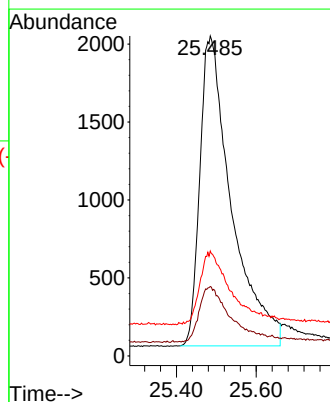
RT: 25.485 min Scan# 3600

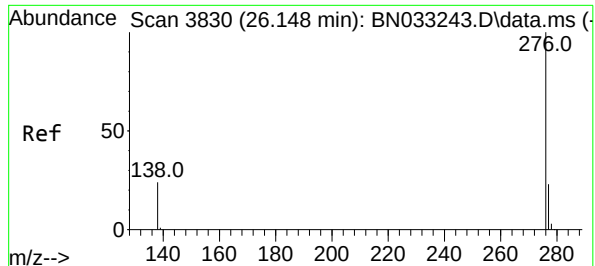
Delta R.T. 0.013 min

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

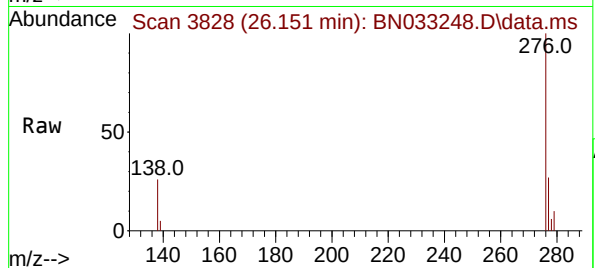
Acq: 05 Aug 2024 22:58

Instrument :

BNA_N

ClientSampleId :

ICVBN080524



Tgt Ion:276 Resp: 11569

Ion Ratio Lower Upper

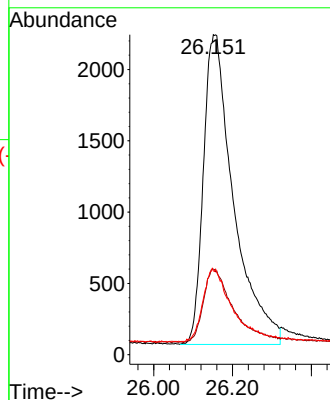
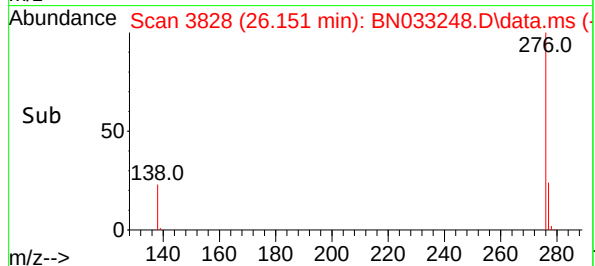
276 100

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.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_N Calibration Date/Time: 08/06/2024 13:04

Lab File ID: BN033270.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	0.581		-2.0	20.0
Fluoranthene-d10	1.119	1.079		-3.6	20.0
2-Fluorophenol	0.991	0.881		-11.1	20.0
Phenol-d6	1.361	1.312		-3.6	20.0
Nitrobenzene-d5	0.322	0.259		-19.6	20.0
Naphthalene	1.087	1.078		-0.8	20.0
2-Methylnaphthalene	0.648	0.564		-13.0	20.0
2-Fluorobiphenyl	1.368	1.380		0.9	20.0
Acenaphthylene	1.596	1.580		-1.0	20.0
Acenaphthene	1.152	1.184		2.8	20.0
Fluorene	1.559	1.613		3.5	20.0
2,4,6-Tribromophenol	0.149	0.152		2.0	20.0
Phenanthrene	1.076	1.005		-6.6	20.0
Anthracene	0.902	0.747		-17.2	20.0
Fluoranthene	1.476	1.386		-6.1	20.0
Pyrene	1.398	1.403		0.4	20.0
Terphenyl-d14	0.691	0.685		-0.9	20.0
Benzo(a)anthracene	1.152	0.962		-16.5	20.0
Chrysene	1.547	1.652		6.8	20.0
Benzo(b)fluoranthene	1.213	1.134		-6.5	20.0
Benzo(k)fluoranthene	1.518	1.518		0.0	20.0
Benzo(a)pyrene	1.218	1.246		2.3	20.0
Indeno(1,2,3-cd)pyrene	1.808	1.635		-9.6	20.0
Dibenzo(a,h)anthracene	1.428	1.281		-10.3	20.0
Benzo(g,h,i)perylene	1.636	1.507		-7.9	20.0
1,4-Dioxane	0.583	0.682		17.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
 Data File : BN033270.D
 Acq On : 06 Aug 2024 13:04
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024

Quant Time: Aug 06 13:46:48 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	7.553	152	699m	0.400	ng	0.04
7) Naphthalene-d8	10.329	136	2661	0.400	ng	0.01
13) Acenaphthene-d10	14.137	164	1835	0.400	ng	0.01
19) Phenanthrene-d10	16.920	188	4309	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	4566	0.400	ng	0.00
35) Perylene-d12	23.303	264	5464	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.343	112	616m	0.356	ng	0.05
5) Phenol-d6	7.026	99	917m	0.385	ng	0.04
8) Nitrobenzene-d5	8.931	82	689	0.322	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	1547	0.392	ng	0.02
14) 2,4,6-Tribromophenol	15.728	330	279	0.408	ng	0.01
15) 2-Fluorobiphenyl	12.822	172	2533	0.404	ng	0.02
27) Fluoranthene-d10	18.959	212	4650	0.386	ng	0.00
31) Terphenyl-d14	19.568	244	3127	0.396	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.047	88	477	0.380	ng	# 89
3) n-Nitrosodimethylamine	3.516	42	235m	0.276	ng	
6) bis(2-Chloroethyl)ether	7.127	93	1218m	0.608	ng	
9) Naphthalene	10.383	128	2868	0.397	ng	96
10) Hexachlorobutadiene	10.511	225	588	0.438	ng	# 99
12) 2-Methylnaphthalene	12.018	142	1502	0.349	ng	97
16) Acenaphthylene	13.880	152	2900	0.396	ng	99
17) Acenaphthene	14.201	154	2173	0.411	ng	99
18) Fluorene	15.227	166	2960	0.414	ng	99
20) 4,6-Dinitro-2-methylph...	15.604	198	133	0.411	ng	# 73
21) 4-Bromophenyl-phenylether	16.113	248	904	0.395	ng	93
22) Hexachlorobenzene	16.200	284	971	0.407	ng	94
23) Atrazine	16.411	200	792	0.368	ng	96
24) Pentachlorophenol	16.635	266	308	0.386	ng	89
25) Phenanthrene	16.970	178	4329	0.373	ng	99
26) Anthracene	17.094	178	3217	0.331	ng	# 87
28) Fluoranthene	18.992	202	5973	0.376	ng	100
30) Pyrene	19.359	202	6406	0.401	ng	99
32) Benzo(a)anthracene	21.125	228	4394	0.334	ng	96
33) Chrysene	21.169	228	7545	0.427	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	1308	0.414	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.498	276	8936	0.362	ng	98
37) Benzo(b)fluoranthene	22.660	252	6197	0.374	ng	98
38) Benzo(k)fluoranthene	22.703	252	8292	0.400	ng	98
39) Benzo(a)pyrene	23.233	252	6810	0.409	ng	97
40) Dibenzo(a,h)anthracene	25.507	278	7000	0.359	ng	93
41) Benzo(g,h,i)perylene	26.174	276	8236m	0.368	ng	

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033270.D
Acq On : 06 Aug 2024 13:04
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024

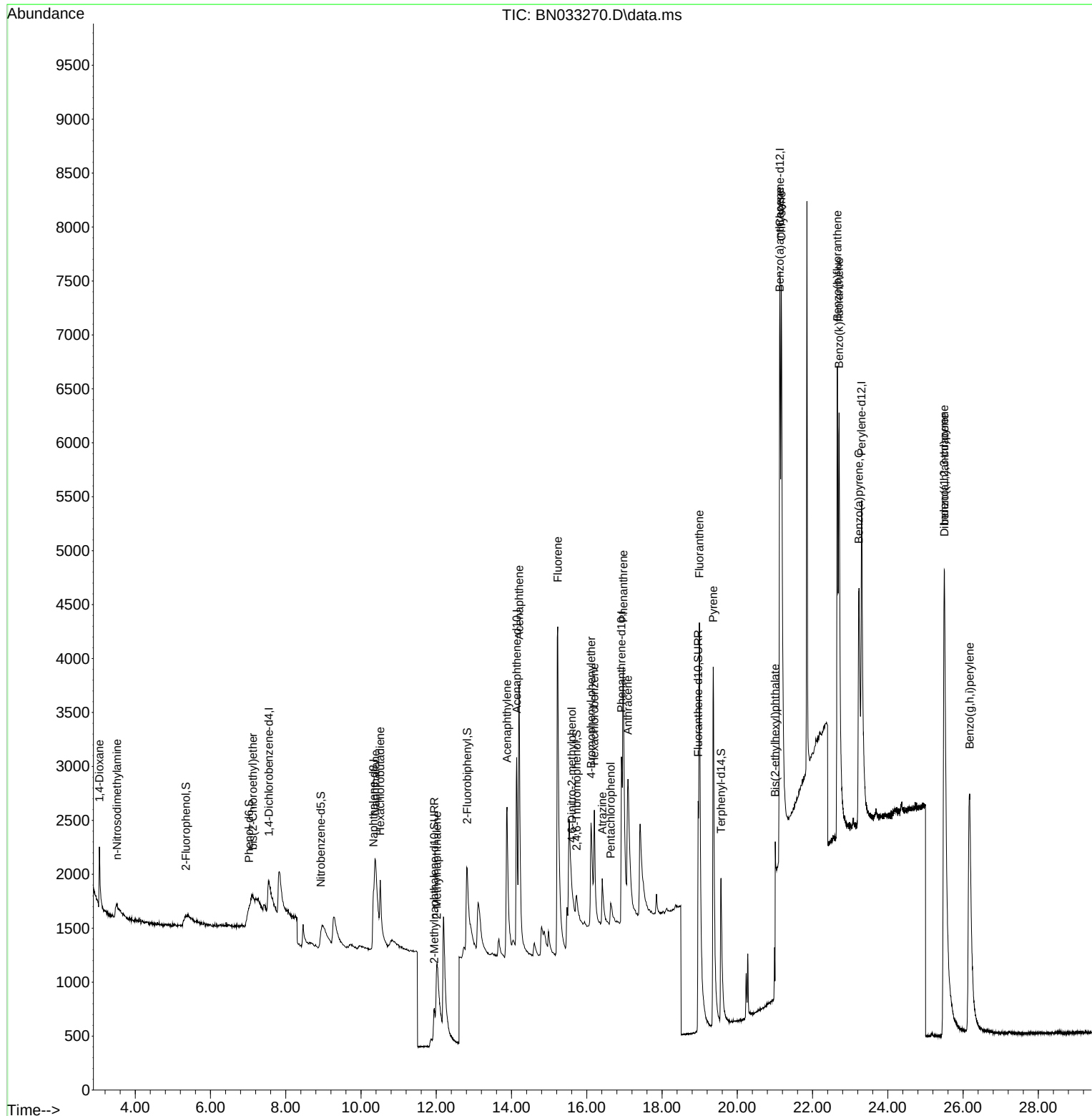
Quant Time: Aug 06 13:46:48 2024

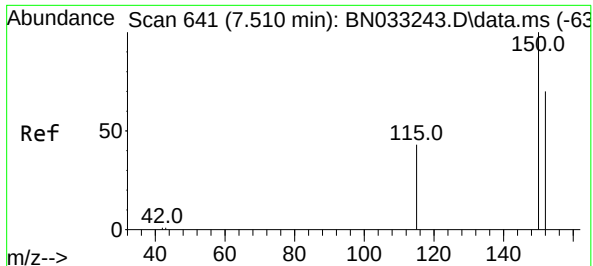
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 05 23:57:48 2024

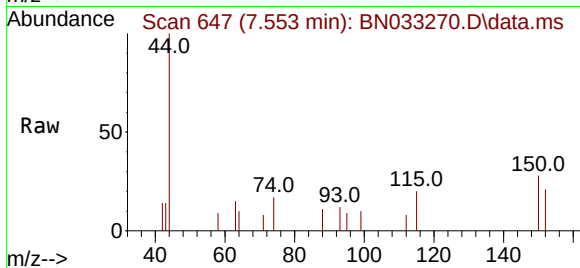
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.553 min Scan# 64
Delta R.T. 0.043 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

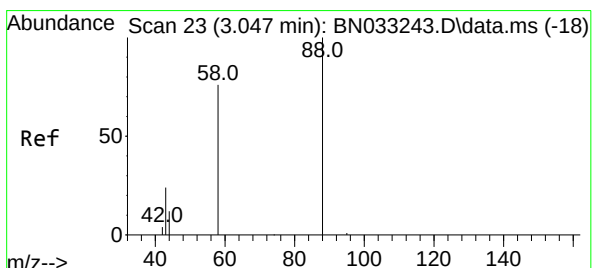
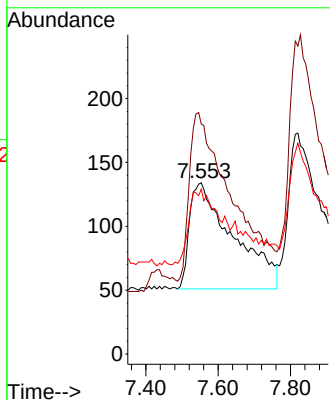
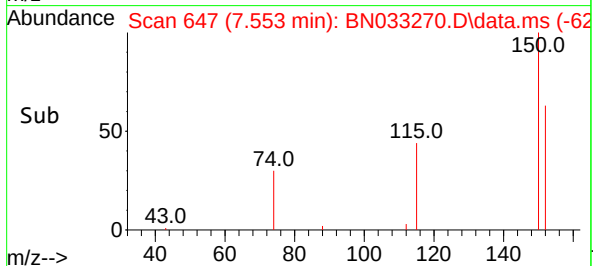
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 699
Ion Ratio Lower Upper
152 100
150 134.3 108.2 162.2
115 96.3 70.5 105.7

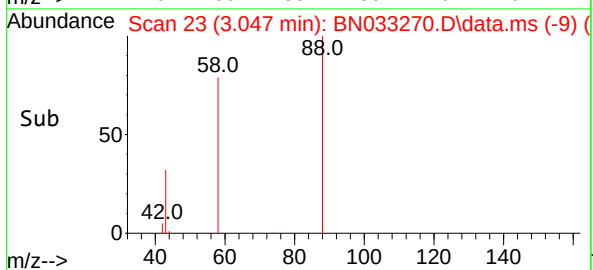
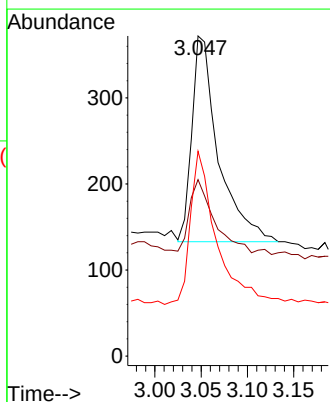
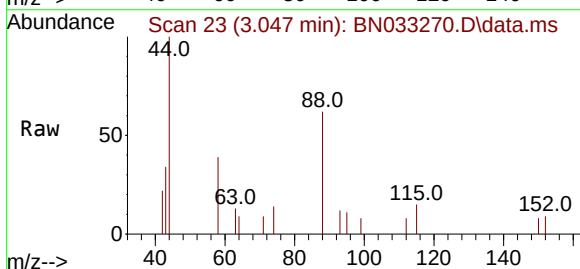
Manual Integrations
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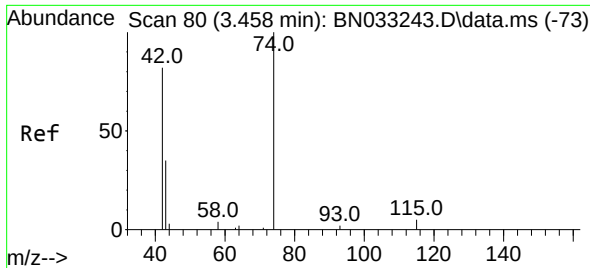
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#2
1,4-Dioxane
Concen: 0.380 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Tgt Ion: 88 Resp: 477
Ion Ratio Lower Upper
88 100
43 35.6 18.6 28.0#
58 73.4 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.276 ng m
RT: 3.516 min Scan# 80
Delta R.T. 0.058 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

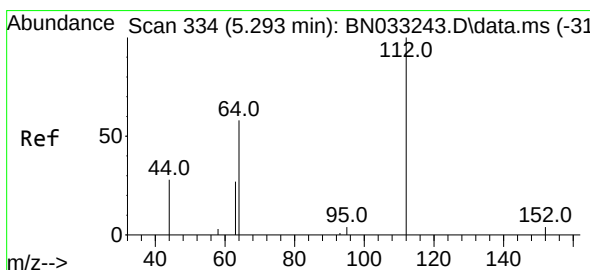
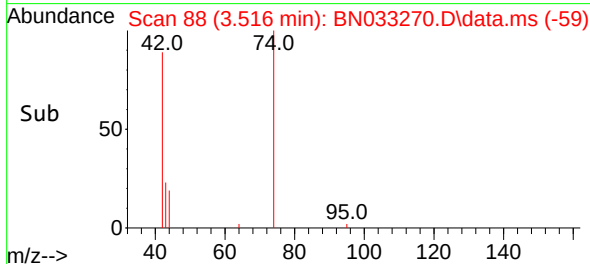
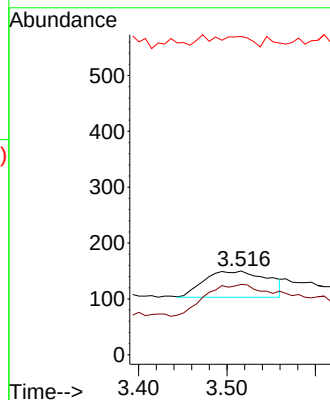
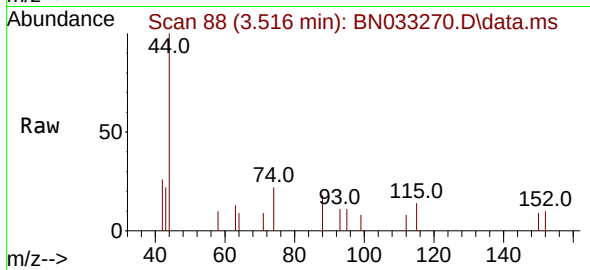
ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 235
Ion Ratio Lower Upper
42 100
74 0.0 0.0 0.0
44 0.0 9.6 14.4

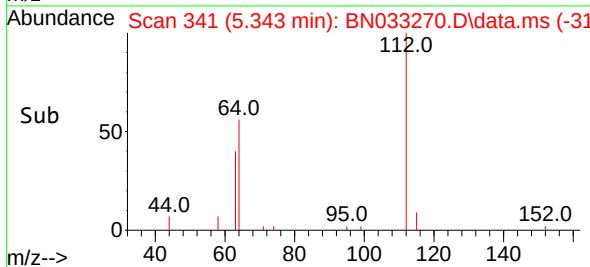
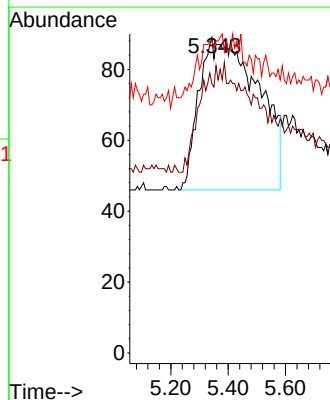
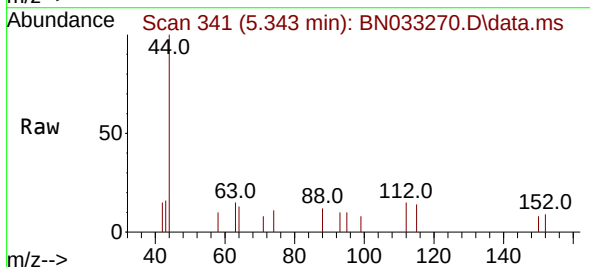
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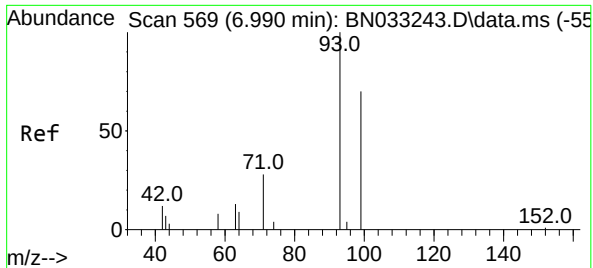
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#4
2-Fluorophenol
Concen: 0.356 ng m
RT: 5.343 min Scan# 341
Delta R.T. 0.050 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

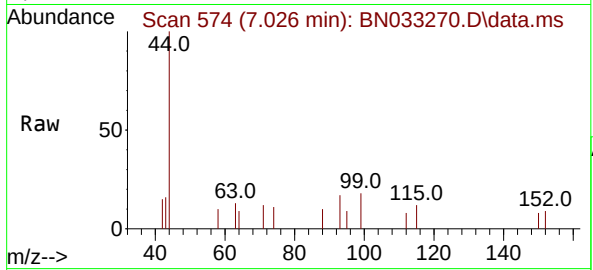
Tgt Ion:112 Resp: 616
Ion Ratio Lower Upper
112 100
64 17.9 18.0 27.0#
63 3.1 0.0 0.0#





#5
Phenol-d6
Concen: 0.385 ng m
RT: 7.026 min Scan# 51
Delta R.T. 0.036 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

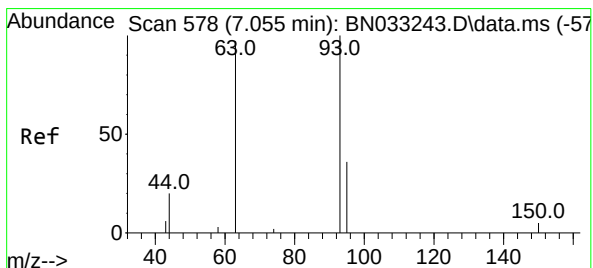
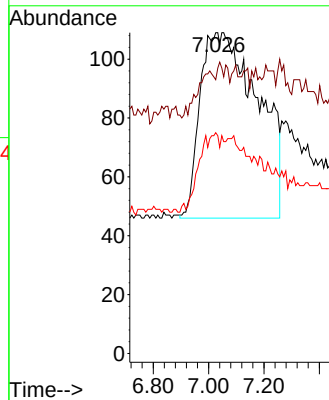
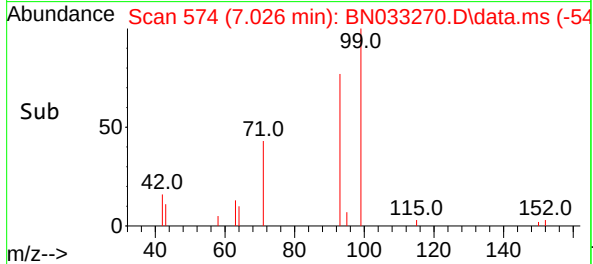
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 91
Ion Ratio Lower Upper
99 100
42 7.9 0.0 0.0
71 6.9 0.0 0.0

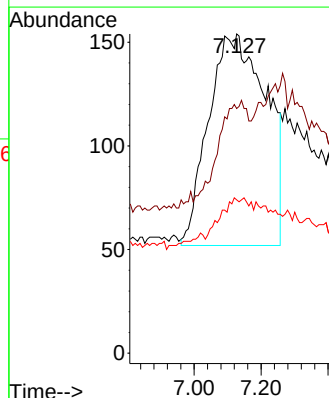
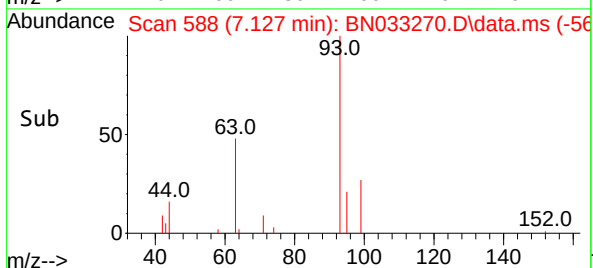
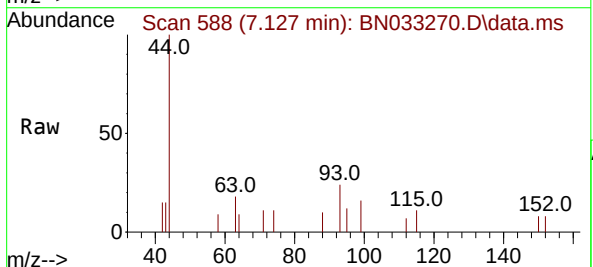
Manual Integrations
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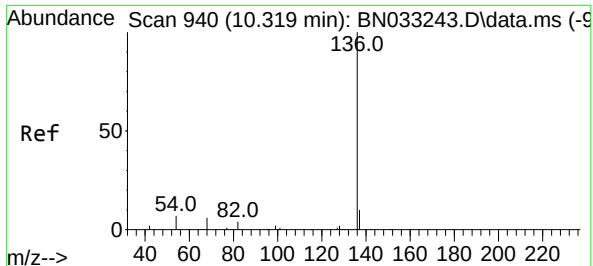
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.608 ng m
RT: 7.127 min Scan# 588
Delta R.T. 0.072 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

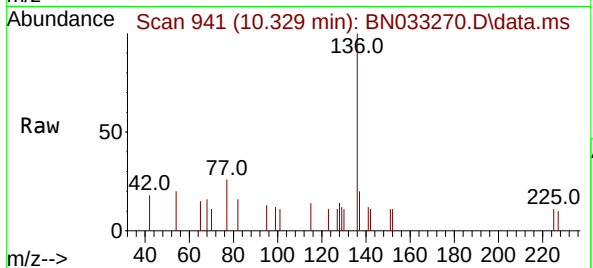
Tgt Ion: 93 Resp: 1218
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 0.0 0.0 0.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.329 min Scan# 941
Delta R.T. 0.010 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

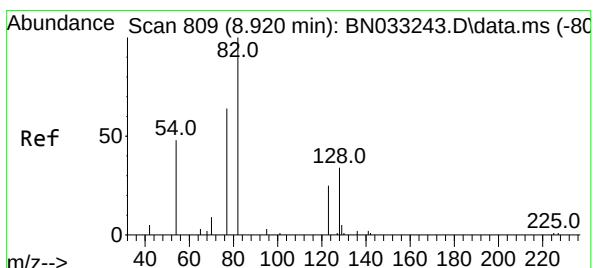
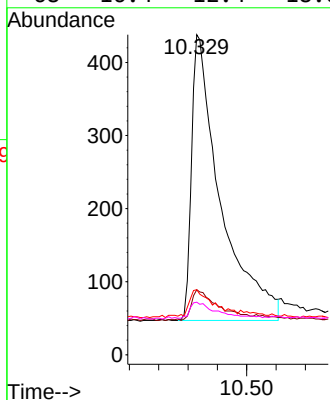
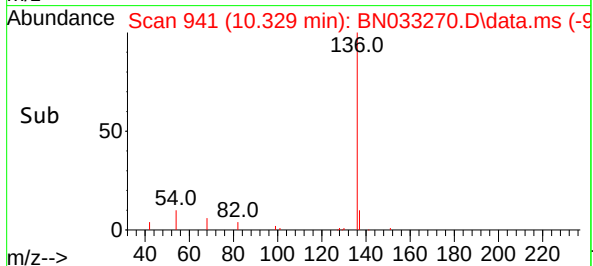
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 266
Ion Ratio Lower Upper
136 100
137 20.3 14.1 21.1
54 20.3 13.8 20.8
68 16.4 12.4 18.6

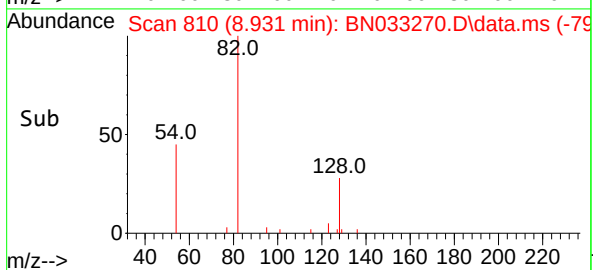
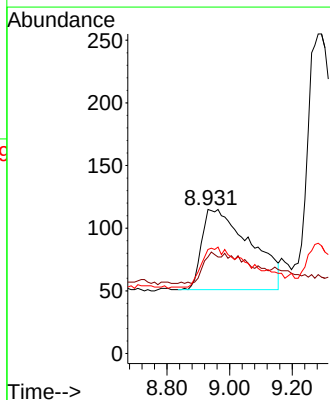
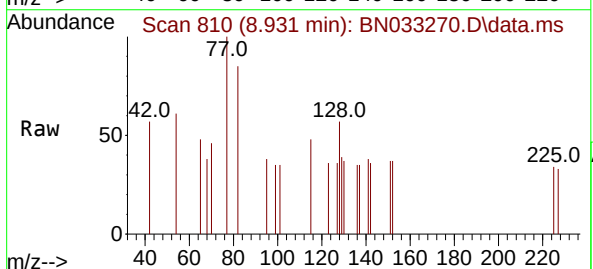
Manual Integrations
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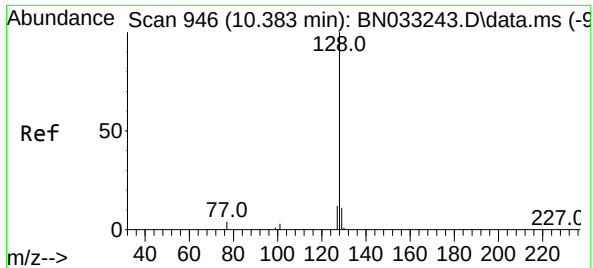
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.931 min Scan# 810
Delta R.T. 0.011 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

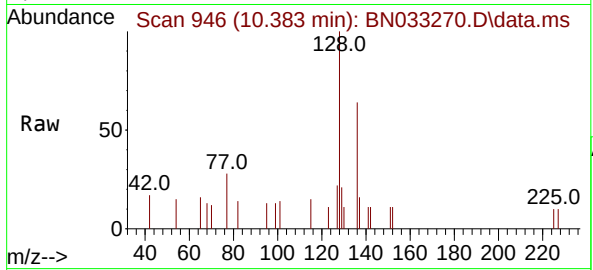
Tgt Ion: 82 Resp: 689
Ion Ratio Lower Upper
82 100
128 67.0 54.8 82.2
54 72.2 55.9 83.9





#9
Naphthalene
Concen: 0.397 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

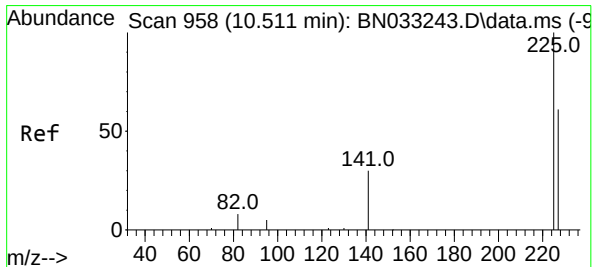
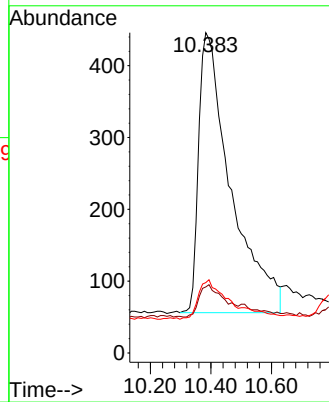
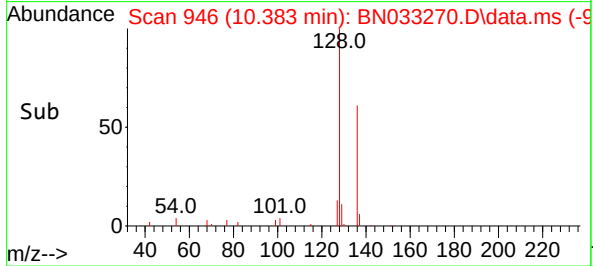
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 286
Ion Ratio Lower Upper
128 100
129 20.6 15.4 23.0
127 22.0 15.8 23.6

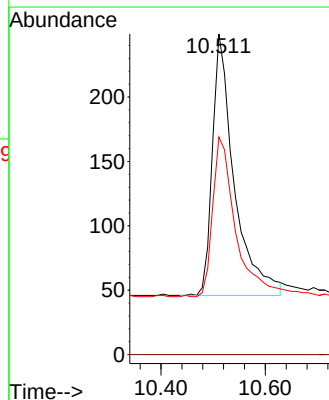
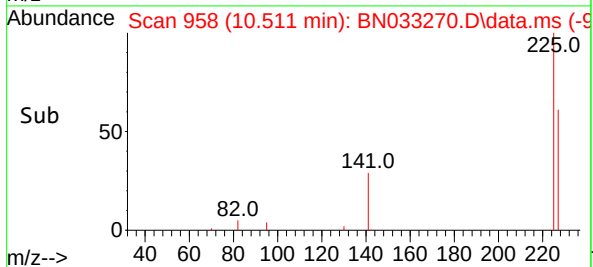
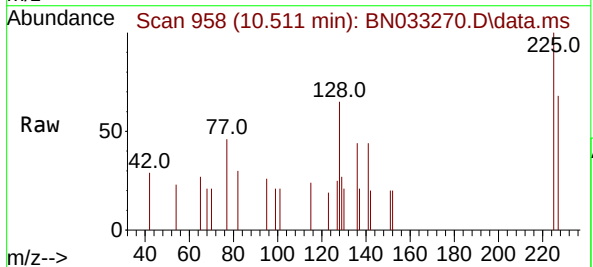
Manual Integrations
APPROVED

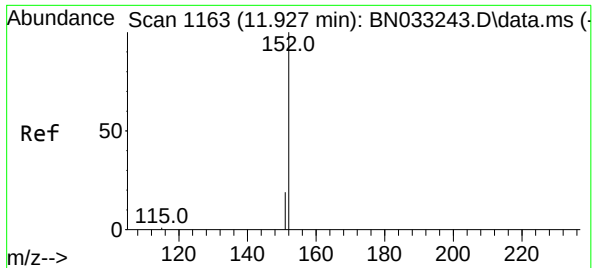
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#10
Hexachlorobutadiene
Concen: 0.438 ng
RT: 10.511 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

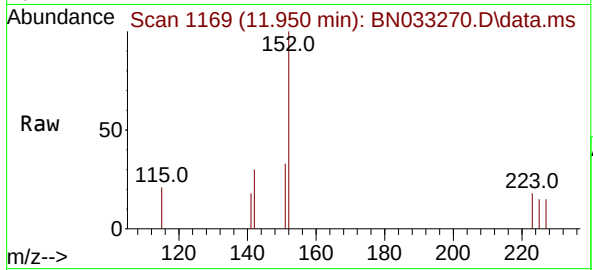
Tgt Ion:225 Resp: 588
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.950 min Scan# 1169
Delta R.T. 0.023 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

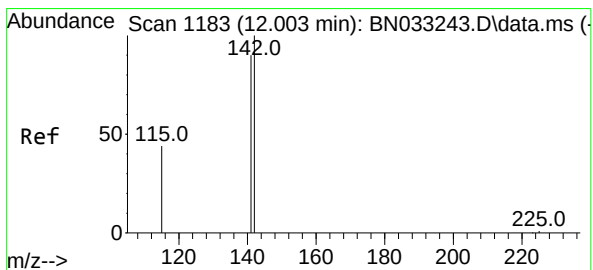
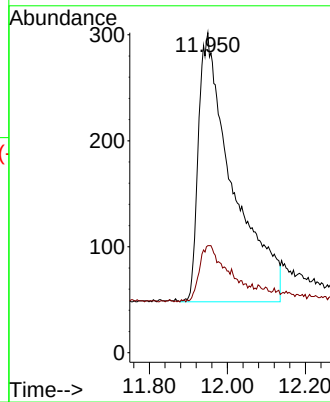
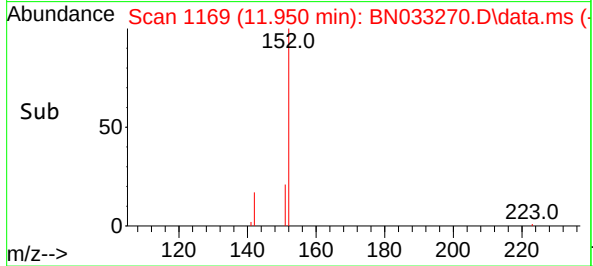
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 154
Ion Ratio Lower Upper
152 100
151 17.5 11.9 17.9

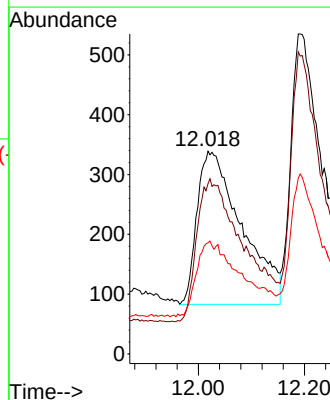
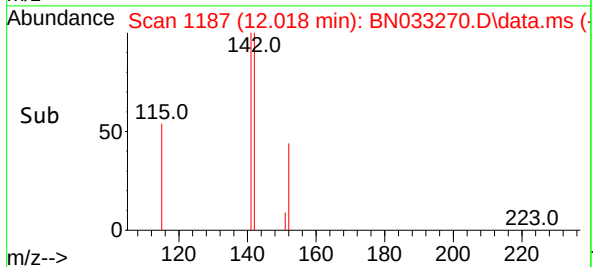
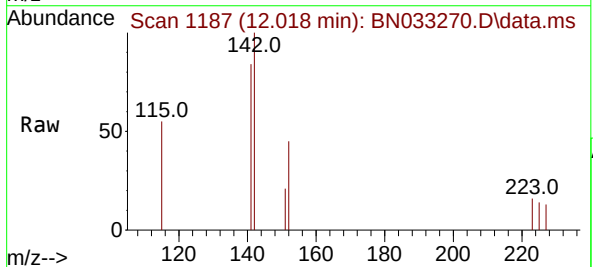
Manual Integrations
APPROVED

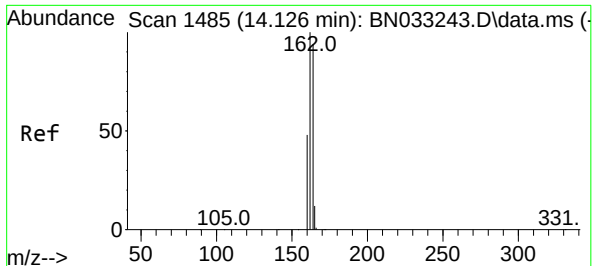
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#12
2-Methylnaphthalene
Concen: 0.349 ng
RT: 12.018 min Scan# 1187
Delta R.T. 0.015 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

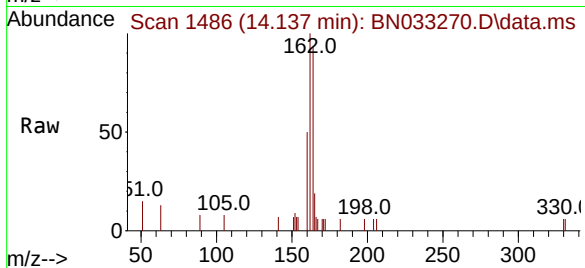
Tgt Ion:142 Resp: 1502
Ion Ratio Lower Upper
142 100
141 84.1 68.7 103.1
115 54.9 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.011 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

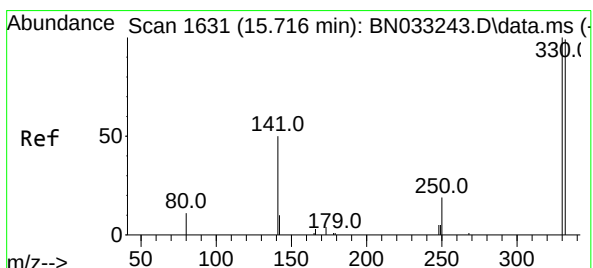
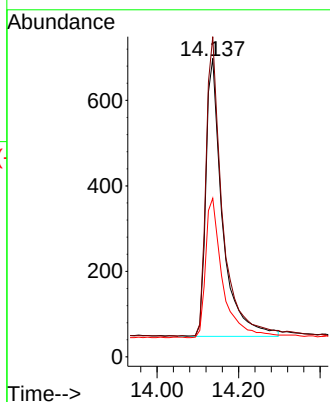
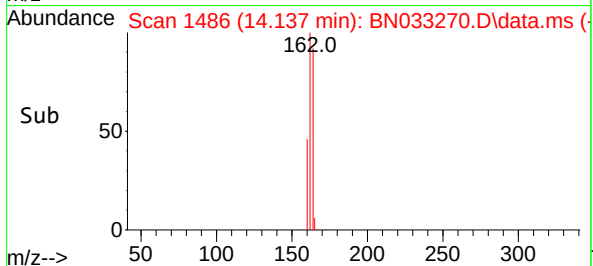
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



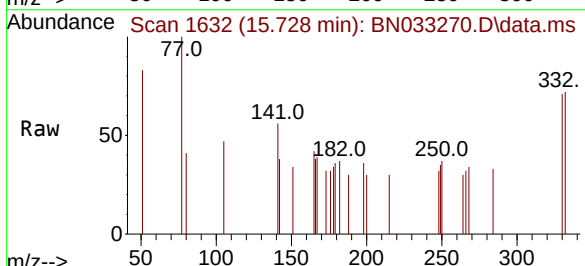
Tgt Ion:164 Resp: 183
Ion Ratio Lower Upper
164 100
162 107.3 84.6 127.0
160 53.2 42.4 63.6

Manual Integrations
APPROVED

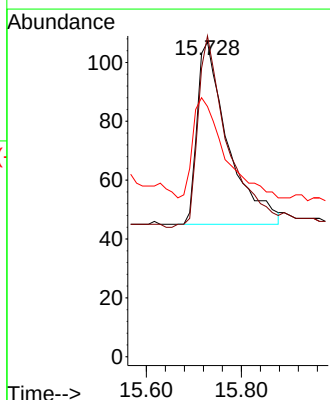
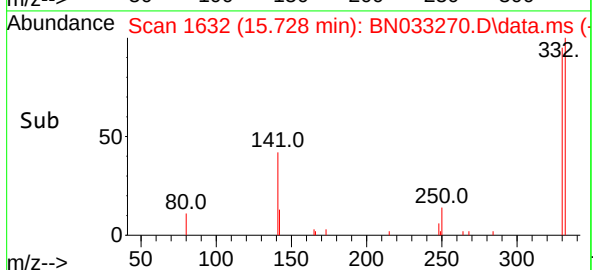
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

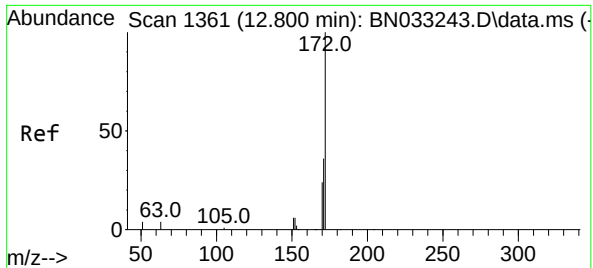


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.012 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04



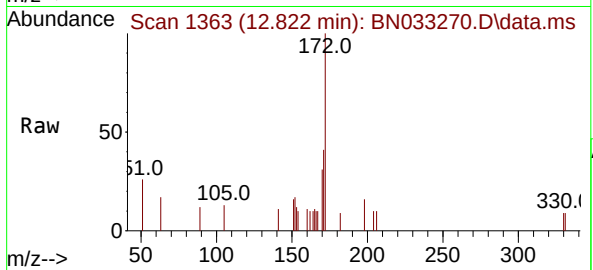
Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 102.2 73.7 110.5
141 55.9 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.822 min Scan# 11
Delta R.T. 0.021 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

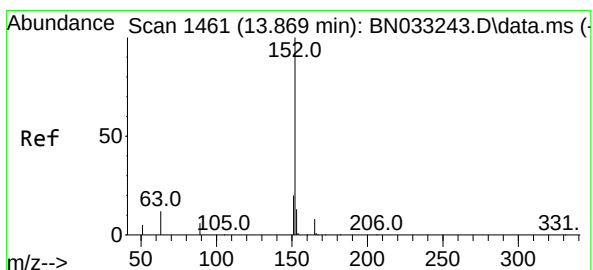
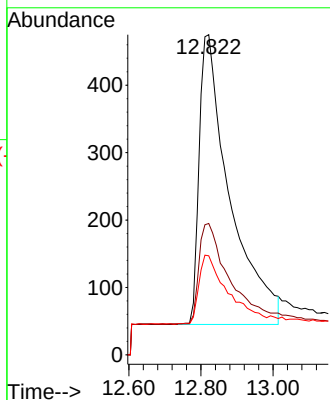
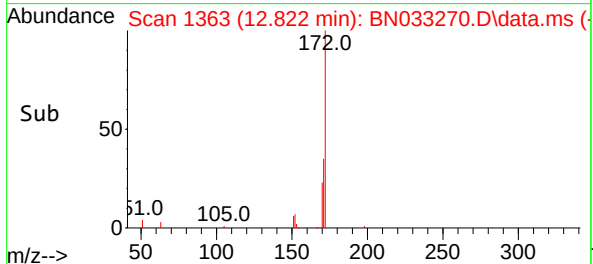
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 253
Ion Ratio Lower Upper
172 100
171 41.1 32.3 48.5
170 30.9 23.4 35.2

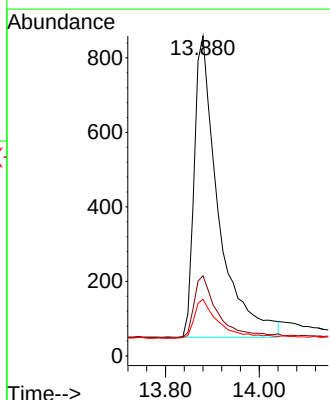
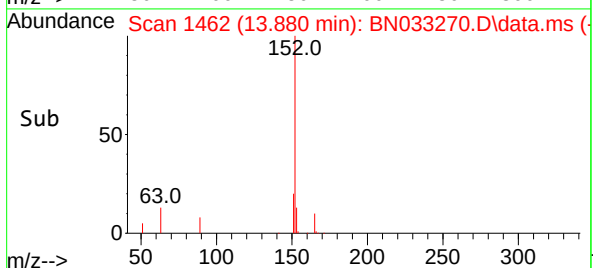
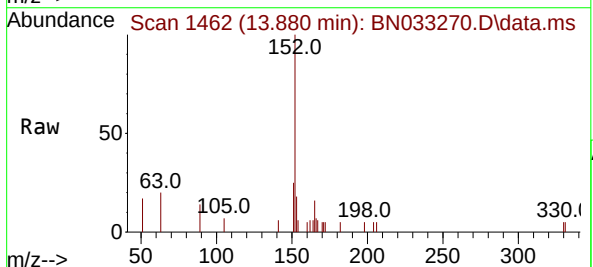
Manual Integrations
APPROVED

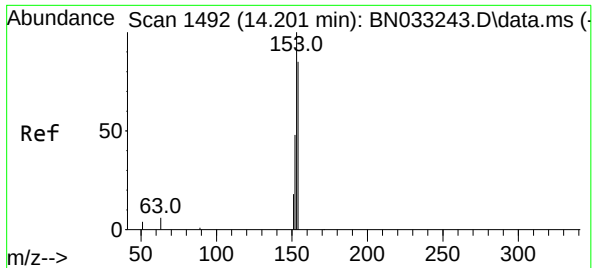
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#16
Acenaphthylene
Concen: 0.396 ng
RT: 13.880 min Scan# 1462
Delta R.T. 0.011 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

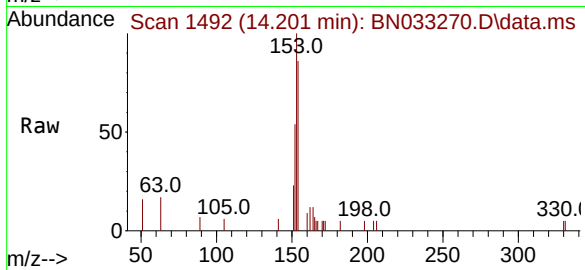
Tgt Ion:152 Resp: 2900
Ion Ratio Lower Upper
152 100
151 20.3 16.1 24.1
153 13.2 10.2 15.2





#17
Acenaphthene
Concen: 0.411 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

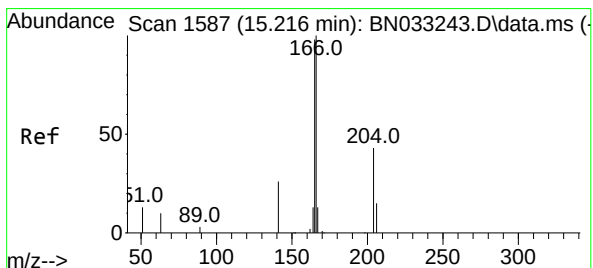
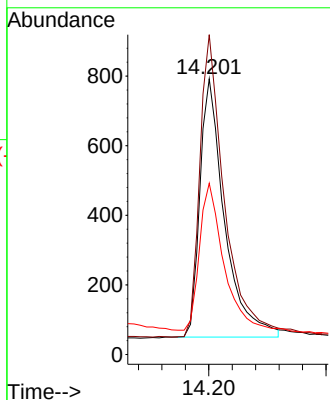
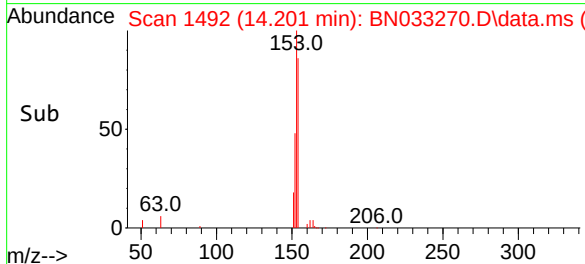
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 217
Ion Ratio Lower Upper
154 100
153 117.4 92.7 139.1
152 54.9 44.0 66.0

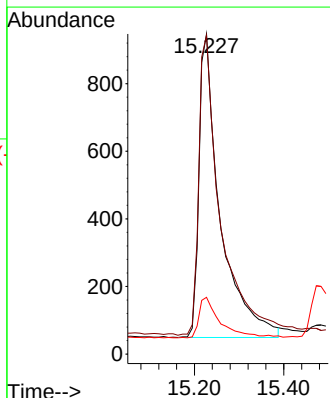
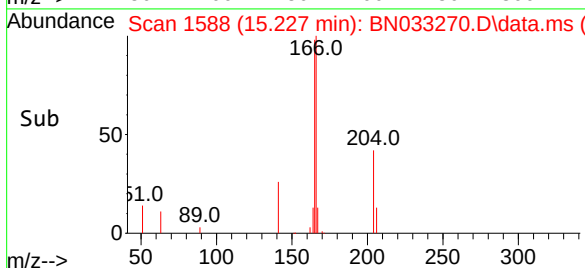
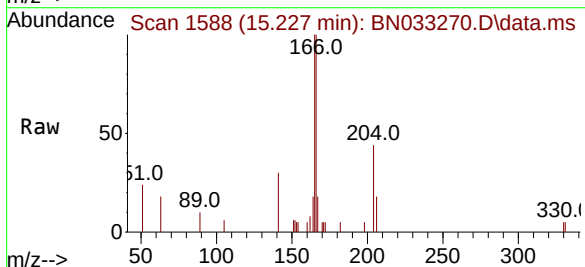
Manual Integrations
APPROVED

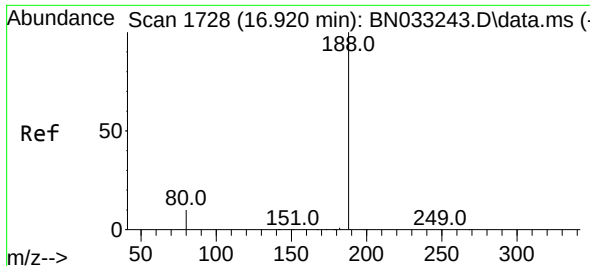
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#18
Fluorene
Concen: 0.414 ng
RT: 15.227 min Scan# 1588
Delta R.T. 0.011 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Tgt Ion:166 Resp: 2960
Ion Ratio Lower Upper
166 100
165 100.1 79.6 119.4
167 13.2 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: BN033270.D

Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

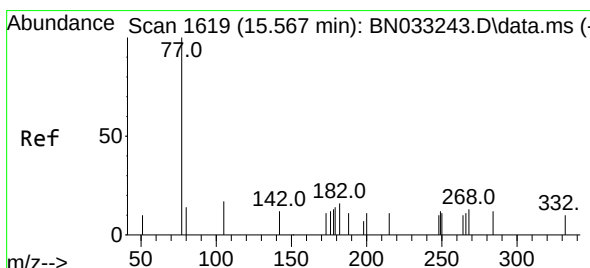
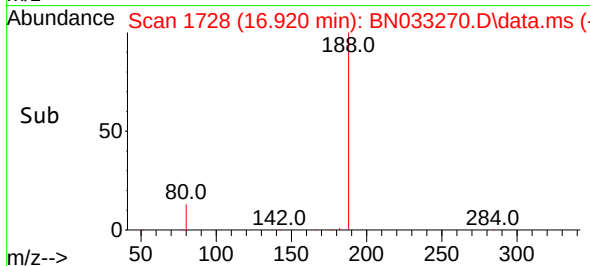
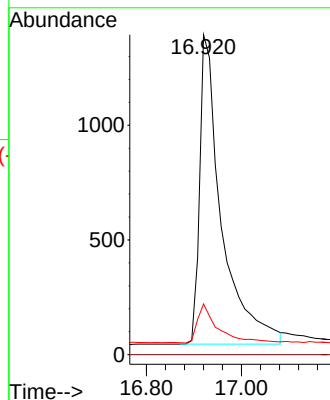
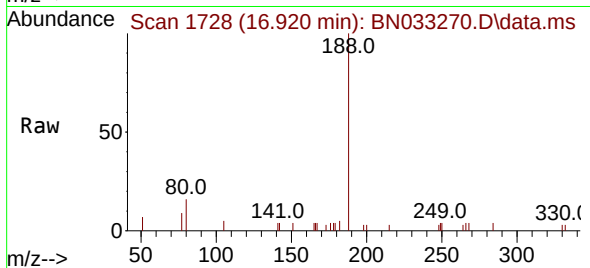
SSTDCCC0.4

Tgt Ion:188	Resp:	4309
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	15.8	15.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.411 ng

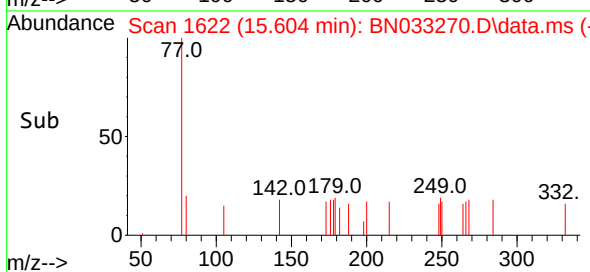
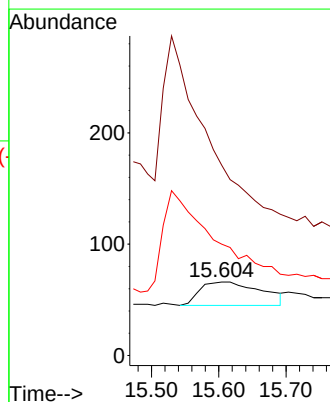
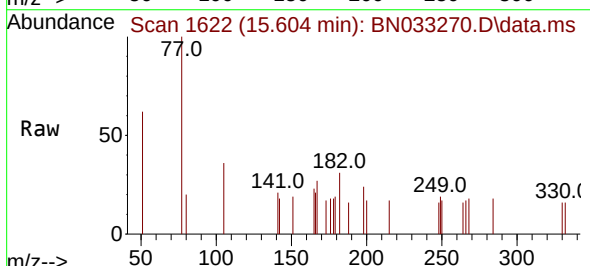
RT: 15.604 min Scan# 1622

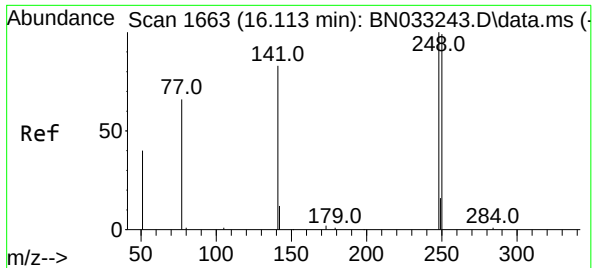
Delta R.T. 0.037 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04

Tgt Ion:198	Resp:	133
Ion Ratio	Lower	Upper
198	100	
51	259.1	250.6
105	151.5	152.6





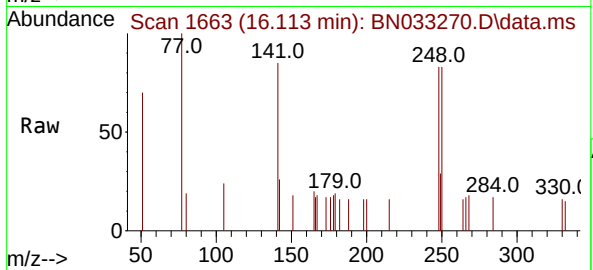
#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.113 min Scan# 1663
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

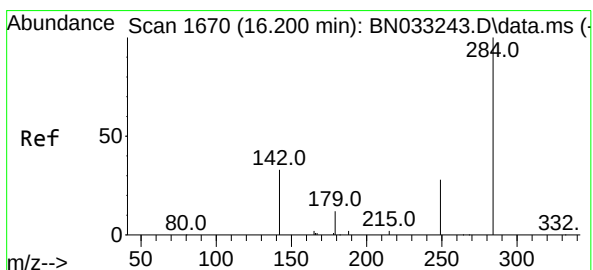
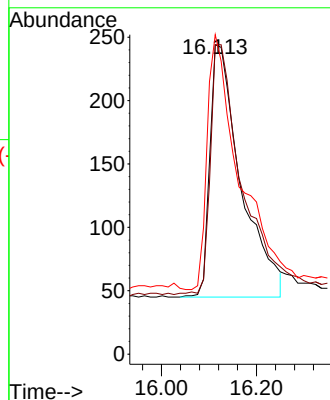
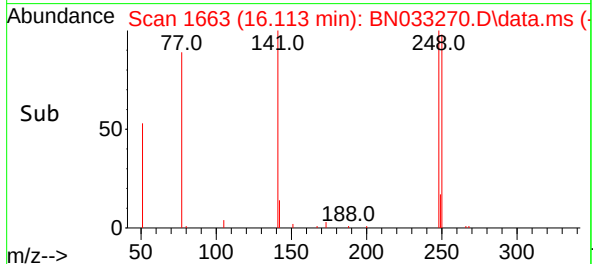
SSTDCCC0.4



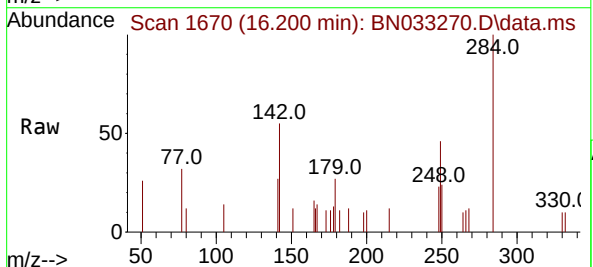
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.0	120.0
141	103.3	71.0	106.6

Manual Integrations
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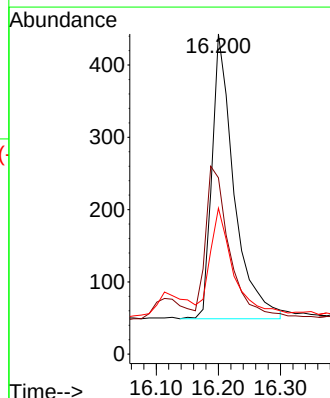
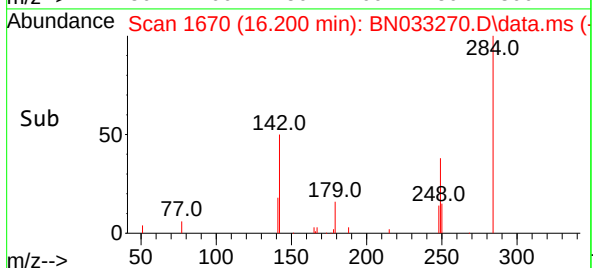
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

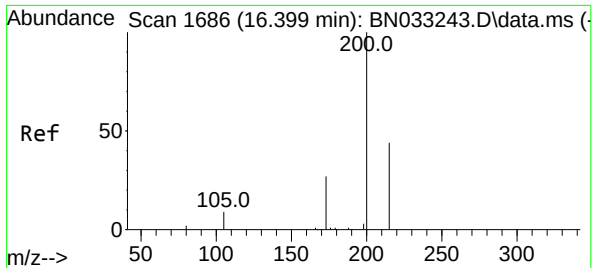


#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04



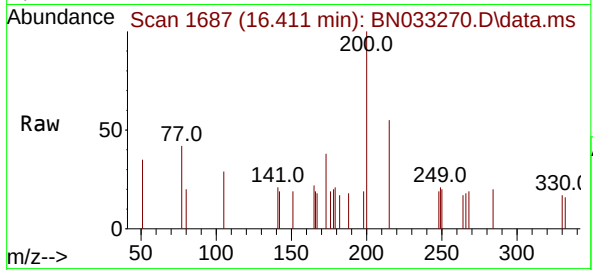
Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.7	38.8	58.2
249	35.6	27.8	41.6





#23
Atrazine
Concen: 0.368 ng
RT: 16.411 min Scan# 1686
Delta R.T. 0.012 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

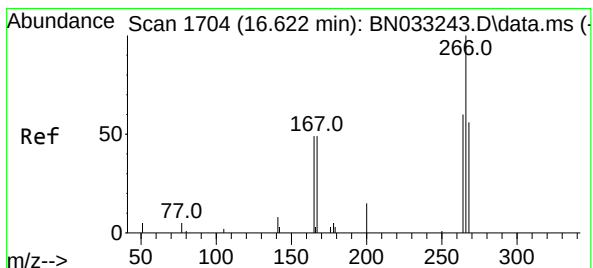
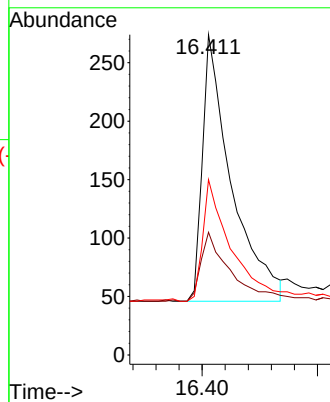
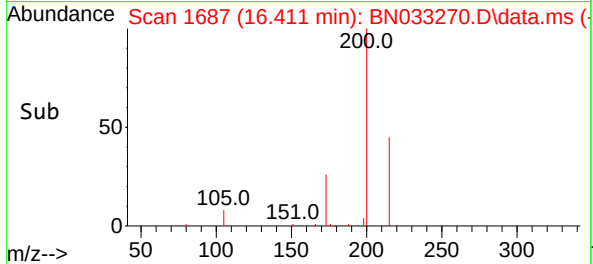
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 792
Ion Ratio Lower Upper
200 100
173 38.3 29.2 43.8
215 54.7 41.5 62.3

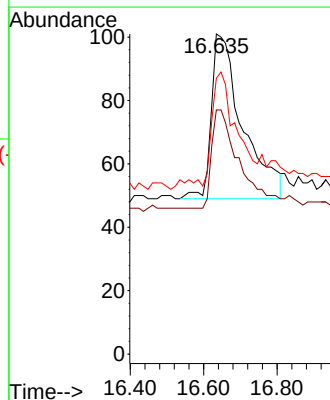
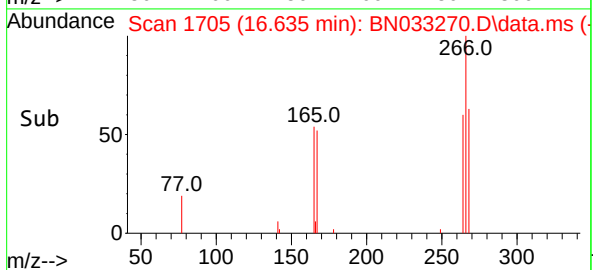
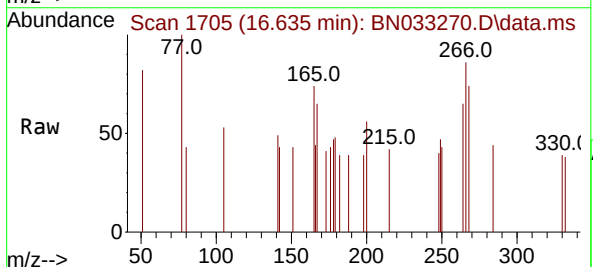
Manual Integrations
APPROVED

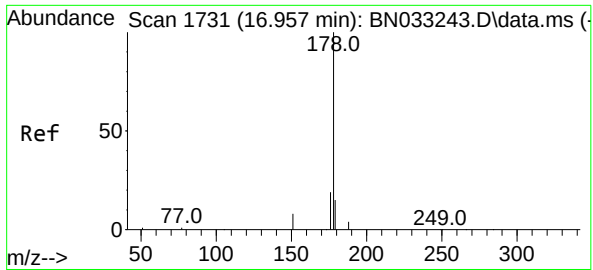
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#24
Pentachlorophenol
Concen: 0.386 ng
RT: 16.635 min Scan# 1705
Delta R.T. 0.013 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

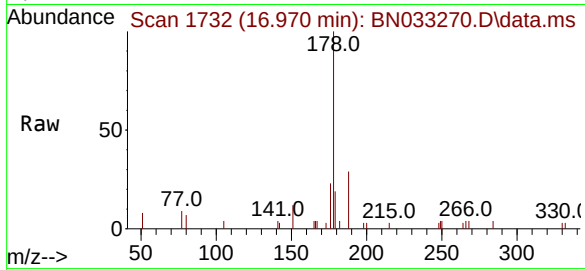
Tgt Ion:266 Resp: 308
Ion Ratio Lower Upper
266 100
264 53.2 49.3 73.9
268 53.6 50.2 75.2





#25
Phenanthrene
Concen: 0.373 ng
RT: 16.970 min Scan# 1731
Delta R.T. 0.013 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

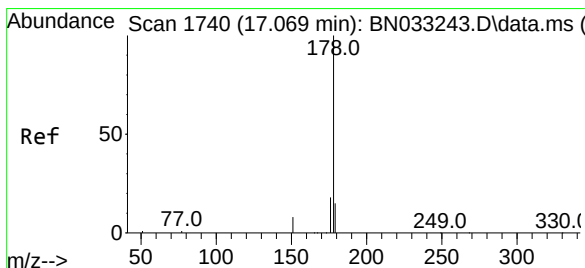
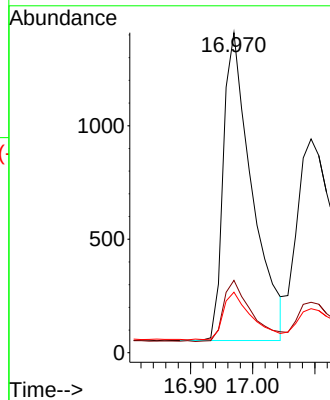
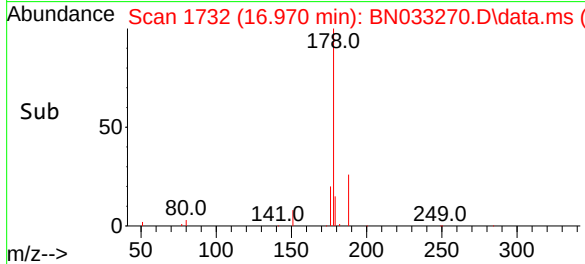
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



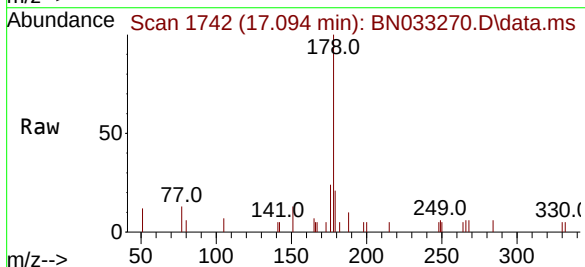
Tgt Ion:178 Resp: 4329
Ion Ratio Lower Upper
178 100
176 20.3 15.7 23.5
179 15.5 12.4 18.6

Manual Integrations
APPROVED

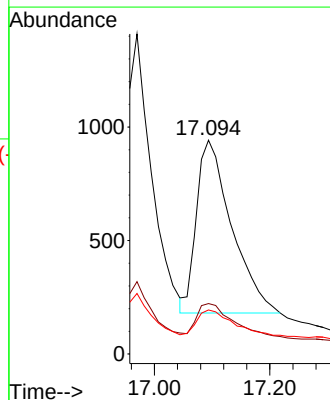
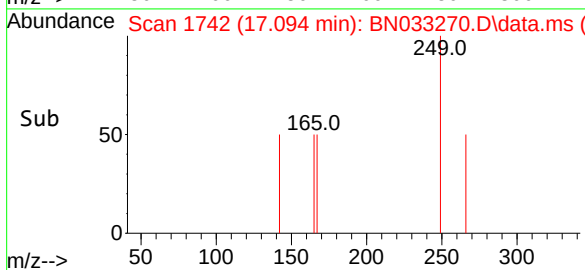
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

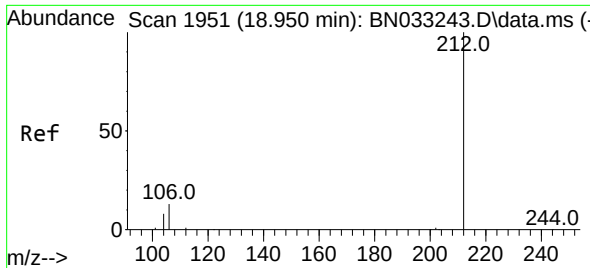


#26
Anthracene
Concen: 0.331 ng
RT: 17.094 min Scan# 1742
Delta R.T. 0.025 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04



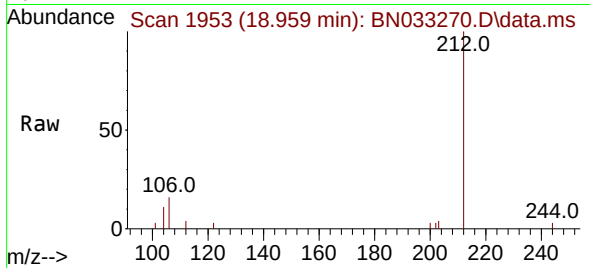
Tgt Ion:178 Resp: 3217
Ion Ratio Lower Upper
178 100
176 18.9 10.5 15.7#
179 14.5 8.6 12.8#





#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 18.959 min Scan# 1951
Delta R.T. 0.009 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

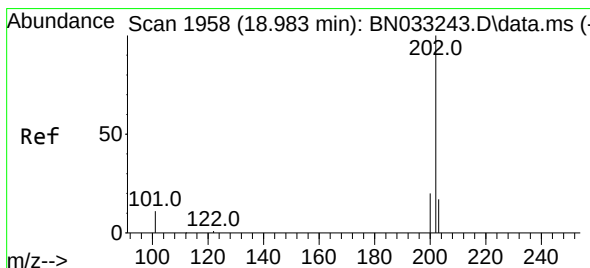
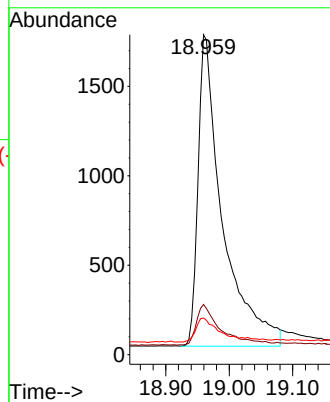
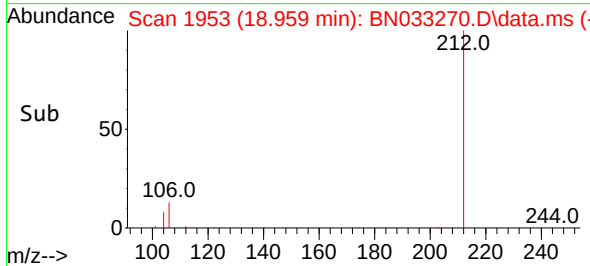
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



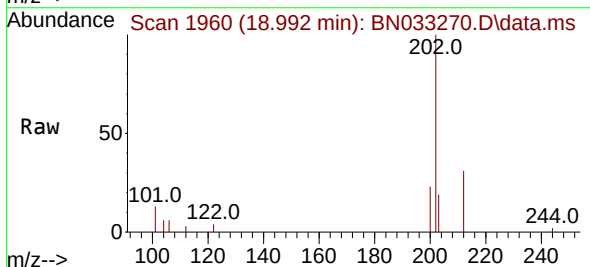
Tgt Ion:212 Resp: 4650
Ion Ratio Lower Upper
212 100
106 12.9 11.4 17.0
104 8.3 7.1 10.7

Manual Integrations
APPROVED

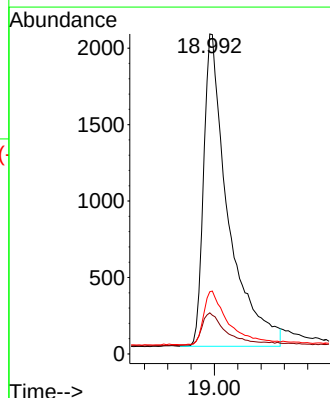
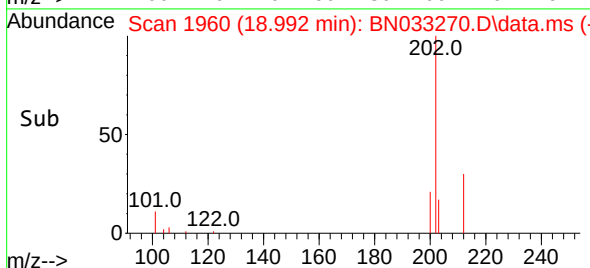
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

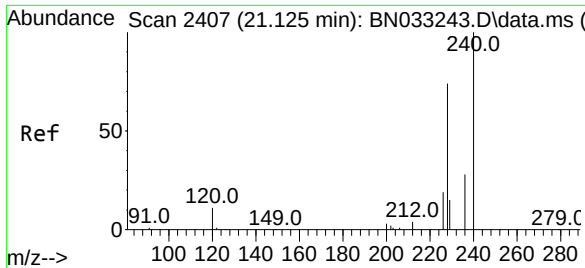


#28
Fluoranthene
Concen: 0.376 ng
RT: 18.992 min Scan# 1960
Delta R.T. 0.009 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04



Tgt Ion:202 Resp: 5973
Ion Ratio Lower Upper
202 100
101 11.1 8.6 13.0
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2407

Delta R.T. 0.008 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

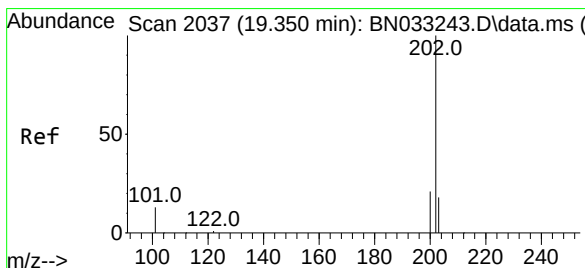
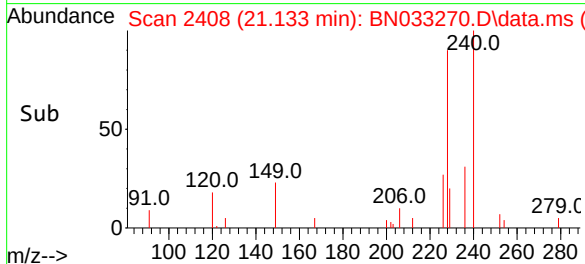
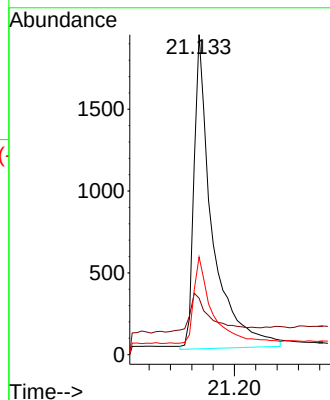
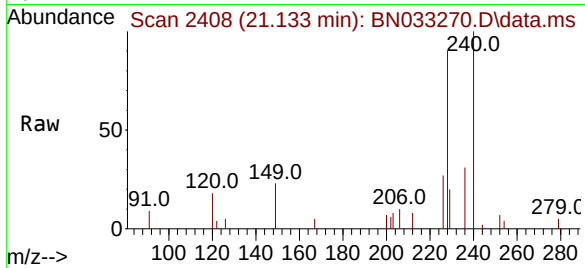
Tgt Ion:	240	Resp:	456
Ion Ratio	Lower	Upper	
240	100		
120	17.6	13.3	19.9
236	30.5	23.8	35.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#30

Pyrene

Concen: 0.401 ng

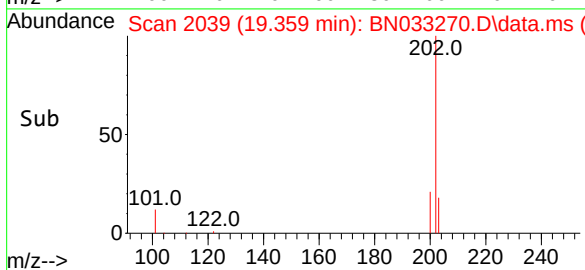
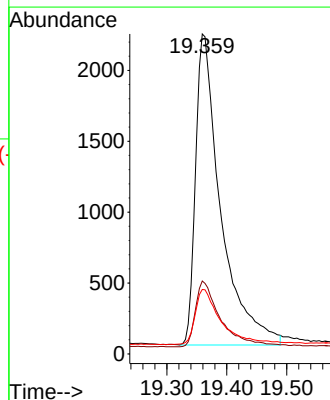
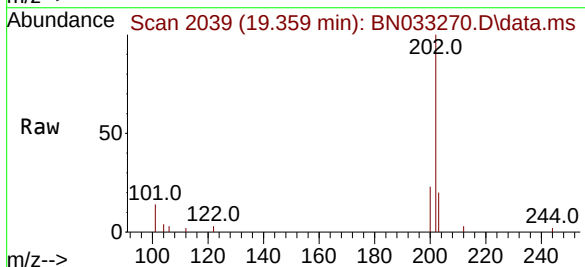
RT: 19.359 min Scan# 2039

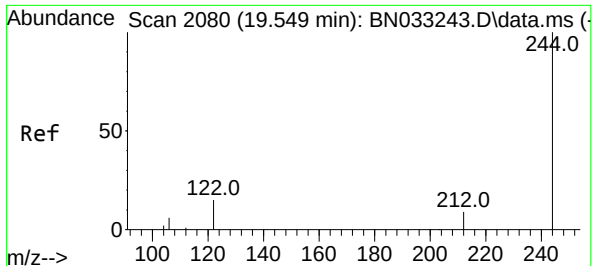
Delta R.T. 0.009 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04

Tgt Ion:	202	Resp:	6406
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.0	25.4
203	18.6	14.4	21.6





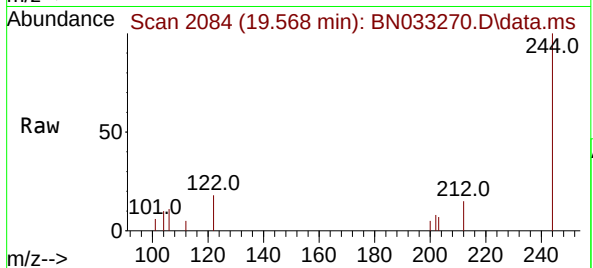
#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.568 min Scan# 2084
Delta R.T. 0.019 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

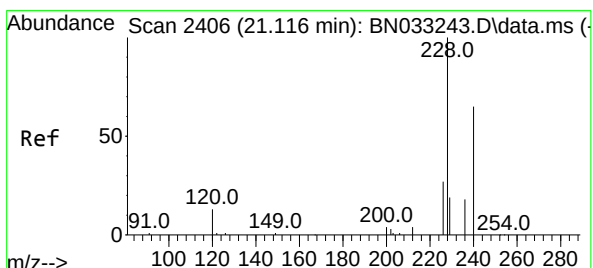
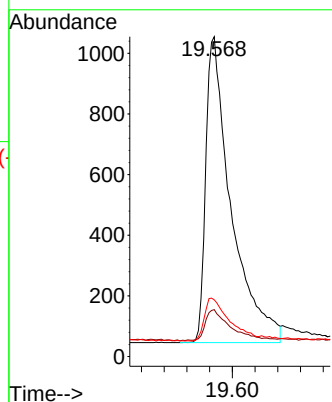
SSTDCCC0.4



Tgt Ion:244 Resp: 312
Ion Ratio Lower Upper
244 100
212 14.7 9.9 14.9
122 17.7 14.1 21.1

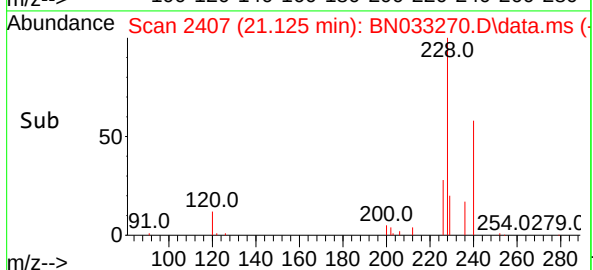
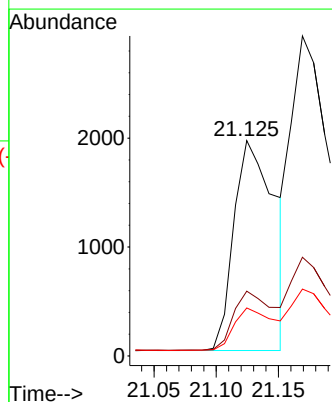
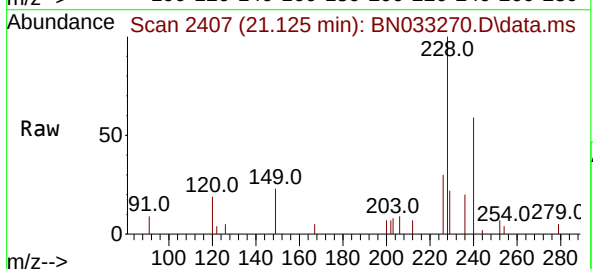
Manual Integrations
APPROVED

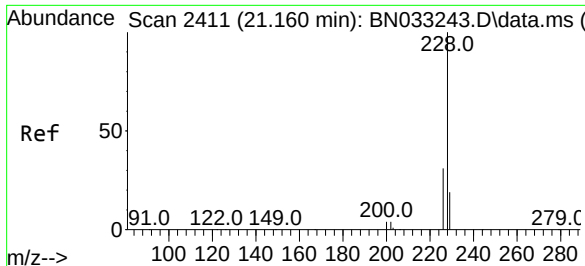
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#32
Benzo(a)anthracene
Concen: 0.334 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.009 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

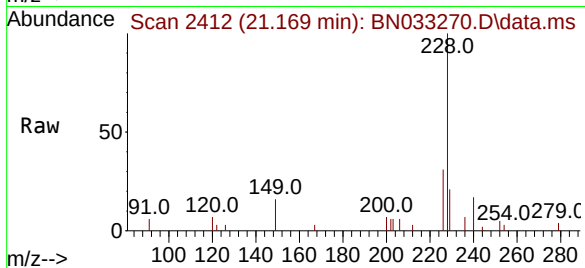
Tgt Ion:228 Resp: 4394
Ion Ratio Lower Upper
228 100
226 30.1 22.4 33.6
229 22.3 16.6 25.0





#33
Chrysene
Concen: 0.427 ng
RT: 21.169 min Scan# 2411
Delta R.T. 0.009 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

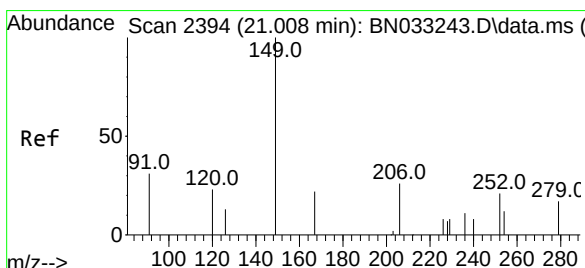
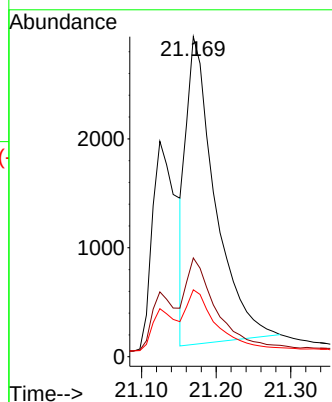
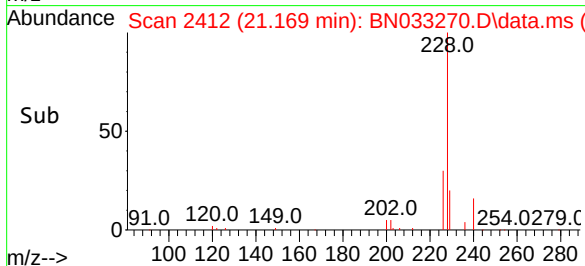
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 228 Resp: 7549
Ion Ratio Lower Upper
228 100
226 30.9 25.1 37.7
229 20.9 16.2 24.2

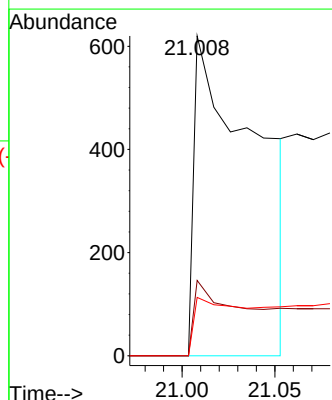
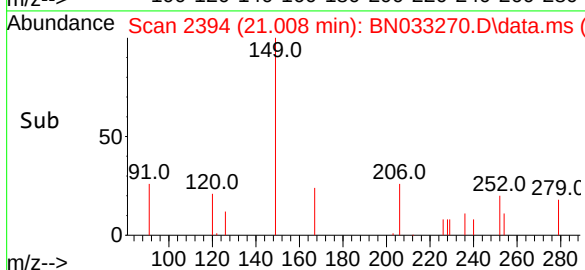
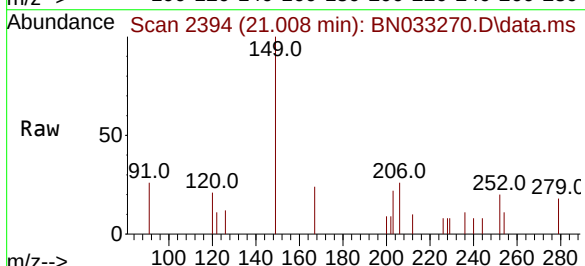
Manual Integrations
APPROVED

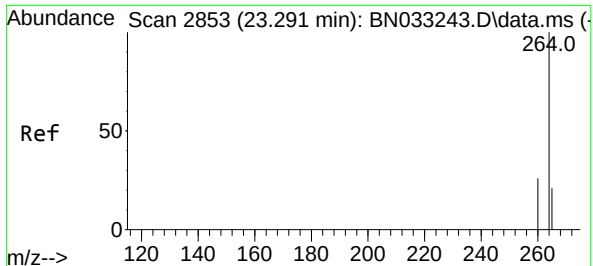
Reviewed By : Yogesh Patel 08/07/2024
Supervised By : mohammad ahmed 08/08/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.414 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033270.D
Acq: 06 Aug 2024 13:04

Tgt Ion: 149 Resp: 1308
Ion Ratio Lower Upper
149 100
167 18.1 19.8 29.6#
279 13.3 8.2 12.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN033270.D

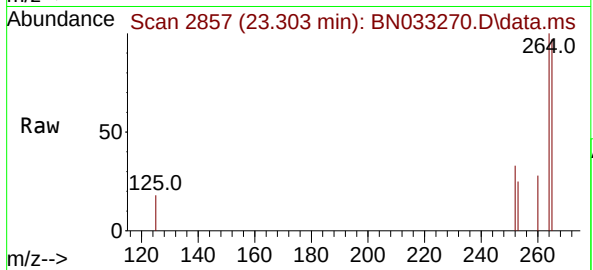
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 546

Ion Ratio Lower Upper

264 100

260 27.5 21.4 32.2

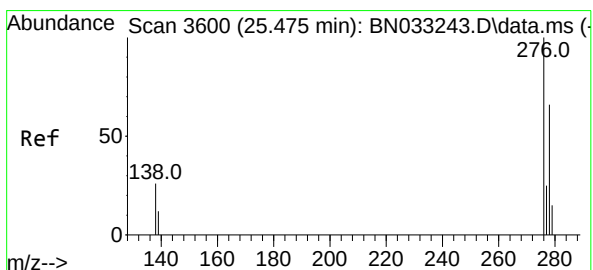
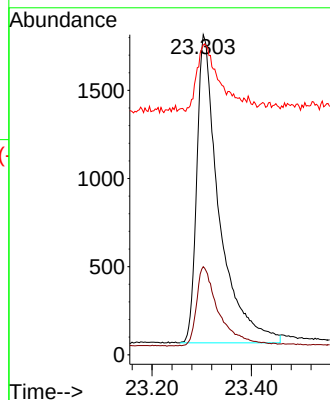
265 96.8 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#36

Indeno(1,2,3-cd)pyrene

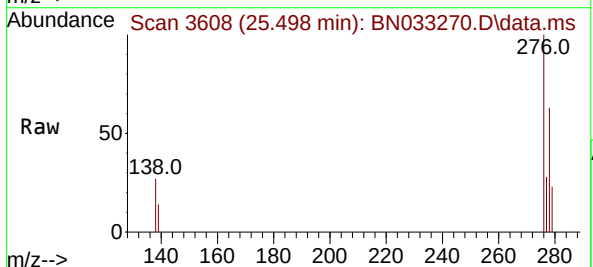
Concen: 0.362 ng

RT: 25.498 min Scan# 3608

Delta R.T. 0.023 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04



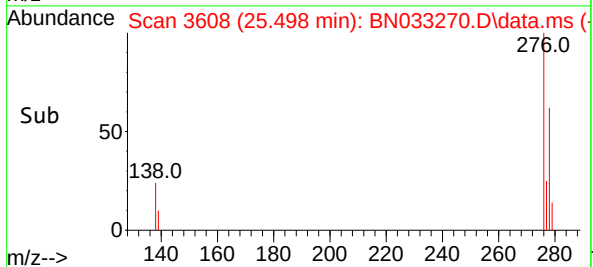
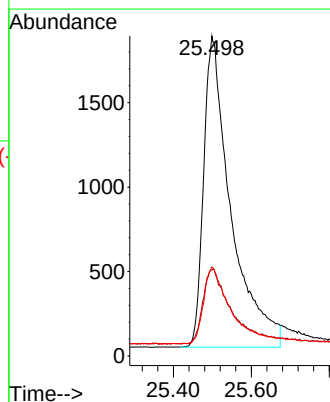
Tgt Ion:276 Resp: 8936

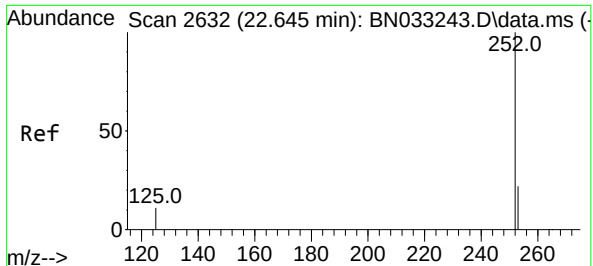
Ion Ratio Lower Upper

276 100

138 24.0 20.4 30.6

277 24.4 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.660 min Scan# 2637

Delta R.T. 0.015 min

Lab File: BN033270.D

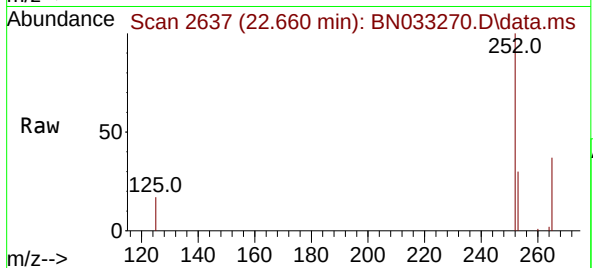
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



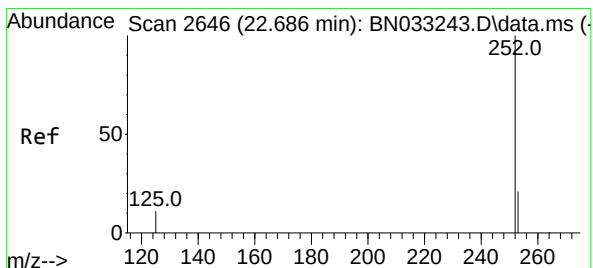
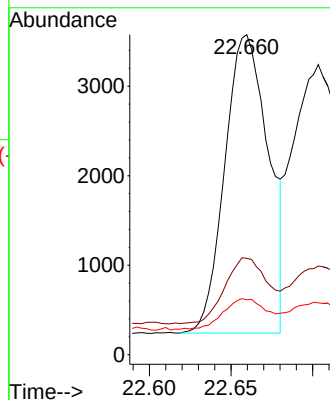
Tgt Ion:	252	Resp:	619
Ion Ratio	Lower	Upper	
252	100		
253	30.1	23.3	34.9
125	17.1	14.6	22.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#38

Benzo(k)fluoranthene

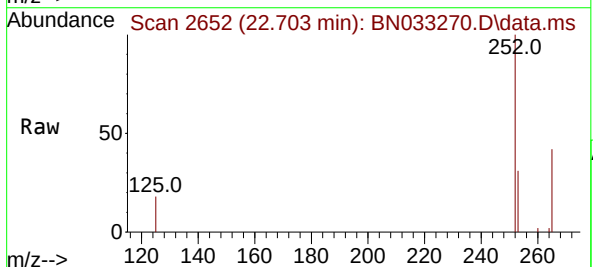
Concen: 0.400 ng

RT: 22.703 min Scan# 2652

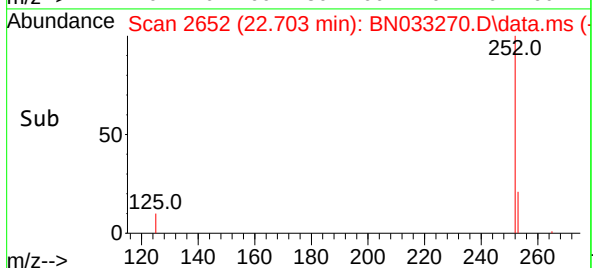
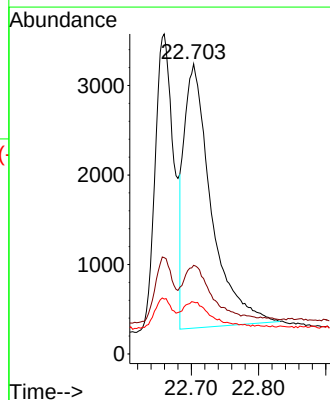
Delta R.T. 0.017 min

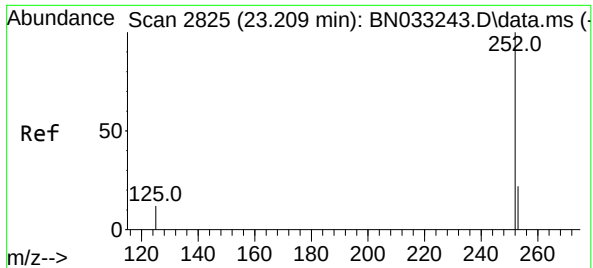
Lab File: BN033270.D

Acq: 06 Aug 2024 13:04



Tgt Ion:	252	Resp:	8292
Ion Ratio	Lower	Upper	
252	100		
253	30.5	23.7	35.5
125	17.9	15.4	23.0





#39

Benzo(a)pyrene

Concen: 0.409 ng

RT: 23.233 min Scan# 21

Delta R.T. 0.024 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

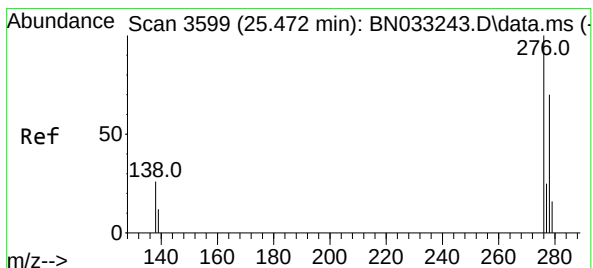
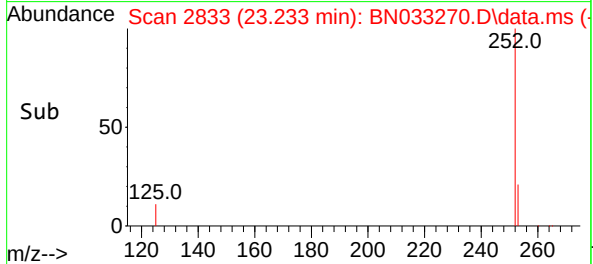
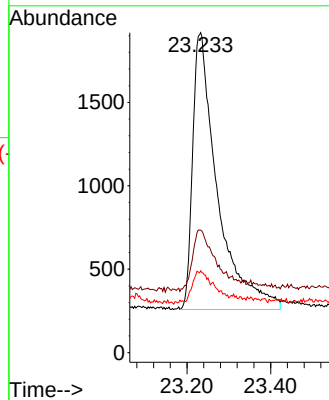
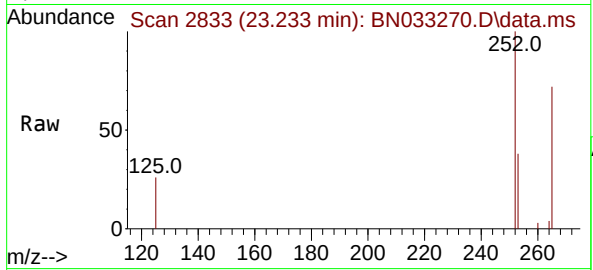
Tgt Ion:252	Resp:	6810
Ion Ratio	Lower	Upper
252	100	
253	38.3	28.4 42.6
125	25.6	20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

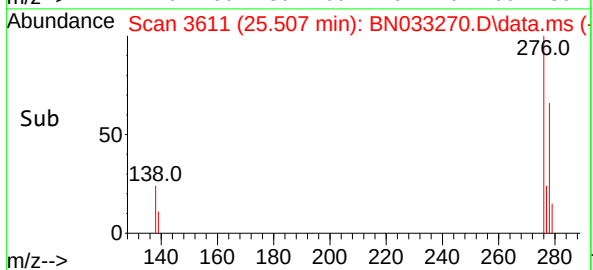
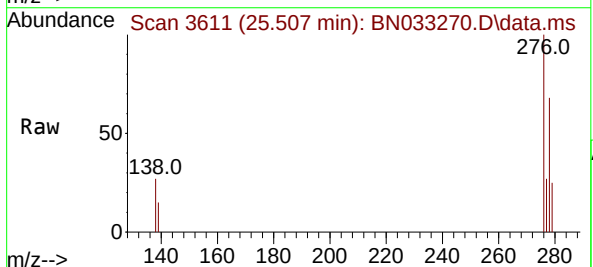
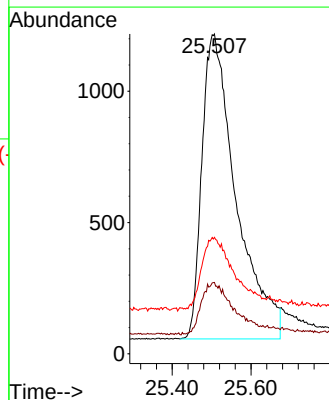
RT: 25.507 min Scan# 3611

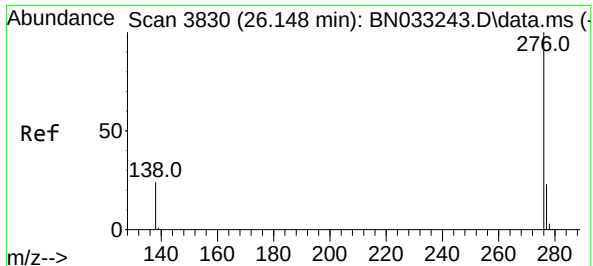
Delta R.T. 0.035 min

Lab File: BN033270.D

Acq: 06 Aug 2024 13:04

Tgt Ion:278	Resp:	7000
Ion Ratio	Lower	Upper
278	100	
139	22.3	16.7 25.1
279	36.5	25.0 37.6





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng m

RT: 26.174 min Scan# 3830

Delta R.T. 0.026 min

Lab File: BN033270.D

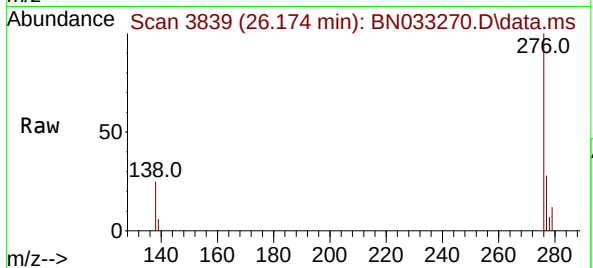
Acq: 06 Aug 2024 13:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 8230

Ion Ratio Lower Upper

276 100

277 27.5 21.0 31.4

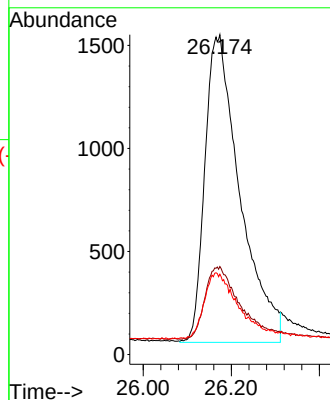
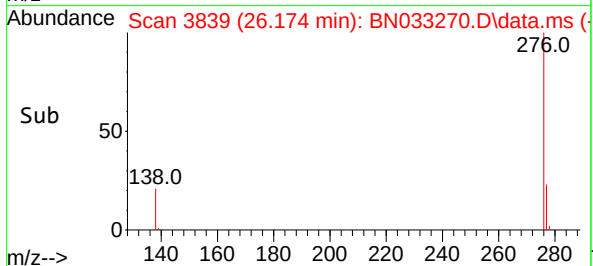
138 25.1 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033270.D
Acq On : 06 Aug 2024 13:04
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 06 13:46:48 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	72	0.04
2	1,4-Dioxane	0.583	0.682	-17.0	81	0.00
3	n-Nitrosodimethylamine	0.488	0.336	31.1#	57	0.06
4 S	2-Fluorophenol	0.991	0.881	11.1	58	0.05
5 S	Phenol-d6	1.361	1.312	3.6	67	0.04
6	bis(2-Chloroethyl)ether	1.147	1.742	-51.9#	105	0.07
7 I	Naphthalene-d8	1.000	1.000	0.0	73	0.01
8 S	Nitrobenzene-d5	0.322	0.259	19.6	69	0.01
9	Naphthalene	1.087	1.078	0.8	75	0.00
10	Hexachlorobutadiene	0.202	0.221	-9.4	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.593	0.581	2.0	73	0.02
12	2-Methylnaphthalene	0.648	0.564	13.0	74	0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	73	0.01
14 S	2,4,6-Tribromophenol	0.149	0.152	-2.0	84	0.01
15 S	2-Fluorobiphenyl	1.368	1.380	-0.9	78	0.02
16	Acenaphthylene	1.596	1.580	1.0	78	0.01
17	Acenaphthene	1.152	1.184	-2.8	77	0.00
18	Fluorene	1.559	1.613	-3.5	80	0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.052	0.031	40.4#	66	0.04
21	4-Bromophenyl-phenylether	0.212	0.210	0.9	77	0.00
22	Hexachlorobenzene	0.222	0.225	-1.4	80	0.00
23	Atrazine	0.200	0.184	8.0	75	0.01
24	Pentachlorophenol	0.074	0.071	4.1	80	0.01
25	Phenanthrene	1.076	1.005	6.6	77	0.01
26	Anthracene	0.902	0.747	17.2	69	0.02
27 SURR	Fluoranthene-d10	1.119	1.079	3.6	76	0.00
28	Fluoranthene	1.476	1.386	6.1	75	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	67	0.00
30	Pyrene	1.398	1.403	-0.4	76	0.00
31 S	Terphenyl-d14	0.691	0.685	0.9	74	0.02
32	Benzo(a)anthracene	1.152	0.962	16.5	61	0.00
33	Chrysene	1.547	1.652	-6.8	78	0.00
34	Bis(2-ethylhexyl)phthalate	0.277	0.286	-3.2	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	64	0.01
36	Indeno(1,2,3-cd)pyrene	1.808	1.635	9.6	63	0.02
37	Benzo(b)fluoranthene	1.213	1.134	6.5	68	0.01
38	Benzo(k)fluoranthene	1.518	1.518	0.0	71	0.02
39 C	Benzo(a)pyrene	1.218	1.246	-2.3	73	0.02
40	Dibenzo(a,h)anthracene	1.428	1.281	10.3	62	0.04
41	Benzo(g,h,i)perylene	1.636	1.507	7.9	62	0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033270.D
Acq On : 06 Aug 2024 13:04
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 06 13:46:48 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	72	0.04
2	1,4-Dioxane	0.400	0.380	5.0	81	0.00
3	n-Nitrosodimethylamine	0.400	0.276	31.0#	57	0.06
4 S	2-Fluorophenol	0.400	0.356	11.0	58	0.05
5 S	Phenol-d6	0.400	0.385	3.8	67	0.04
6	bis(2-Chloroethyl)ether	0.400	0.608	-52.0#	105	0.07
7 I	Naphthalene-d8	0.400	0.400	0.0	73	0.01
8 S	Nitrobenzene-d5	0.400	0.322	19.5	69	0.01
9	Naphthalene	0.400	0.397	0.8	75	0.00
10	Hexachlorobutadiene	0.400	0.438	-9.5	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.392	2.0	73	0.02
12	2-Methylnaphthalene	0.400	0.349	12.8	74	0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	73	0.01
14 S	2,4,6-Tribromophenol	0.400	0.408	-2.0	84	0.01
15 S	2-Fluorobiphenyl	0.400	0.404	-1.0	78	0.02
16	Acenaphthylene	0.400	0.396	1.0	78	0.01
17	Acenaphthene	0.400	0.411	-2.7	77	0.00
18	Fluorene	0.400	0.414	-3.5	80	0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.411	-2.7	66	0.04
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	77	0.00
22	Hexachlorobenzene	0.400	0.407	-1.7	80	0.00
23	Atrazine	0.400	0.368	8.0	75	0.01
24	Pentachlorophenol	0.400	0.386	3.5	80	0.01
25	Phenanthrene	0.400	0.373	6.8	77	0.01
26	Anthracene	0.400	0.331	17.3	69	0.02
27 SURR	Fluoranthene-d10	0.400	0.386	3.5	76	0.00
28	Fluoranthene	0.400	0.376	6.0	75	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	67	0.00
30	Pyrene	0.400	0.401	-0.3	76	0.00
31 S	Terphenyl-d14	0.400	0.396	1.0	74	0.02
32	Benzo(a)anthracene	0.400	0.334	16.5	61	0.00
33	Chrysene	0.400	0.427	-6.7	78	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.414	-3.5	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	64	0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.362	9.5	63	0.02
37	Benzo(b)fluoranthene	0.400	0.374	6.5	68	0.01
38	Benzo(k)fluoranthene	0.400	0.400	0.0	71	0.02
39 C	Benzo(a)pyrene	0.400	0.409	-2.2	73	0.02
40	Dibenzo(a,h)anthracene	0.400	0.359	10.3	62	0.04
41	Benzo(g,h,i)perylene	0.400	0.368	8.0	62	0.03

(#) = Out of Range

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



QC SAMPLE DATA

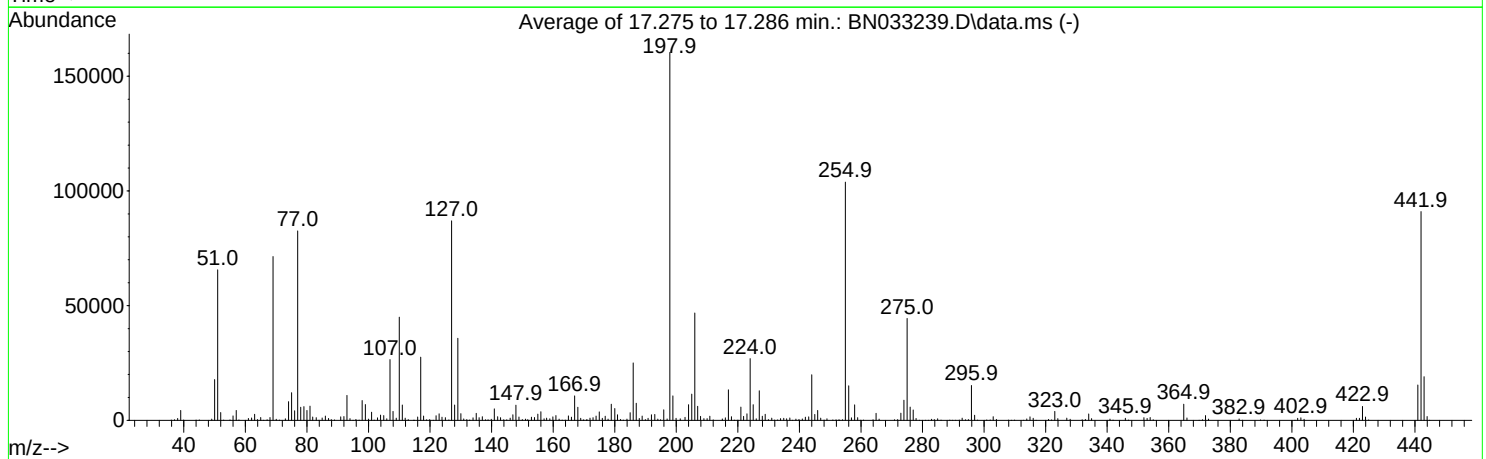
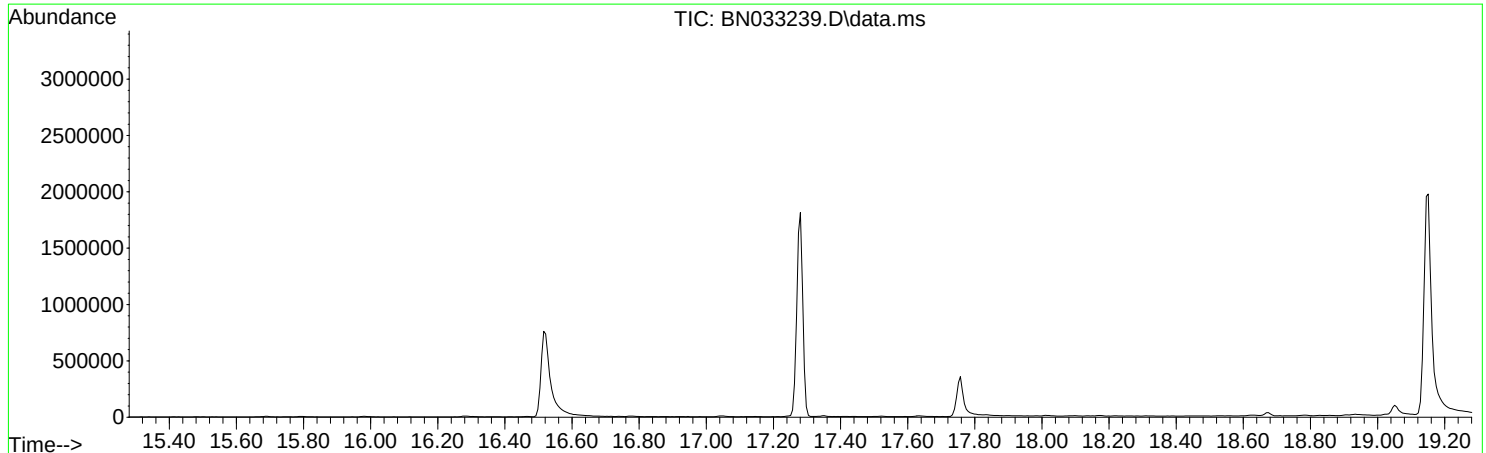
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- 2
- 3
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- 16
- 17

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



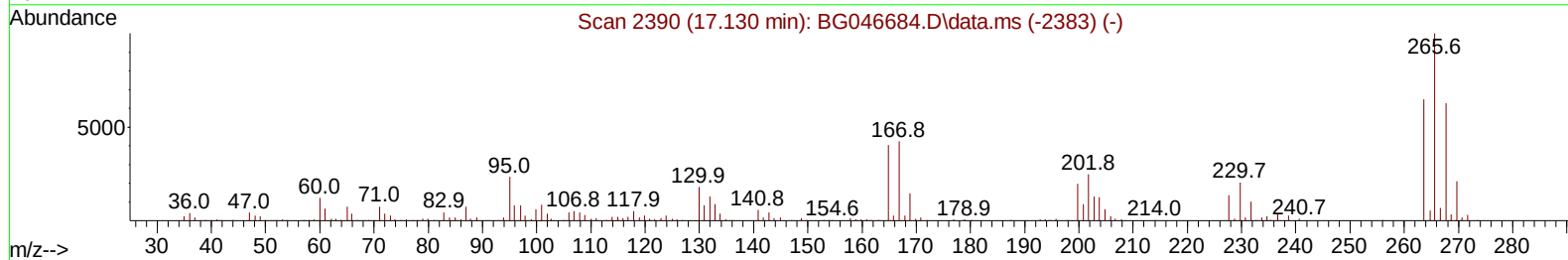
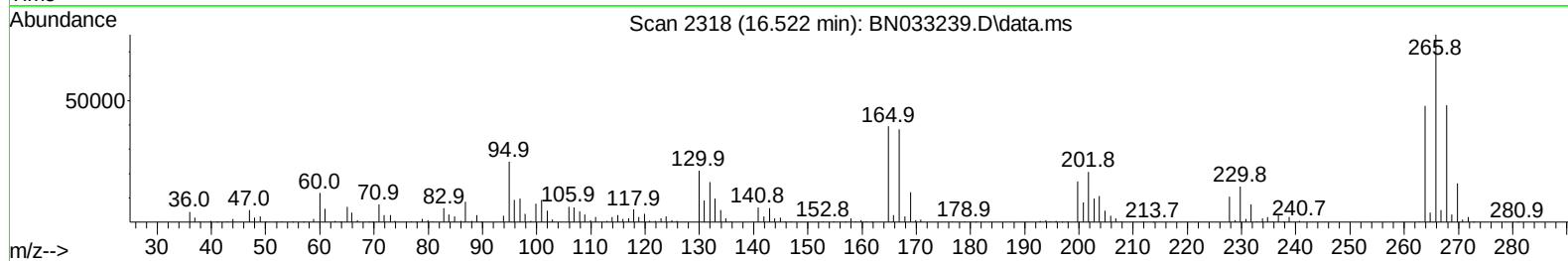
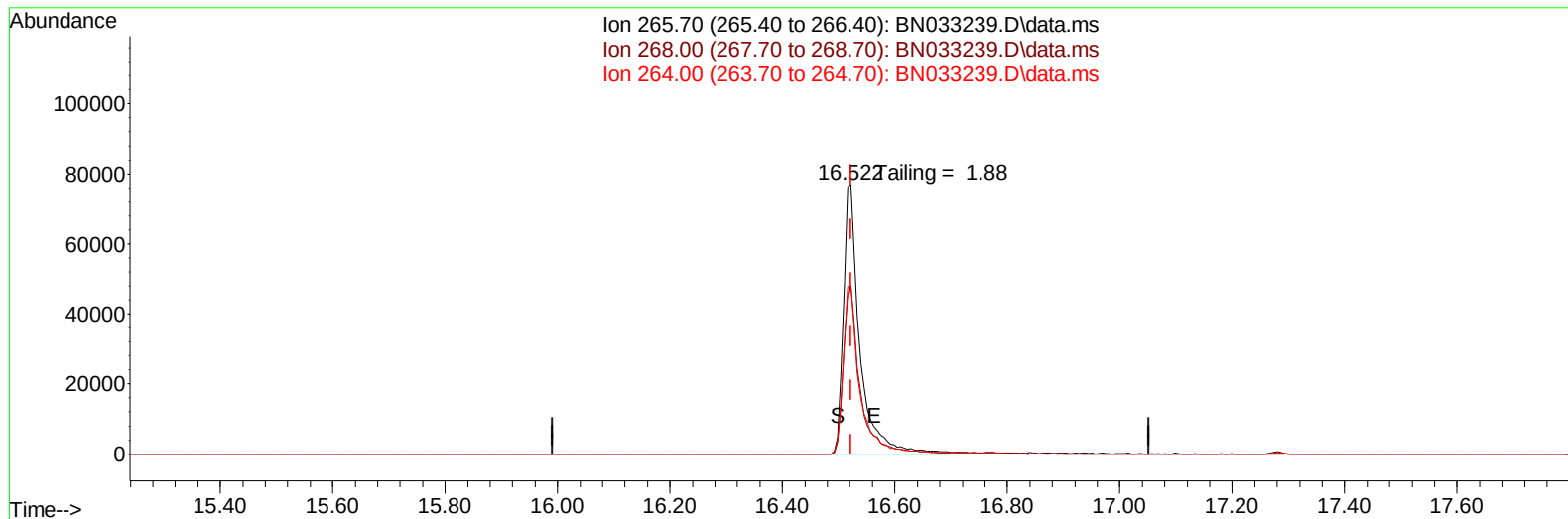
AutoFind: Scans 2446, 2447, 2448; Background Corrected with Scan 2439

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

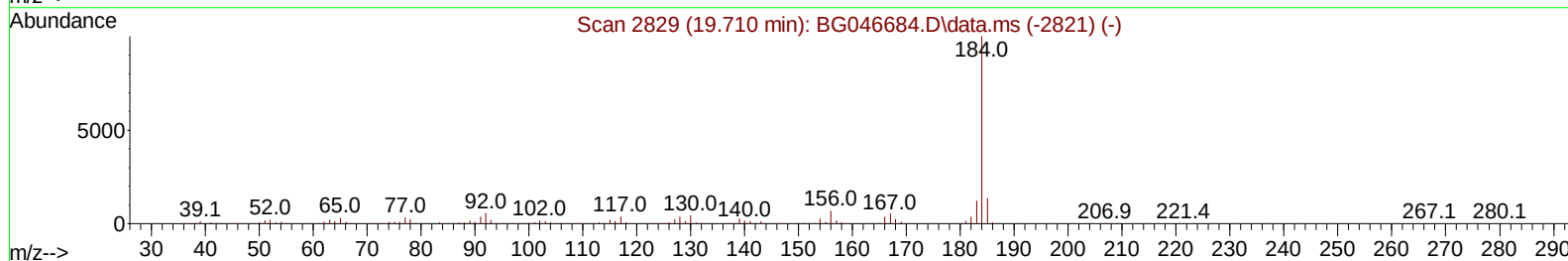
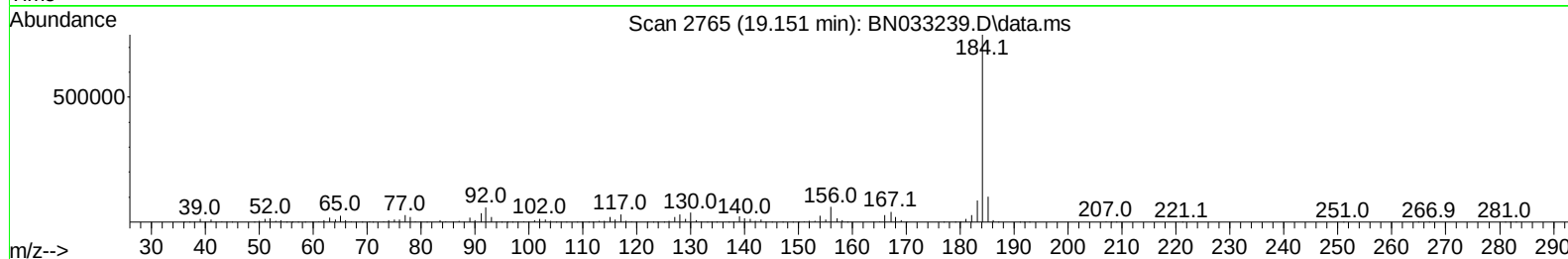
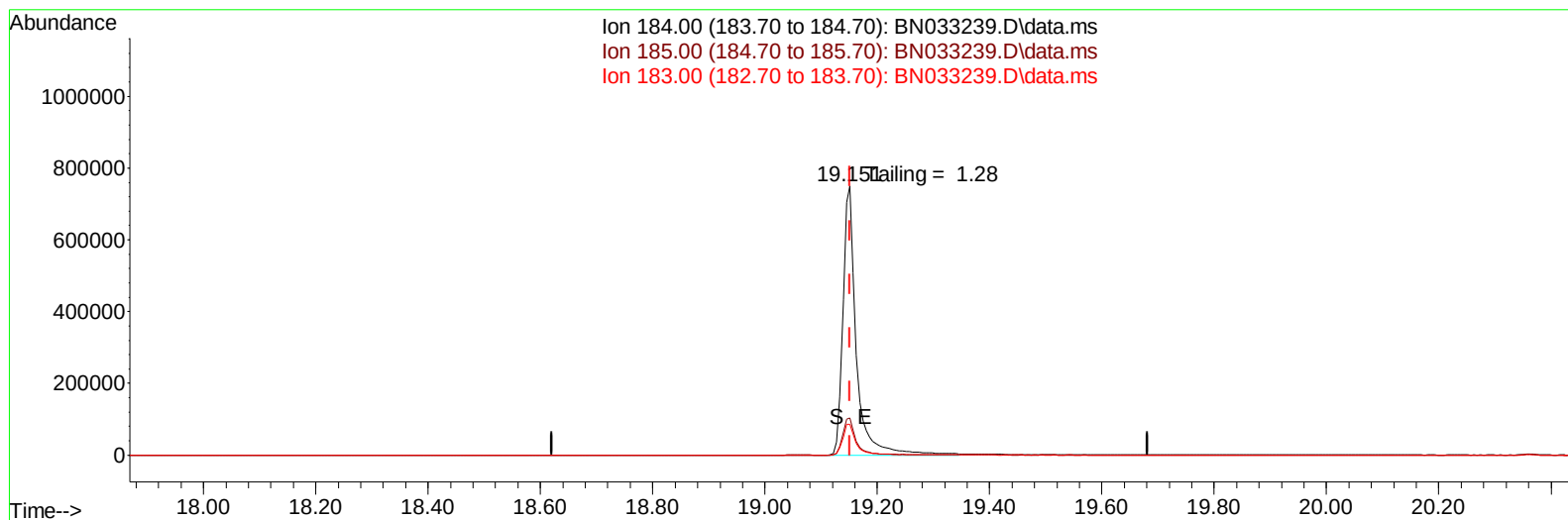
(70) Pentachlorophenol (C)**16.522min (0.000) 16240.58 ng****response 159315**

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

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

(77) Benzidine

19.151min (0.000) 0.00 ng

response 1263871

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.70
183.00	13.20	11.48
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

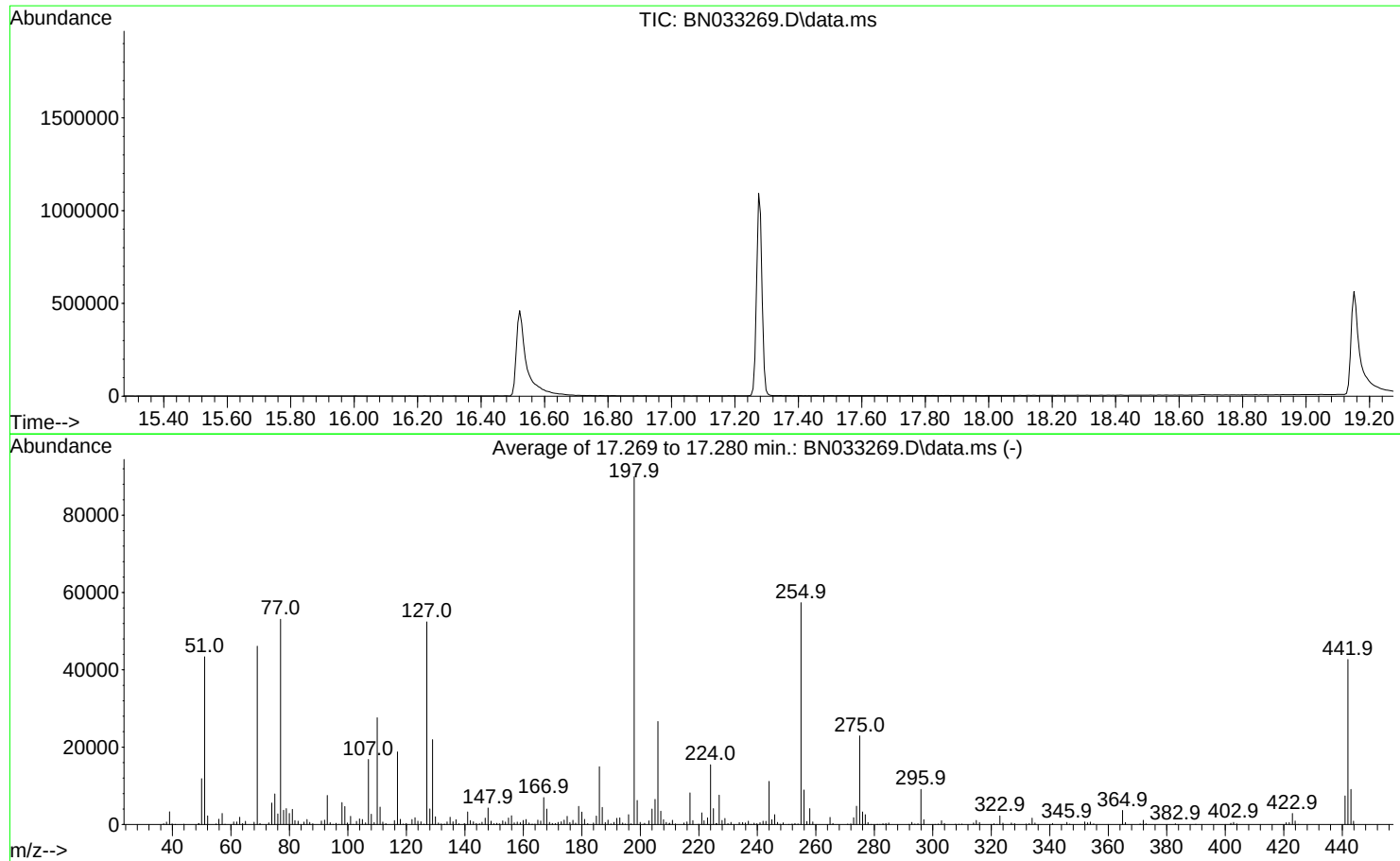
Date	Instrument Name	DFTPP Data File
8/5/2024	BNA_N	<u>BN033239.D</u>
Compound Name	Response	Retention Time
DDT	675064	20.363
DDD	9359	19.963
DDE	813	19.416
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10172	685236	1.48

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033269.D
Acq On : 06 Aug 2024 12:24
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



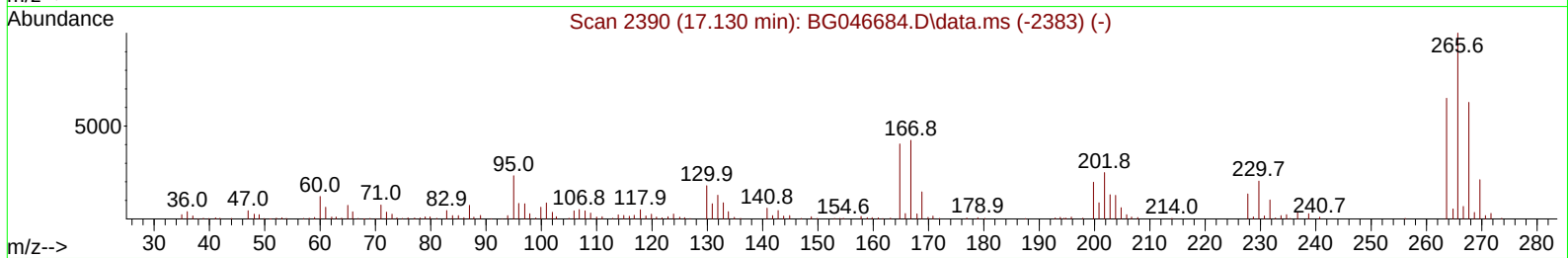
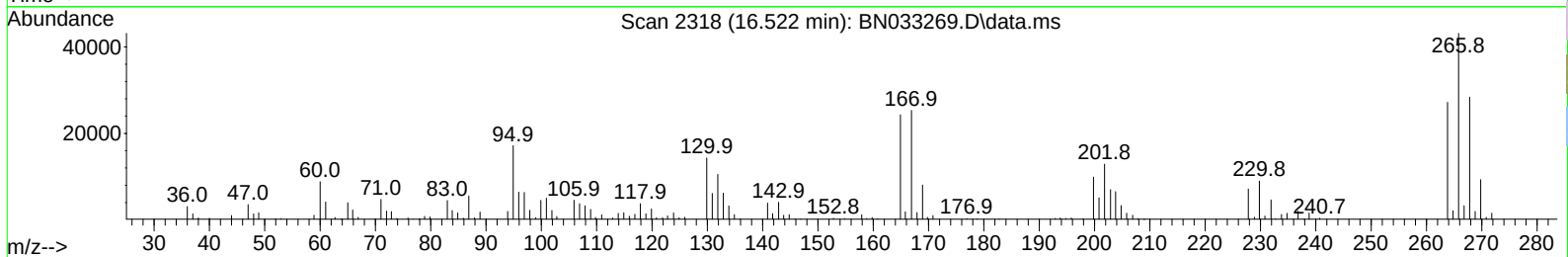
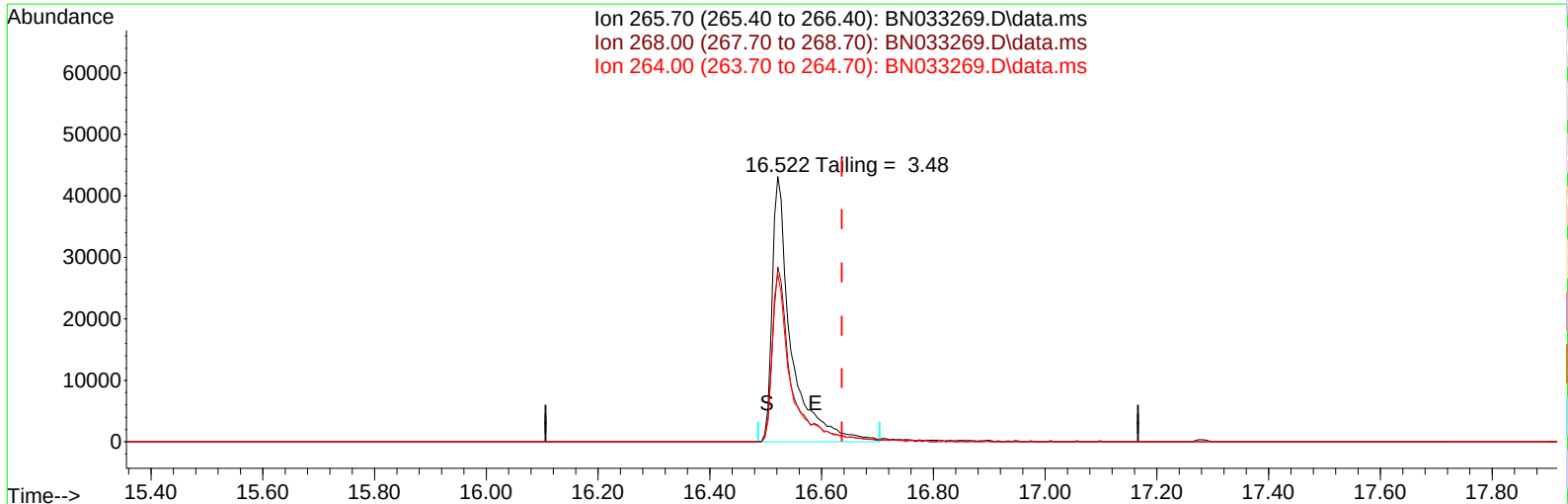
AutoFind: Scans 2445, 2446, 2447; Background Corrected with Scan 2439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.2	43379	PASS
68	69	0.00	2	1.2	573	PASS
69	198	0.00	100	51.3	46109	PASS
70	69	0.00	2	0.6	256	PASS
127	198	10	80	58.3	52397	PASS
197	198	0.00	2	0.1	125	PASS
198	198	100	100	100.0	89928	PASS
199	198	5	9	6.9	6205	PASS
275	198	10	60	25.5	22919	PASS
365	198	1	100	4.1	3654	PASS
441	198	0.01	100	8.2	7401	PASS
442	442	50	100	100.0	42683	PASS
443	442	15	24	21.3	9090	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033269.D
Acq On : 06 Aug 2024 12:24
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 13:08:52 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: BN033269.D\data.ms

(70) Pentachlorophenol (C)

16.522min (-0.114) 21165.06 ng

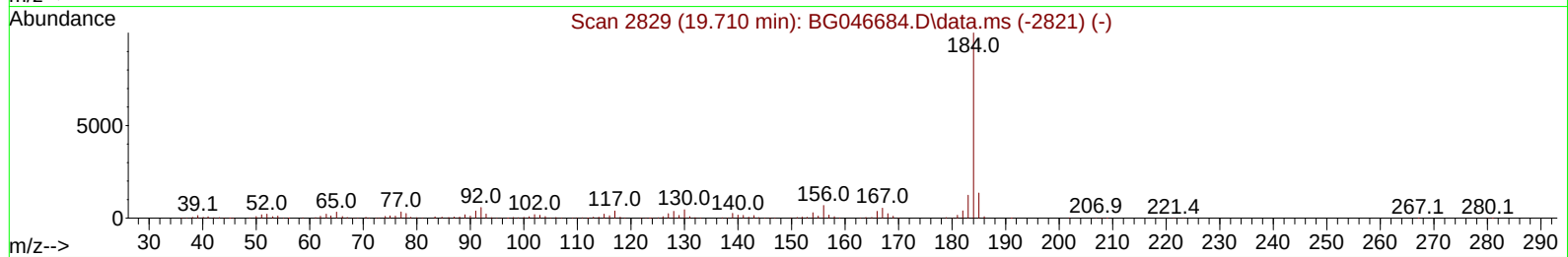
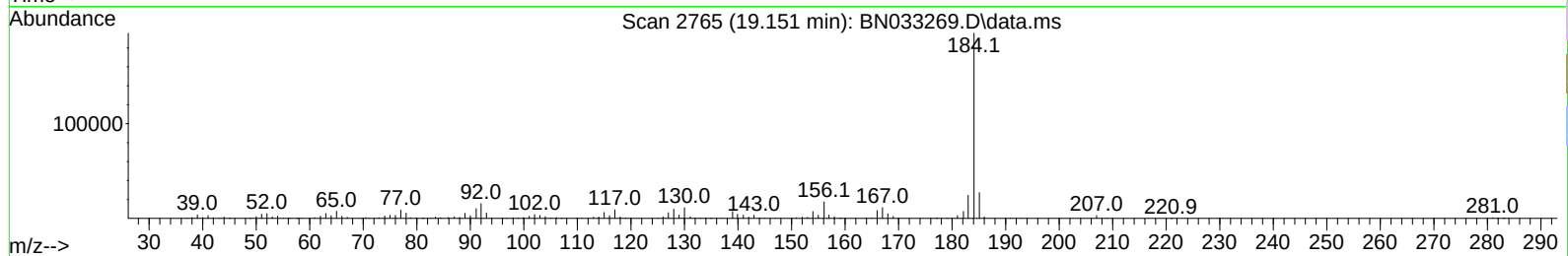
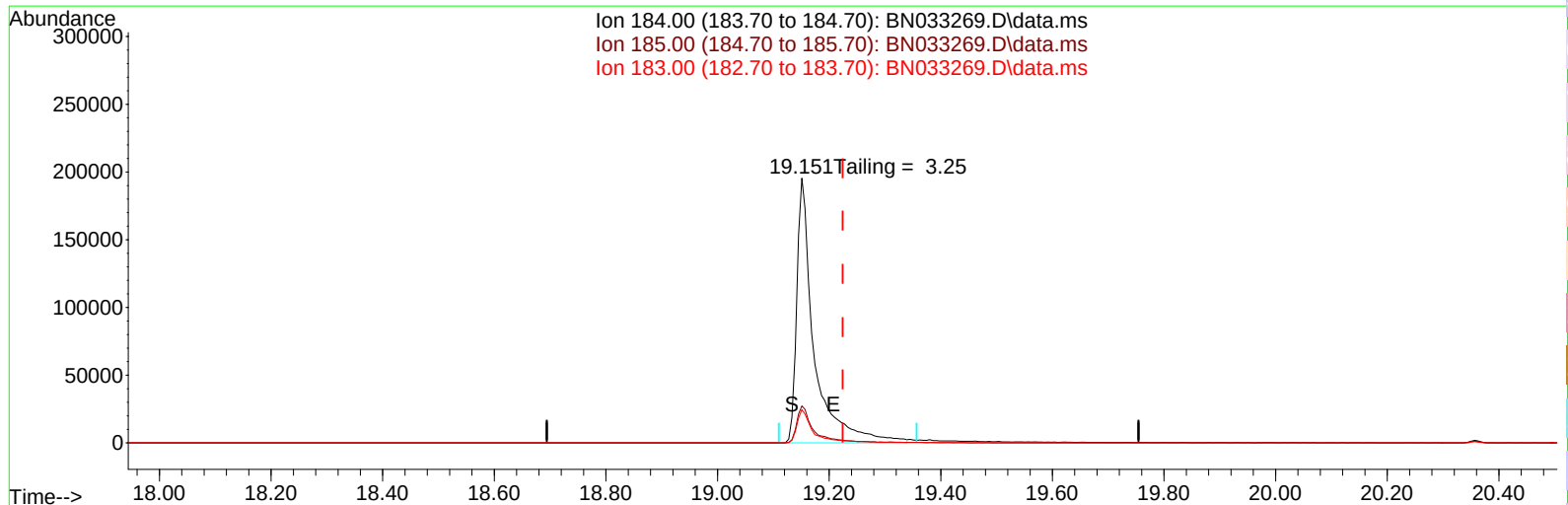
response 101652

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.84
264.00	61.60	63.04
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033269.D
Acq On : 06 Aug 2024 12:24
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 13:08:52 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: BN033269.D\data.ms

(77) Benzidine

19.151min (-0.073) 0.00 ng m

response 423776

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.97
183.00	13.20	12.52
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/6/2024	BNA_N	<u>BN033269.D</u>
Compound Name	Response	Retention Time
DDT	360019	20.357
DDD	4228	19.963
DDE	138	19.416
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4366	364385	1.20

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162490BL	SDG No.:	P3467
Lab Sample ID:	PB162490BL	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
BN033271.D	1	08/05/24 09:05	08/06/24 13:41	PB162490

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	0.38		30 (30) - 150 (150)	95%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 (30) - 150 (150)	94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		30 (11) - 130 (175)	100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.17		30 (10) - 130 (175)	43%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		30 (54) - 130 (171)	107%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	736	7.69			
1146-65-2	Naphthalene-d8	2380	10.532			
15067-26-2	Acenaphthene-d10	1700	14.222			
1517-22-2	Phenanthrene-d10	4320	17.007			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162490BL	SDG No.:	P3467
Lab Sample ID:	PB162490BL	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
BN033271.D	1	08/05/24 09:05	08/06/24 13:41	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	4780	21.169			
1520-96-3	Perylene-d12	5310	23.338			

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\BN080624\
Data File : BN033271.D
Acq On : 06 Aug 2024 13:41
Operator : MA/JU
Sample : PB162490BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162490BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

Quant Time: Aug 06 14:35:50 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	7.690	152	736m	0.400	ng	0.18
7) Naphthalene-d8	10.532	136	2380	0.400	ng	# 0.21
13) Acenaphthene-d10	14.222	164	1701m	0.400	ng	0.10
19) Phenanthrene-d10	17.007	188	4323m	0.400	ng	0.09
29) Chrysene-d12	21.169	240	4778	0.400	ng	# 0.04
35) Perylene-d12	23.338	264	5313	0.400	ng	# 0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.336	112	677m	0.371	ng	0.04
5) Phenol-d6	7.315	99	806m	0.322	ng	0.32
8) Nitrobenzene-d5	9.251	82	766m	0.400	ng	0.33
11) 2-Methylnaphthalene-d10	12.120	152	1343m	0.380	ng	0.19
14) 2,4,6-Tribromophenol	15.853	330	121m	0.191	ng	0.14
15) 2-Fluorobiphenyl	12.971	172	990	0.170	ng	0.17
27) Fluoranthene-d10	19.006	212	4533	0.375	ng	0.06
31) Terphenyl-d14	19.577	244	3528	0.427	ng	0.03

Target Compounds Qvalue

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

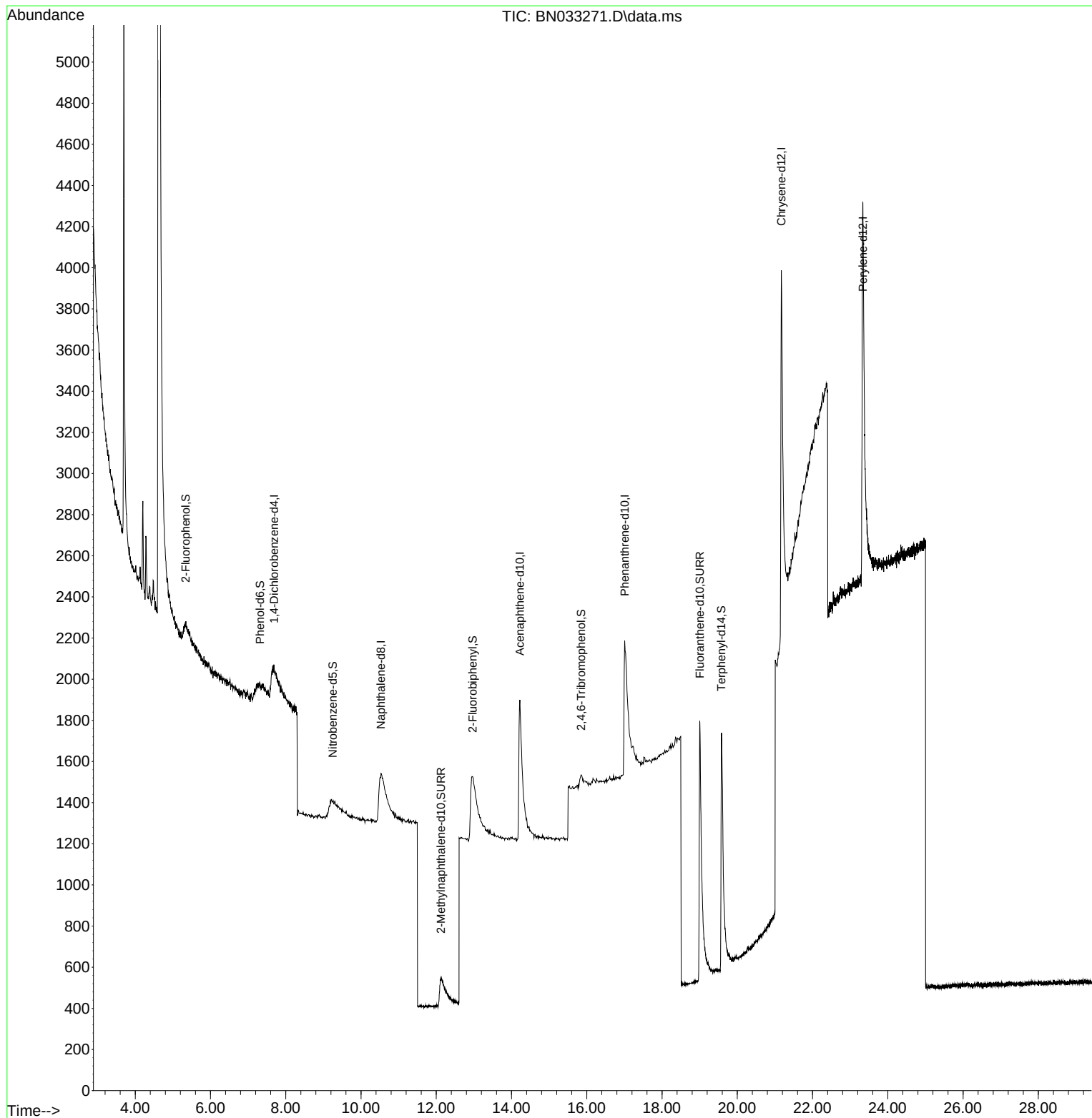
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Data File : BN033271.D
Acq On : 06 Aug 2024 13:41
Operator : MA/JU
Sample : PB162490BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

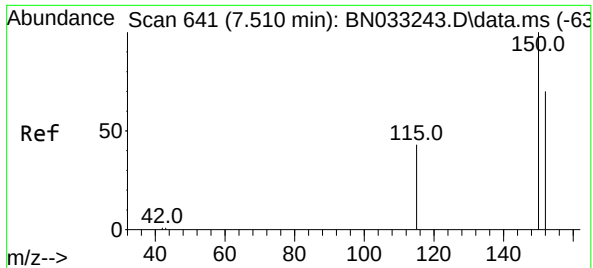
Instrument :
BNA_N
ClientSampleId :
PB162490BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

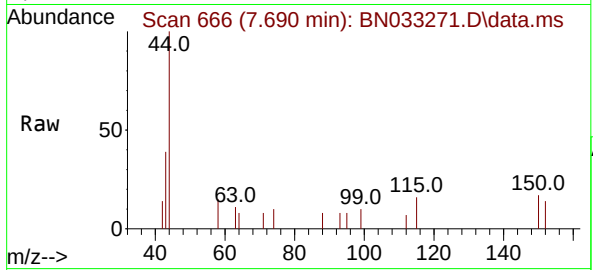
Quant Time: Aug 06 14:35:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 05 23:57:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.690 min Scan# 60
Delta R.T. 0.180 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

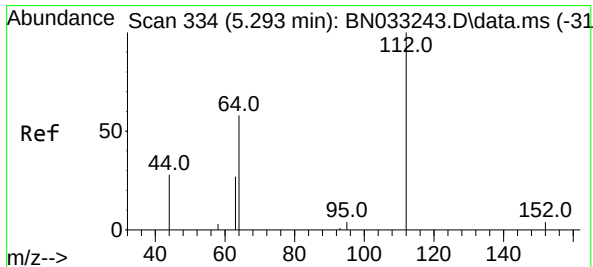
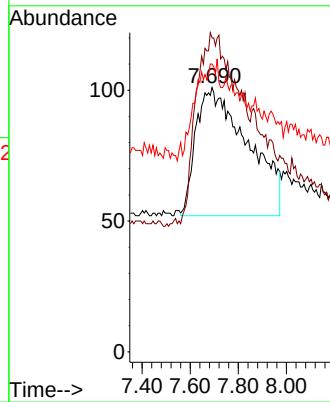
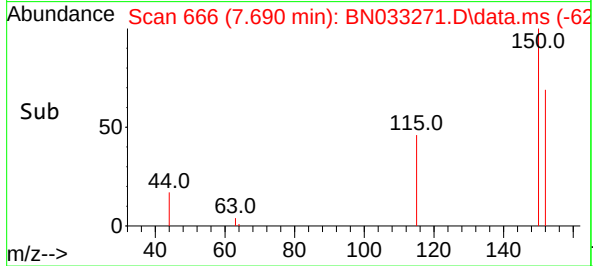
Instrument :
BNA_N
ClientSampleId :
PB162490BL



Tgt Ion:152 Resp: 730
Ion Ratio Lower Upper
152 100
150 118.8 108.2 162.2
115 108.9 70.5 105.7

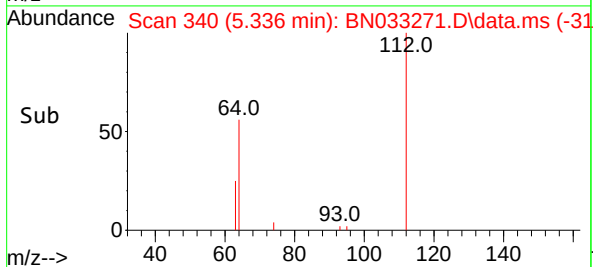
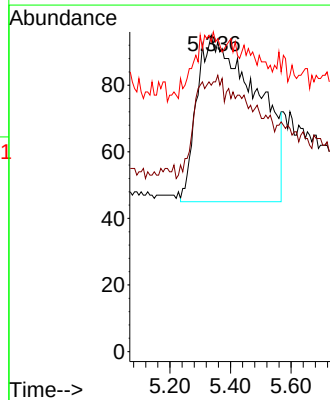
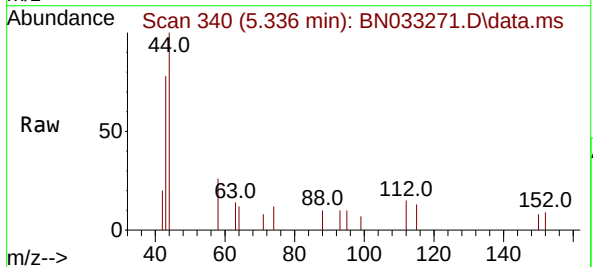
Manual Integrations
APPROVED

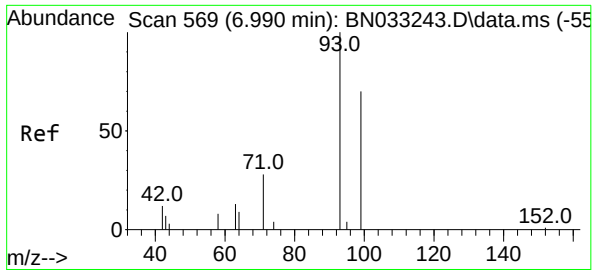
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#4
2-Fluorophenol
Concen: 0.371 ng m
RT: 5.336 min Scan# 340
Delta R.T. 0.043 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

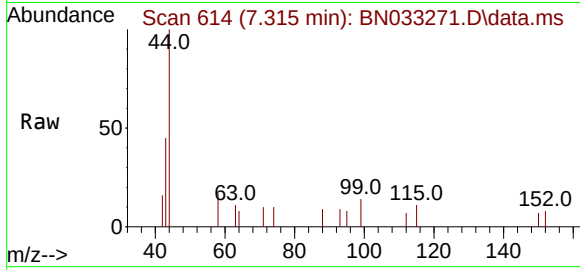
Tgt Ion:112 Resp: 677
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





#5
Phenol-d6
Concen: 0.322 ng m
RT: 7.315 min Scan# 614
Delta R.T. 0.325 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

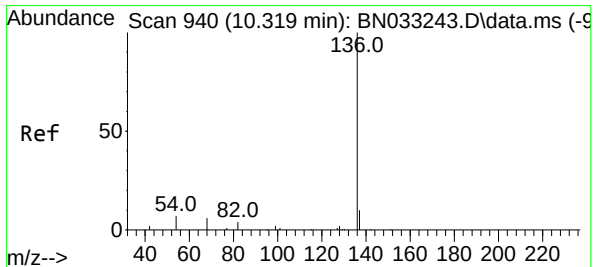
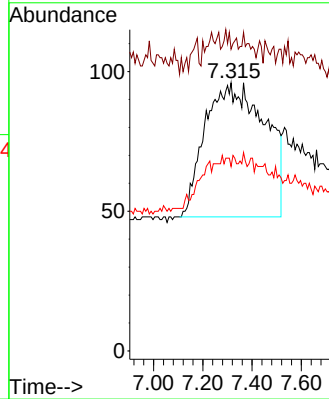
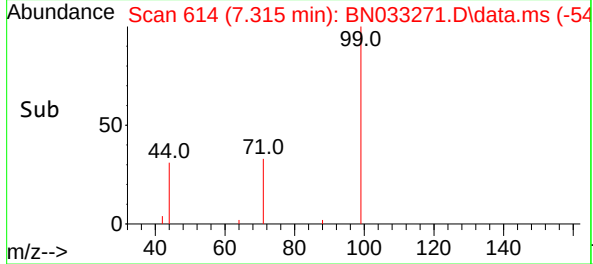
Instrument :
BNA_N
ClientSampleId :
PB162490BL



Tgt Ion: 99 Resp: 800
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 0.0 0.0 0.0

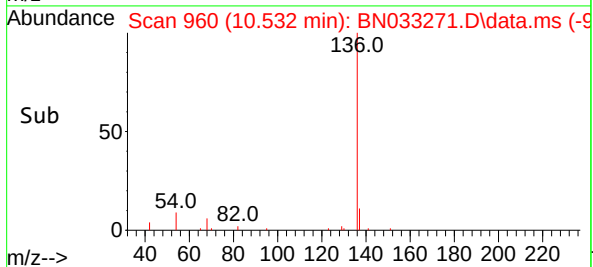
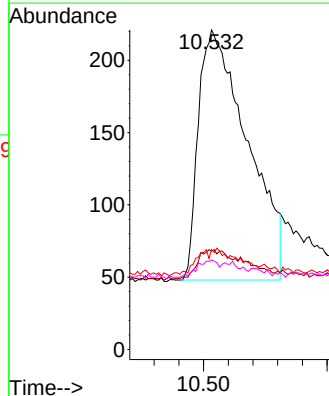
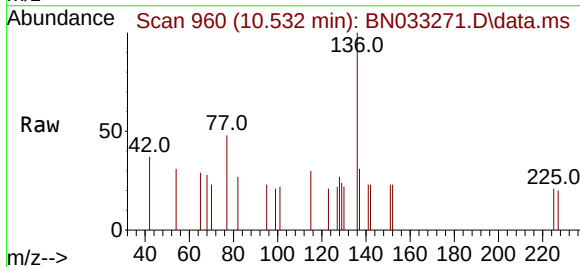
Manual Integrations
APPROVED

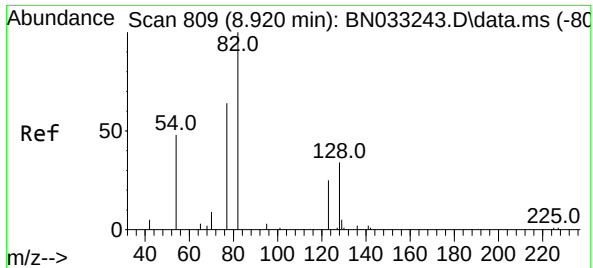
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.213 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

Tgt Ion:136 Resp: 2380
Ion Ratio Lower Upper
136 100
137 30.8 14.1 21.1#
54 31.2 13.8 20.8#
68 28.1 12.4 18.6#





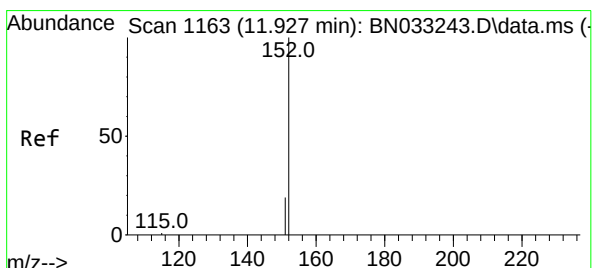
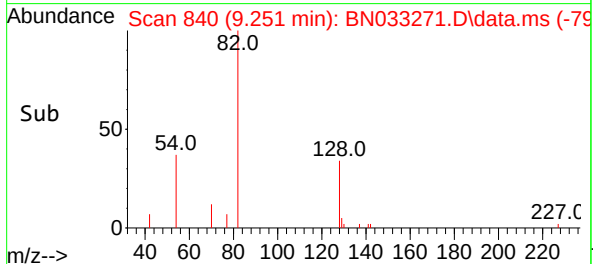
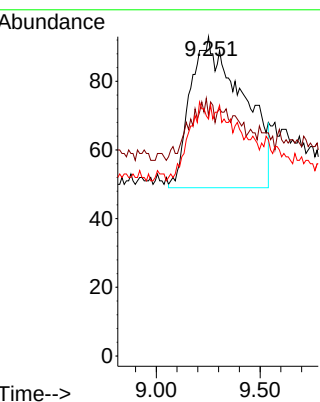
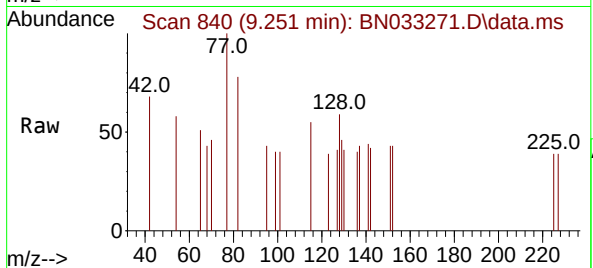
#8
Nitrobenzene-d5
Concen: 0.400 ng m
RT: 9.251 min Scan# 840
Delta R.T. 0.331 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

Instrument :
BNA_N
ClientSampleId :
PB162490BL

Tgt Ion: 82 Resp: 760
Ion Ratio Lower Upper
82 100
128 75.3 54.8 82.2
54 74.2 55.9 83.9

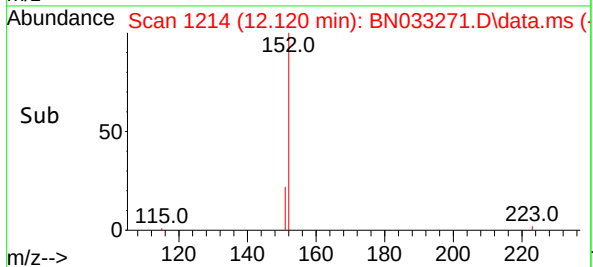
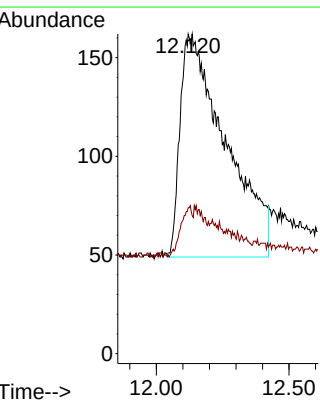
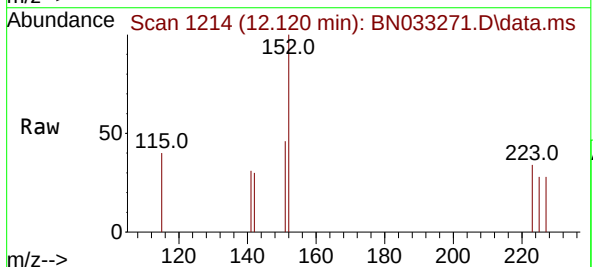
Manual Integrations
APPROVED

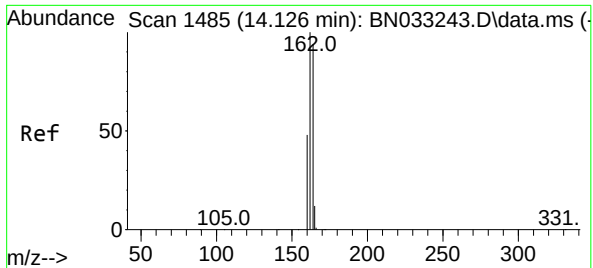
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#11
2-Methylnaphthalene-d10
Concen: 0.380 ng m
RT: 12.120 min Scan# 1214
Delta R.T. 0.193 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

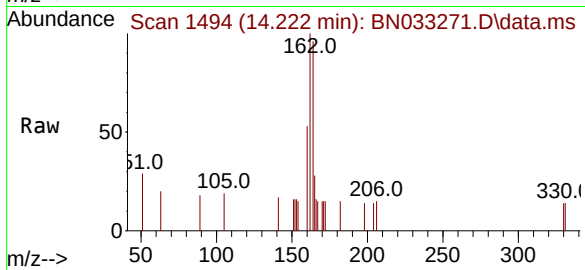
Tgt Ion:152 Resp: 1343
Ion Ratio Lower Upper
152 100
151 6.0 11.9 17.9#





#13
Acenaphthene-d10
Concen: 0.400 ng m
RT: 14.222 min Scan# 1485
Delta R.T. 0.096 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

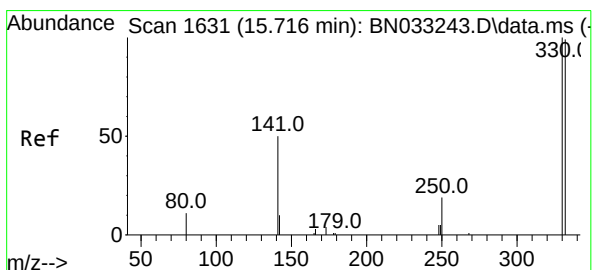
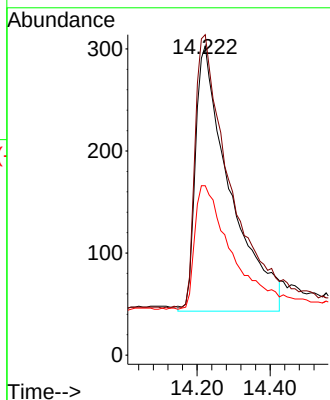
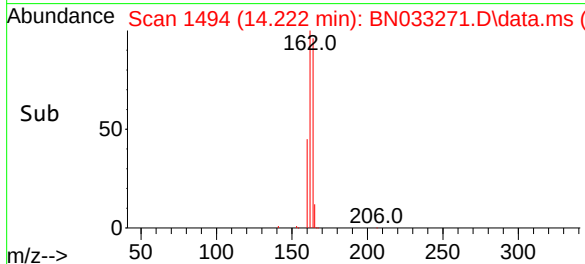
Instrument :
BNA_N
ClientSampleId :
PB162490BL



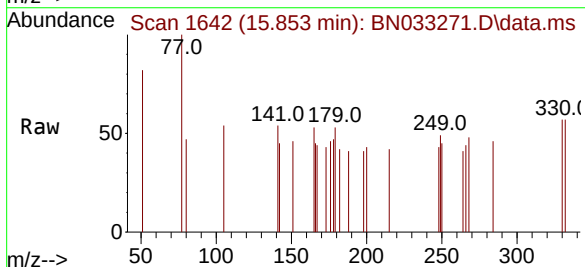
Tgt Ion:164 Resp: 170
Ion Ratio Lower Upper
164 100
162 103.6 84.6 127.0
160 54.8 42.4 63.6

Manual Integrations
APPROVED

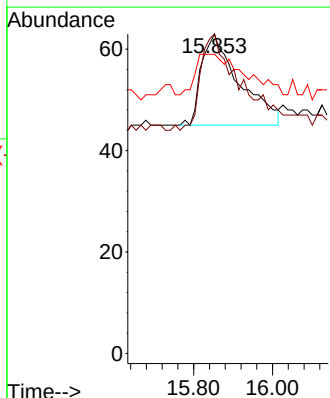
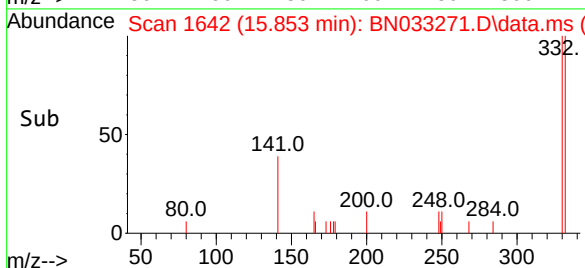
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

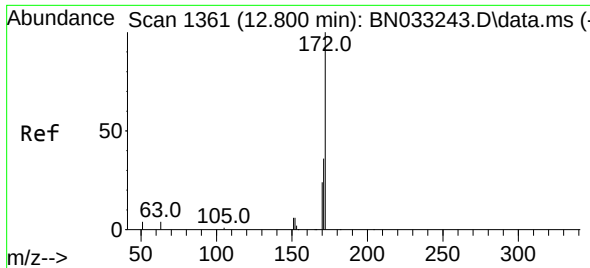


#14
2,4,6-Tribromophenol
Concen: 0.191 ng m
RT: 15.853 min Scan# 1642
Delta R.T. 0.137 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41



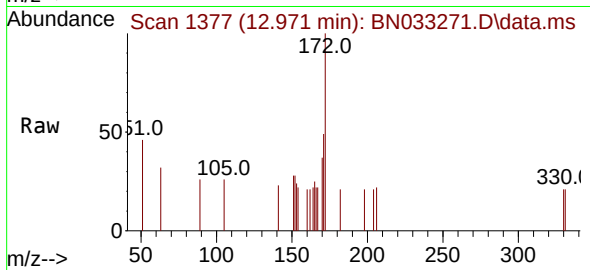
Tgt Ion:330 Resp: 121
Ion Ratio Lower Upper
330 100
332 52.1 73.7 110.5#
141 0.0 44.8 67.2#





#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.971 min Scan# 11
Delta R.T. 0.171 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

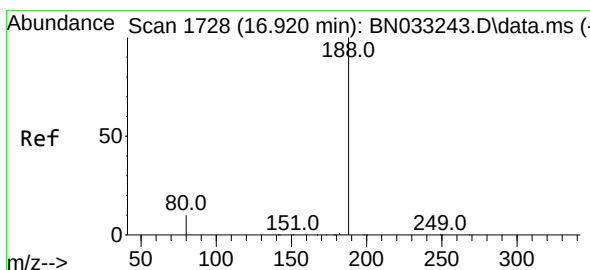
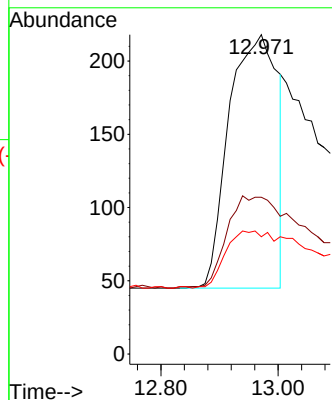
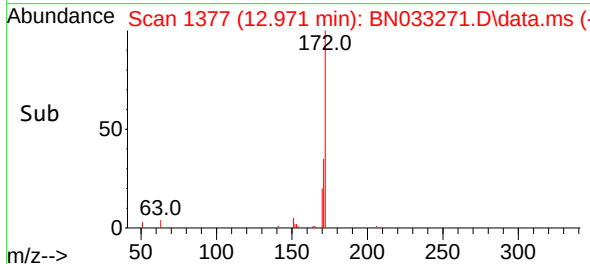
Instrument :
BNA_N
ClientSampleId :
PB162490BL



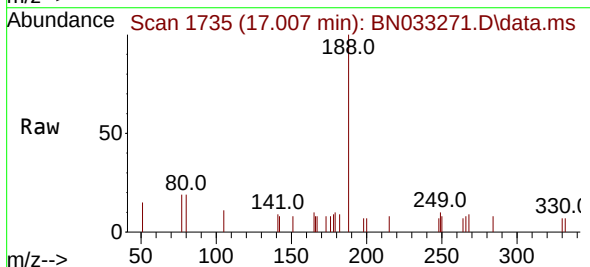
Tgt Ion:172 Resp: 990
Ion Ratio Lower Upper
172 100
171 49.1 32.3 48.5
170 36.7 23.4 35.2

Manual Integrations
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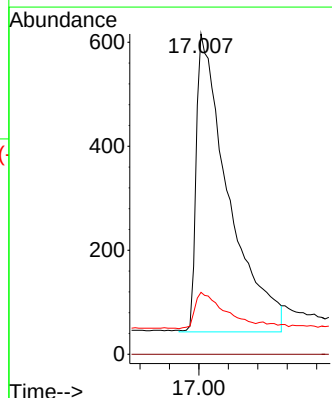
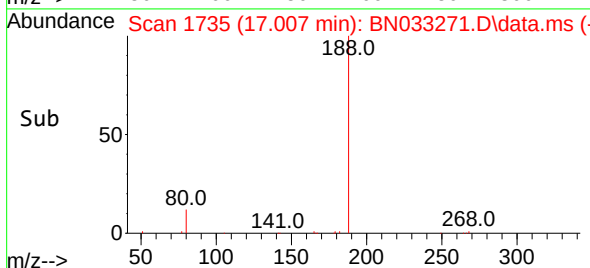
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

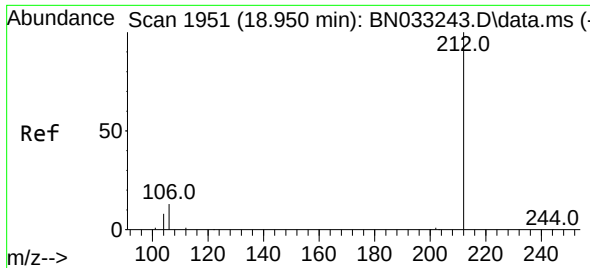


#19
Phenanthrene-d10
Concen: 0.400 ng m
RT: 17.007 min Scan# 1735
Delta R.T. 0.087 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41



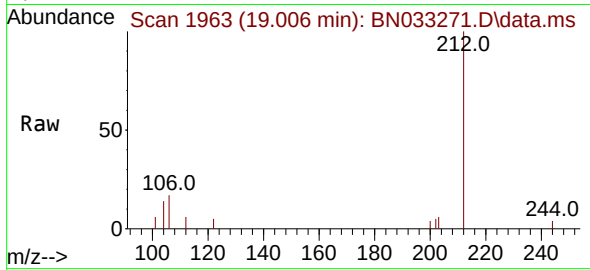
Tgt Ion:188 Resp: 4323
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 19.3 10.2 15.4





#27
Fluoranthene-d10
Concen: 0.375 ng
RT: 19.006 min Scan# 1951
Delta R.T. 0.056 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

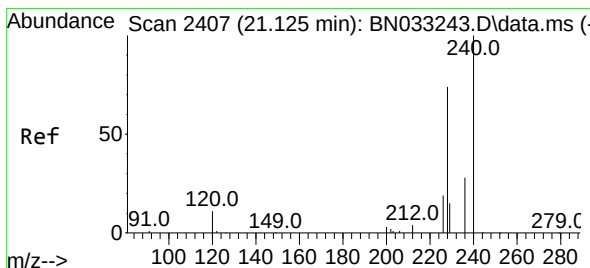
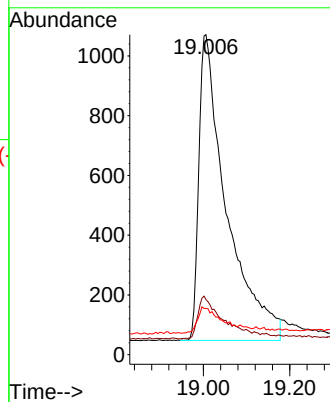
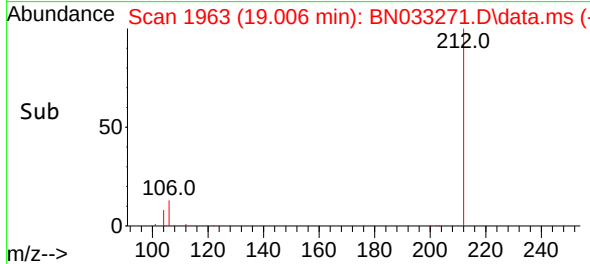
Instrument :
BNA_N
ClientSampleId :
PB162490BL



Tgt Ion:212 Resp: 453
Ion Ratio Lower Upper
212 100
106 12.4 11.4 17.0
104 7.0 7.1 10.7

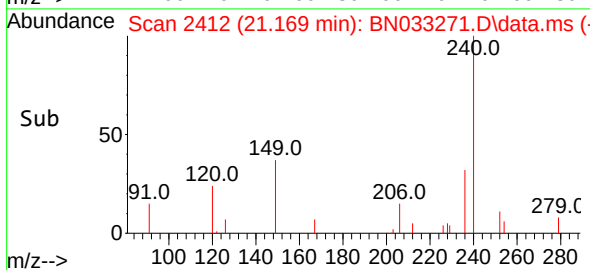
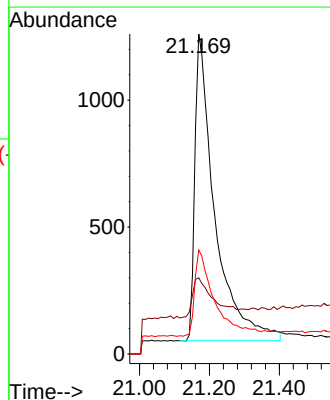
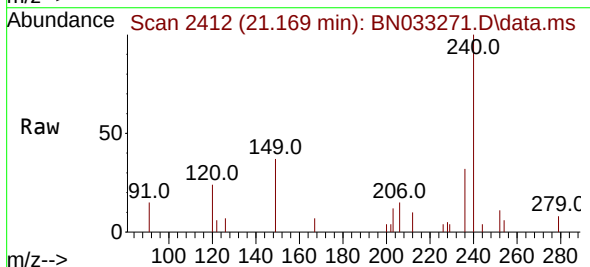
Manual Integrations
APPROVED

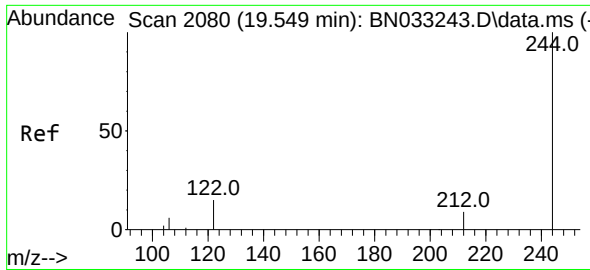
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.169 min Scan# 2412
Delta R.T. 0.044 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

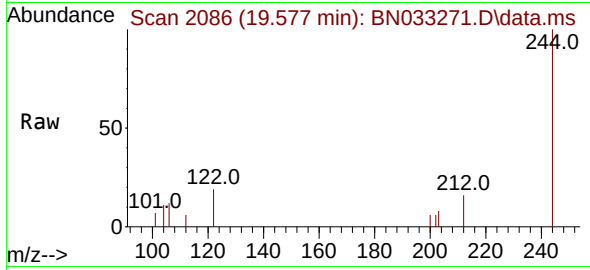
Tgt Ion:240 Resp: 4778
Ion Ratio Lower Upper
240 100
120 23.8 13.3 19.9#
236 32.4 23.8 35.6





#31
Terphenyl-d14
Concen: 0.427 ng
RT: 19.577 min Scan# 2086
Delta R.T. 0.028 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

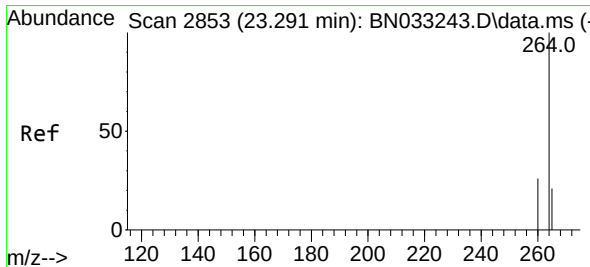
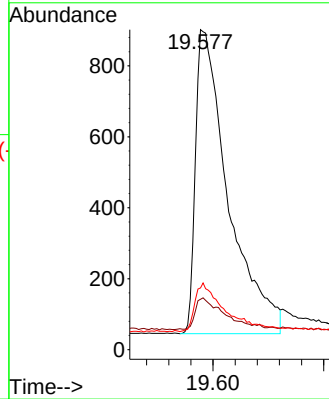
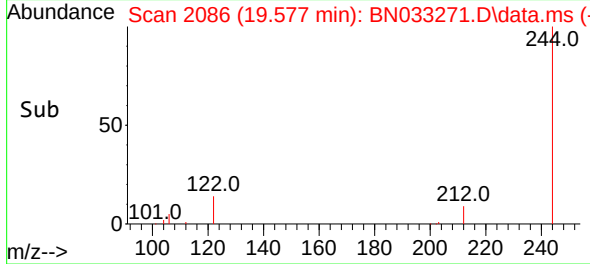
Instrument :
BNA_N
ClientSampleId :
PB162490BL



Tgt Ion:244 Resp: 3528
Ion Ratio Lower Upper
244 100
212 15.7 9.9 14.9
122 19.3 14.1 21.1

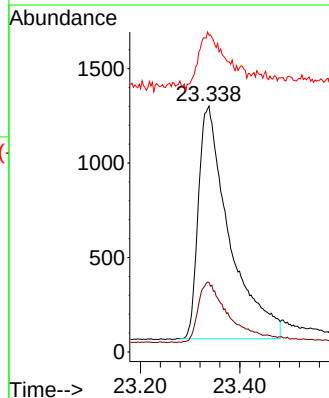
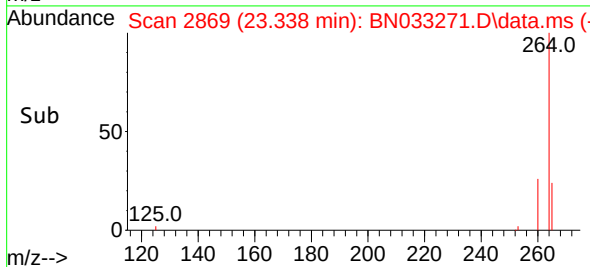
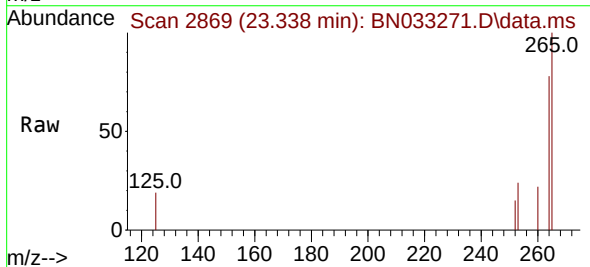
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.338 min Scan# 2869
Delta R.T. 0.047 min
Lab File: BN033271.D
Acq: 06 Aug 2024 13:41

Tgt Ion:264 Resp: 5313
Ion Ratio Lower Upper
264 100
260 28.3 21.4 32.2
265 128.8 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:	PB162490BS	SDG No.:	P3467
Lab Sample ID:	PB162490BS	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
BN033272.D	1	08/05/24 09:05	08/06/24 14:18	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.40		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.33		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.39		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.41		0.020	0.10	ug/L
86-73-7	Fluorene	0.41		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.37		0.020	0.10	ug/L
120-12-7	Anthracene	0.33		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.37		0.020	0.10	ug/L
129-00-0	Pyrene	0.41		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.31		0.020	0.10	ug/L
218-01-9	Chrysene	0.47		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		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	0.39		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.36		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.35		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.40		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		30 (30) - 150 (150)	104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 (30) - 150 (150)	95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (11) - 130 (175)	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (10) - 130 (175)	99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		30 (54) - 130 (171)	102%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	693	7.561			
1146-65-2	Naphthalene-d8	2710	10.34			
15067-26-2	Acenaphthene-d10	1880	14.137			
1517-22-2	Phenanthrene-d10	4490	16.933			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162490BS	SDG No.:	P3467
Lab Sample ID:	PB162490BS	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
BN033272.D	1	08/05/24 09:05	08/06/24 14:18	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	4550	21.143			
1520-96-3	Perylene-d12	5550	23.309			

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\BN080624\
 Data File : BN033272.D
 Acq On : 06 Aug 2024 14:18
 Operator : MA/JU
 Sample : PB162490BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB162490BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024

Quant Time: Aug 06 15:01:38 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	7.561	152	693m	0.400	ng	0.05
7) Naphthalene-d8	10.340	136	2705	0.400	ng	# 0.02
13) Acenaphthene-d10	14.137	164	1884	0.400	ng	0.01
19) Phenanthrene-d10	16.933	188	4489	0.400	ng	0.01
29) Chrysene-d12	21.143	240	4554	0.400	ng	0.02
35) Perylene-d12	23.309	264	5551	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.408	112	784m	0.457	ng	0.12
5) Phenol-d6	7.062	99	1023m	0.434	ng	0.07
8) Nitrobenzene-d5	8.974	82	753	0.346	ng	0.05
11) 2-Methylnaphthalene-d10	11.958	152	1671m	0.416	ng	0.03
14) 2,4,6-Tribromophenol	15.729	330	284	0.404	ng	0.01
15) 2-Fluorobiphenyl	12.822	172	2559	0.397	ng	0.02
27) Fluoranthene-d10	18.964	212	4798	0.382	ng	0.01
31) Terphenyl-d14	19.568	244	3211	0.408	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.047	88	491	0.404	ng	# 85
3) n-Nitrosodimethylamine	3.516	42	223	0.264	ng	# 84
6) bis(2-Chloroethyl)ether	7.106	93	1448m	0.729	ng	
9) Naphthalene	10.394	128	2960	0.403	ng	95
10) Hexachlorobutadiene	10.511	225	612	0.449	ng	# 98
12) 2-Methylnaphthalene	12.033	142	1442	0.329	ng	97
16) Acenaphthylene	13.880	152	2891	0.385	ng	99
17) Acenaphthene	14.201	154	2221	0.409	ng	99
18) Fluorene	15.227	166	2997	0.408	ng	100
20) 4,6-Dinitro-2-methylph...	15.642	198	136	0.408	ng	# 62
21) 4-Bromophenyl-phenylether	16.126	248	927	0.389	ng	96
22) Hexachlorobenzene	16.200	284	1002	0.403	ng	94
23) Atrazine	16.424	200	829	0.370	ng	95
24) Pentachlorophenol	16.660	266	269	0.323	ng	# 91
25) Phenanthrene	16.970	178	4508	0.373	ng	100
26) Anthracene	17.106	178	3337	0.330	ng	# 84
28) Fluoranthene	19.001	202	6191	0.374	ng	99
30) Pyrene	19.364	202	6590	0.414	ng	100
32) Benzo(a)anthracene	21.134	228	4122	0.314	ng	98
33) Chrysene	21.178	228	8246	0.468	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	1649	0.523	ng	# 80
36) Indeno(1,2,3-cd)pyrene	25.510	276	8972	0.358	ng	97
37) Benzo(b)fluoranthene	22.663	252	6052	0.359	ng	98
38) Benzo(k)fluoranthene	22.704	252	8359	0.397	ng	97
39) Benzo(a)pyrene	23.233	252	6568	0.388	ng	96
40) Dibenzo(a,h)anthracene	25.513	278	6992	0.353	ng	94
41) Benzo(g,h,i)perylene	26.168	276	8469	0.373	ng	98

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

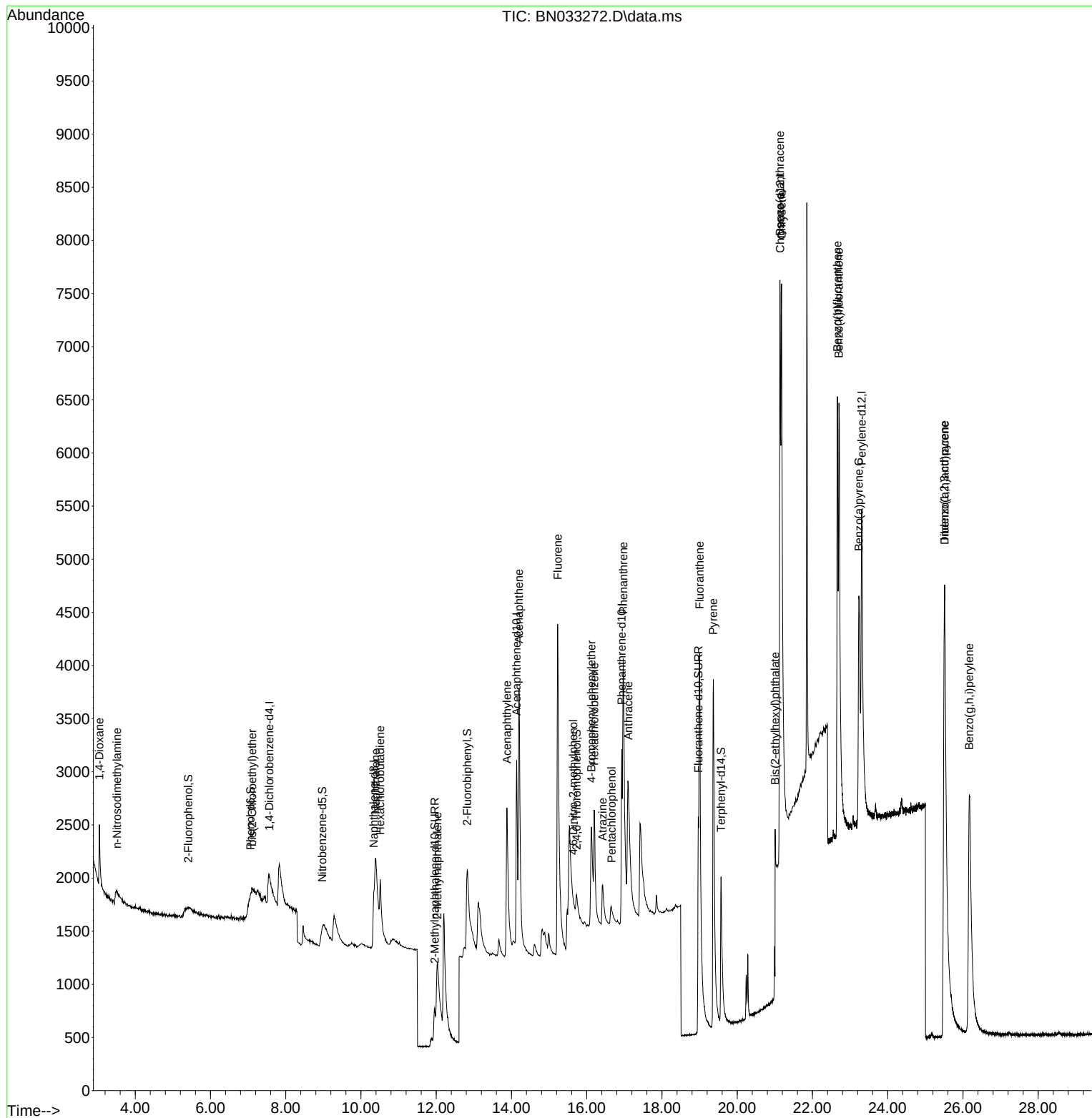
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 Data File : BN033272.D
 Acq On : 06 Aug 2024 14:18
 Operator : MA/JU
 Sample : PB162490BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

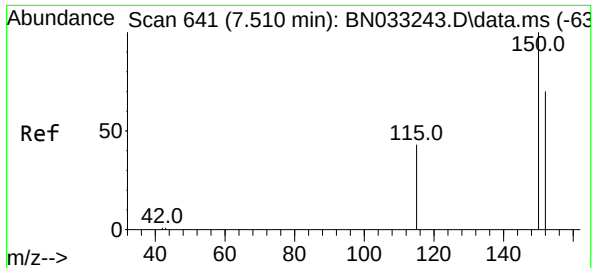
Instrument :
 BNA_N
 ClientSampleId :
 PB162490BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/07/2024
 Supervised By :mohammad ahmed 08/08/2024

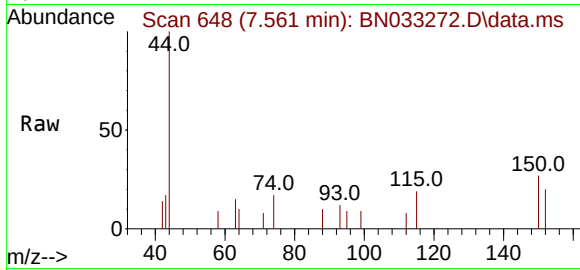
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN080524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 05 23:57:48 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.561 min Scan# 64
Delta R.T. 0.051 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

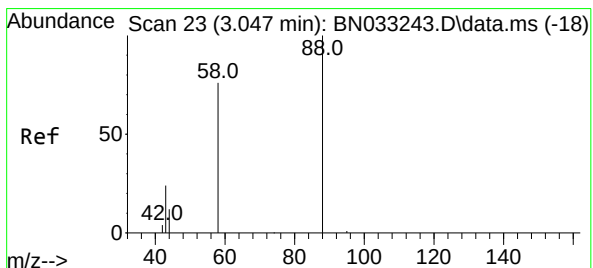
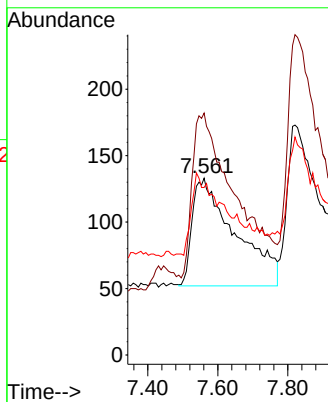
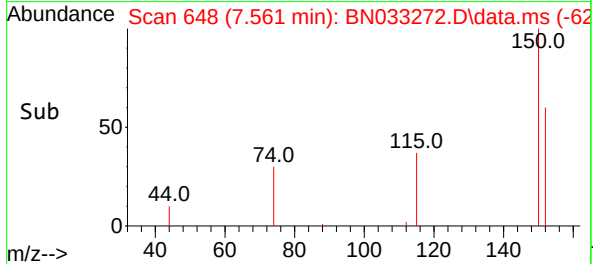
Instrument :
BNA_N
ClientSampleId :
PB162490BS



Tgt Ion: 152 Resp: 69
Ion Ratio Lower Upper
152 100
150 136.8 108.2 162.2
115 94.7 70.5 105.7

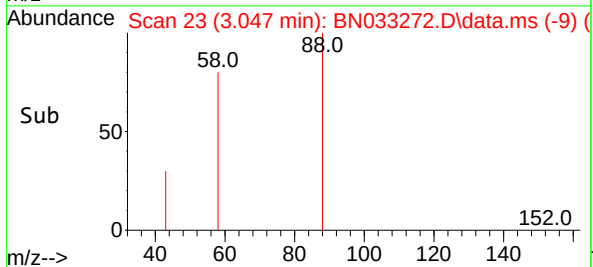
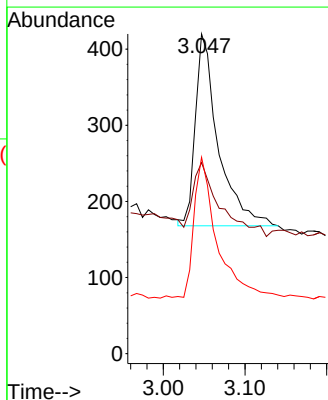
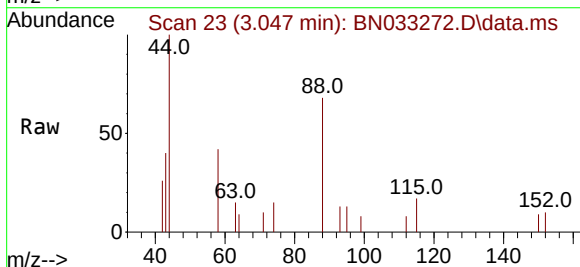
Manual Integrations
APPROVED

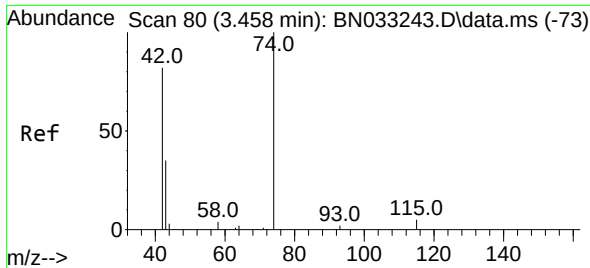
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

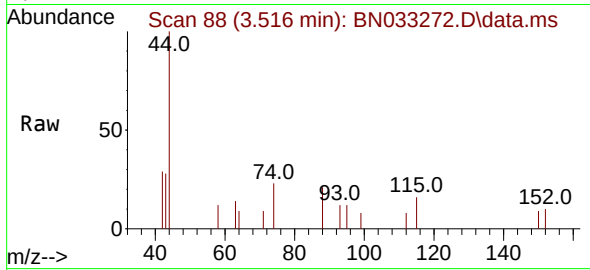
Tgt Ion: 88 Resp: 491
Ion Ratio Lower Upper
88 100
43 45.4 18.6 28.0#
58 72.3 54.5 81.7





#3
n-Nitrosodimethylamine
Concen: 0.264 ng
RT: 3.516 min Scan# 80
Delta R.T. 0.058 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

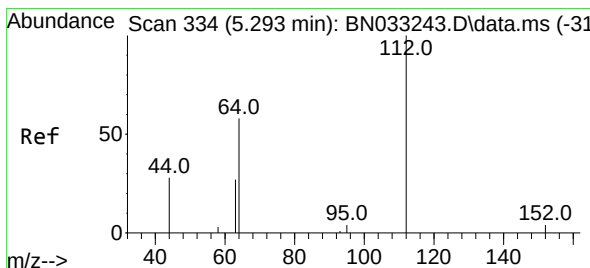
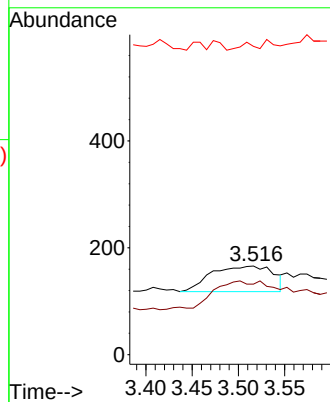
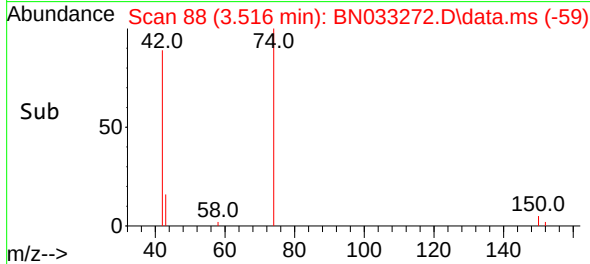
Instrument :
BNA_N
ClientSampleId :
PB162490BS



Tgt Ion: 42 Resp: 22
Ion Ratio Lower Upper
42 100
74 0.0 0.0 0.0
44 5.8 9.6 14.4

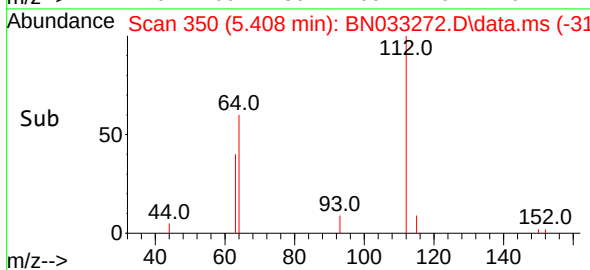
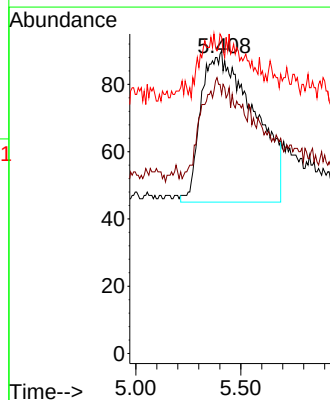
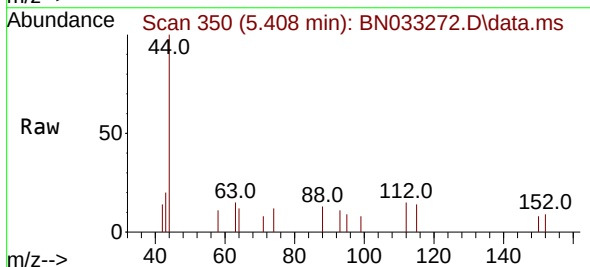
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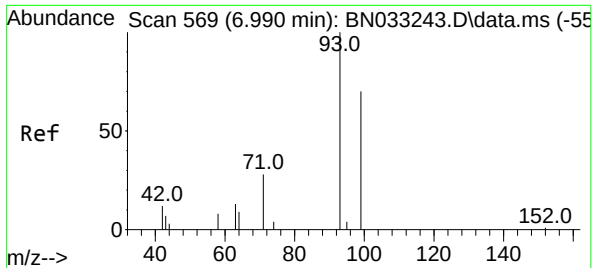
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#4
2-Fluorophenol
Concen: 0.457 ng m
RT: 5.408 min Scan# 350
Delta R.T. 0.115 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Tgt Ion:112 Resp: 784
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 1.0 0.0 0.0#





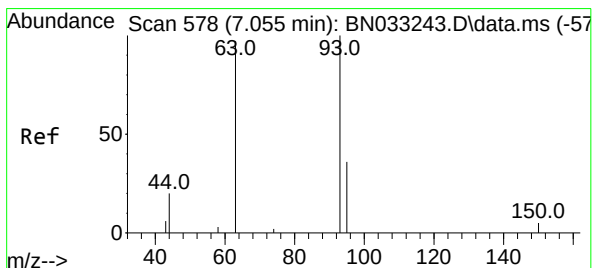
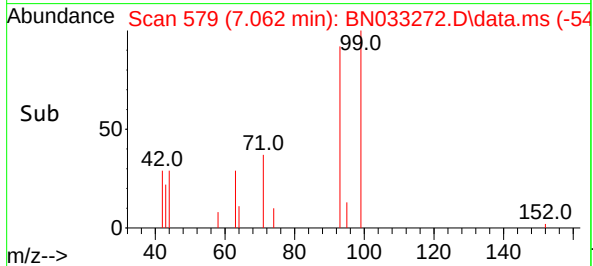
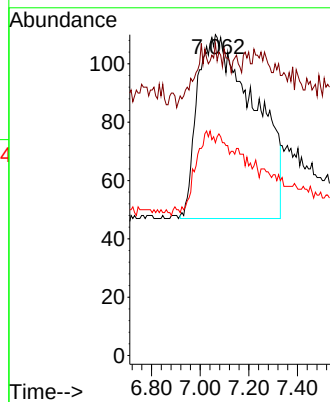
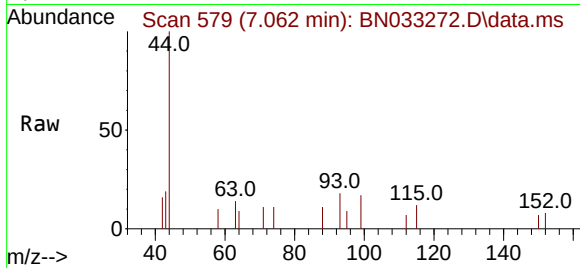
#5
Phenol-d6
Concen: 0.434 ng m
RT: 7.062 min Scan# 51
Delta R.T. 0.072 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :
BNA_N
ClientSampleId :
PB162490BS

Tgt Ion: 99 Resp: 102
Ion Ratio Lower Upper
99 100
42 0.0 0.0 0.0
71 0.0 0.0 0.0

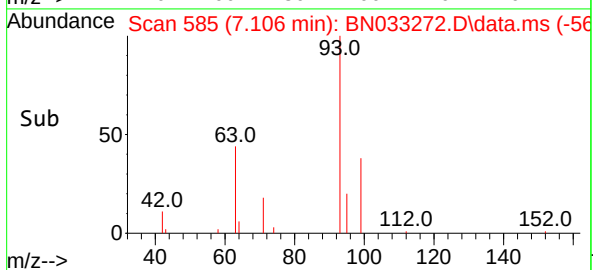
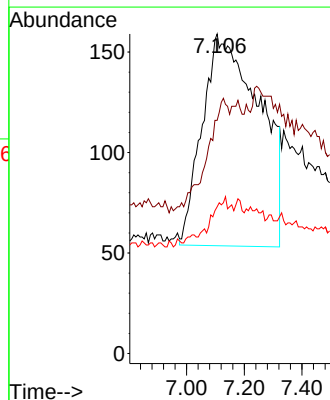
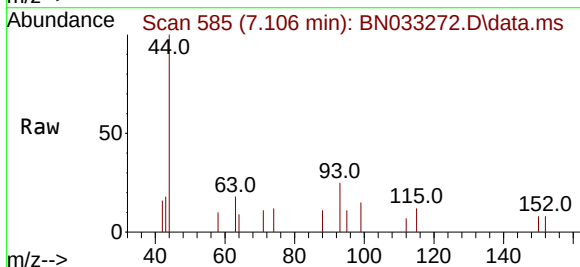
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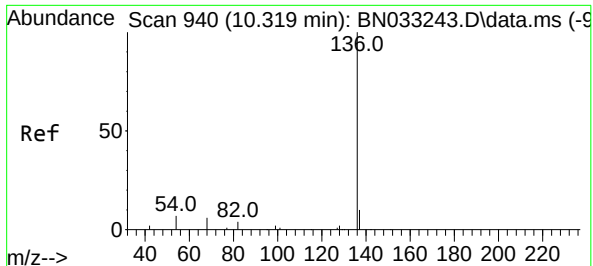
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.729 ng m
RT: 7.106 min Scan# 585
Delta R.T. 0.051 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

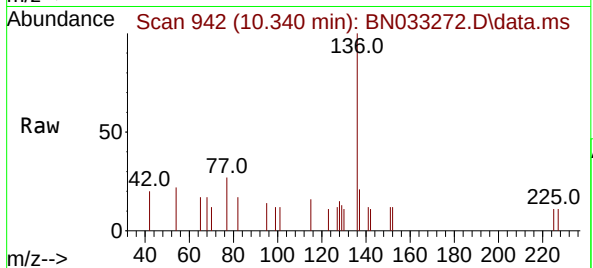
Tgt Ion: 93 Resp: 1448
Ion Ratio Lower Upper
93 100
63 0.0 1.1 1.7#
95 0.0 0.0 0.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 940
Delta R.T. 0.021 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :
BNA_N
ClientSampleId :
PB162490BS

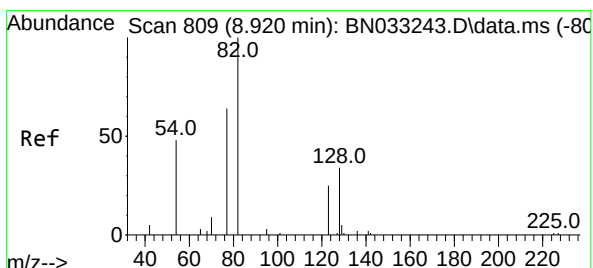
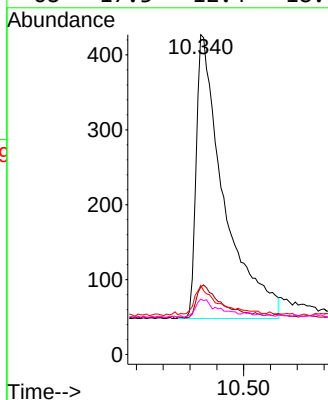
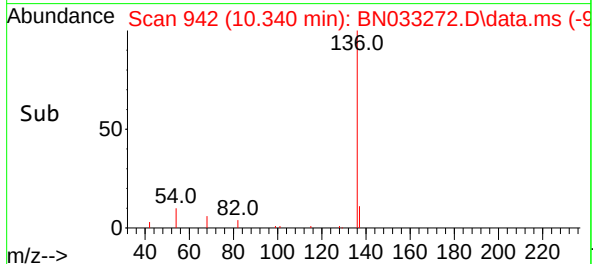


Tgt Ion: 136 Resp: 270

Ion	Ratio	Lower	Upper
136	100		
137	21.1	14.1	21.1
54	21.5	13.8	20.8
68	17.3	12.4	18.6

Manual Integrations
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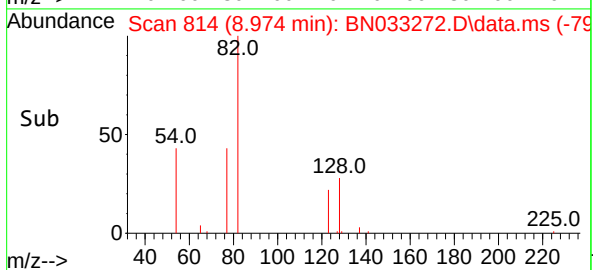
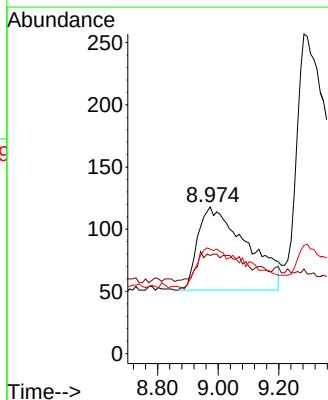
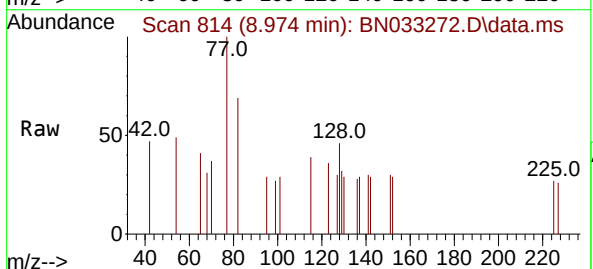
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

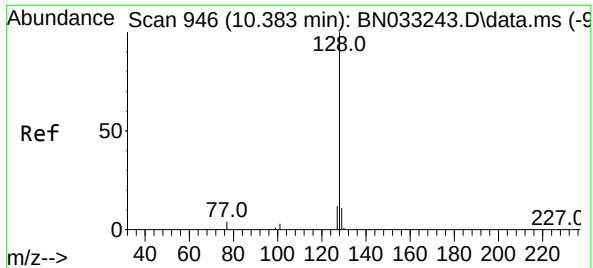


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.974 min Scan# 814
Delta R.T. 0.054 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Tgt Ion: 82 Resp: 753

Ion	Ratio	Lower	Upper
82	100		
128	66.9	54.8	82.2
54	71.2	55.9	83.9





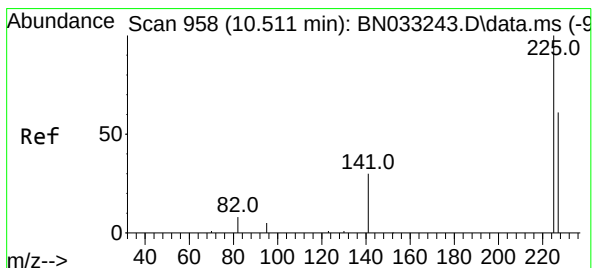
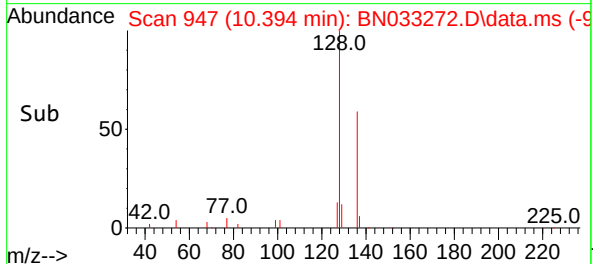
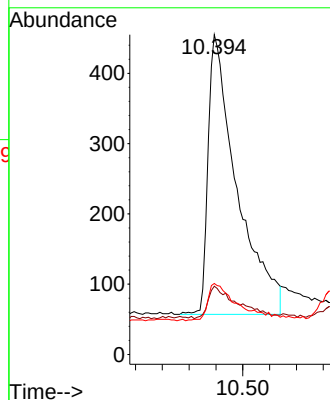
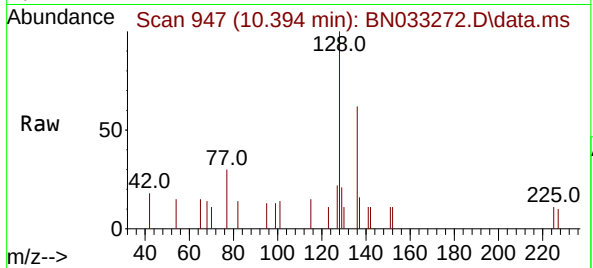
#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :
BNA_N
ClientSampleId :
PB162490BS

Tgt Ion:128 Resp: 2960
Ion Ratio Lower Upper
128 100
129 21.3 15.4 23.0
127 22.2 15.8 23.6

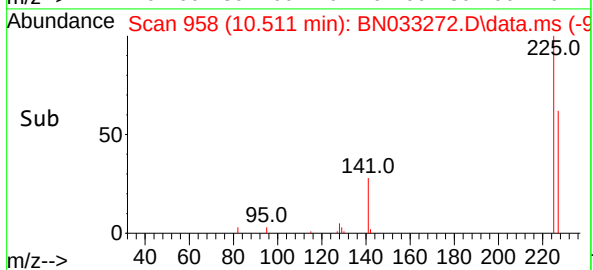
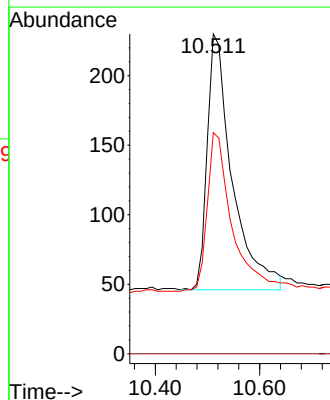
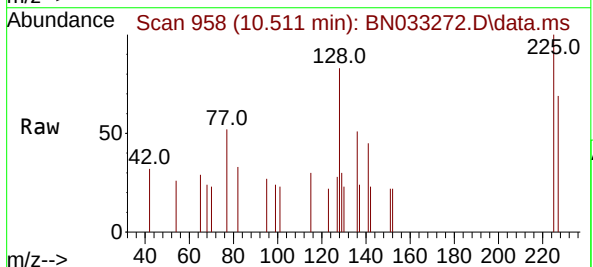
Manual Integrations
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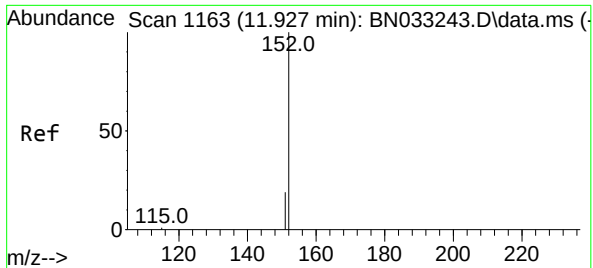
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#10
Hexachlorobutadiene
Concen: 0.449 ng
RT: 10.511 min Scan# 958
Delta R.T. 0.000 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

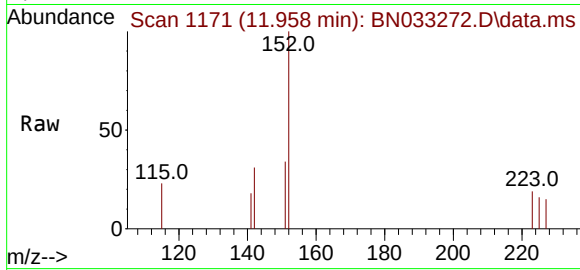
Tgt Ion:225 Resp: 612
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.3 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.416 ng m
RT: 11.958 min Scan# 1163
Delta R.T. 0.031 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

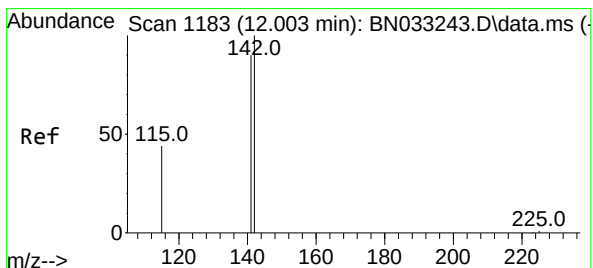
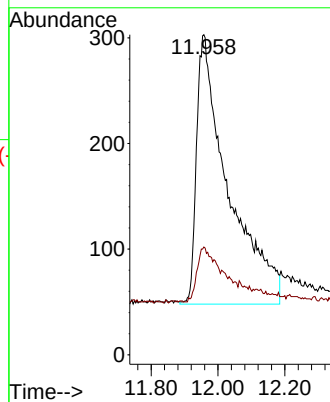
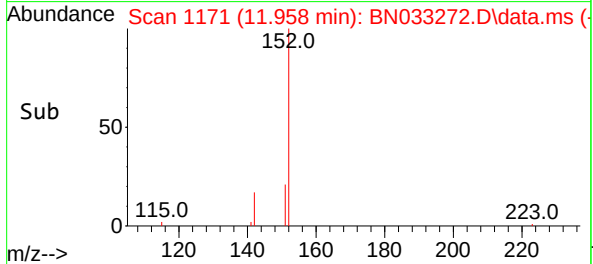
Instrument :
BNA_N
ClientSampleId :
PB162490BS



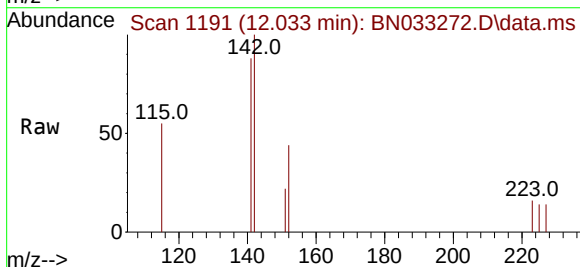
Tgt Ion:152 Resp: 167
Ion Ratio Lower Upper
152 100
151 11.7 11.9 17.9

Manual Integrations
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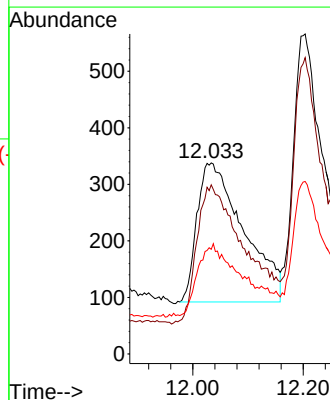
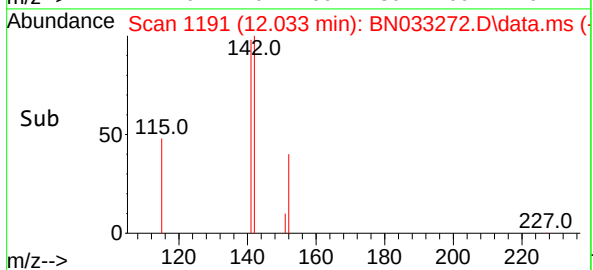
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

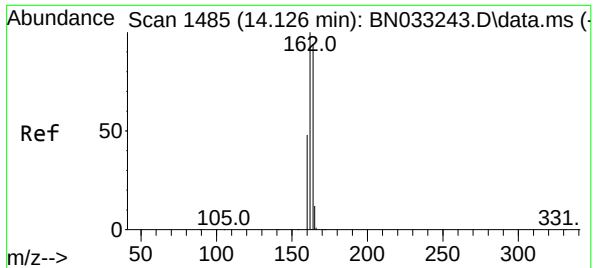


#12
2-Methylnaphthalene
Concen: 0.329 ng
RT: 12.033 min Scan# 1191
Delta R.T. 0.030 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



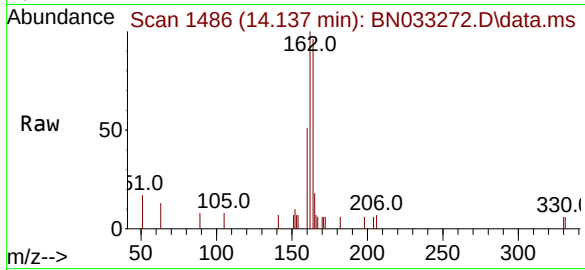
Tgt Ion:142 Resp: 1442
Ion Ratio Lower Upper
142 100
141 88.5 68.7 103.1
115 54.7 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.011 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

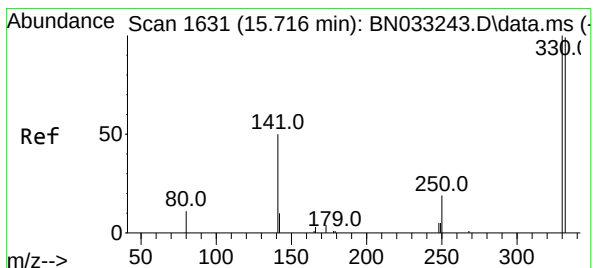
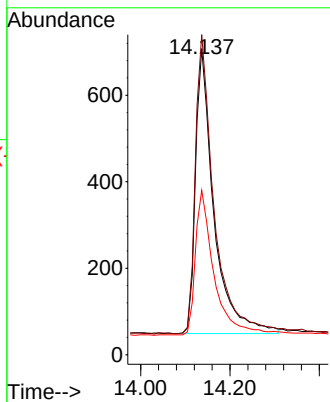
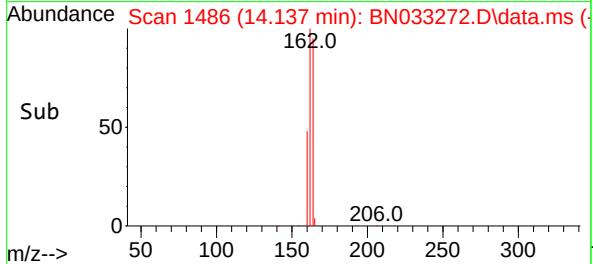
Instrument :
BNA_N
ClientSampleId :
PB162490BS



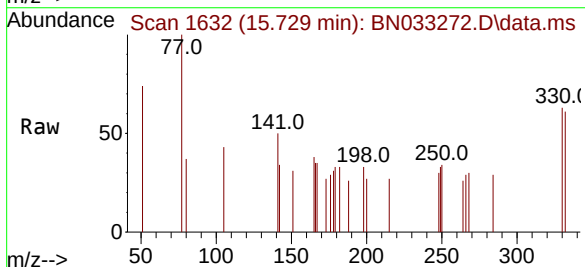
Tgt Ion:164 Resp: 1884
Ion Ratio Lower Upper
164 100
162 104.5 84.6 127.0
160 53.7 42.4 63.6

Manual Integrations
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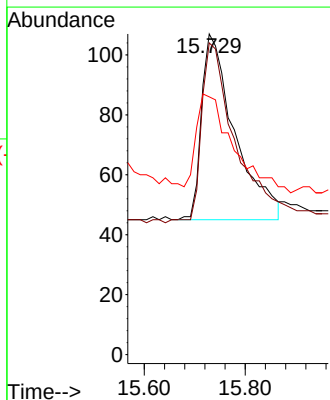
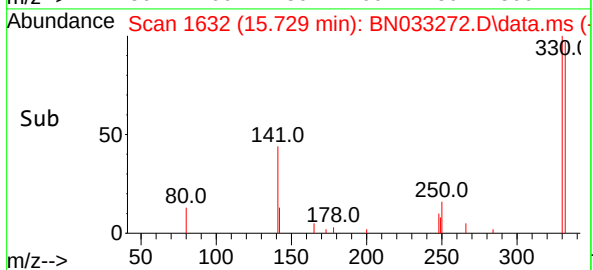
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

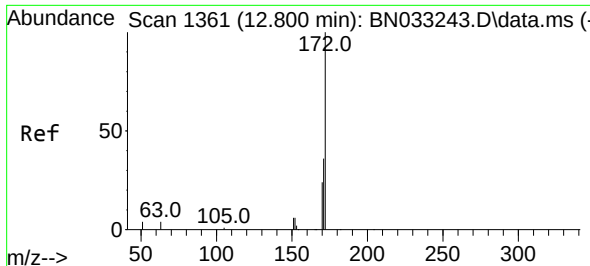


#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.729 min Scan# 1632
Delta R.T. 0.013 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



Tgt Ion:330 Resp: 284
Ion Ratio Lower Upper
330 100
332 94.7 73.7 110.5
141 50.7 44.8 67.2





#15

2-Fluorobiphenyl

Concen: 0.397 ng

RT: 12.822 min Scan# 11

Delta R.T. 0.022 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

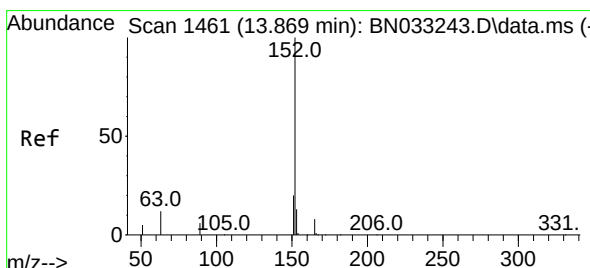
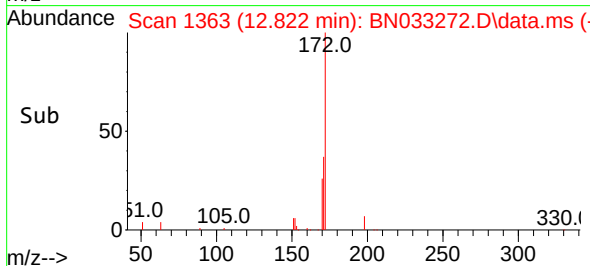
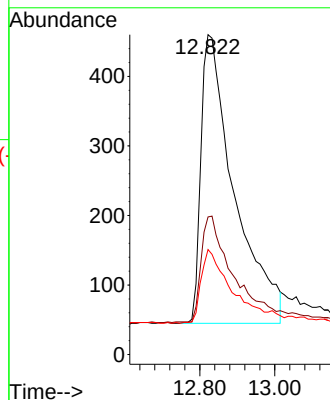
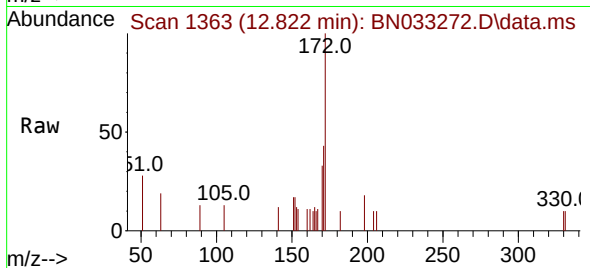
PB162490BS

Tgt Ion:	172	Resp:	255
Ion	Ratio	Lower	Upper
172	100		
171	43.0	32.3	48.5
170	32.8	23.4	35.2

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Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#16

Acenaphthylene

Concen: 0.385 ng

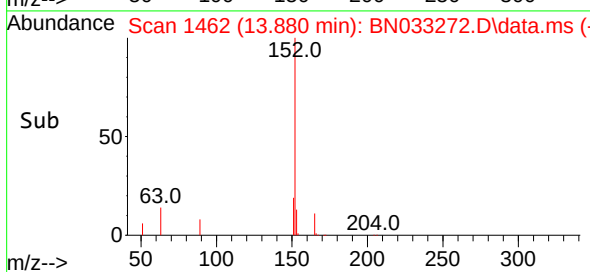
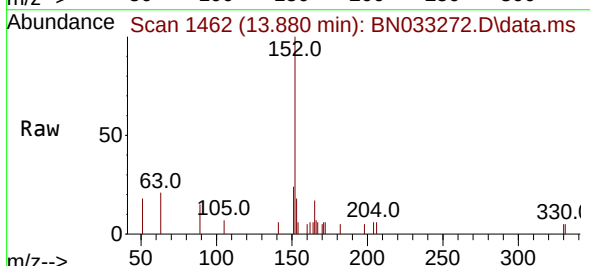
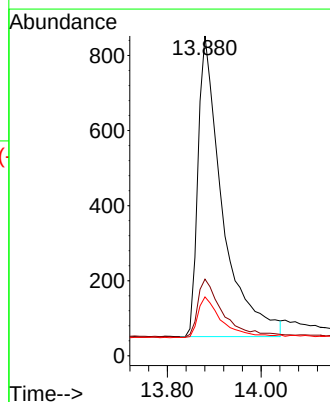
RT: 13.880 min Scan# 1462

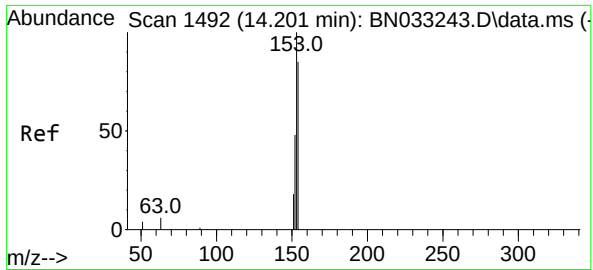
Delta R.T. 0.011 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

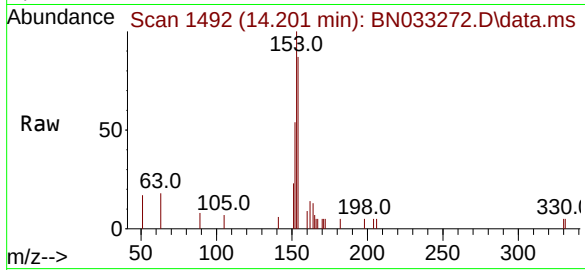
Tgt Ion:	152	Resp:	2891
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.1	24.1
153	13.5	10.2	15.2





#17
Acenaphthene
Concen: 0.409 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.000 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

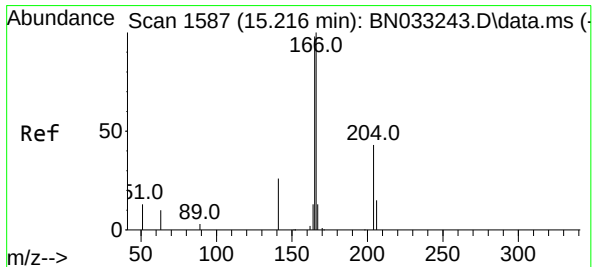
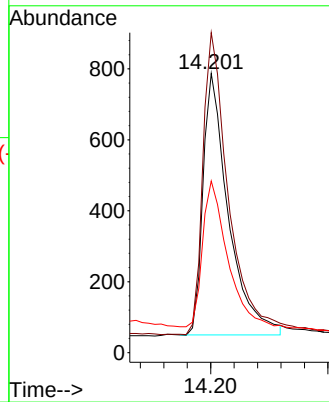
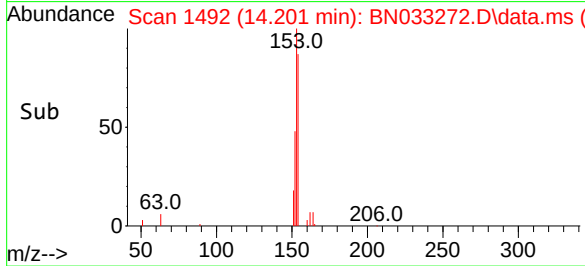
Instrument :
BNA_N
ClientSampleId :
PB162490BS



Tgt Ion:154 Resp: 222
Ion Ratio Lower Upper
154 100
153 116.2 92.7 139.1
152 54.1 44.0 66.0

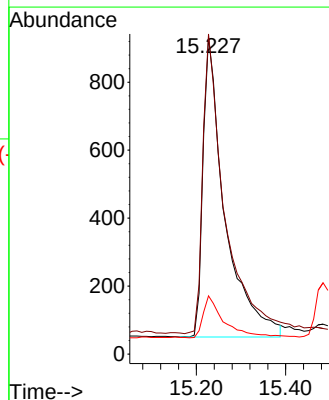
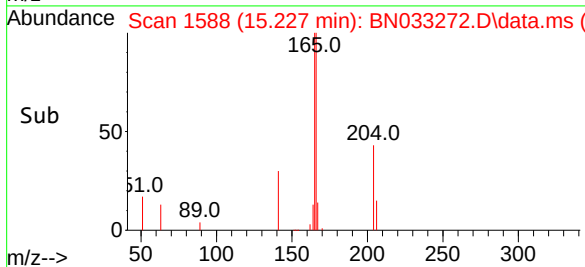
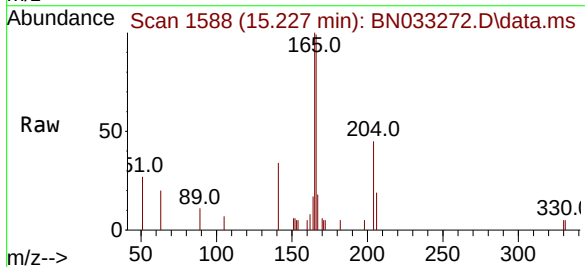
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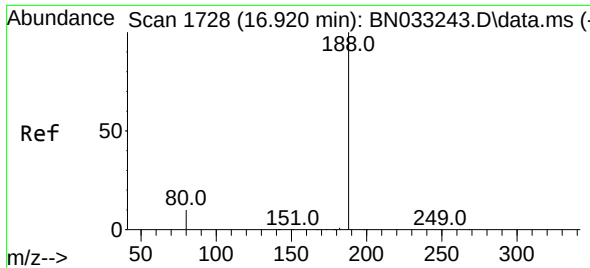
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#18
Fluorene
Concen: 0.408 ng
RT: 15.227 min Scan# 1588
Delta R.T. 0.011 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Tgt Ion:166 Resp: 2997
Ion Ratio Lower Upper
166 100
165 99.8 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

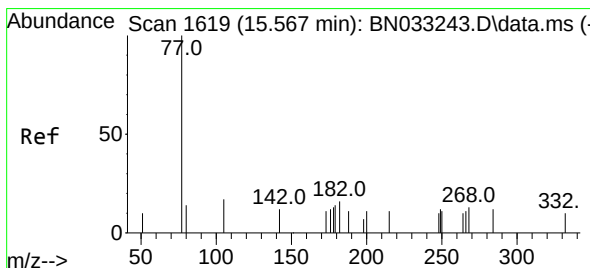
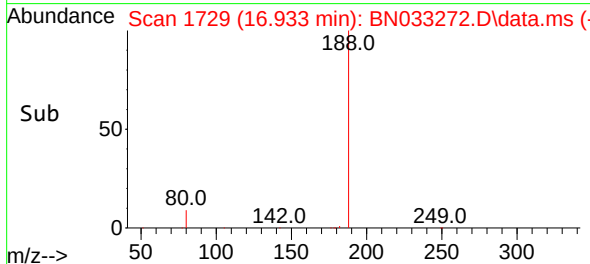
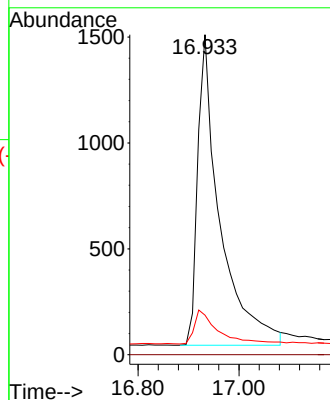
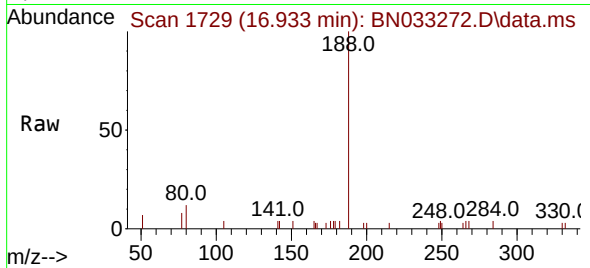
PB162490BS

Tgt Ion:188	Resp:	4489
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.4	15.4

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Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.408 ng

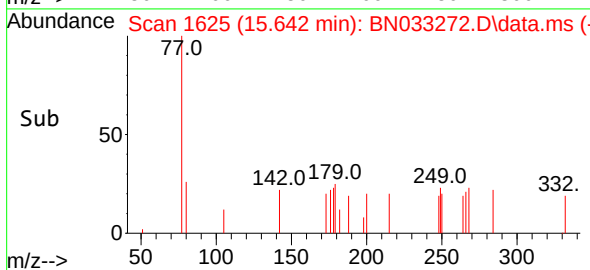
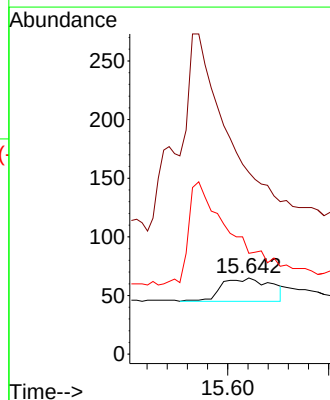
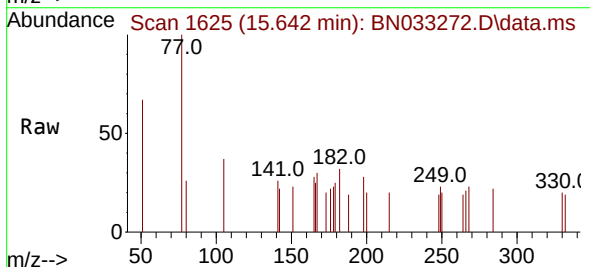
RT: 15.642 min Scan# 1625

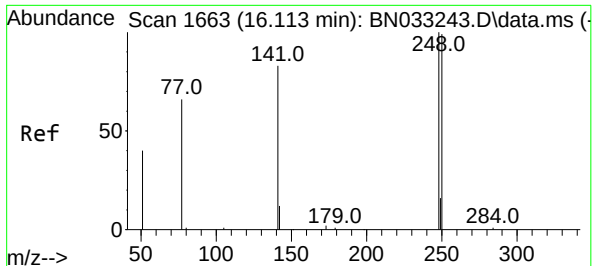
Delta R.T. 0.075 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Tgt Ion:198	Resp:	136
Ion Ratio	Lower	Upper
198	100	
51	238.5	250.6
105	132.3	152.6





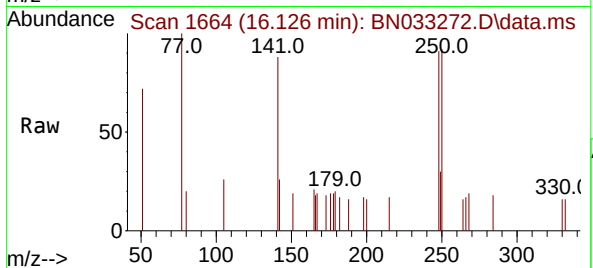
#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.126 min Scan# 1664
Delta R.T. 0.013 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

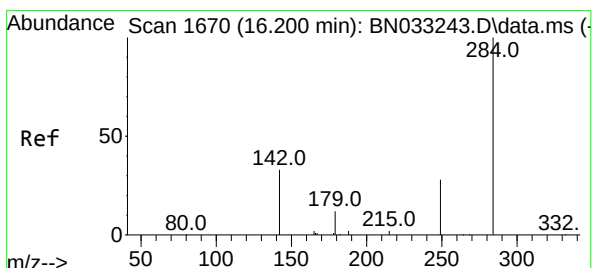
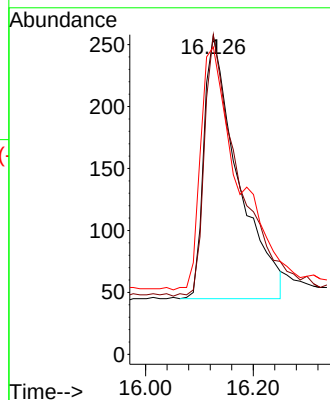
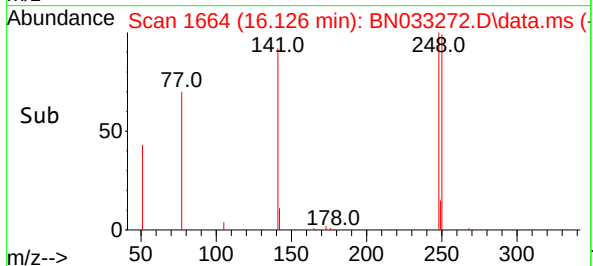
PB162490BS



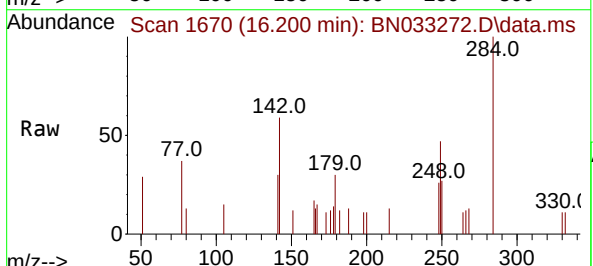
Tgt Ion:248 Resp: 92
Ion Ratio Lower Upper
248 100
250 100.4 80.0 120.0
141 96.5 71.0 106.6

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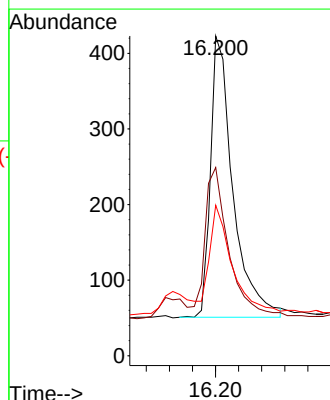
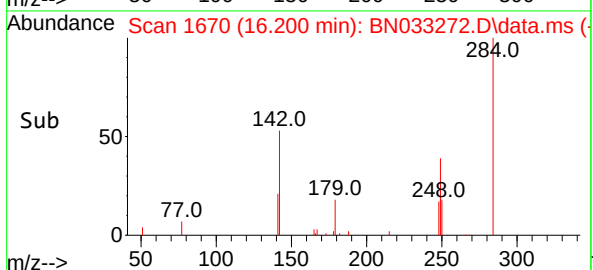
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

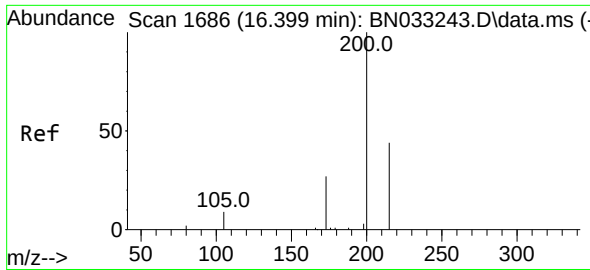


#22
Hexachlorobenzene
Concen: 0.403 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



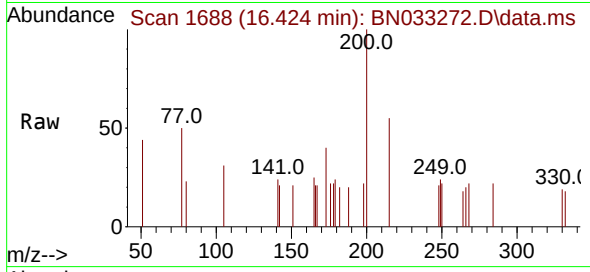
Tgt Ion:284 Resp: 1002
Ion Ratio Lower Upper
284 100
142 52.8 38.8 58.2
249 37.4 27.8 41.6





#23
Atrazine
Concen: 0.370 ng
RT: 16.424 min Scan# 1688
Delta R.T. 0.025 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

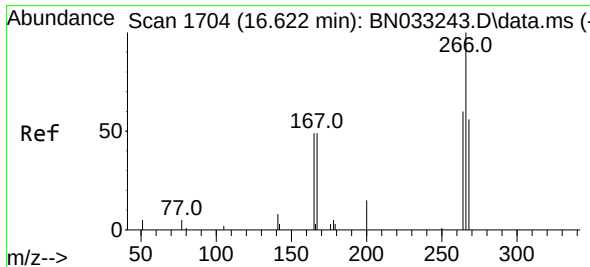
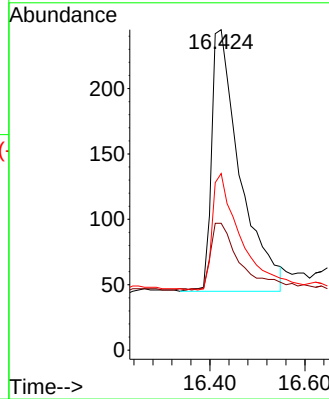
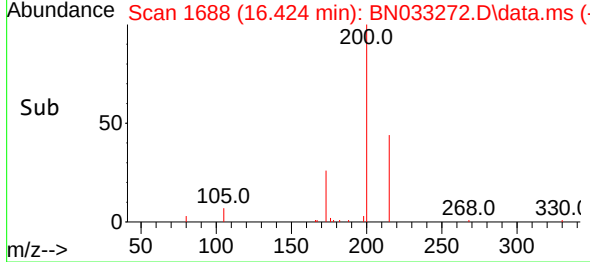
Instrument :
BNA_N
ClientSampleId :
PB162490BS



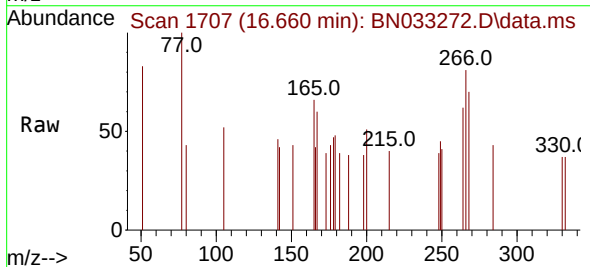
Tgt Ion:200 Resp: 829
Ion Ratio Lower Upper
200 100
173 39.6 29.2 43.8
215 55.1 41.5 62.3

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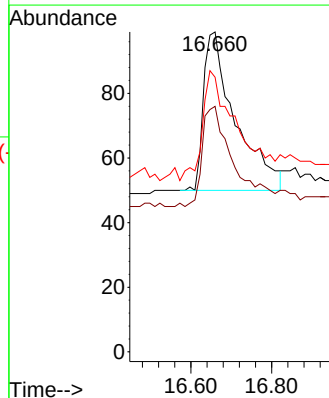
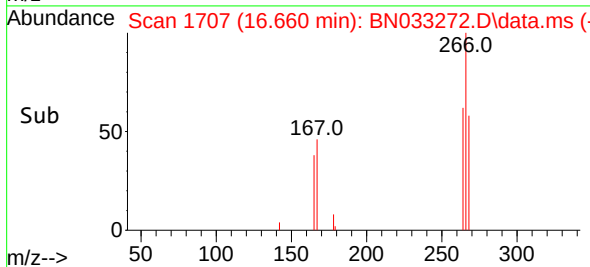
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

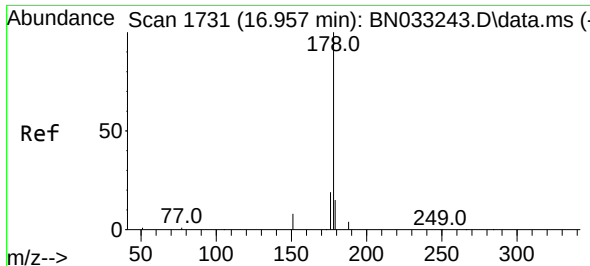


#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.660 min Scan# 1707
Delta R.T. 0.038 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



Tgt Ion:266 Resp: 269
Ion Ratio Lower Upper
266 100
264 63.2 49.3 73.9
268 75.5 50.2 75.2#





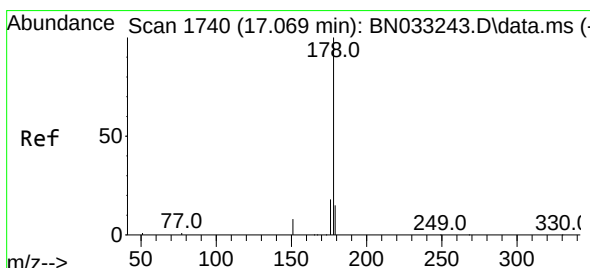
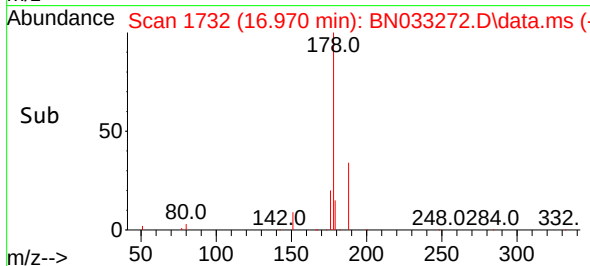
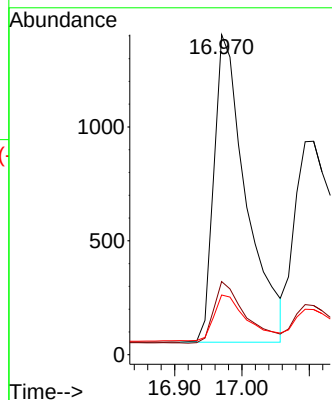
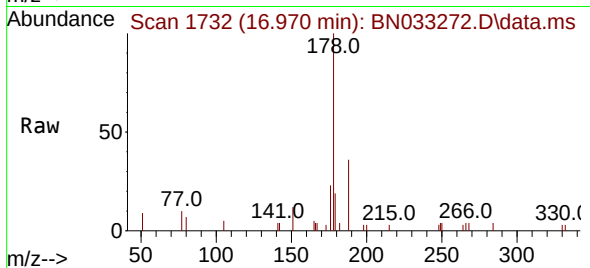
#25
Phenanthrene
Concen: 0.373 ng
RT: 16.970 min Scan# 1731
Delta R.T. 0.013 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :
BNA_N
ClientSampleId :
PB162490BS

Tgt Ion:178 Resp: 4500
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.4 12.4 18.6

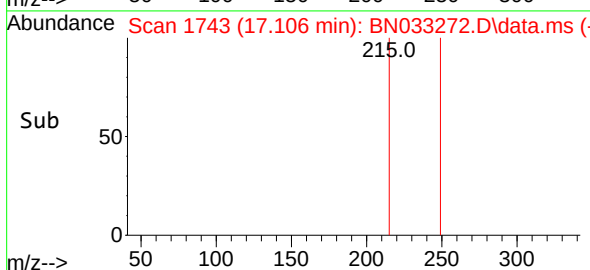
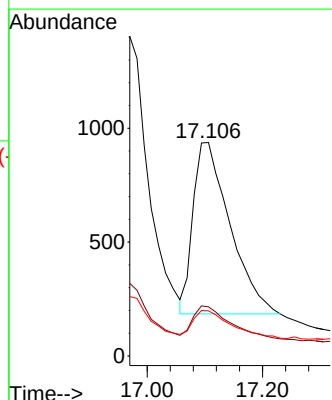
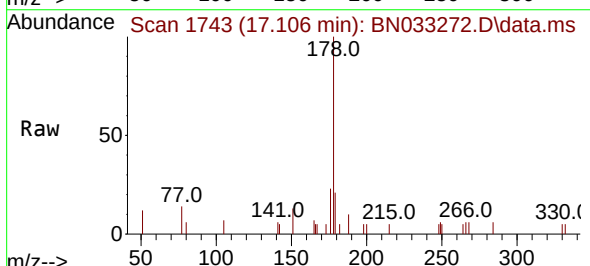
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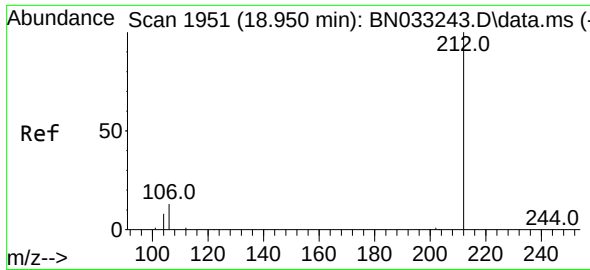
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#26
Anthracene
Concen: 0.330 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.037 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

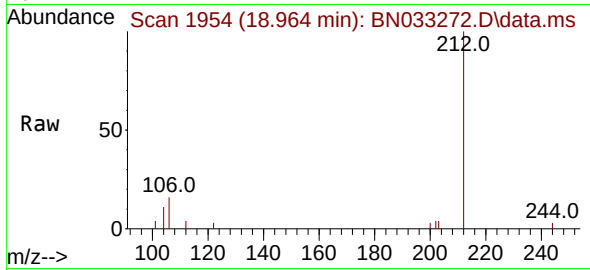
Tgt Ion:178 Resp: 3337
Ion Ratio Lower Upper
178 100
176 19.4 10.5 15.7#
179 16.8 8.6 12.8#





#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 18.964 min Scan# 1954
Delta R.T. 0.014 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

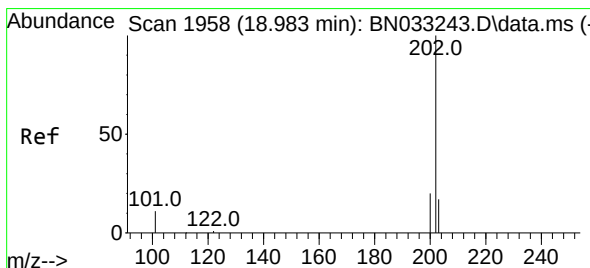
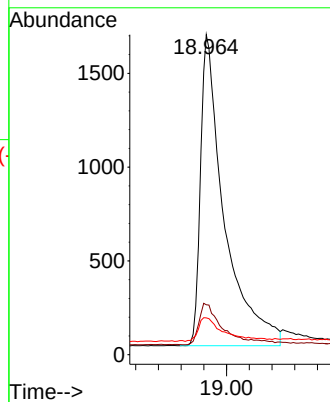
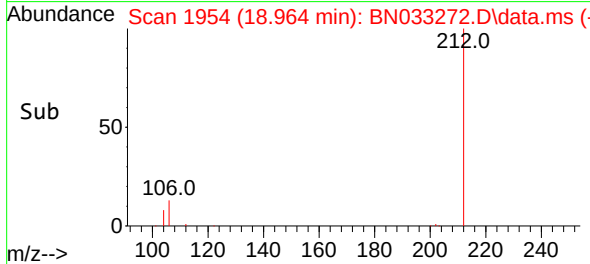
Instrument :
BNA_N
ClientSampleId :
PB162490BS



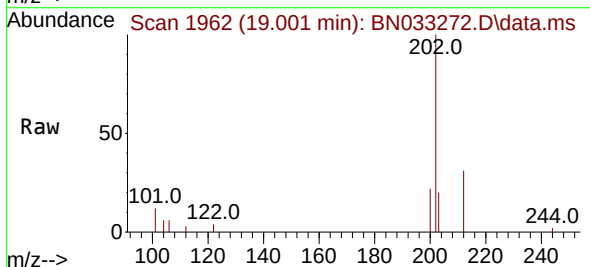
Tgt Ion: 212 Resp: 4798
Ion Ratio Lower Upper
212 100
106 12.3 11.4 17.0
104 8.3 7.1 10.7

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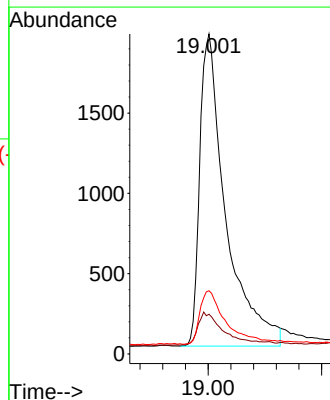
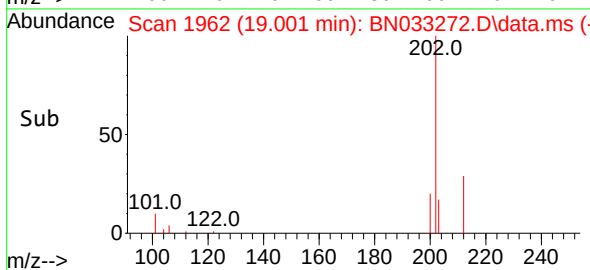
Reviewed By : Yogesh Patel 08/07/2024
Supervised By : mohammad ahmed 08/08/2024

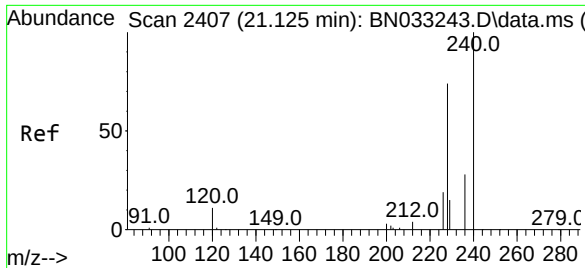


#28
Fluoranthene
Concen: 0.374 ng
RT: 19.001 min Scan# 1962
Delta R.T. 0.019 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



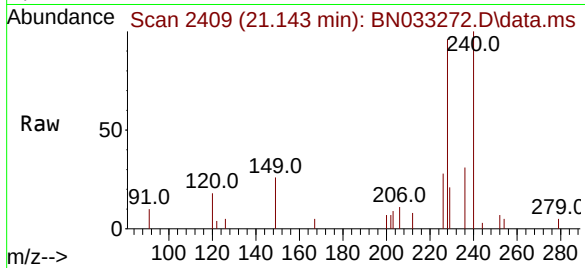
Tgt Ion: 202 Resp: 6191
Ion Ratio Lower Upper
202 100
101 10.4 8.6 13.0
203 17.4 13.8 20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.143 min Scan# 2409
Delta R.T. 0.018 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

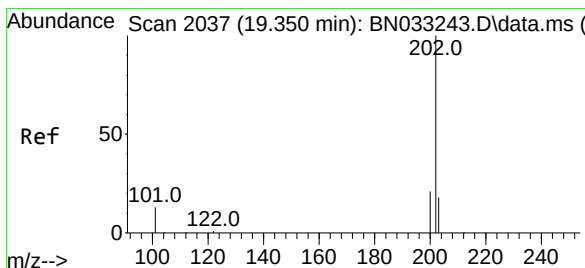
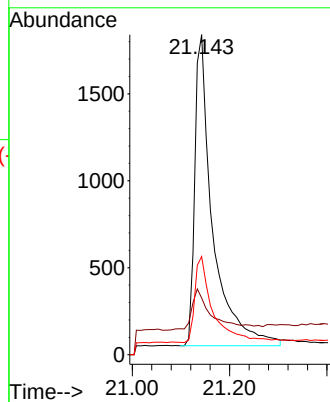
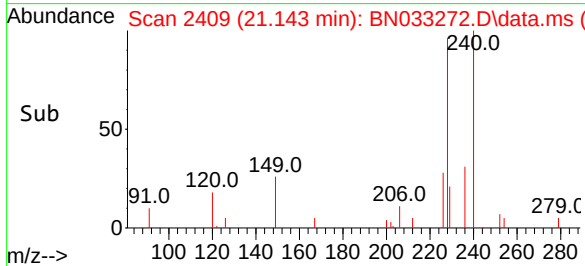
Instrument :
BNA_N
ClientSampleId :
PB162490BS



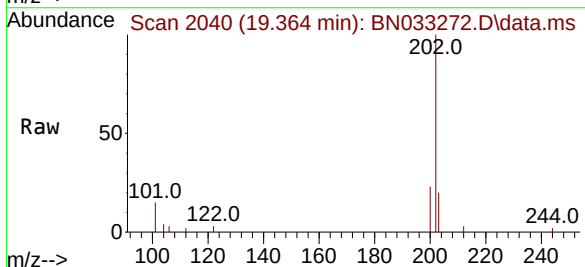
Tgt Ion:240 Resp: 4554
Ion Ratio Lower Upper
240 100
120 17.7 13.3 19.9
236 30.7 23.8 35.6

Manual Integrations
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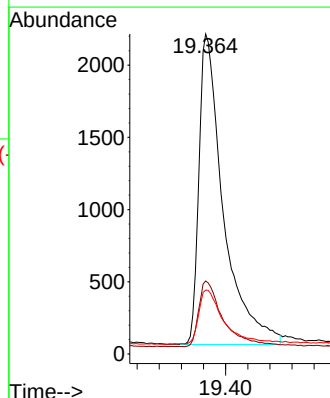
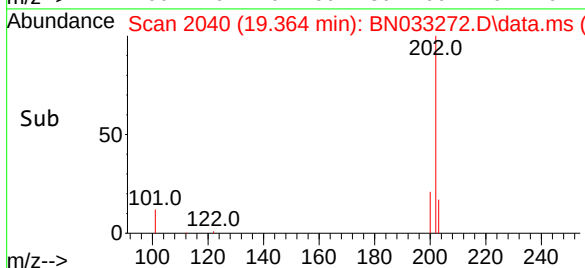
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

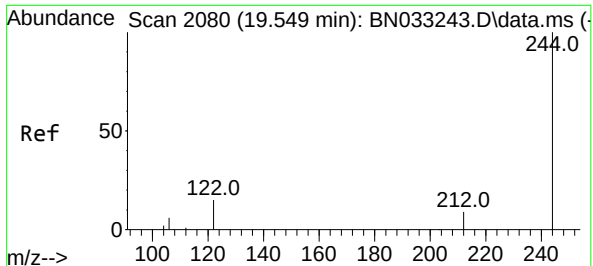


#30
Pyrene
Concen: 0.414 ng
RT: 19.364 min Scan# 2040
Delta R.T. 0.014 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



Tgt Ion:202 Resp: 6590
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 18.4 14.4 21.6





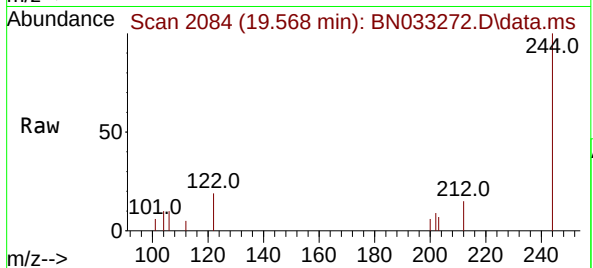
#31
Terphenyl-d14
Concen: 0.408 ng
RT: 19.568 min Scan# 2084
Delta R.T. 0.019 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

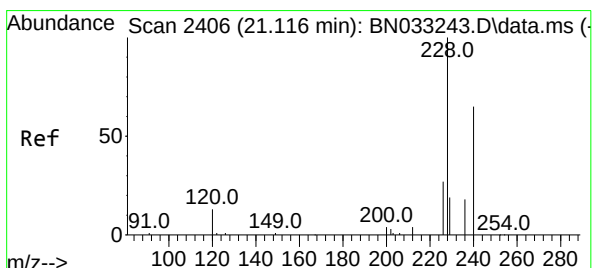
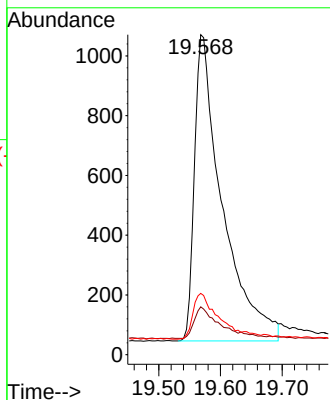
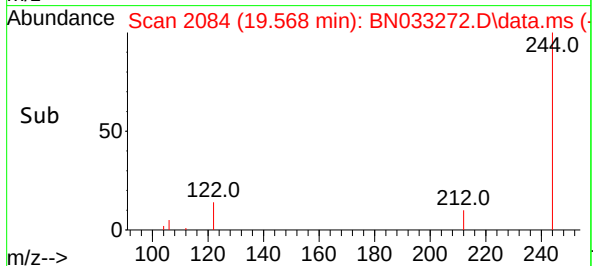
PB162490BS



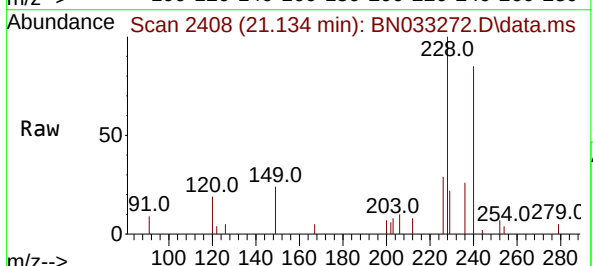
Tgt Ion:244 Resp: 321
Ion Ratio Lower Upper
244 100
212 14.9 9.9 14.9
122 19.1 14.1 21.1

Manual Integrations
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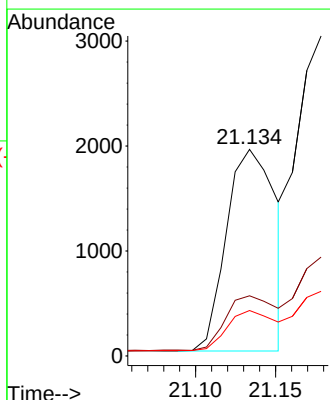
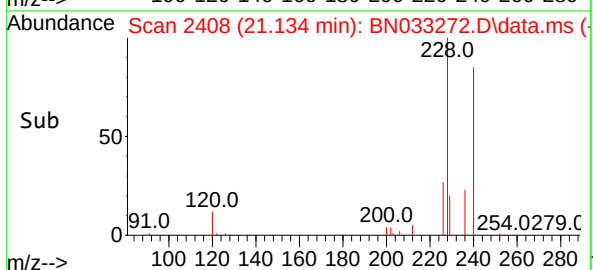
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

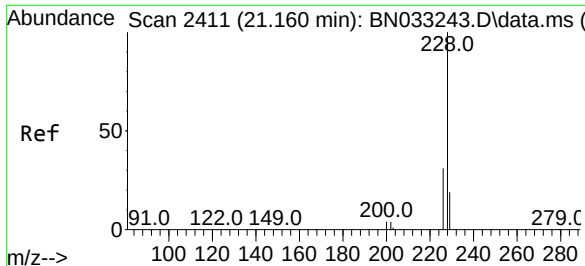


#32
Benzo(a)anthracene
Concen: 0.314 ng
RT: 21.134 min Scan# 2408
Delta R.T. 0.018 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



Tgt Ion:228 Resp: 4122
Ion Ratio Lower Upper
228 100
226 29.2 22.4 33.6
229 22.0 16.6 25.0





#33

Chrysene

Concen: 0.468 ng

RT: 21.178 min Scan# 2411

Delta R.T. 0.018 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

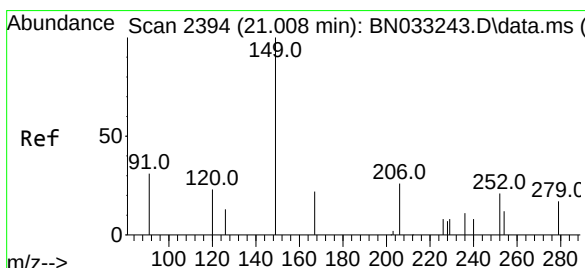
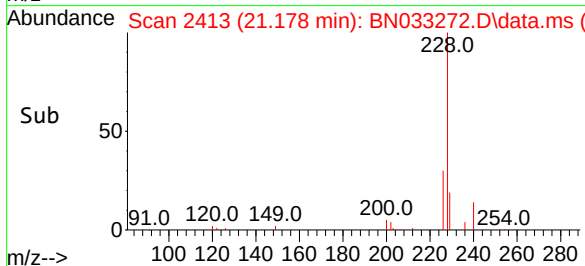
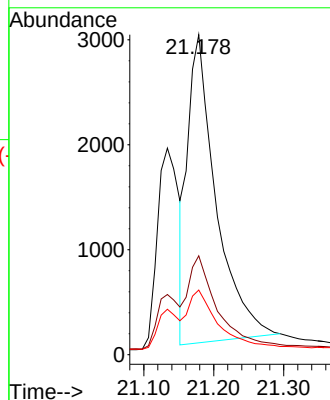
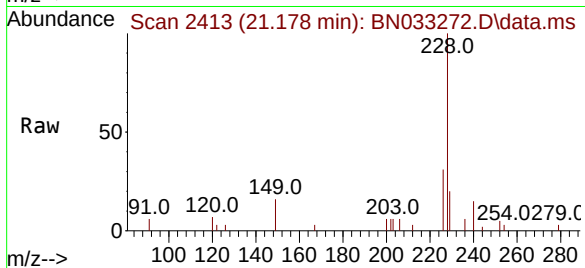
PB162490BS

Tgt Ion:	228	Resp:	824
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.1	37.7
229	20.2	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.523 ng

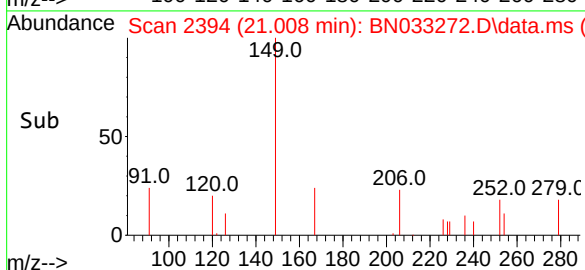
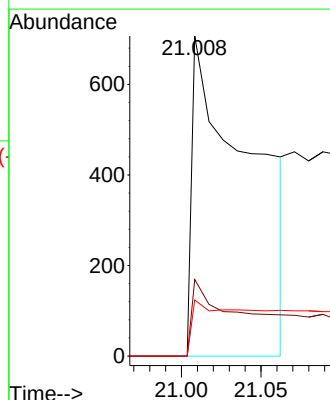
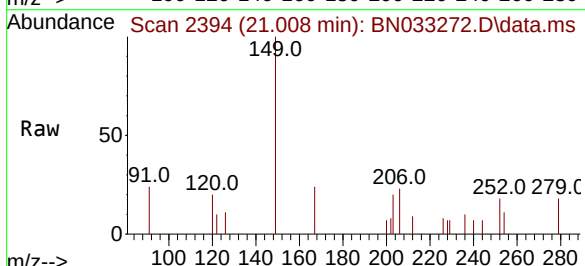
RT: 21.008 min Scan# 2394

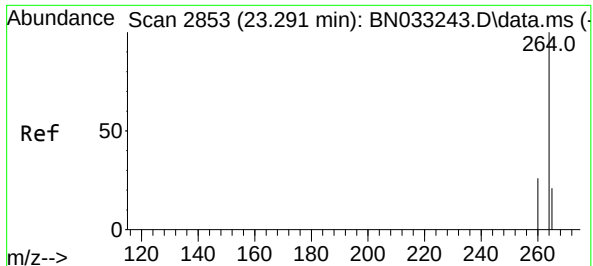
Delta R.T. 0.000 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Tgt Ion:	149	Resp:	1649
Ion Ratio	Lower	Upper	
149	100		
167	27.4	19.8	29.6
279	30.6	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.309 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

PB162490BS

Tgt Ion:264 Resp: 555

Ion Ratio Lower Upper

264 100

260 27.3 21.4 32.2

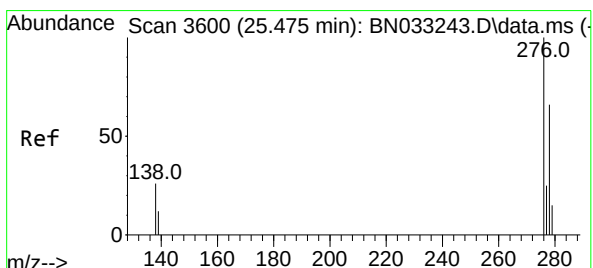
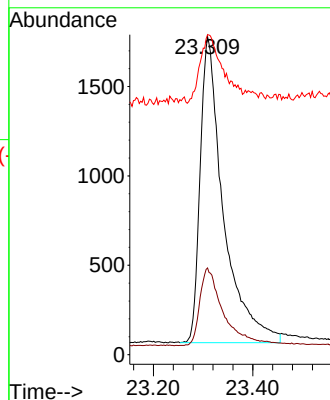
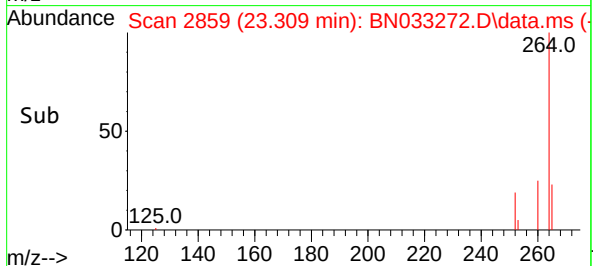
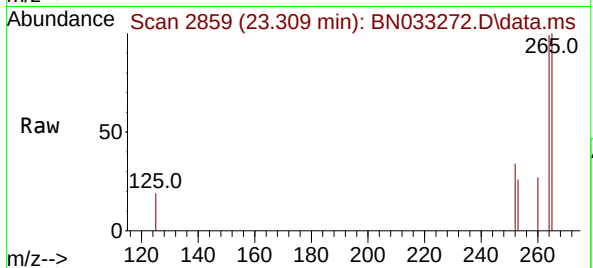
265 100.6 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.358 ng

RT: 25.510 min Scan# 3612

Delta R.T. 0.035 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

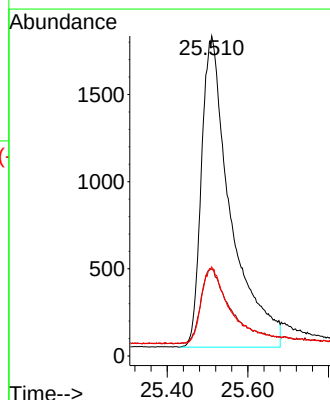
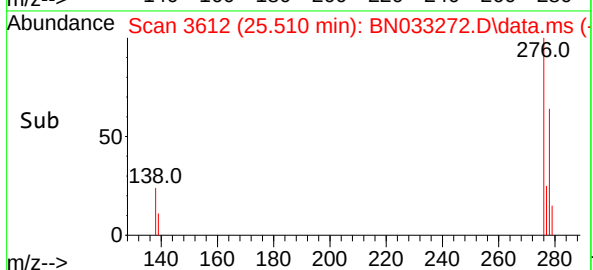
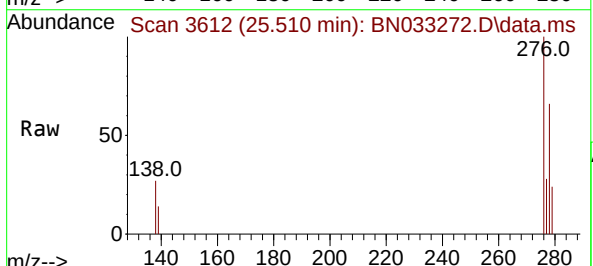
Tgt Ion:276 Resp: 8972

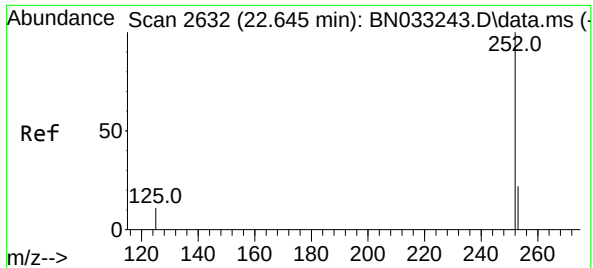
Ion Ratio Lower Upper

276 100

138 23.1 20.4 30.6

277 25.0 19.9 29.9





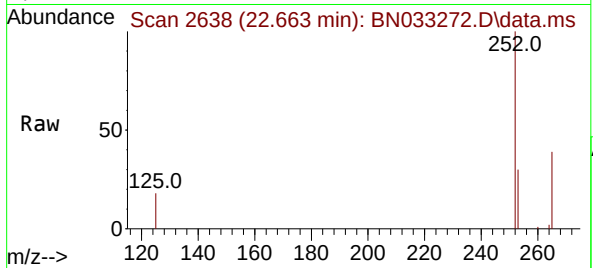
#37
Benzo(b)fluoranthene
Concen: 0.359 ng
RT: 22.663 min Scan# 2638
Delta R.T. 0.018 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

PB162490BS

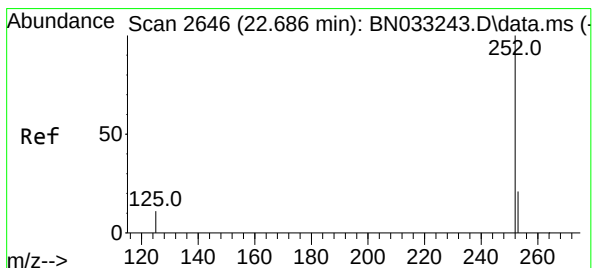
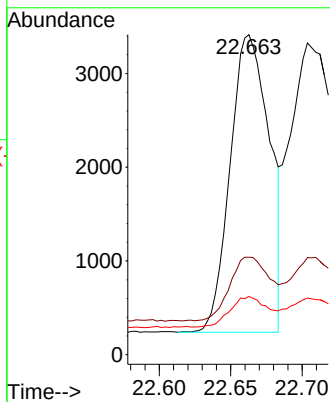
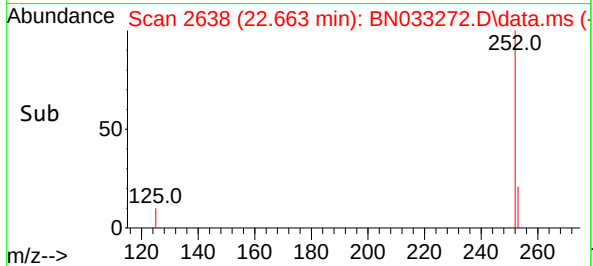


Tgt Ion:252 Resp: 6052
Ion Ratio Lower Upper
252 100
253 30.5 23.3 34.9
125 18.2 14.6 22.0

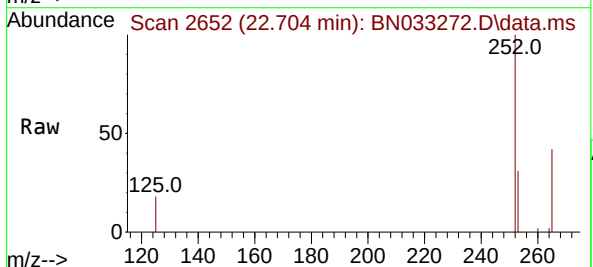
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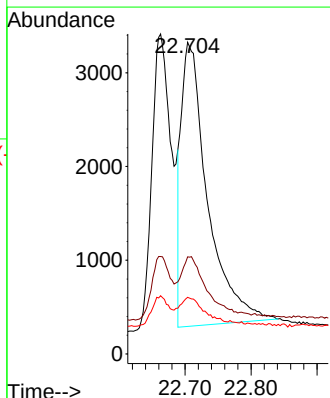
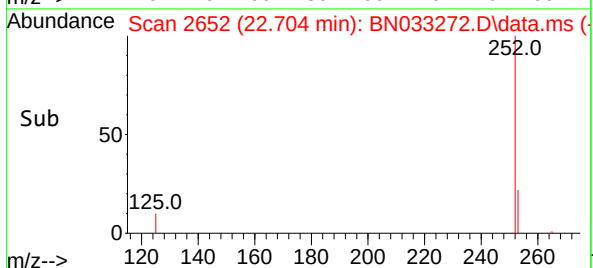
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

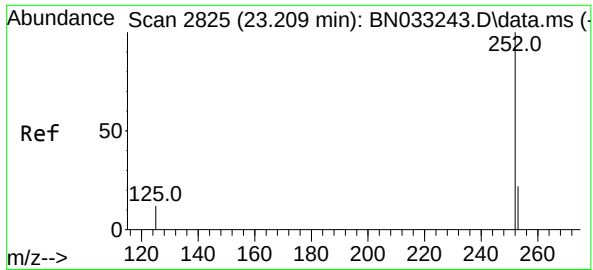


#38
Benzo(k)fluoranthene
Concen: 0.397 ng
RT: 22.704 min Scan# 2652
Delta R.T. 0.018 min
Lab File: BN033272.D
Acq: 06 Aug 2024 14:18



Tgt Ion:252 Resp: 8359
Ion Ratio Lower Upper
252 100
253 31.2 23.7 35.5
125 18.2 15.4 23.0





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.233 min Scan# 21

Delta R.T. 0.024 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

PB162490BS

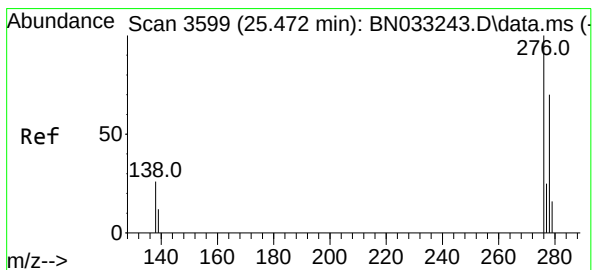
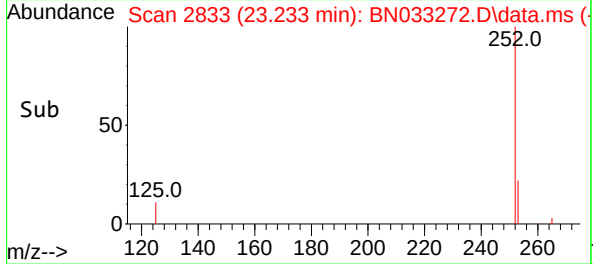
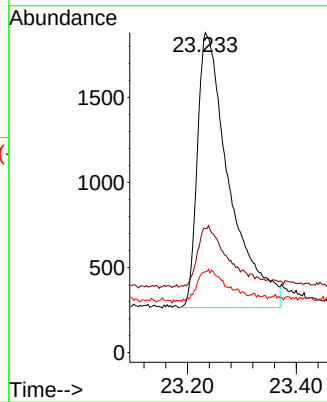
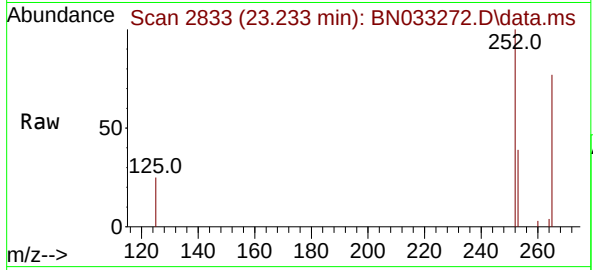
Tgt Ion:	252	Resp:	656
Ion Ratio	Lower	Upper	
252	100		
253	38.8	28.4	42.6
125	25.3	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.353 ng

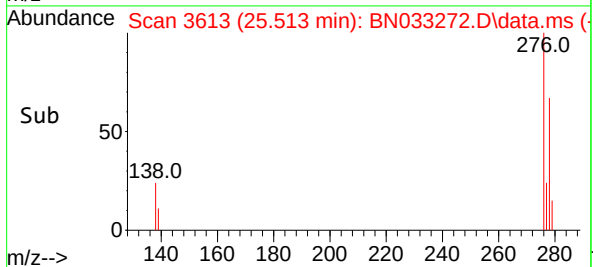
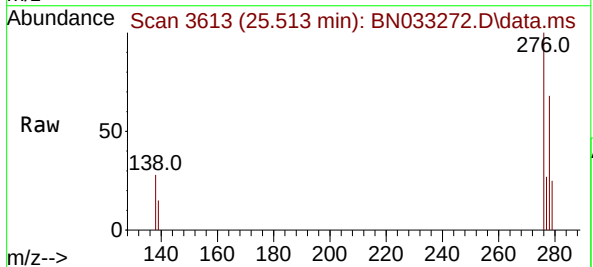
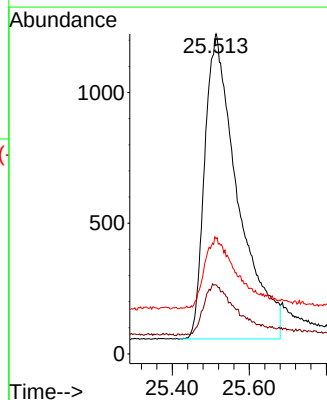
RT: 25.513 min Scan# 3613

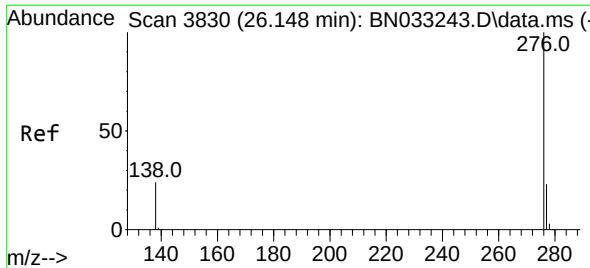
Delta R.T. 0.041 min

Lab File: BN033272.D

Acq: 06 Aug 2024 14:18

Tgt Ion:	278	Resp:	6992
Ion Ratio	Lower	Upper	
278	100		
139	21.6	16.7	25.1
279	36.0	25.0	37.6





#41

Benzo(g,h,i)perylene

Concen: 0.373 ng

RT: 26.168 min Scan# 3830

Delta R.T. 0.021 min

Lab File: BN033272.D

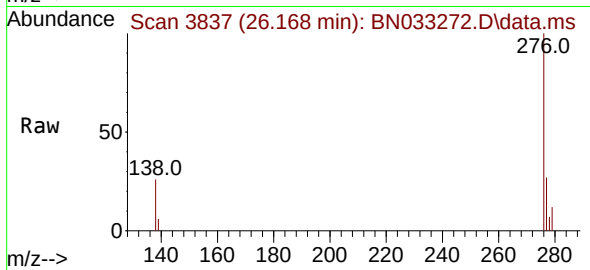
Acq: 06 Aug 2024 14:18

Instrument :

BNA_N

ClientSampleId :

PB162490BS



Tgt Ion:276 Resp: 8469

Ion Ratio Lower Upper

276 100

277 27.0 21.0 31.4

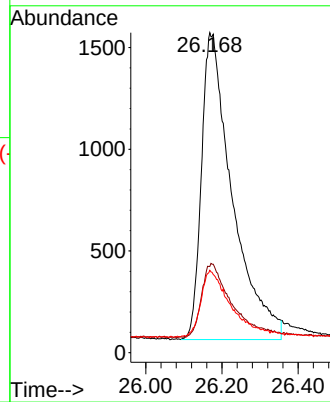
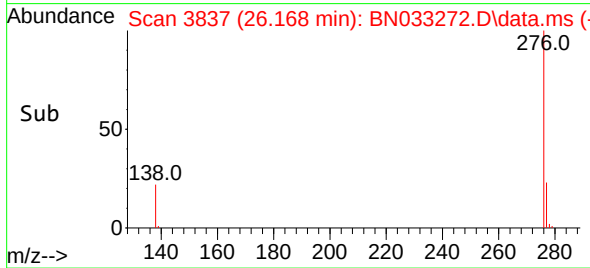
138 25.7 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162490BSD	SDG No.:	P3467
Lab Sample ID:	PB162490BSD	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
BN033273.D	1	08/05/24 09:05	08/06/24 14:55	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.40		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.34		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.39		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	0.34		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.38		0.020	0.10	ug/L
129-00-0	Pyrene	0.41		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.33		0.020	0.10	ug/L
218-01-9	Chrysene	0.45		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.37		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	0.39		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.35		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.35		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.36		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.39		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		30 (30) - 150 (150)	92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 (30) - 150 (150)	98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (11) - 130 (175)	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (10) - 130 (175)	98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		30 (54) - 130 (171)	101%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	699	7.561			
1146-65-2	Naphthalene-d8	2760	10.34			
15067-26-2	Acenaphthene-d10	1930	14.137			
1517-22-2	Phenanthrene-d10	4480	16.933			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162490BSD	SDG No.:	P3467
Lab Sample ID:	PB162490BSD	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
BN033273.D	1	08/05/24 09:05	08/06/24 14:55	PB162490

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	4690	21.134			
1520-96-3	Perylene-d12	5800	23.309			

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\BN080624\
 Data File : BN033273.D
 Acq On : 06 Aug 2024 14:55
 Operator : MA/JU
 Sample : PB162490BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162490BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/07/2024
 Supervised By :mohammad ahmed 08/08/2024

Quant Time: Aug 06 15:33:08 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	7.561	152	699m	0.400	ng	0.05
7) Naphthalene-d8	10.340	136	2758	0.400	ng	0.02
13) Acenaphthene-d10	14.137	164	1926	0.400	ng	0.01
19) Phenanthrene-d10	16.933	188	4480	0.400	ng	0.01
29) Chrysene-d12	21.134	240	4687	0.400	ng	# 0.00
35) Perylene-d12	23.309	264	5795	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.416	112	742m	0.429	ng	0.12
5) Phenol-d6	7.048	99	1003m	0.422	ng	0.06
8) Nitrobenzene-d5	8.984	82	772	0.348	ng	0.06
11) 2-Methylnaphthalene-d10	11.950	152	1501	0.367	ng	0.02
14) 2,4,6-Tribromophenol	15.729	330	299	0.417	ng	0.01
15) 2-Fluorobiphenyl	12.822	172	2596	0.394	ng	0.02
27) Fluoranthene-d10	18.964	212	4942	0.394	ng	0.01
31) Terphenyl-d14	19.568	244	3289	0.406	ng	0.02
Target Compounds						
2) 1,4-Dioxane	3.047	88	482	0.387	ng	# 85
3) n-Nitrosodimethylamine	3.494	42	251m	0.294	ng	
6) bis(2-Chloroethyl)ether	7.134	93	1613m	0.805	ng	
9) Naphthalene	10.394	128	3019	0.403	ng	95
10) Hexachlorobutadiene	10.522	225	603	0.433	ng	# 98
12) 2-Methylnaphthalene	12.030	142	1496	0.335	ng	97
16) Acenaphthylene	13.880	152	2958	0.385	ng	99
17) Acenaphthene	14.201	154	2309	0.416	ng	99
18) Fluorene	15.227	166	3080	0.410	ng	99
20) 4,6-Dinitro-2-methylph...	15.604	198	90	0.354	ng	85
21) 4-Bromophenyl-phenylether	16.126	248	938	0.395	ng	97
22) Hexachlorobenzene	16.200	284	1034	0.417	ng	97
23) Atrazine	16.424	200	814	0.364	ng	95
24) Pentachlorophenol	16.647	266	280	0.337	ng	93
25) Phenanthrene	16.970	178	4622	0.384	ng	100
26) Anthracene	17.094	178	3452	0.342	ng	# 88
28) Fluoranthene	18.997	202	6285	0.380	ng	99
30) Pyrene	19.364	202	6699	0.409	ng	99
32) Benzo(a)anthracene	21.134	228	4405	0.326	ng	97
33) Chrysene	21.178	228	8223	0.453	ng	98
34) Bis(2-ethylhexyl)phtha...	21.008	149	1639	0.505	ng	# 89
36) Indeno(1,2,3-cd)pyrene	25.504	276	9137	0.349	ng	98
37) Benzo(b)fluoranthene	22.660	252	6426	0.366	ng	98
38) Benzo(k)fluoranthene	22.707	252	8817	0.401	ng	98
39) Benzo(a)pyrene	23.233	252	6890	0.390	ng	97
40) Dibenzo(a,h)anthracene	25.504	278	7145	0.345	ng	94
41) Benzo(g,h,i)perylene	26.174	276	8498	0.358	ng	98

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

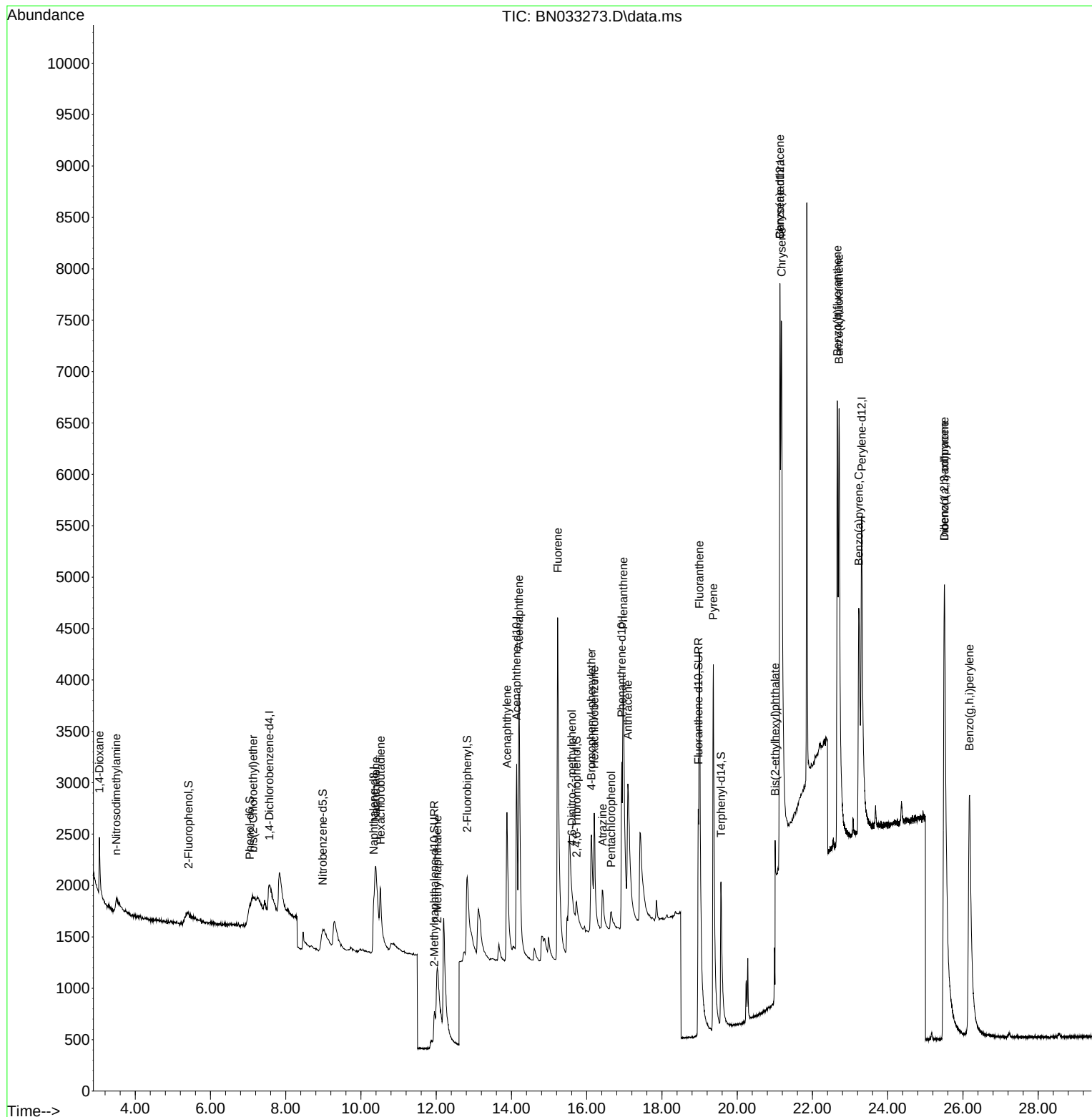
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080624\
Data File : BN033273.D
Acq On : 06 Aug 2024 14:55
Operator : MA/JU
Sample : PB162490BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

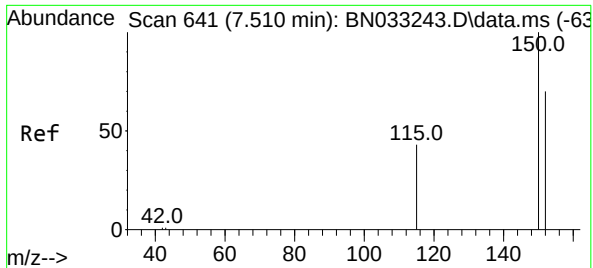
Instrument :
BNA_N
ClientSampleId :
PB162490BSD

Quant Time: Aug 06 15:33:08 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

Manual Integrations
APPROVED

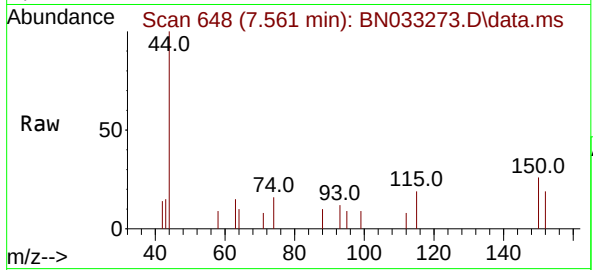
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.561 min Scan# 64
Delta R.T. 0.051 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

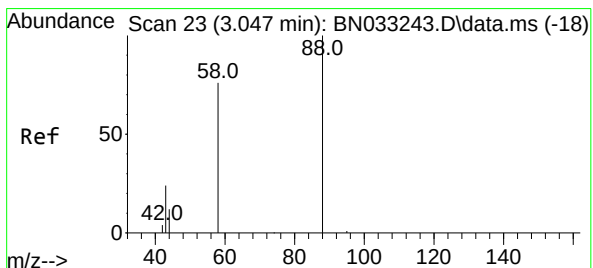
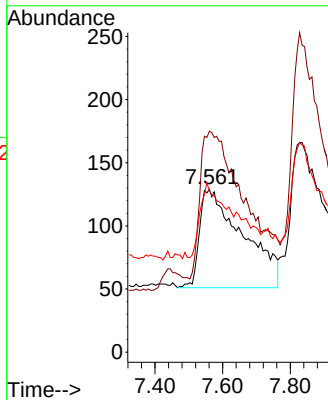
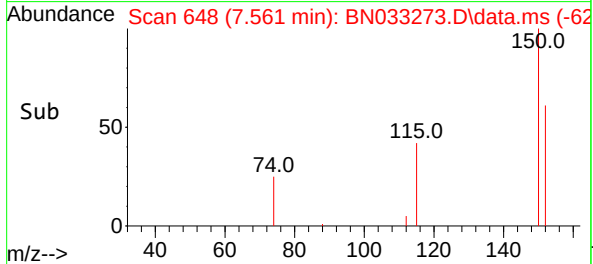
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion: 152 Resp: 699
Ion Ratio Lower Upper
152 100
150 135.7 108.2 162.2
115 99.2 70.5 105.7

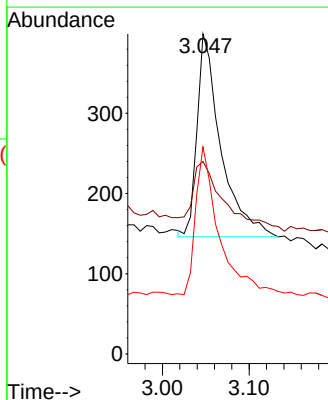
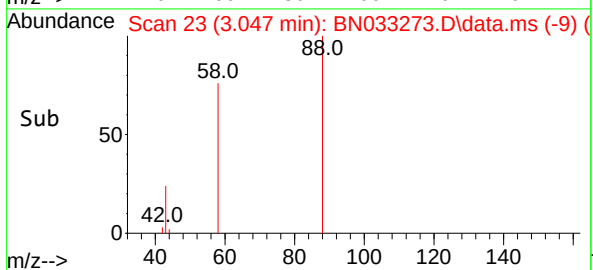
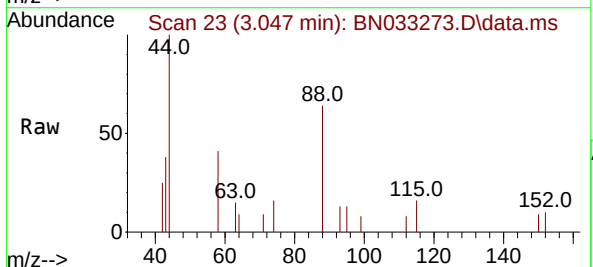
Manual Integrations
APPROVED

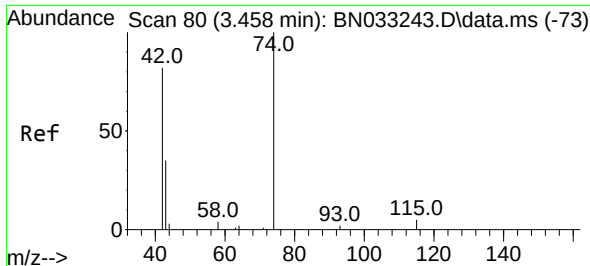
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.047 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

Tgt Ion: 88 Resp: 482
Ion Ratio Lower Upper
88 100
43 47.1 18.6 28.0#
58 71.4 54.5 81.7





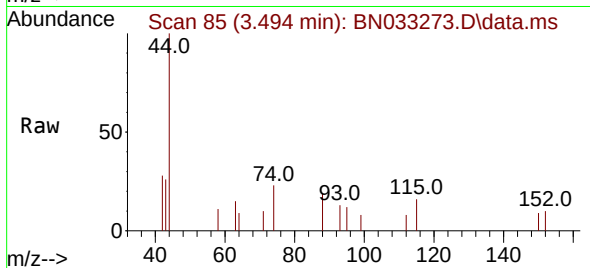
#3
n-Nitrosodimethylamine
Concen: 0.294 ng m
RT: 3.494 min Scan# 80
Delta R.T. 0.036 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

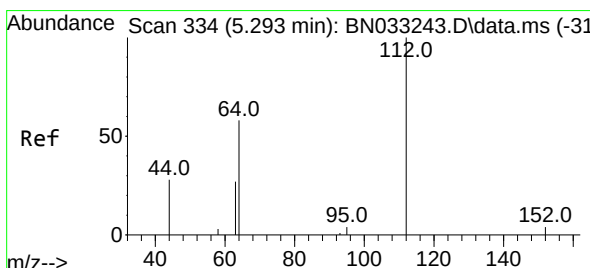
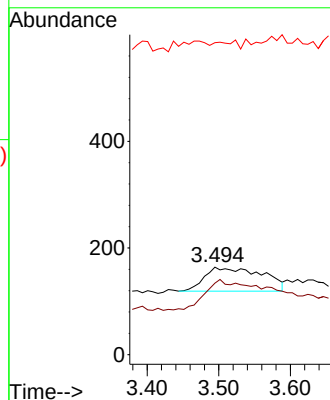
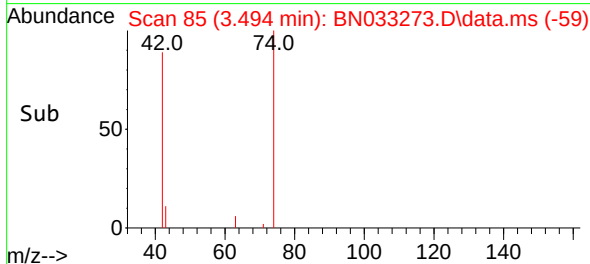
PB162490BSD



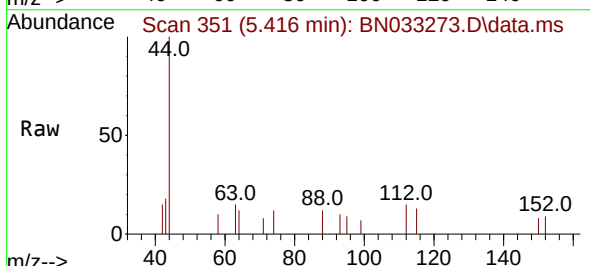
Tgt Ion: 42 Resp: 25
Ion Ratio Lower Upper
42 100
74 53.8 0.0 0.0
44 4.0 9.6 14.4

Manual Integrations
APPROVED

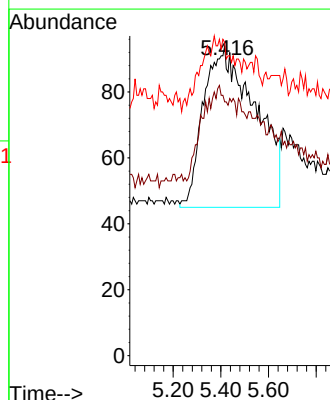
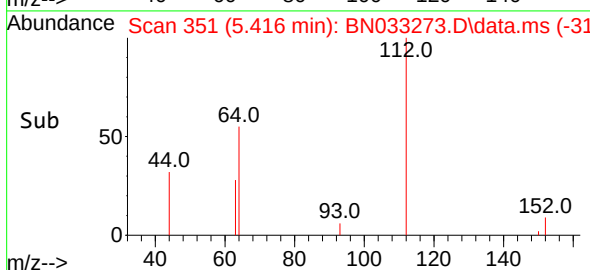
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

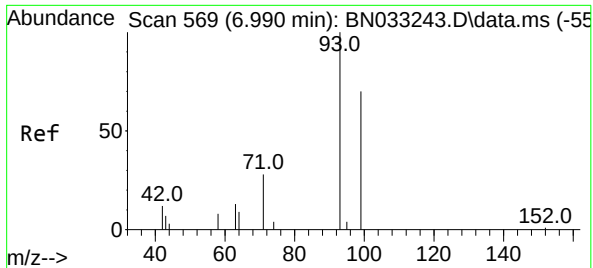


#4
2-Fluorophenol
Concen: 0.429 ng m
RT: 5.416 min Scan# 351
Delta R.T. 0.123 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55



Tgt Ion:112 Resp: 742
Ion Ratio Lower Upper
112 100
64 0.0 18.0 27.0#
63 0.0 0.0 0.0





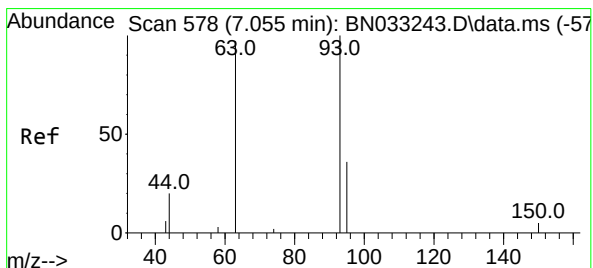
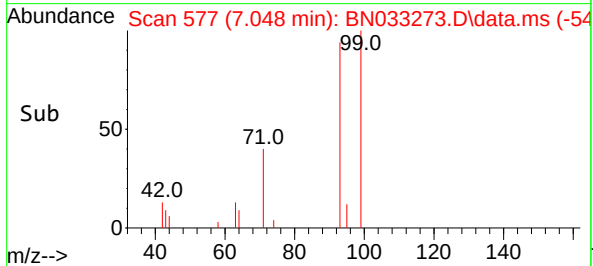
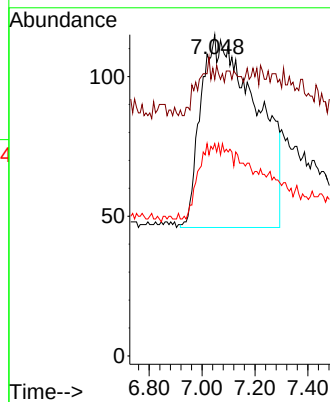
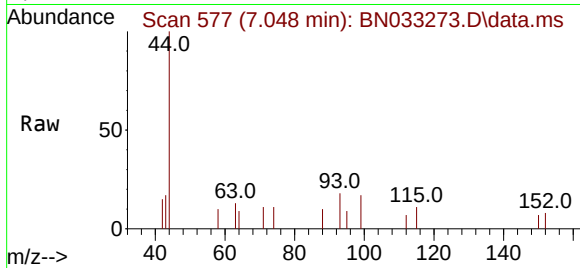
#5
Phenol-d6
Concen: 0.422 ng m
RT: 7.048 min Scan# 51
Delta R.T. 0.058 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

Instrument :
BNA_N
ClientSampleId :
PB162490BSD

Tgt Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	0.0	0.0

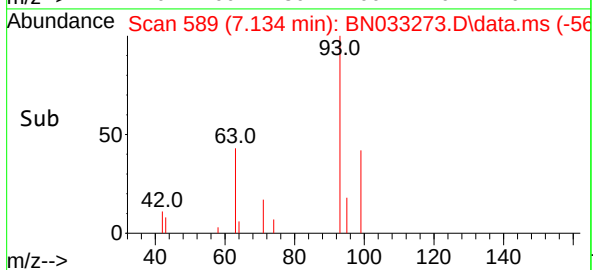
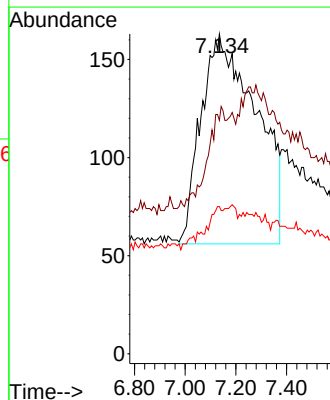
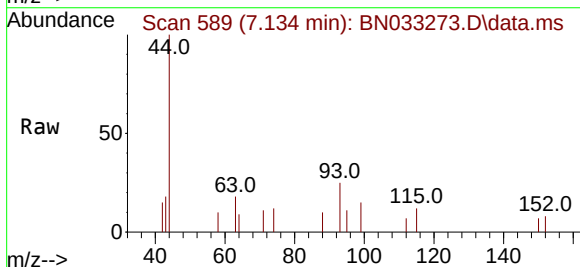
Manual Integrations
APPROVED

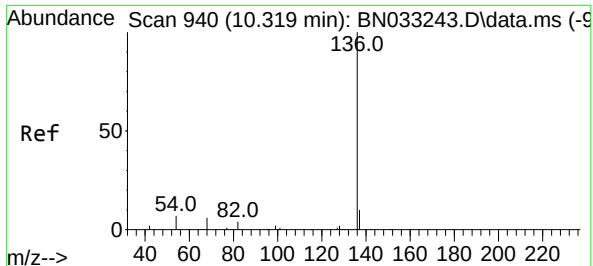
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.805 ng m
RT: 7.134 min Scan# 589
Delta R.T. 0.079 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

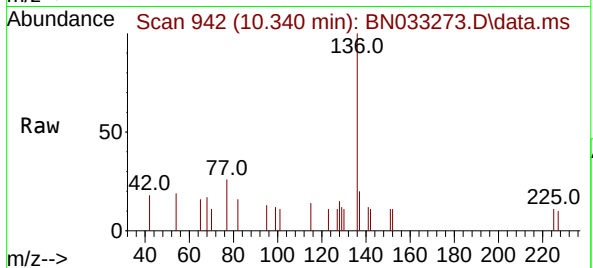
Tgt Ion	Ratio	Lower	Upper
93	100		
63	11.9	1.1	1.7#
95	2.6	0.0	0.0#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 940
Delta R.T. 0.021 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

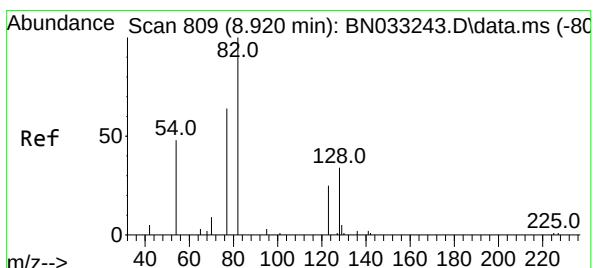
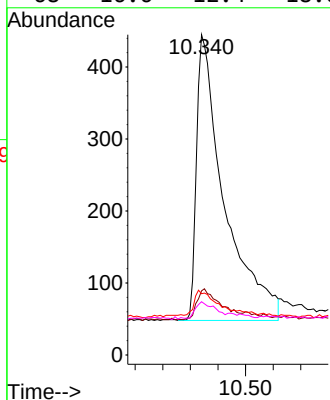
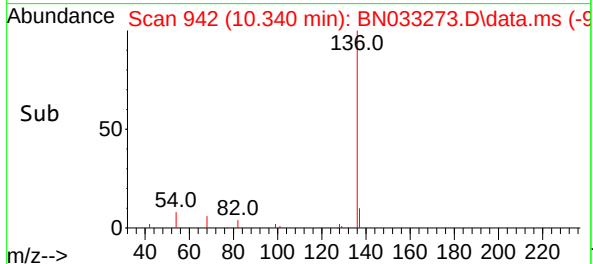
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion: 136 Resp: 275
Ion Ratio Lower Upper
136 100
137 20.0 14.1 21.1
54 19.1 13.8 20.8
68 16.6 12.4 18.6

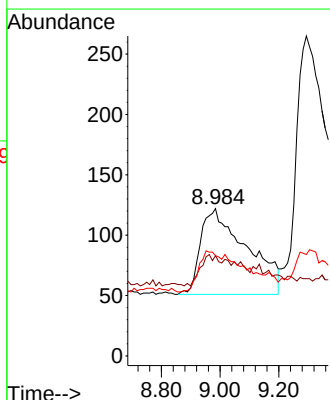
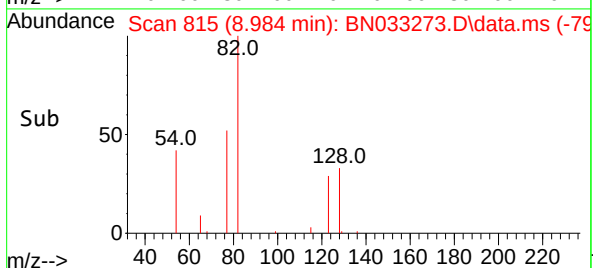
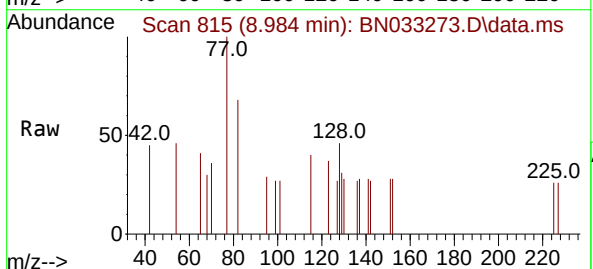
Manual Integrations
APPROVED

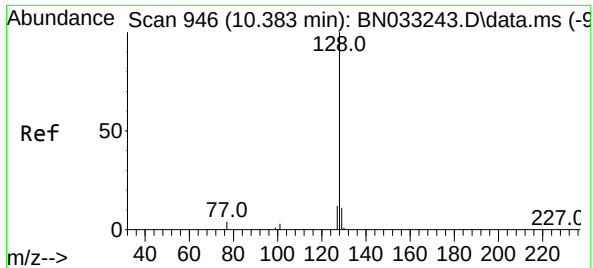
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.984 min Scan# 815
Delta R.T. 0.064 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

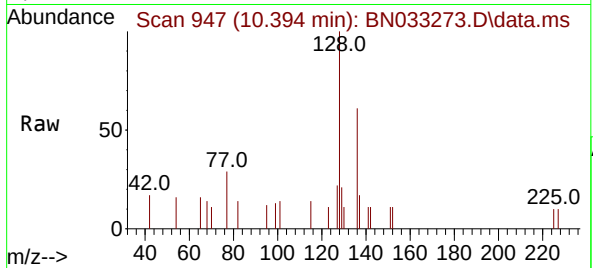
Tgt Ion: 82 Resp: 772
Ion Ratio Lower Upper
82 100
128 68.0 54.8 82.2
54 68.0 55.9 83.9





#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

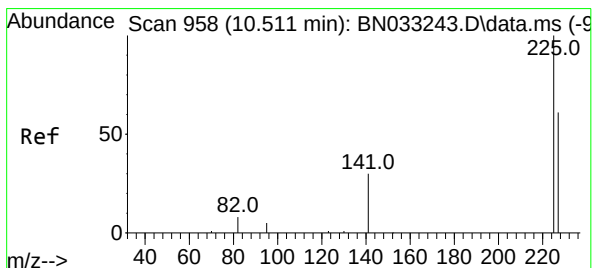
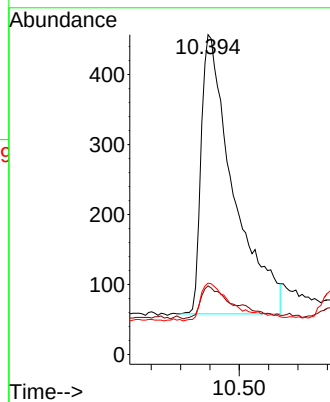
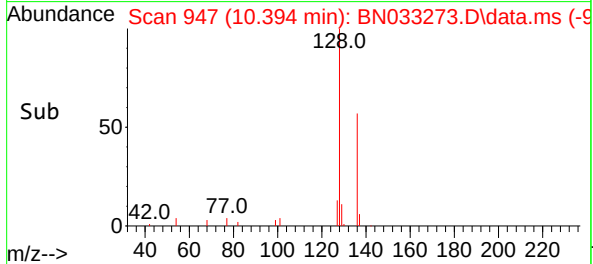
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:128 Resp: 3019
Ion Ratio Lower Upper
128 100
129 21.4 15.4 23.0
127 22.3 15.8 23.6

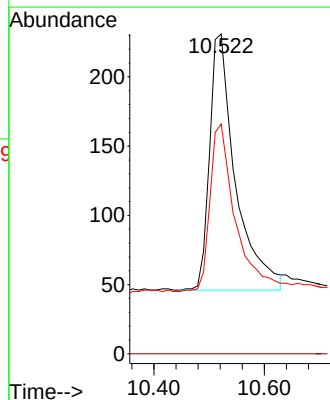
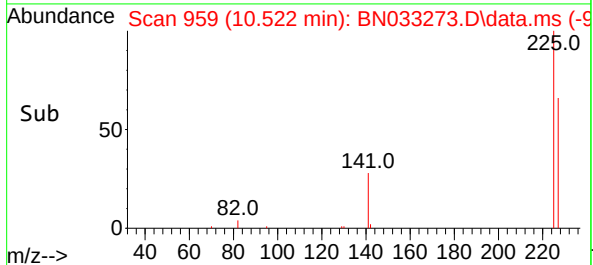
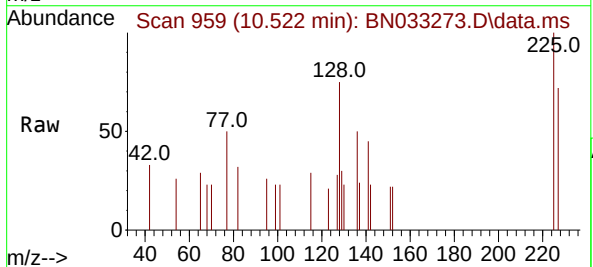
Manual Integrations
APPROVED

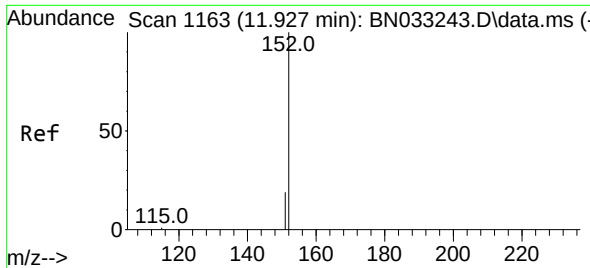
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.522 min Scan# 959
Delta R.T. 0.011 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

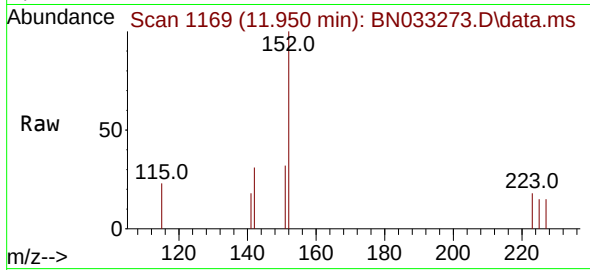
Tgt Ion:225 Resp: 603
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.2 75.4





#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.950 min Scan# 1169
Delta R.T. 0.023 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

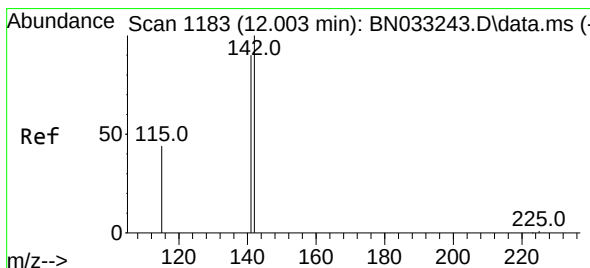
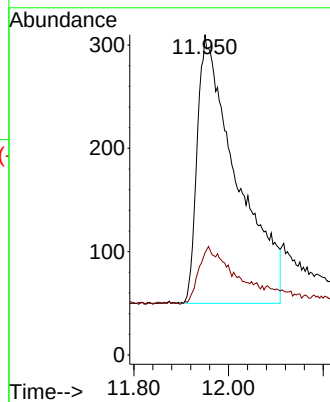
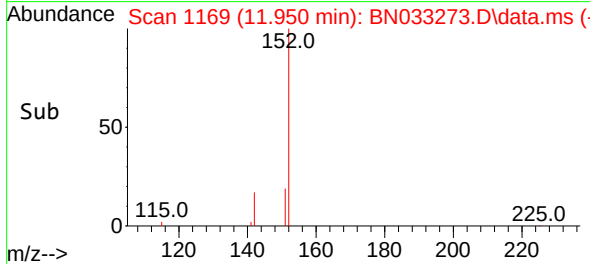
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:152 Resp: 150
Ion Ratio Lower Upper
152 100
151 19.4 11.9 17.9

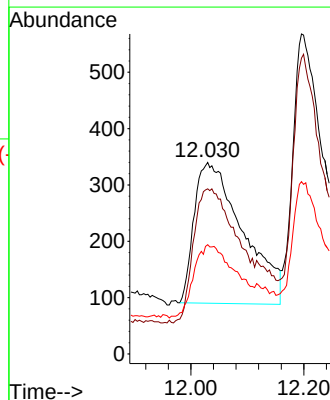
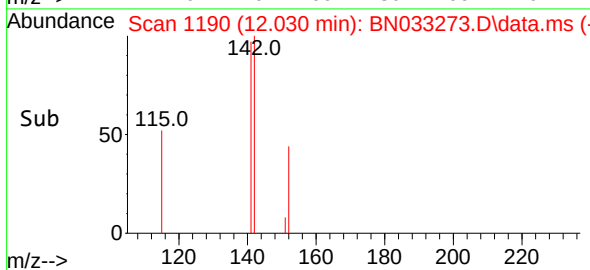
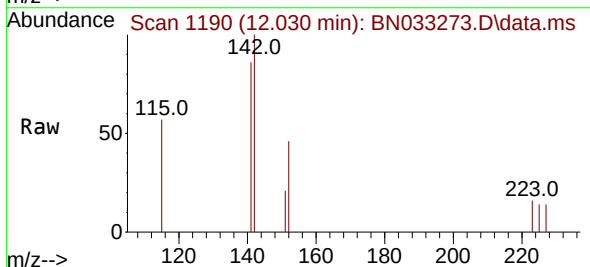
Manual Integrations
APPROVED

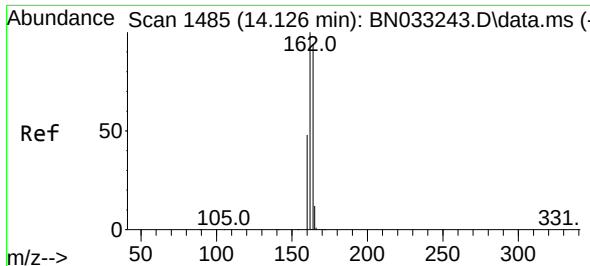
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#12
2-Methylnaphthalene
Concen: 0.335 ng
RT: 12.030 min Scan# 1190
Delta R.T. 0.027 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

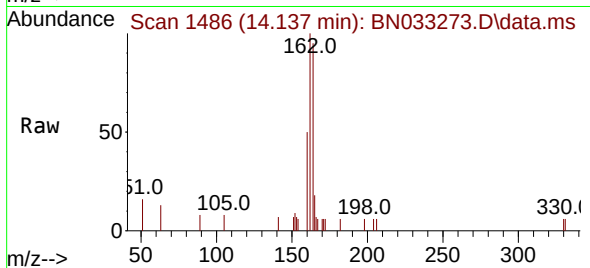
Tgt Ion:142 Resp: 1496
Ion Ratio Lower Upper
142 100
141 86.2 68.7 103.1
115 57.1 41.6 62.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.011 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

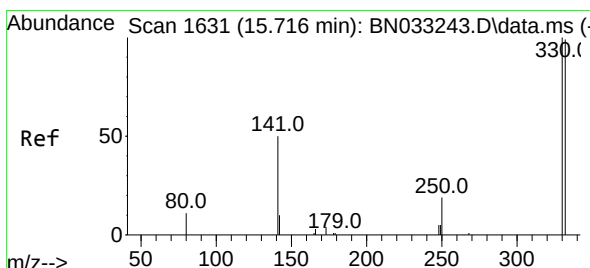
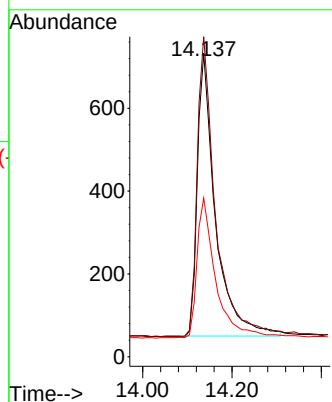
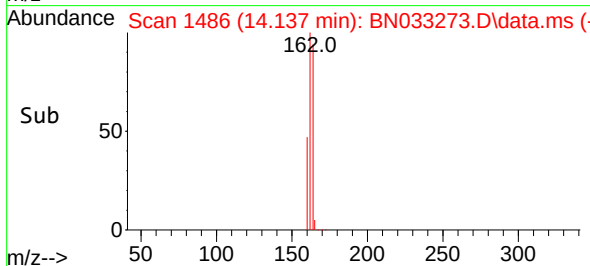
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:164 Resp: 1920
Ion Ratio Lower Upper
164 100
162 105.5 84.6 127.0
160 52.3 42.4 63.6

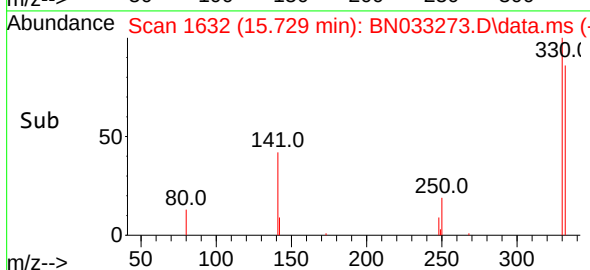
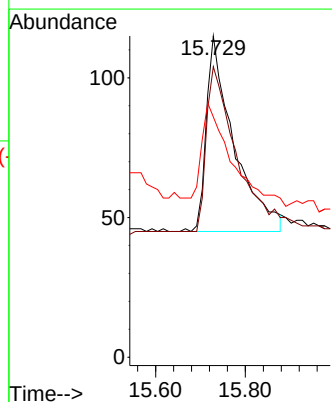
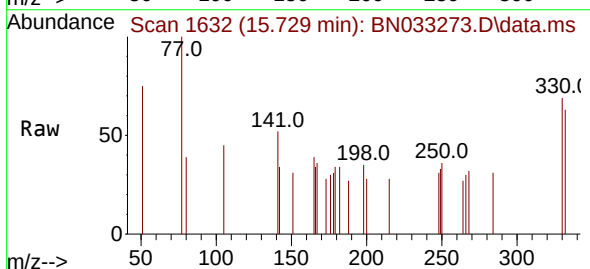
Manual Integrations
APPROVED

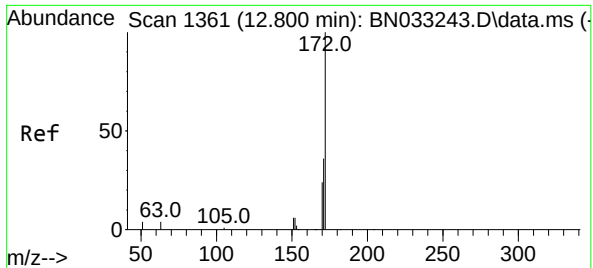
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#14
2,4,6-Tribromophenol
Concen: 0.417 ng
RT: 15.729 min Scan# 1632
Delta R.T. 0.013 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

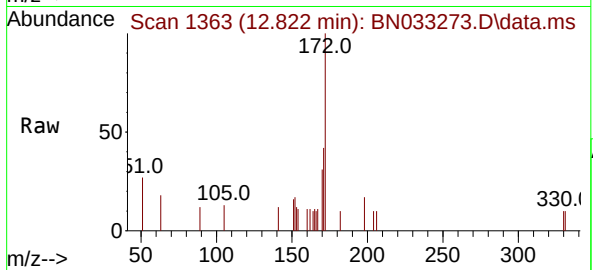
Tgt Ion:330 Resp: 299
Ion Ratio Lower Upper
330 100
332 91.6 73.7 110.5
141 45.2 44.8 67.2





#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.822 min Scan# 1363
Delta R.T. 0.021 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

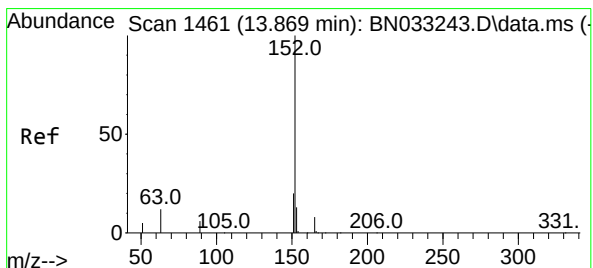
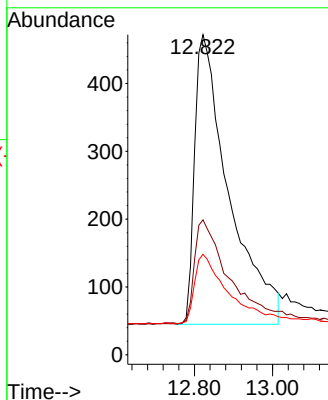
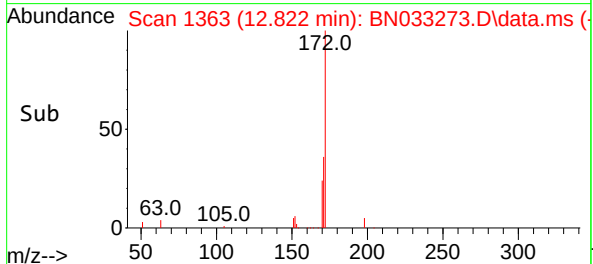
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:172 Resp: 2590
Ion Ratio Lower Upper
172 100
171 42.2 32.3 48.5
170 31.4 23.4 35.2

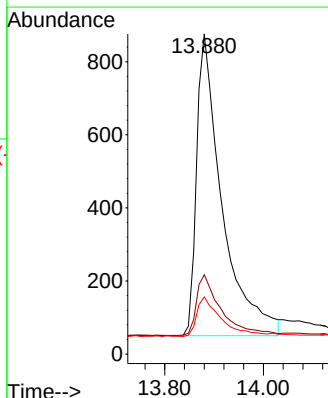
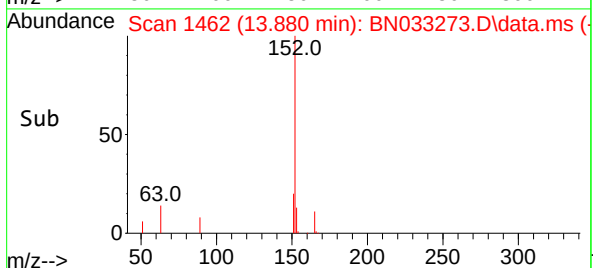
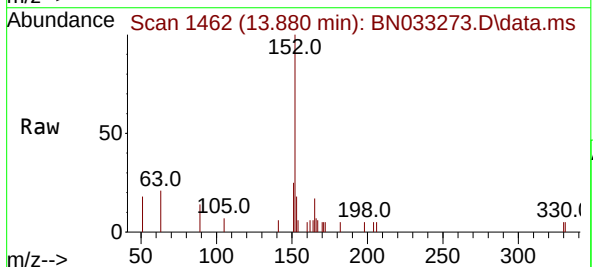
Manual Integrations
APPROVED

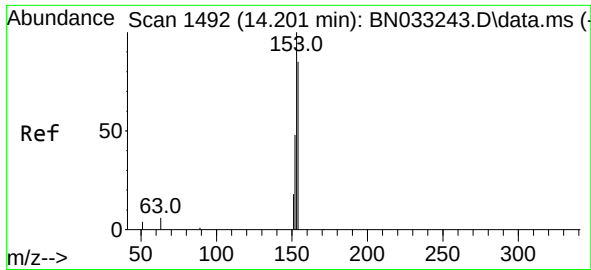
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.880 min Scan# 1462
Delta R.T. 0.011 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

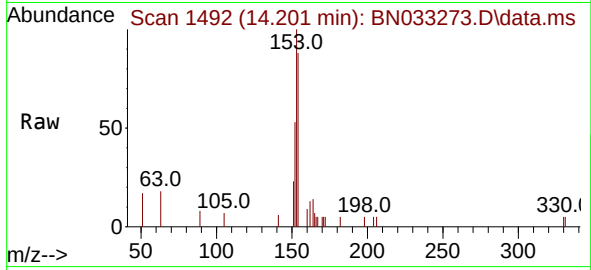
Tgt Ion:152 Resp: 2958
Ion Ratio Lower Upper
152 100
151 19.3 16.1 24.1
153 13.0 10.2 15.2





#17
Acenaphthene
Concen: 0.416 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.000 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

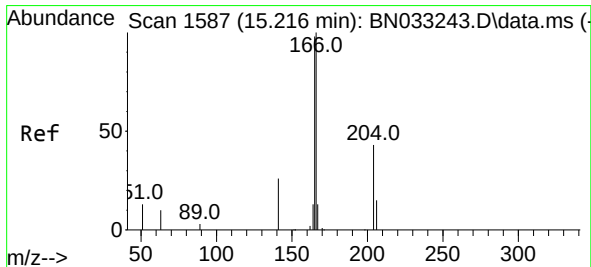
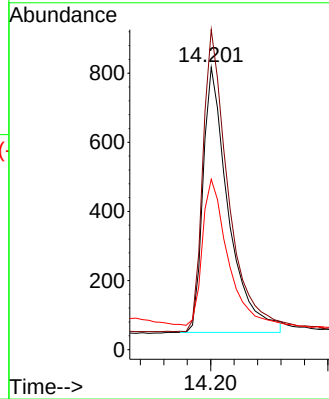
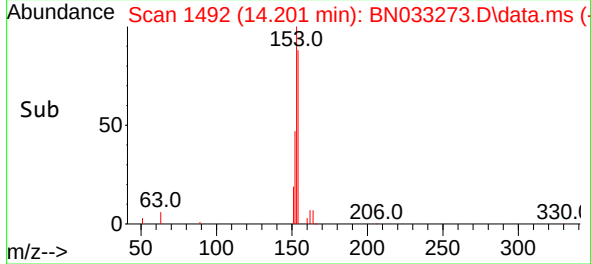
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



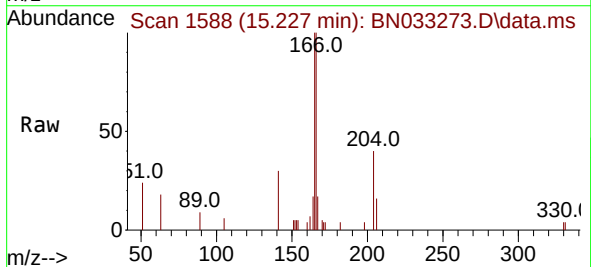
Tgt Ion:154 Resp: 2309
Ion Ratio Lower Upper
154 100
153 114.3 92.7 139.1
152 54.8 44.0 66.0

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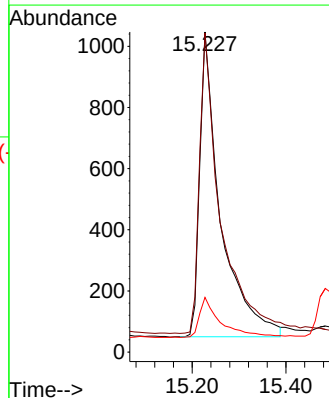
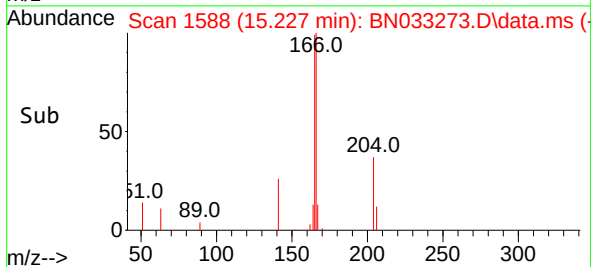
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024

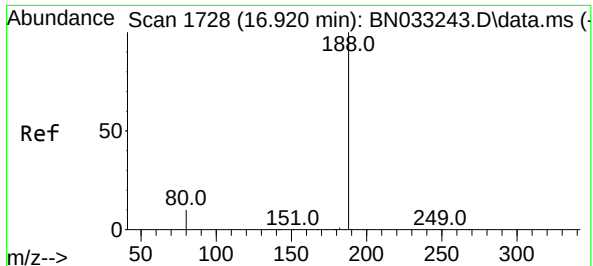


#18
Fluorene
Concen: 0.410 ng
RT: 15.227 min Scan# 1588
Delta R.T. 0.011 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55



Tgt Ion:166 Resp: 3080
Ion Ratio Lower Upper
166 100
165 98.9 79.6 119.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

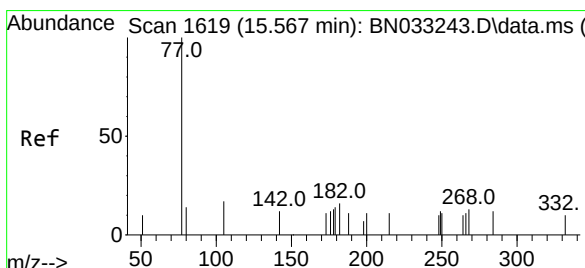
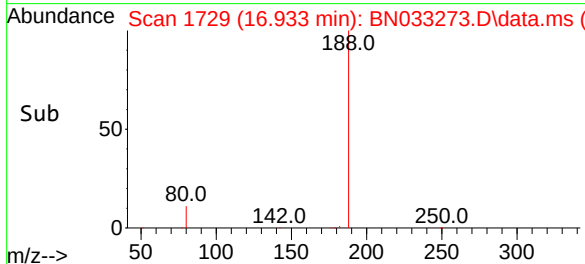
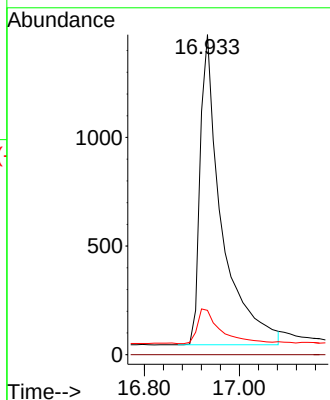
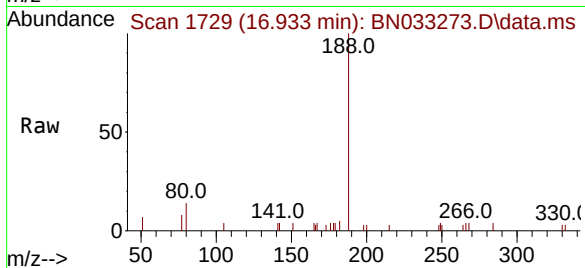
PB162490BSD

Tgt Ion:	188	Resp:	4480
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.8	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.354 ng

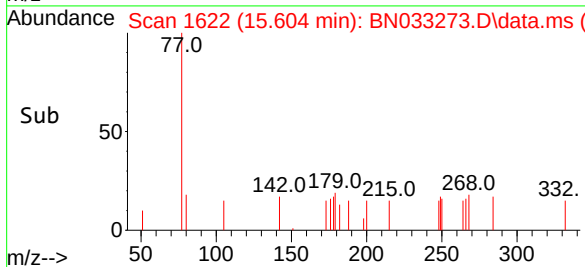
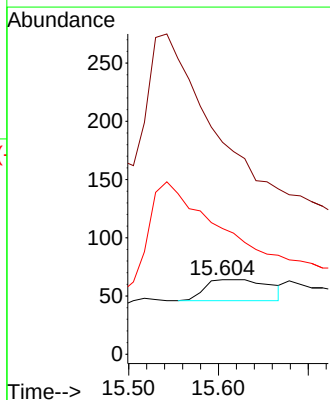
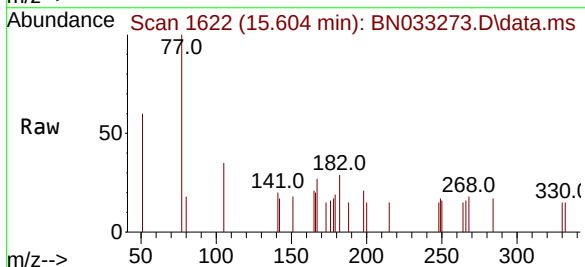
RT: 15.604 min Scan# 1622

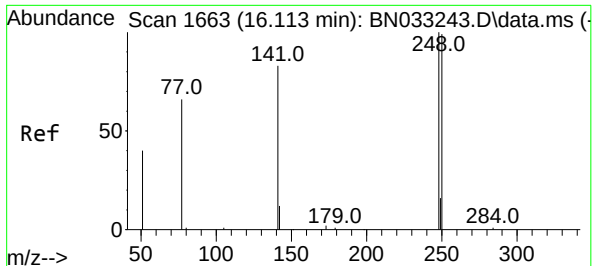
Delta R.T. 0.037 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

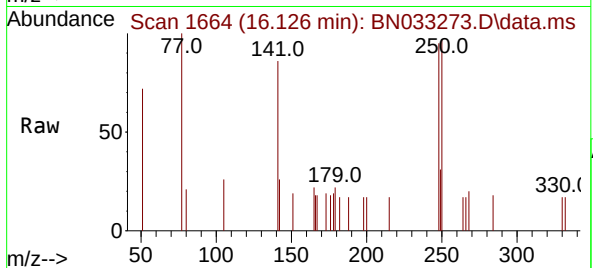
Tgt Ion:	198	Resp:	90
Ion Ratio	Lower	Upper	
198	100		
51	284.4	250.6	375.8
105	168.8	152.6	229.0





#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.126 min Scan# 1664
Delta R.T. 0.012 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

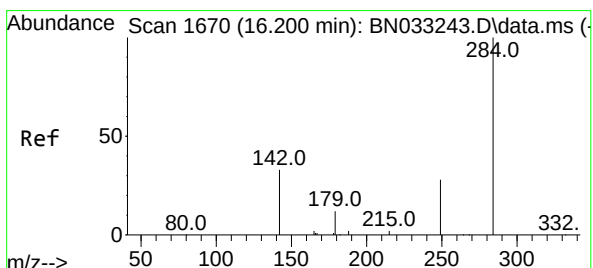
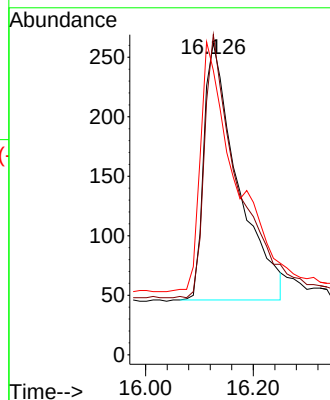
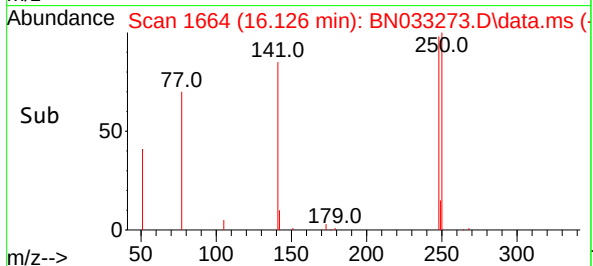
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:248 Resp: 938
Ion Ratio Lower Upper
248 100
250 102.7 80.0 120.0
141 91.2 71.0 106.6

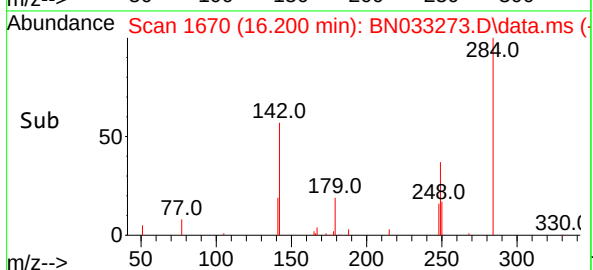
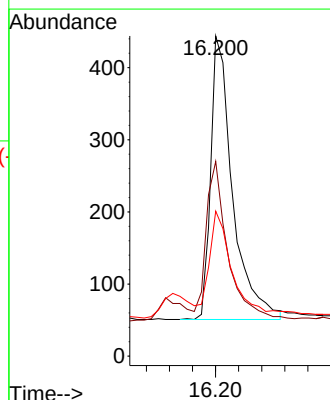
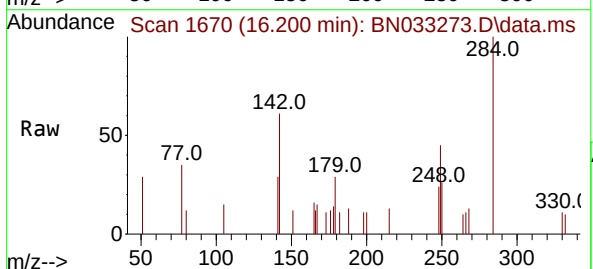
Manual Integrations
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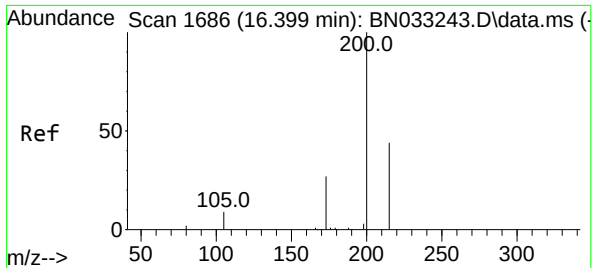
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#22
Hexachlorobenzene
Concen: 0.417 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

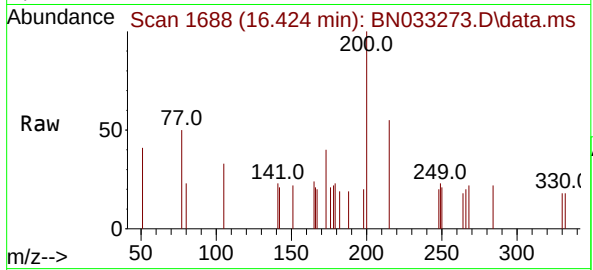
Tgt Ion:284 Resp: 1034
Ion Ratio Lower Upper
284 100
142 51.5 38.8 58.2
249 35.1 27.8 41.6





#23
Atrazine
Concen: 0.364 ng
RT: 16.424 min Scan# 1686
Delta R.T. 0.025 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

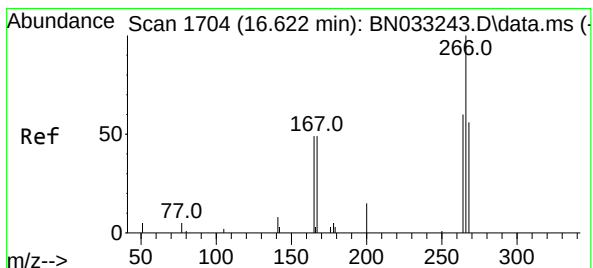
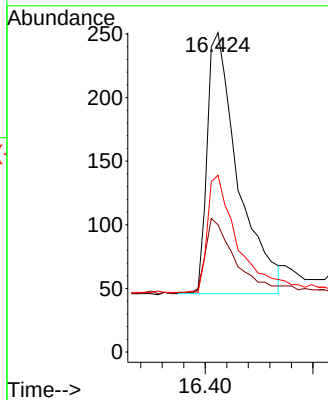
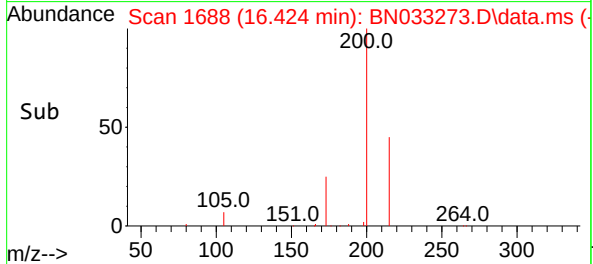
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:200 Resp: 814
Ion Ratio Lower Upper
200 100
173 39.8 29.2 43.8
215 55.4 41.5 62.3

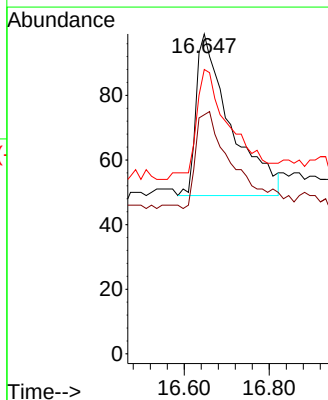
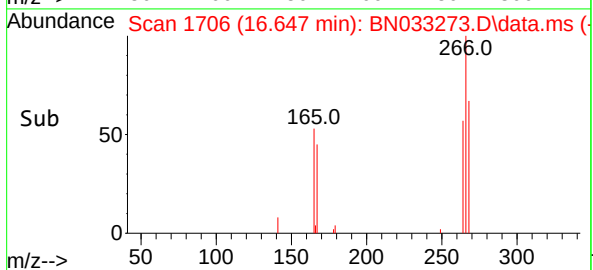
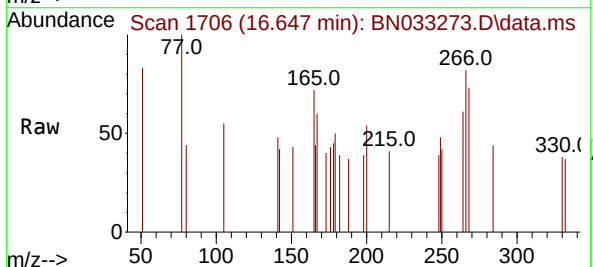
Manual Integrations
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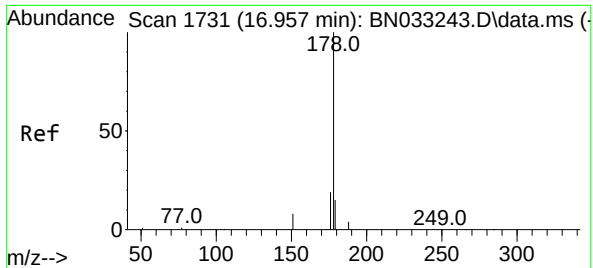
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#24
Pentachlorophenol
Concen: 0.337 ng
RT: 16.647 min Scan# 1706
Delta R.T. 0.025 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

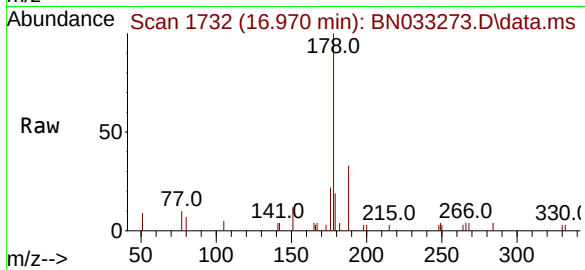
Tgt Ion:266 Resp: 280
Ion Ratio Lower Upper
266 100
264 65.0 49.3 73.9
268 69.6 50.2 75.2





#25
Phenanthrene
Concen: 0.384 ng
RT: 16.970 min Scan# 1731
Delta R.T. 0.013 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

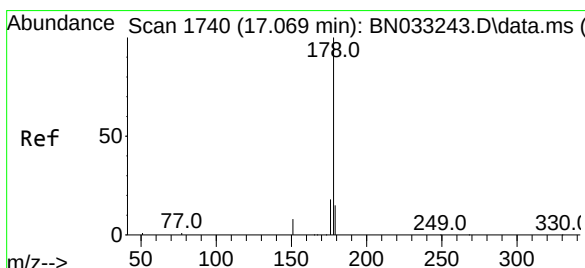
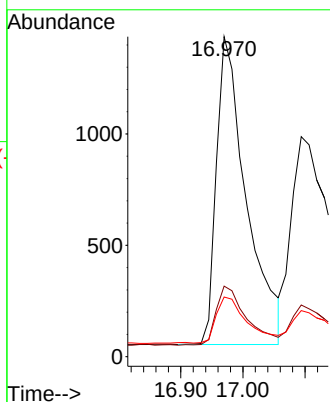
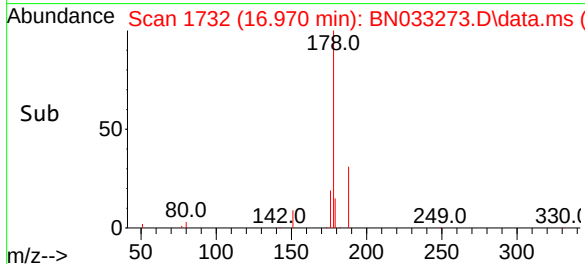
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:178 Resp: 462
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.6 12.4 18.6

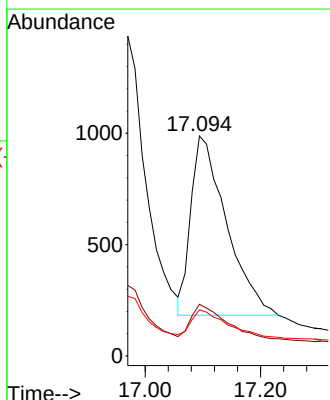
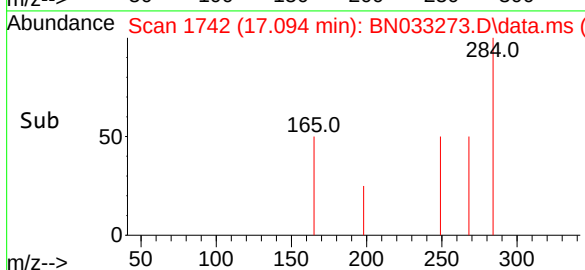
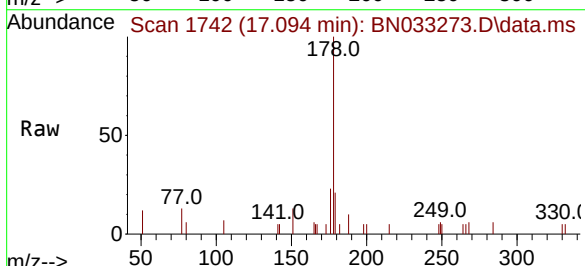
Manual Integrations
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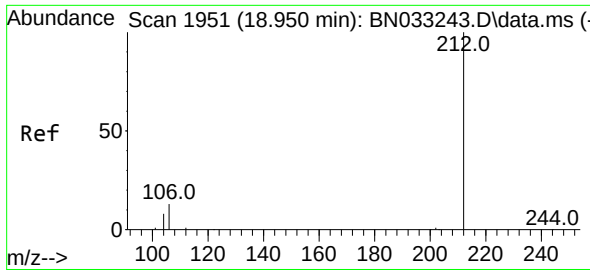
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#26
Anthracene
Concen: 0.342 ng
RT: 17.094 min Scan# 1742
Delta R.T. 0.025 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

Tgt Ion:178 Resp: 3452
Ion Ratio Lower Upper
178 100
176 18.1 10.5 15.7#
179 14.8 8.6 12.8#





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 18.964 min Scan# 1951

Delta R.T. 0.014 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

PB162490BSD

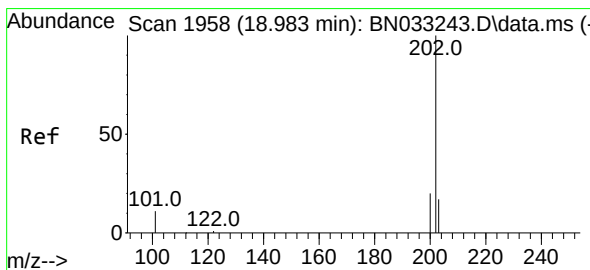
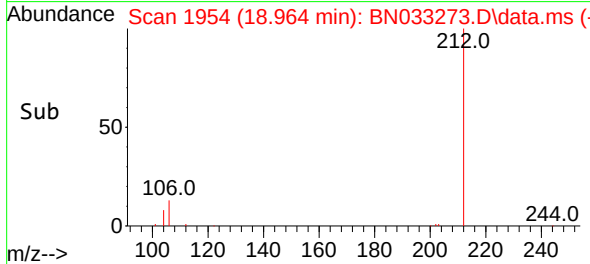
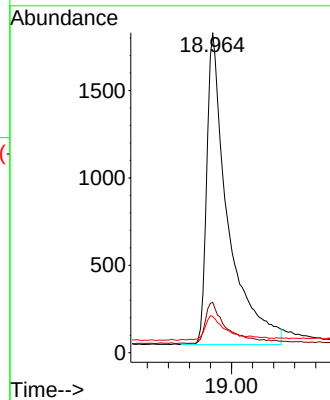
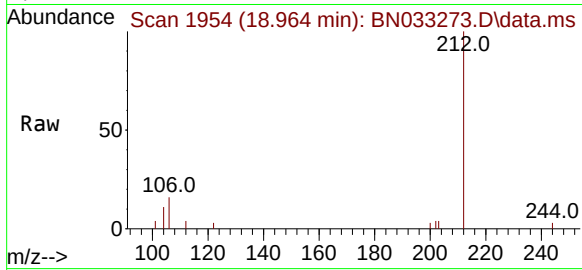
Tgt Ion:	212	Resp:	494
Ion Ratio	Lower	Upper	
212	100		
106	13.2	11.4	17.0
104	7.2	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#28

Fluoranthene

Concen: 0.380 ng

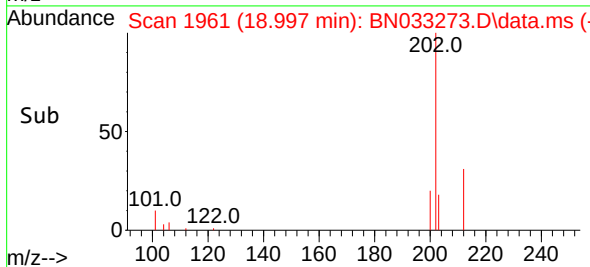
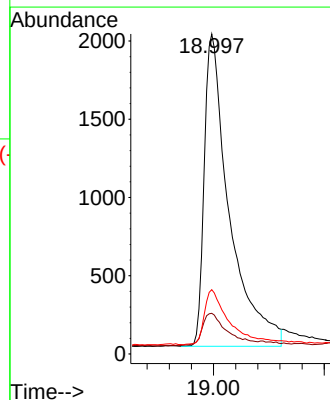
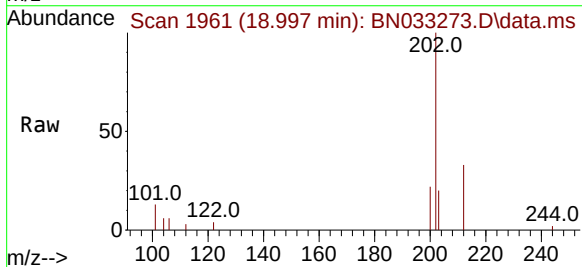
RT: 18.997 min Scan# 1961

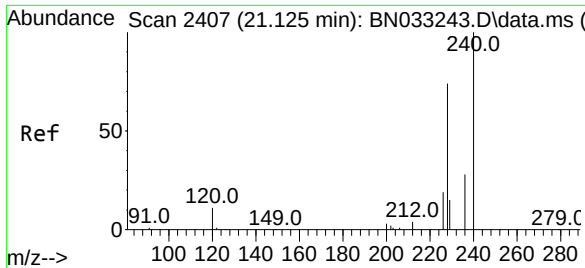
Delta R.T. 0.014 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

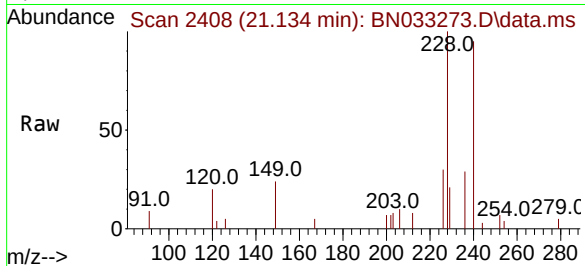
Tgt Ion:	202	Resp:	6285
Ion Ratio	Lower	Upper	
202	100		
101	10.5	8.6	13.0
203	17.7	13.8	20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2407
Delta R.T. 0.009 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

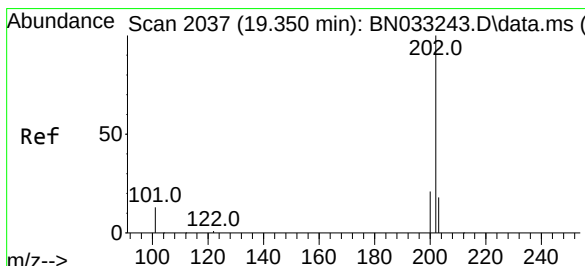
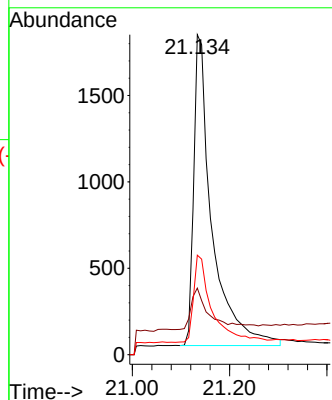
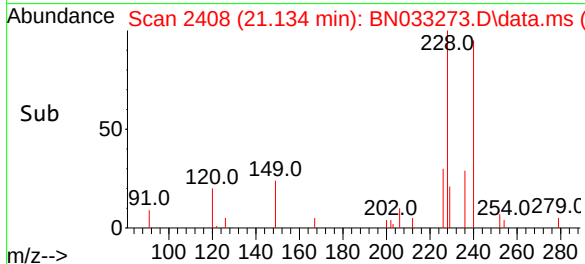
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:240 Resp: 468
Ion Ratio Lower Upper
240 100
120 20.8 13.3 19.9
236 31.1 23.8 35.6

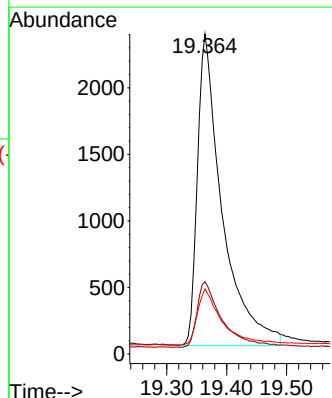
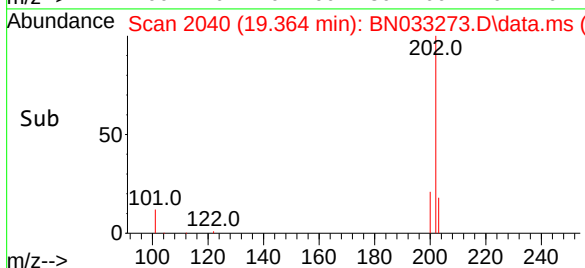
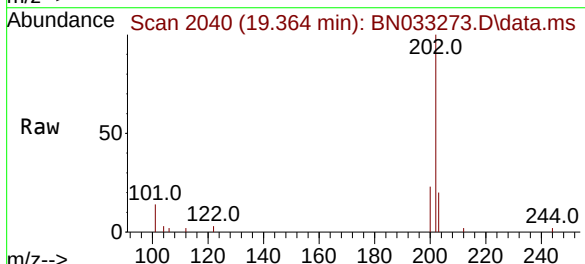
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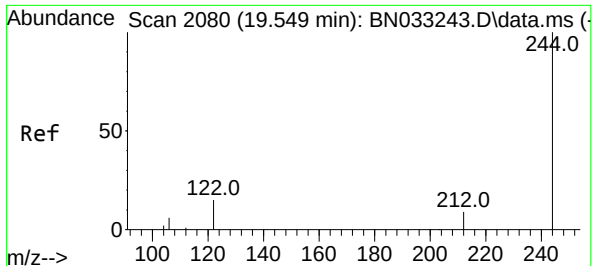
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#30
Pyrene
Concen: 0.409 ng
RT: 19.364 min Scan# 2040
Delta R.T. 0.014 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

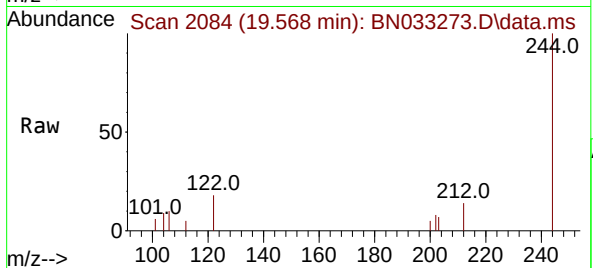
Tgt Ion:202 Resp: 6699
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.4 14.4 21.6





#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.568 min Scan# 2084
Delta R.T. 0.019 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

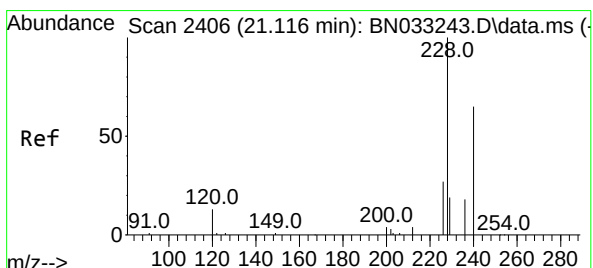
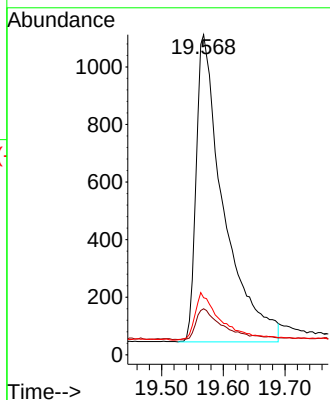
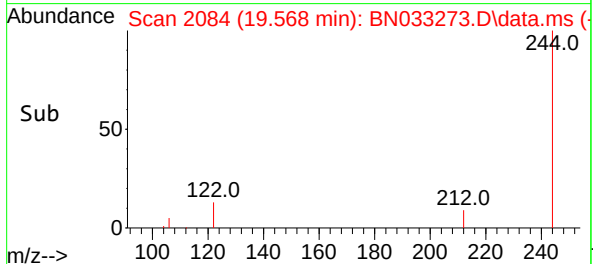
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion:244 Resp: 3289
Ion Ratio Lower Upper
244 100
212 14.4 9.9 14.9
122 17.8 14.1 21.1

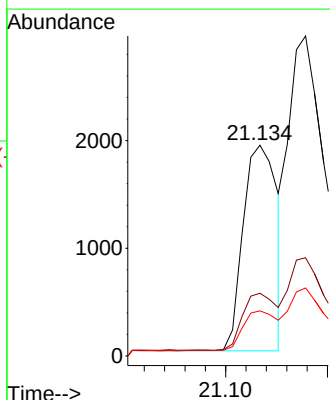
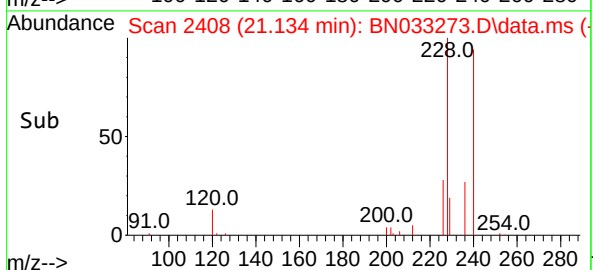
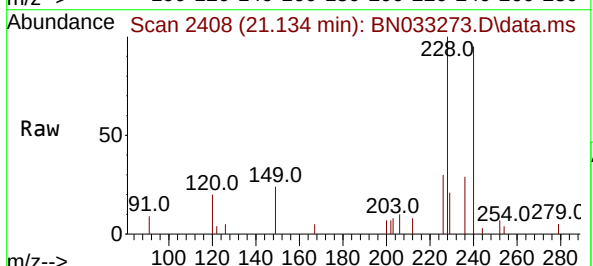
Manual Integrations
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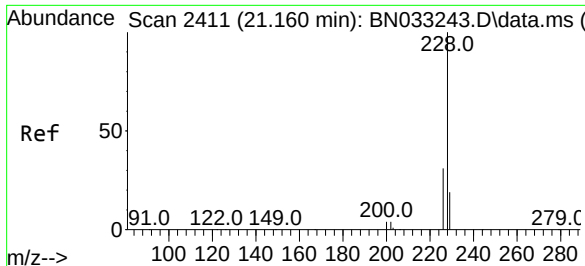
Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



#32
Benzo(a)anthracene
Concen: 0.326 ng
RT: 21.134 min Scan# 2408
Delta R.T. 0.018 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

Tgt Ion:228 Resp: 4405
Ion Ratio Lower Upper
228 100
226 29.8 22.4 33.6
229 21.4 16.6 25.0





#33

Chrysene

Concen: 0.453 ng

RT: 21.178 min Scan# 2411

Delta R.T. 0.018 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

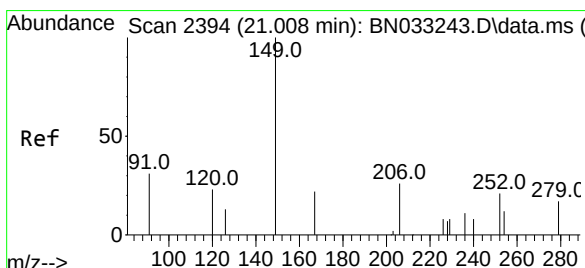
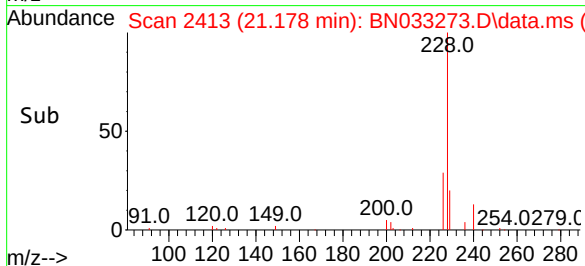
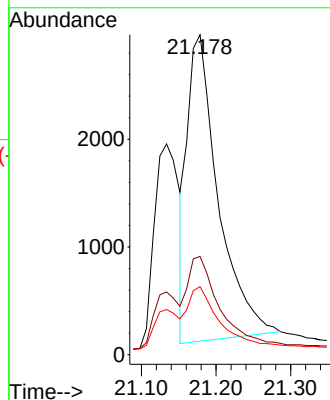
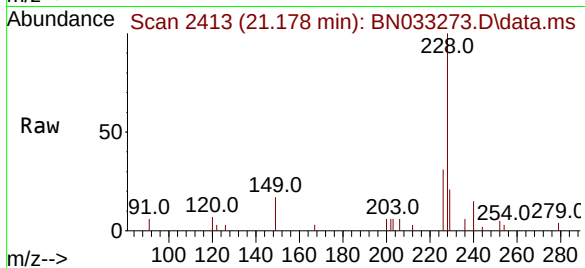
PB162490BSD

Tgt Ion:	228	Resp:	822
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.1	37.7
229	21.3	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.505 ng

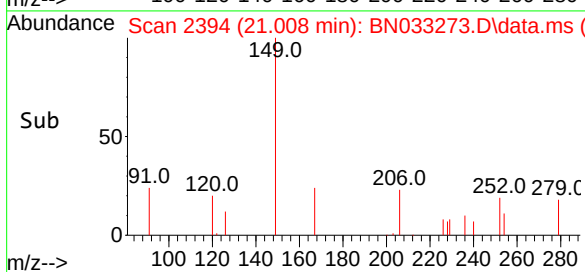
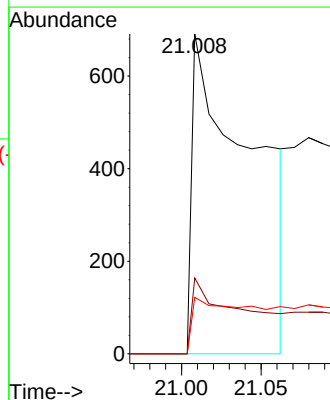
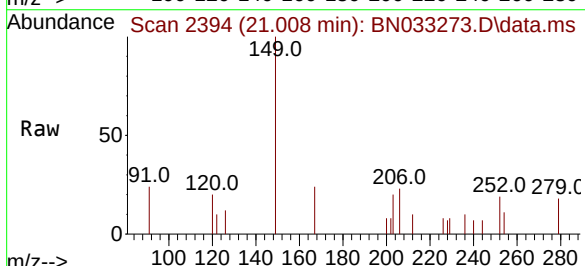
RT: 21.008 min Scan# 2394

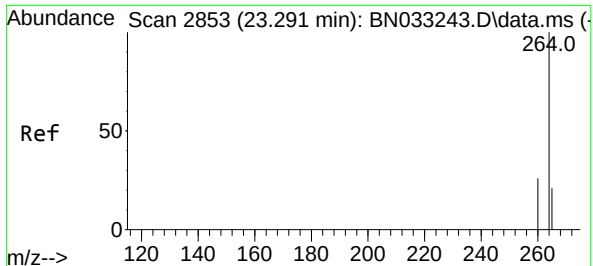
Delta R.T. 0.000 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Tgt Ion:	149	Resp:	1639
Ion Ratio	Lower	Upper	
149	100		
167	21.4	19.8	29.6
279	17.8	8.2	12.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.309 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN033273.D

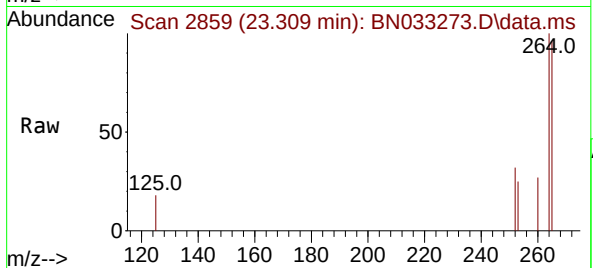
Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

PB162490BSD



Tgt Ion:264 Resp: 579

Ion Ratio Lower Upper

264 100

260 27.5 21.4 32.2

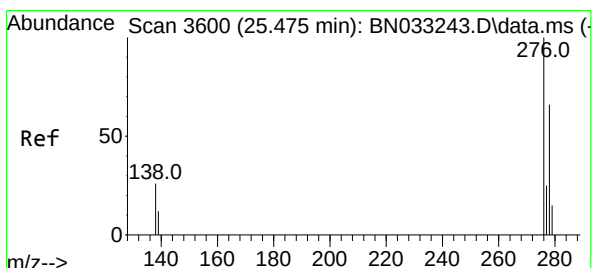
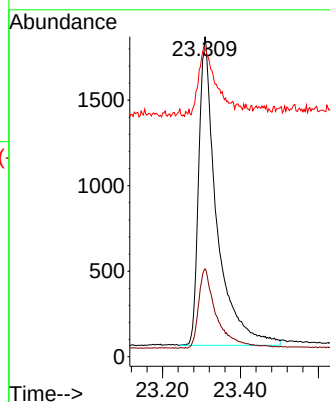
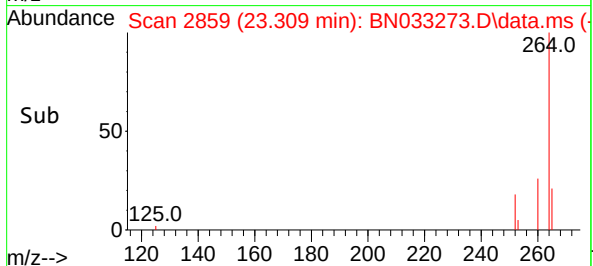
265 96.0 66.6 99.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.349 ng

RT: 25.504 min Scan# 3610

Delta R.T. 0.029 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

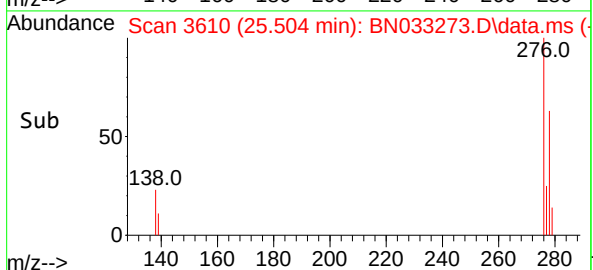
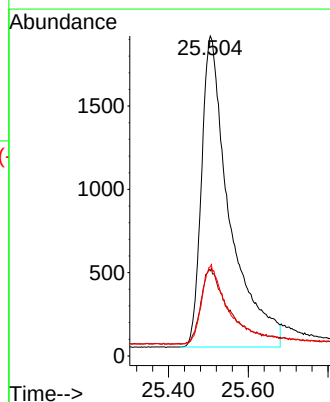
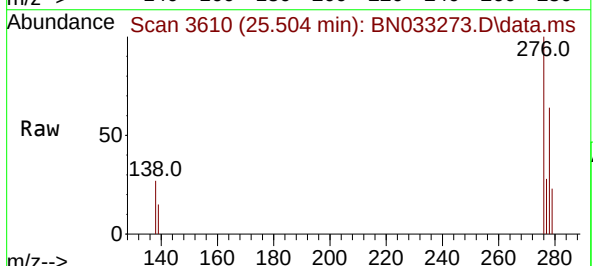
Tgt Ion:276 Resp: 9137

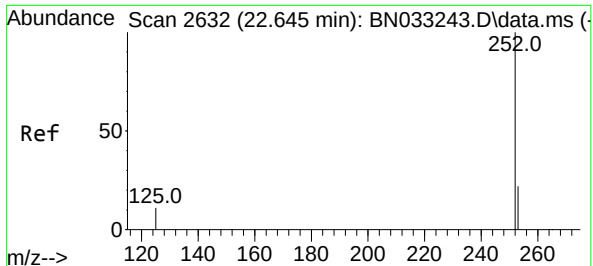
Ion Ratio Lower Upper

276 100

138 24.6 20.4 30.6

277 24.1 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.660 min Scan# 2637

Delta R.T. 0.015 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

PB162490BSD

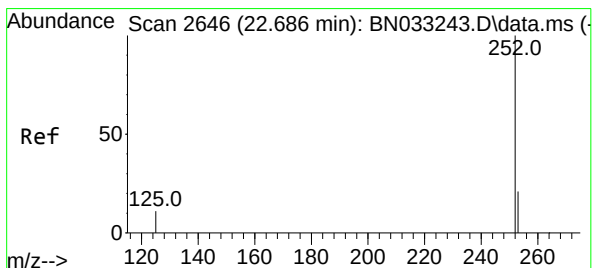
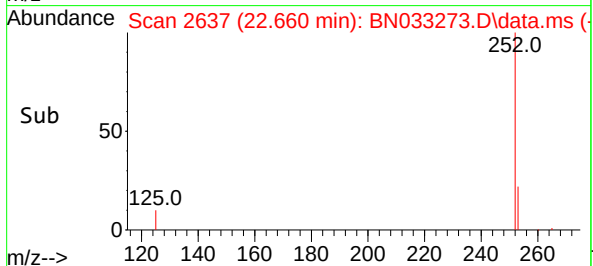
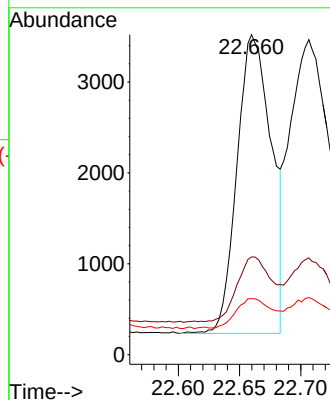
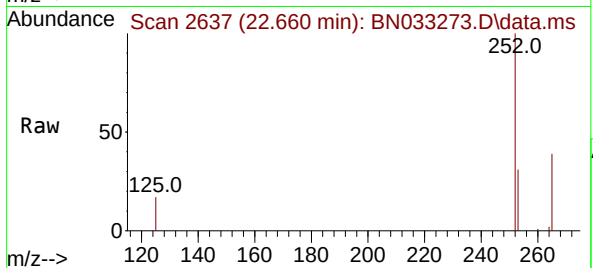
Tgt Ion:	252	Resp:	6420
Ion Ratio	Lower	Upper	
252	100		
253	30.5	23.3	34.9
125	17.5	14.6	22.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

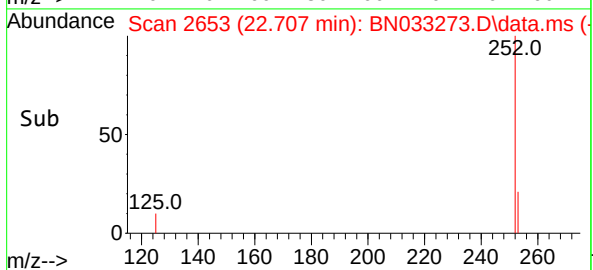
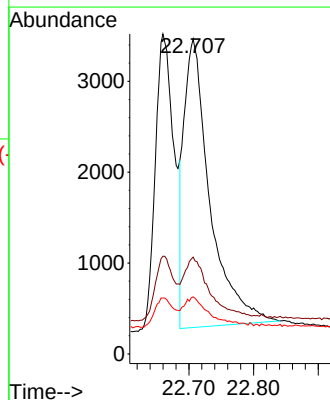
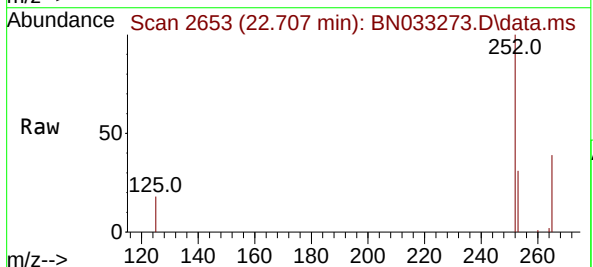
RT: 22.707 min Scan# 2653

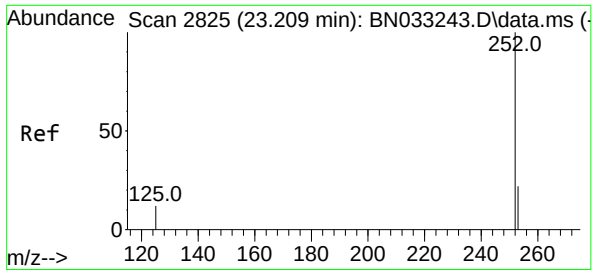
Delta R.T. 0.021 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Tgt Ion:	252	Resp:	8817
Ion Ratio	Lower	Upper	
252	100		
253	30.7	23.7	35.5
125	18.1	15.4	23.0





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.233 min Scan# 21

Delta R.T. 0.024 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

Instrument :

BNA_N

ClientSampleId :

PB162490BSD

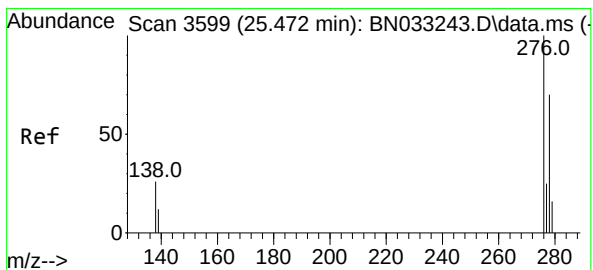
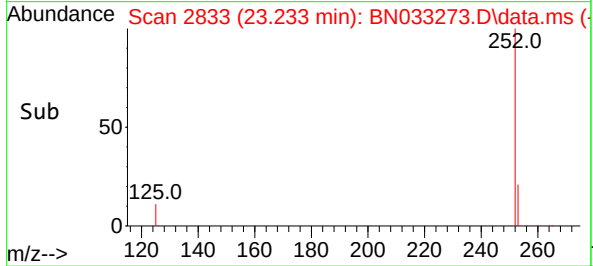
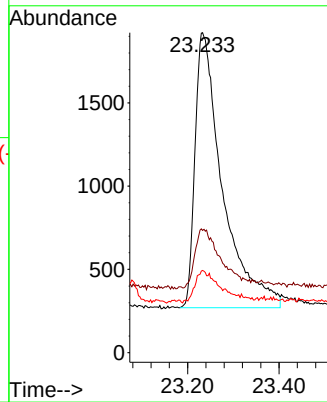
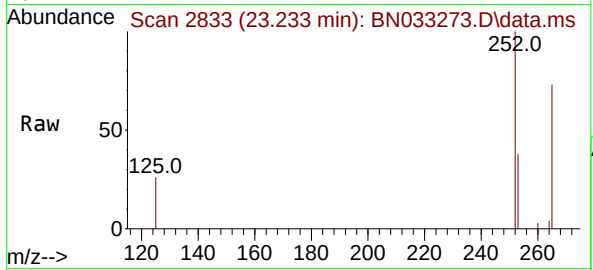
Tgt Ion:	252	Resp:	6890
Ion Ratio	Lower	Upper	
252	100		
253	38.2	28.4	42.6
125	25.7	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2024

Supervised By :mohammad ahmed 08/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

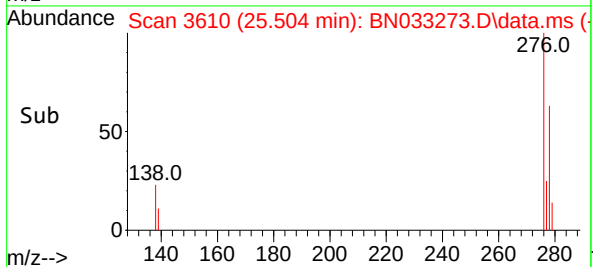
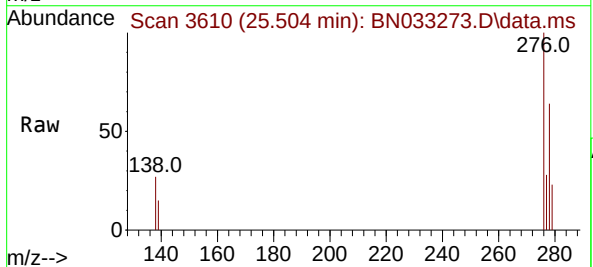
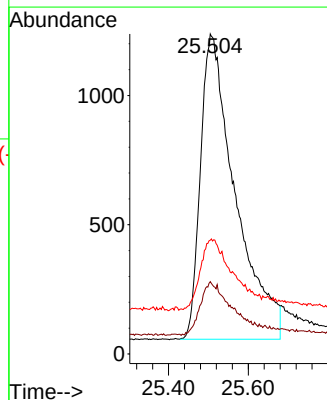
RT: 25.504 min Scan# 3610

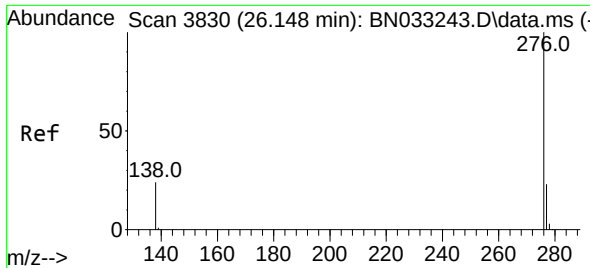
Delta R.T. 0.032 min

Lab File: BN033273.D

Acq: 06 Aug 2024 14:55

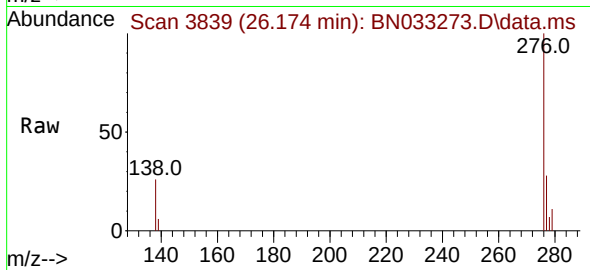
Tgt Ion:	278	Resp:	7145
Ion Ratio	Lower	Upper	
278	100		
139	22.6	16.7	25.1
279	35.5	25.0	37.6





#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.174 min Scan# 3839
Delta R.T. 0.026 min
Lab File: BN033273.D
Acq: 06 Aug 2024 14:55

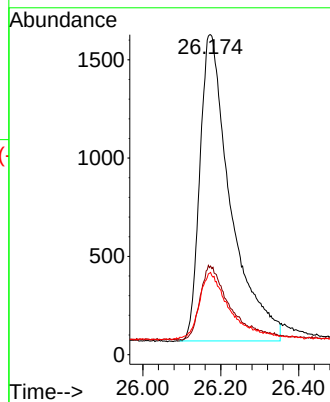
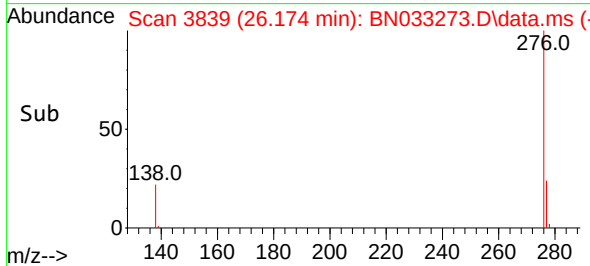
Instrument :
BNA_N
ClientSampleId :
PB162490BSD



Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.7	21.0	31.4
138	25.7	21.4	32.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2024
Supervised By :mohammad ahmed 08/08/2024



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
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

Manual Integration Report

Sequence:	BN080624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033270.D	1,4-Dichlorobenzene-d4	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033270.D	2-Fluorophenol	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033270.D	Benzo(g,h,i)perylene	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033270.D	bis(2-Chloroethyl)ether	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033270.D	n-Nitrosodimethylamine	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033270.D	Phenol-d6	yogesh	8/7/2024 2:37:06 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	1,4-Dichlorobenzene-d4	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	2,4,6-Tribromophenol	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	2-Fluorophenol	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	2-Methylnaphthalene-d10	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	Acenaphthene-d10	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	Nitrobenzene-d5	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BL	BN033271.D	Phenanthrene-d10	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB162490BL	BN033271.D	Phenol-d6	yogesh	8/7/2024 2:37:08 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BS	BN033272.D	1,4-Dichlorobenzene-d4	yogesh	8/7/2024 2:37:10 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BS	BN033272.D	2-Fluorophenol	yogesh	8/7/2024 2:37:10 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BS	BN033272.D	2-Methylnaphthalene-d10	yogesh	8/7/2024 2:37:10 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BS	BN033272.D	bis(2-Chloroethyl)ether	yogesh	8/7/2024 2:37:10 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BS	BN033272.D	Phenol-d6	yogesh	8/7/2024 2:37:10 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BSD	BN033273.D	1,4-Dichlorobenzene-d4	yogesh	8/7/2024 2:37:11 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BSD	BN033273.D	2-Fluorophenol	yogesh	8/7/2024 2:37:11 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BSD	BN033273.D	bis(2-Chloroethyl)ether	yogesh	8/7/2024 2:37:11 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BSD	BN033273.D	n-Nitrosodimethylamine	yogesh	8/7/2024 2:37:11 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
PB162490BSD	BN033273.D	Phenol-d6	yogesh	8/7/2024 2:37:11 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
P3467-01	BN033278.D	2-Fluorophenol	yogesh	8/7/2024 2:37:19 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
P3467-01	BN033278.D	Phenol-d6	yogesh	8/7/2024 2:37:19 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:

BN080624

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033287.D	2-Fluorophenol	yogesh	8/8/2024 8:42:31 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033287.D	Benzo(k)fluoranthene	yogesh	8/8/2024 8:42:31 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033287.D	bis(2-Chloroethyl)ether	yogesh	8/8/2024 8:42:31 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033287.D	Phenol-d6	yogesh	8/8/2024 8:42:31 AM	mohammad	8/8/2024 9:26:42 AM	Peak Integrated by Software incorrectly

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_SIN 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 # BN080624

Review By	yogesh	Review On	8/7/2024 2:37:25 AM
Supervise By	mohammad	Supervise On	8/8/2024 9:26:42 AM
SubDirectory	BN080624	HP Acquire Method	BNA_N, 8270_SIN 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	BN033269.D	06 Aug 2024 12:24	MA/JU	Ok
2	SSTDCCC0.4	BN033270.D	06 Aug 2024 13:04	MA/JU	Ok,M
3	PB162490BL	BN033271.D	06 Aug 2024 13:41	MA/JU	Ok,M
4	PB162490BS	BN033272.D	06 Aug 2024 14:18	MA/JU	Ok,M
5	PB162490BSD	BN033273.D	06 Aug 2024 14:55	MA/JU	Ok,M
6	P3458-02	BN033274.D	06 Aug 2024 15:32	MA/JU	Ok,M
7	P3458-03	BN033275.D	06 Aug 2024 16:09	MA/JU	Ok,M
8	P3459-02	BN033276.D	06 Aug 2024 16:46	MA/JU	Ok,M
9	P3459-03	BN033277.D	06 Aug 2024 17:23	MA/JU	Ok,M
10	P3467-01	BN033278.D	06 Aug 2024 17:59	MA/JU	Ok,M
11	P3468-02	BN033279.D	06 Aug 2024 18:36	MA/JU	Ok,M
12	P3469-01	BN033280.D	06 Aug 2024 19:13	MA/JU	Ok,M
13	P3469-02	BN033281.D	06 Aug 2024 19:50	MA/JU	Ok,M
14	PB162519BL	BN033282.D	06 Aug 2024 20:27	MA/JU	Ok,M
15	PB162519BS	BN033283.D	06 Aug 2024 21:03	MA/JU	Ok,M
16	P3468-01	BN033284.D	06 Aug 2024 21:40	MA/JU	Ok,M
17	P3468-01MS	BN033285.D	06 Aug 2024 22:16	MA/JU	Ok,M
18	P3468-01MSD	BN033286.D	06 Aug 2024 22:53	MA/JU	Ok,M
19	SSTDCCC0.4	BN033287.D	06 Aug 2024 23:29	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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080624

Review By	yogesh	Review On	8/7/2024 2:37:25 AM
Supervise By	mohammad	Supervise On	8/8/2024 9:26:42 AM
SubDirectory	BN080624	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	BN033269.D	06 Aug 2024 12:24		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033270.D	06 Aug 2024 13:04		MA/JU	Ok,M
3	PB162490BL	PB162490BL	BN033271.D	06 Aug 2024 13:41		MA/JU	Ok,M
4	PB162490BS	PB162490BS	BN033272.D	06 Aug 2024 14:18		MA/JU	Ok,M
5	PB162490BSD	PB162490BSD	BN033273.D	06 Aug 2024 14:55		MA/JU	Ok,M
6	P3458-02	EB-70-150	BN033274.D	06 Aug 2024 15:32		MA/JU	Ok,M
7	P3458-03	MLS-15-224-239	BN033275.D	06 Aug 2024 16:09		MA/JU	Ok,M
8	P3459-02	MLS-15-360-375	BN033276.D	06 Aug 2024 16:46		MA/JU	Ok,M
9	P3459-03	MLS-15-383-398	BN033277.D	06 Aug 2024 17:23		MA/JU	Ok,M
10	P3467-01	919-J-WS-080224	BN033278.D	06 Aug 2024 17:59		MA/JU	Ok,M
11	P3468-02	MLS-15-682-697	BN033279.D	06 Aug 2024 18:36		MA/JU	Ok,M
12	P3469-01	MLS-15-513-528	BN033280.D	06 Aug 2024 19:13		MA/JU	Ok,M
13	P3469-02	MLS-15-625-640	BN033281.D	06 Aug 2024 19:50		MA/JU	Ok,M
14	PB162519BL	PB162519BL	BN033282.D	06 Aug 2024 20:27		MA/JU	Ok,M
15	PB162519BS	PB162519BS	BN033283.D	06 Aug 2024 21:03		MA/JU	Ok,M
16	P3468-01	IDW-S1-01	BN033284.D	06 Aug 2024 21:40		MA/JU	Ok,M
17	P3468-01MS	IDW-S1-01MS	BN033285.D	06 Aug 2024 22:16		MA/JU	Ok,M
18	P3468-01MSD	IDW-S1-01MSD	BN033286.D	06 Aug 2024 22:53		MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080624

Review By	yogesh	Review On	8/7/2024 2:37:25 AM				
Supervise By	mohammad	Supervise On	8/8/2024 9:26:42 AM				
SubDirectory	BN080624	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							
19	SSTDCCC0.4	SSTDCCC0.4EC	BN033287.D	06 Aug 2024 23:29		MA/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 08/05/2024

Matrix : Water **Extraction Start Time :** 09:05

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 08/05/2024

Balance check: N/A **Filter By:** RS **Extraction End Time :** 16:10

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 ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standardized 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	EP2519
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 ML Vial lot#2210673. p H Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.P3467,3468,3469 Added in batch at 11:14.

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
08/05/24	RP (Ext. Lab)	RC/SVOC
16:15	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 08/05/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162490BL	SBLK490	SVOCMS Group3	1000	6	RUPESH	rajesh	1			SEP-1
PB162490BS	SLCS490	SVOCMS Group3	1000	6	RUPESH	rajesh	1			2
PB162490BS D	SLCSD490	SVOCMS Group3	1000	6	RUPESH	rajesh	1			3
P3457-01	924-K2-WS-080224 924-K2-WS-080224	SVOCMS Group3	980	6	RUPESH	rajesh	1	E		4
P3457-02	932-K2-WS-080224 924-K2-WS-080224	SVOCMS Group3	980	6	RUPESH	rajesh	1	E		5
P3458-02	EB-70-150	SVOC-SIMGro up1	960	6	RUPESH	rajesh	1	E		6
P3458-03	MLS-15-224-239	SVOC-SIMGro up1	980	6	RUPESH	rajesh	1	E		7
P3458-04	MLS-15-257-272	SVOC-SIMGro up1	990	6	RUPESH	rajesh	1	E		8
P3459-01	EB-224-375	SVOC-SIMGro up1	990	6	RUPESH	rajesh	1	B		9
P3459-02	MLS-15-360-375	SVOC-SIMGro up1	990	6	RUPESH	rajesh	1	B		10
P3459-03	MLS-15-383-398	SVOC-SIMGro up1	970	6	RUPESH	rajesh	1	B		11
P3467-01	919-J-WS-080224	SVOCMS Group3	950	6	RUPESH	rajesh	1	H		12
P3468-02	MLS-15-682-697	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	D		13
P3469-01	MLS-15-513-528	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	E		14
P3469-02	MLS-15-625-640	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	E		15

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3458 WorkList ID : 182346 Department : Extraction Date : 08-05-2024 08:16:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3457-01	924-K1-WS-080224	Water	SVOCMS Group3	Cool 4 deg C	JACO05	J21	08/02/2024	8270-Modified
P3457-02	932-K1-WS-080224	Water	SVOCMS Group3	Cool 4 deg C	JACO05	J21	08/02/2024	8270-Modified
P3458-02	EB-70-150	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D31	07/31/2024	8270-Modified
P3458-03	MLS-15-224-239	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D31	08/01/2024	8270-Modified
P3458-04	MLS-15-257-272	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D31	08/01/2024	8270-Modified
P3459-01	EB-224-375	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N31	08/01/2024	8270-Modified
P3459-02	MLS-15-360-375	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N31	08/01/2024	8270-Modified

Date/Time 08/05/24 9:00
 Raw Sample Received by: *Rs (See Lay)*
 Raw Sample Relinquished by: *Rs (See Lay)*

Date/Time 08/05/24 9:35
 Raw Sample Received by: *Rs (See Lay)*
 Raw Sample Relinquished by: *Rs (See Lay)*

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3459 WorkList ID : 182370 Department : Extraction Date : 08-05-2024 11:14:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3459-03	MLS-15-383-398	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N31	08/02/2024	8270-Modified
P3467-01	919-J-WS-080224	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D21	08/02/2024	8270-Modified
P3468-02	MLS-15-682-697	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D21	08/02/2024	8270-Modified
P3469-01	MLS-15-513-528	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D21	08/02/2024	8270-Modified
P3469-02	MLS-15-625-640	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	D21	08/02/2024	8270-Modified

Date/Time 08/07/24 11:14
Raw Sample Received by: RJ (Set 1a5)
Raw Sample Relinquished by: _____

Date/Time 08/07/24 11:50
Raw Sample Received by: _____
Raw Sample Relinquished by: RJ (Set 1a5)

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Prep Standard - Chemical Standard Summary

Order ID : P3467
Test : SVOCMS Group3
Prepbatch ID : PB162490,
Sequence ID/Qc Batch ID: BN080524,BN080524,BN080624,BN080624,

Standard ID :
EP2499,EP2514,EP2519,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	EP2519	08/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 08/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram (EX-SC-2)

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

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5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Z-112090 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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

www.restek.com

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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 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)

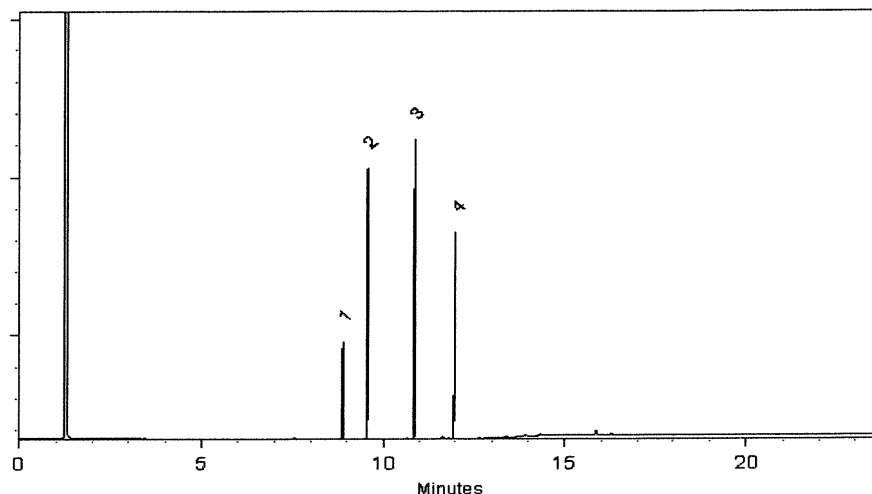
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



110 Benner Circle
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Certificate of Analysis



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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 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 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:

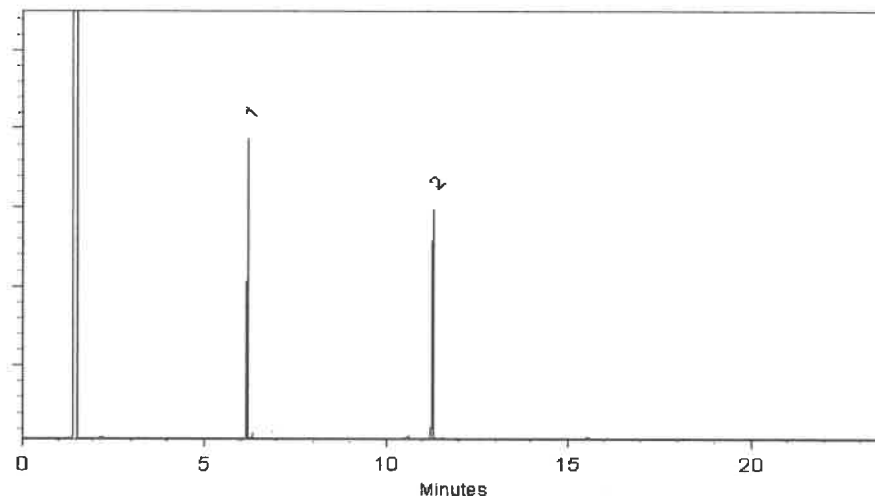
250°C

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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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:

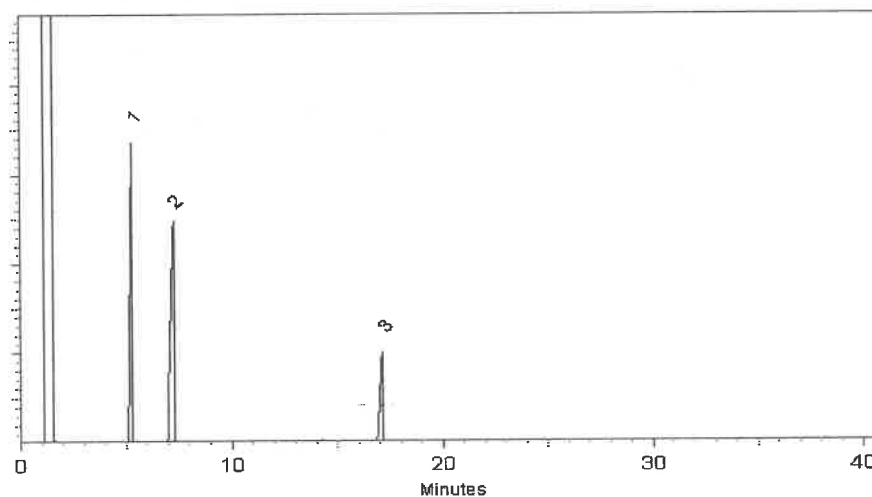
250°C

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

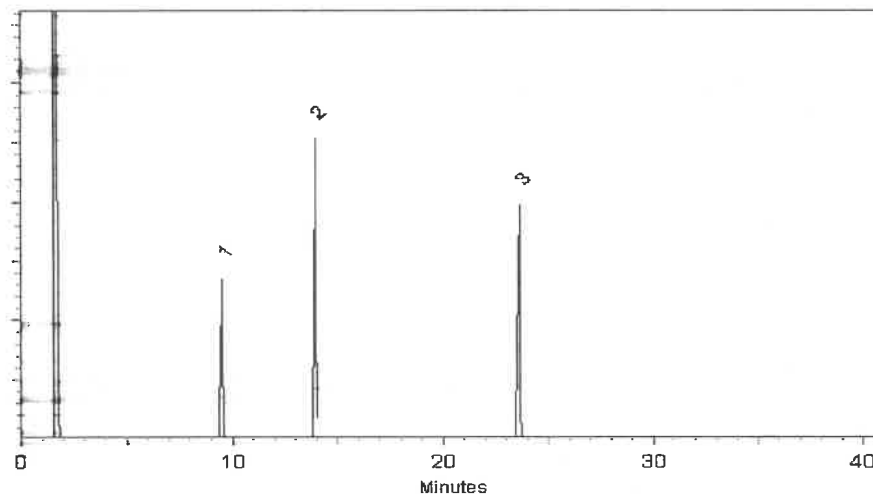
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

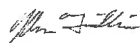
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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. : 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.



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MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

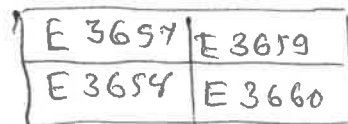
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



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

J. Croak
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

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Page 1 of 1

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 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 ₂ Cl 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 (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

MS037-38-39-40
NO

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



5580 Skyline Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

511434 J Y.P
07/20/23

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	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 ₄		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
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

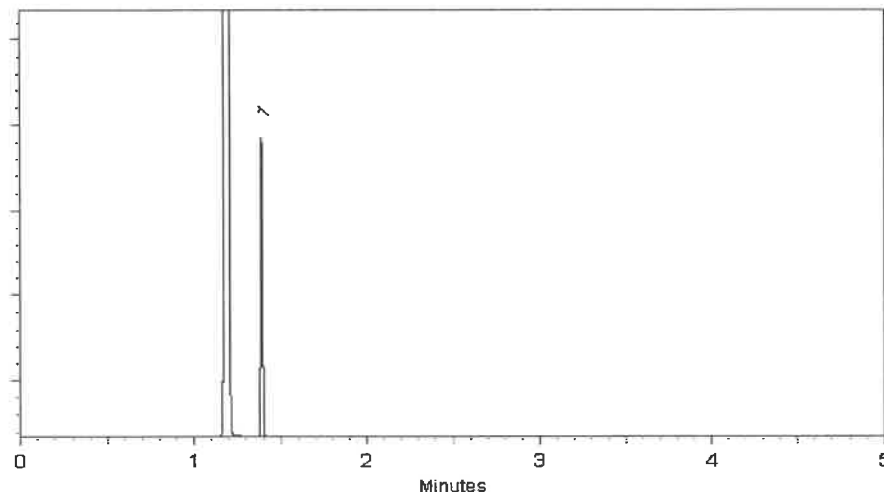
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

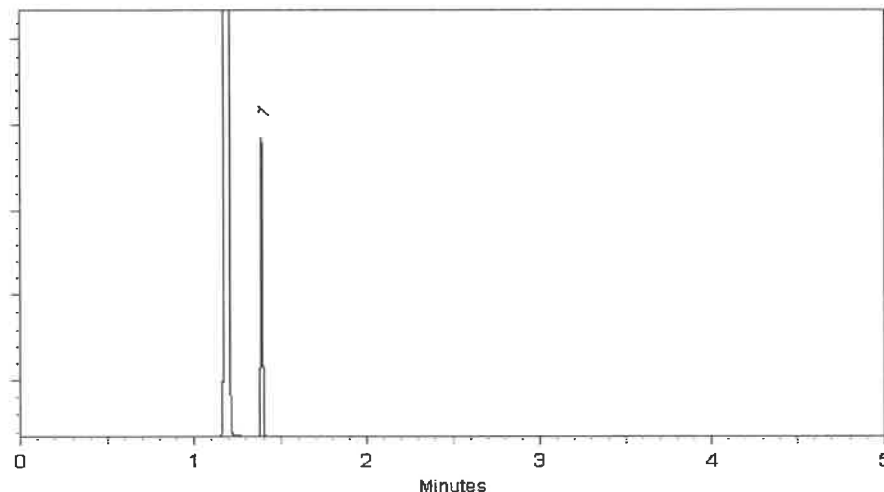
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

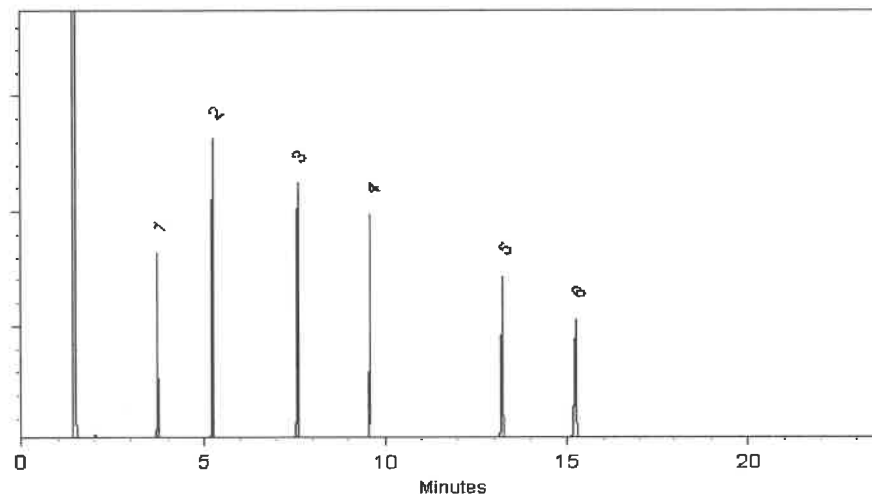
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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:

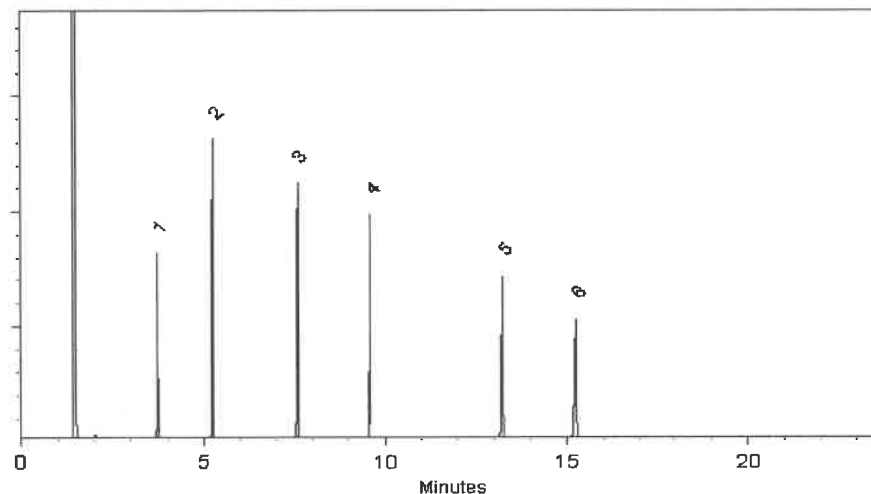
FID

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



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Bellefonte, PA 16823-8812
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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. : 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%

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Certificate of Analysis

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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. : 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%

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SHIPPING DOCUMENTS

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CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041309

P3467

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY: Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yankovic
PHONE: (908) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PFC
PROJECT NO.: D3774422 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) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

VOCs 82603
SWOG + PAHs 82705
82205 SUM
Metals 60208 / Hg
74728
Cu (V) 7416A

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E						← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
1.	919-J-WS-080224	WS		X	8/2/24	1325	8	2	4	1	1							
2.	TB-03-080224	DI		X	8/2/24	1505	1	1										
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 8/2/24 1620	RECEIVED BY: [Signature] 8-2-24 1620	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.90 °C
1. [Signature]			Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO metals
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	2L extra volume for SVOC + PAH analysis
2. [Signature]			
RELINQUISHED BY SAMPLER:	DATE/TIME: 8-2-24 1745	RECEIVED BY:	
3. [Signature]			

Page 1 of 1

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	2024021
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 : P3467	JACO05	Order Date : 8/2/2024 4:30:00 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 : 8/2/2024 12:00:00 AM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 176:45	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
P3467-01	919-J-WS-080224	Water	08/02/2024	13:25					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3467-02	TB-03-080224	Water	08/02/2024	15:05					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinquished By :

CP

Date / Time : 8-5-24 850

Received By :

Sam

Date / Time : 8/5/24 8.50

net 4

Storage Area : VOA Refridgerator Room